

itd Advanced Resource Planning 12.2.0

User and Administrator Manual

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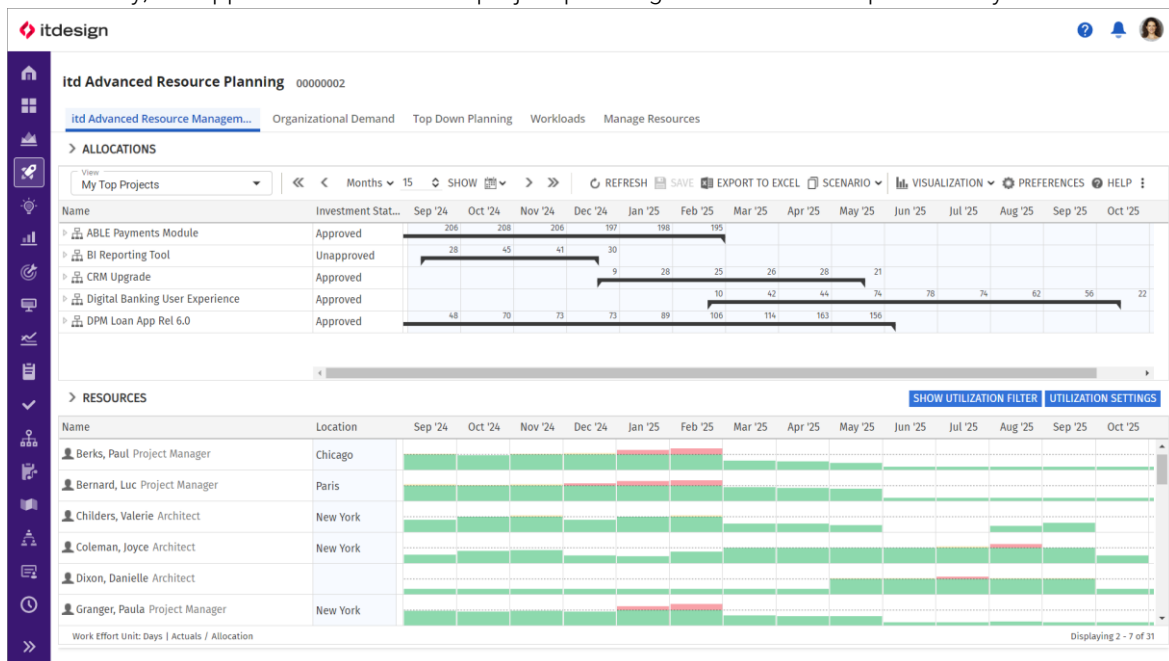
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1 Short Description

itd Advanced Resource Planning is an add-on tightly integrated with Clarity PPM for planning hours and costs on individual investments or across multiple investments and managing resource pools. Additionally, the application offers basic project planning and a number of productivity features.

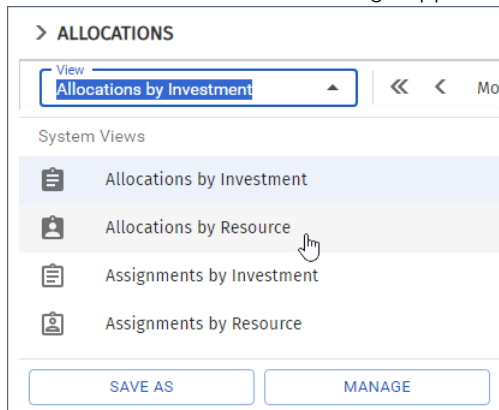


Main Features

- > Plan based on investments or based on resources, roles and teams.
- > Plan for a single investment or across multiple investments.
- > Plan for custom investment types and investment hierarchies.
- > Edit allocations, hard allocations and assignments.
- > Enter workloads per resource, role and team for investments and tasks.
- > View workload sums per investment, phase, task, resource, role and team.
- > View and edit investments and team entries, projects with phases, tasks, milestones and dependencies as well as assignments in the interactive Gantt chart.
- > The global overview of resource, role and team utilization and capacity in color-coded numbers or as a graphical histogram highlights over- and underbookings.
- > The tree view displays your selection of standard fields and any custom fields per data record.
- > Filters for standard and custom fields enable you to quickly and precisely select investments, resources, roles, teams, team entries, tasks and assignments.
- > Edit scenario data and roadmap scenarios in the allocations modes.
- > Edit investment hierarchies.

2 View Modes

itd Advanced Resource Planning supports four modes, listed in the **View** menu under **System Views**.



The selected view mode determines whether allocations or assignments are displayed, and whether they are grouped by investments or by resources, roles and teams.

You can customize these views, save them as custom views and share them with other users. The order of views in the menu is also customizable. See chapter "3 Views" on page 22 for details.

2.1 Allocations by Investment

The **Allocations by Investment** mode groups team entries of allocated resources, roles and teams and their allocations by associated investments. The utilization and capacity of resources, roles and teams are displayed in a separate view in color-coded numbers or as graphical histograms.

Name	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Cloud Transformation Program	1,560.0	1,544.0	1,576.0	1,544.0	744.0	536.0	552.0	320.0
Chen, Chih-wei Engineer	144.0	144.0	144.0	144.0	144.0			
Engineer	800.0	800.0	800.0	800.0				
Evans, Nick UX	176.0	168.0	184.0	168.0	168.0	176.0	184.0	160.0
Feinle, Kurt Product Manager	176.0	168.0	184.0	168.0	168.0	176.0	184.0	160.0
Grant, Lily Project Manager	80.0	80.0	80.0	80.0	80.0			
Murphy, Mary Engineer	24.0	24.0	24.0	24.0	24.0	24.0	24.0	
Rossi, Carla Engineer	160.0	160.0	160.0	160.0	160.0	160.0	160.0	
International Trade Show	1,696.0	1,544.0	1,377.4					

Name	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Amos, Cheryl Engineer								
Andersson, Peter Engineer								
Arpel, Ian Business Analyst								

2.1.1 Displayed Data

In **Allocations by Investment** mode, the following data will be displayed:

- > Investments (custom types included)
- > Resources, roles and teams with team entries for displayed investments
- > Associated team entries and allocations or hard allocations
- > List of all resources, roles and teams, optionally with utilization and capacity (separate view)
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25).

Displaying investment hierarchies is optional. You can toggle it in the **General** tab of the **Preferences** (also see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).

See section "5.1 Displayed Data" on page 40 for details.

2.1.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select up to two values that will be displayed per period for team entries (see "Cell Configuration" on page 67).

- > **Optional read-only value (small blue number at the left edge of the cell):** Allocation, Hard Allocation, ETC, Actuals, Actuals + ETC, Requested or Capacity
- > **Editable value (larger number at the right edge of the cell):** Allocation or Hard Allocation; base of utilization and capacity (see "2.1.10 Utilization and Capacity" on page 14)

The configured values will be displayed when hovering over the allocation grid with the associated preferences setting (see "9.12.7 Show Grid Hints for by Investment Views" on page 162).

2.1.3 Displaying Trend Arrows

Via the **Visualization** menu, you can toggle the display of trend arrows for deviations of the left cell value from the right one, see "5.3 Displaying Trend Arrows" on page 41.

2.1.4 Allocation, Hard Allocation and Actuals

In the **Columns** tab of the **Preferences**, you can display or hide the **Allocation, Hard Allocation** and **Actuals** fields in the left hand side list (see "5.15.3 Columns" on page 61).

See section "5.4 Allocation, Hard Allocation and Actuals" on page 127 for details.

2.1.5 Editing Allocations

In the upper right grid, you can see and edit the allocations for the displayed team entries.

See section "5.5 Editing Allocations" on page 41 for details.

2.1.6 Editing List Fields

You can edit most fields displayed in the list.

See section "5.6 Editing List Fields" on page 42 for details.

2.1.7 Context Menu for Investments and Team Entries

Hover over an investment or a team entry for a resource, role or team and click on the three dots that are displayed to open the associated context menu.

- > **Open properties:** investments and team entries (resources, roles and teams)
- > **Create Requisition:** team entries (resources, roles and teams)
- > **Allocate From Estimates:** investments and team entries (resources, roles and teams)
- > **Commit Allocation:** investments and team entries (resources, roles and teams)
- > **Accept Hard Allocation:** investments and team entries (resources, roles and teams)
- > **Delete:** team entries (resources, roles and teams) without actuals and associated allocations
- > **Unstaff to Effective Role:** team entries (resources and teams) without actuals
- > **Remove lock:** projects locked due to changes made in itd Advanced Resource Planning
- > **Expand all:** display all team entries of an investment
- > **Rename:** investments
- > **Show candidates (by Role, OBS and Skills):** team entries (roles)
- > **Show Investment Team:** filter resource list by investment

See section "5.7 Context Menu for Displayed Objects" on page 44 for details.

2.1.8 Conversations

The standard MUX conversations for team entries are available in itd Advanced Resources Planning in the **Allocations by Investment** and **Allocations by Resource** views.

See section "5.8 Conversations" on page 46 for details.

2.1.9 Interactive Gantt Bars

In **Allocations by Investment** mode, you can toggle the display of interactive Gantt bars separately for investments and team entries via the **Visualization** menu in the toolbar.

You can shift and resize investments and team entries via drag and drop of their Gantt bars.

See section "5.9 Interactive Gantt Bars" on page 47 for details.

2.1.10 Utilization and Capacity

The lower view section displays all resources, roles and teams for which you have access rights by default. Roles are listed at the bottom of the list. You can filter this view to display less items.

Optionally, the utilization and total or remaining capacity of resources, roles and teams are also displayed per period.

See section "5.10 Capacity and Utilization" on page 48 for details.

2.1.11 Allocating Resources, roles and teams via Drag-and-Drop

Drag resources, roles or teams from the utilization view to investments or team entries to create new team entries or to fully or partially replace allocated resources, roles and teams.

For roles, you can create multiple allocations in the same investment.

See the following sections for details about these features:

- > 5.10.8 Allocating a Resource, Role or Team via Drag-and-Drop (page 49)
- > 5.10.9 Replacing a Resource, Role or Team via Drag-and-Drop (page 50)
- > 5.10.10 Creating Multi-Role Allocations (page 50)

2.1.12 Scenario Comparison

In the **Allocations** modes, the **Scenario** menu will be available in the toolbar if you have the **Scenario – Navigate** right and if the menu hasn't been hidden by a Clarity PPM application administrator (see "9.12.2 Hide Toolbar Buttons" on page 160).

See section "5.11 Scenario Comparison" on page 52 for details.

2.1.13 Roadmap Scenario Mode

The roadmap scenario mode is available on roadmaps in the Modern UX.

This view compares the current schedule of investments with the schedule of their linked edit items and gives you access to the **In Plan** property of roadmap items. Changes you make in this mode are partially synchronized back to the roadmap view in Clarity PPM.

See section "5.12 Roadmap Scenario Mode" on page 55 for details.

2.1.14 Hierarchy Mode

The hierarchy mode is available on hierarchies in the Modern UX.

This view lists investments in the hierarchy with their respective hierarchy levels.

See section "5.13 Hierarchy Mode" on page 56 for details.

2.2 Allocations by Resource

The **Allocations by Resource** mode groups team entries for investments and associated allocations by the allocated resources, roles and teams.

Their utilization and capacity are displayed directly in the right hand side allocation grid view.

Name	Start	Finish	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24	Jul '24
Amos, Cheryl Engineer	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4	6.3 / 13.7	5.3 / 17.7
Arpel, Ian Business Analyst	09/12/2023	01/14/2024	30.4 / -8.4	34.3 / -13.3	16.8 / 6.2	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Baker, Isaac Manager	05/09/2022	01/04/2024	22.5 / -0.5	17.4 / 3.6	7.0 / 16.0	2.4 / 18.6	2.4 / 18.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4
Barry, Debra Product Manager	03/13/2023	01/31/2024	40.5 / -18.5	40.4 / -19.4	42.6 / -19.6	12.4 / 8.6	12.4 / 8.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4
Holiday	08/01/2023	03/31/2024	10.0	10.0	10.0	10.0	10.0				
International Trade Show	09/12/2023	01/31/2024	8.0	8.0	10.0						
Overall M&A Playbook	03/13/2023	01/30/2024	20.0	20.0	20.0						
Run the Business	01/01/2023	12/31/2025	2.5	2.4	2.6	2.4	2.4	2.5	2.6	2.3	2.6
Berks, Paul Project Manager	09/12/2023	01/23/2024	30.4 / -8.4	33.2 / -12.2	24.7 / -1.7	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Bernard, Luc Project Manager	09/12/2023	01/23/2024	17.0 / 5.0	23.0 / -2.0	23.0 / 0.0	9.4 / 11.6	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Berry, Jason Engineer	12/16/2022	09/30/2023	4.5 / 17.5	5.4 / 15.6	5.3 / 17.7	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Business Analyst	03/14/2022	09/03/2024	81.8 / -62.4	72.8 / -52.0	34.3 / 37.5	21.0 / 57.0	21.0 / 76.0	22.0 / 79.7	24.0 / 82.3	20.0 / 72.4	23.0 / 83.3

2.2.1 Displayed Data

In **Allocations by Resource** mode, the following data will be displayed:

- > Resources, roles and teams
- > Investments (custom types included) with team entries of displayed resources, roles and teams
- > Associated team entries and allocations or hard allocations
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25).

See section "6.1 Displayed Data" on page 68 for details.

2.2.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select up to two values that will be displayed per period for team entries (see "Cell Configuration" on page 89).

- > **Optional read-only value (small blue number at the left edge of the cell):** Allocation, Hard Allocation, ETC, Actuals, Actuals + ETC, Requested or Capacity
- > **Editable value (larger number at the right edge of the cell):** Allocation or Hard Allocation; base of utilization and capacity (see "2.2.10 Utilization and Capacity" on page 15)

The configured values will be displayed when hovering over the allocation grid with the associated preferences setting (see "9.12.8 Show Grid Hints for by Resource Views" on page 162).

2.2.3 Displaying Trend Arrows

Via the **Visualization** menu, you can toggle the display of trend arrows for deviations of the left cell value from the right one, see , see "6.3 Displaying Trend Arrows" on page 69.

2.2.4 Allocation, Hard Allocation and Actuals

In the **Columns** tab of the **Preferences**, you can display or hide the **Allocation**, **Hard Allocation** and **Actuals** fields in the left hand side list (see "6.1.5.3 Columns" on page 85).

See section "6.4 Allocation, Hard Allocation and Actuals" on page 69 for details.

2.2.5 Editing Allocations

In the right hand side grid, you can see and edit the allocations for the displayed team entries.

See section "6.5 Editing Allocations" on page 69 for details.

2.2.6 Editing List Fields

You can edit most fields displayed in the list.

See section "6.6 Editing List Fields" on page 70 for details.

2.2.7 Context Menu for Resources/Roles/Teams and Team Entries

Hover over a resource, role or team or over a team entry for an investment and click on the three dots that are displayed to open the associated context menu.

- > **Open properties:** resources/roles/teams and team entries (investments)
- > **Create Requisition:** team entries (investments)
- > **Allocate From Estimates:** team entries (investments)
- > **Commit Allocation:** team entries (investments)
- > **Accept Hard Allocation:** team entries (investments)
- > **Delete:** team entries (investments) without actuals and associated allocations
- > **Expand all:** display all team entries of a resource, role or team

See section "6.7 Context Menu for Displayed Objects" on page 71 for details.

2.2.8 Conversations

The standard MUX conversations for team entries are available in itd Advanced Resources Planning in the **Allocations by Investment** and **Allocations by Resource** views.

See section "6.8 Conversations" on page 72 for details.

2.2.9 Interactive Gantt Bars

In **Allocations by Resource** mode, you can toggle the display of interactive Gantt bars for team entries only via the **Visualization** menu in the toolbar.

You can shift and resize team entries via drag and drop of their Gantt bars.

See section "6.9 Interactive Gantt Bars" on page 73 for details.

2.2.10 Utilization and Capacity

With **Show Utilization** in the **General** tab of your **Preferences**, the **Allocation** and/or **Hard Allocation** and/or the total or remaining capacity (based on the editable value **Allocation** or **Hard Allocation**) are displayed per period for each resource, role and team in color coded numbers.

See section "6.10 Utilization and Capacity" on page 74 for details.

2.2.11 Scenario Comparison and Roadmap Scenario Mode

The scenario comparison and roadmap scenario mode are available in **Allocations by Resource** mode as well (see "2.1.12 Scenario Comparison" and "2.1.13 Roadmap Scenario Mode" on page 14).

See sections "6.11 Scenario Comparison" on page 76 and "6.12 Roadmap Scenario Mode" on page 79 for details.

2.2.12 Hierarchy Mode

The hierarchy mode is available on hierarchies in the Modern UX.

This view lists investments in the hierarchy with their respective hierarchy levels.

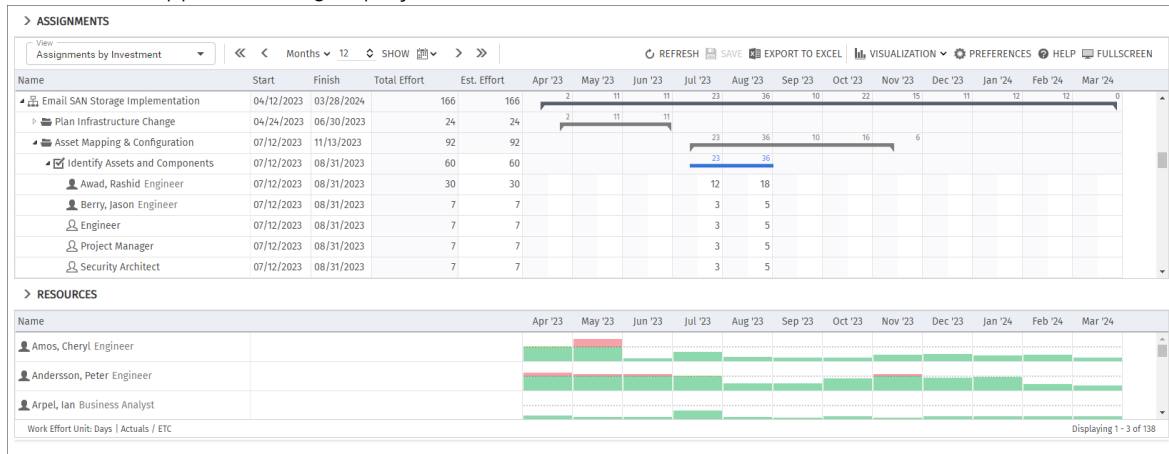
See section "6.13 Hierarchy Mode" on page 80 for details.

2.3 Assignments by Investment

The **Assignments by Investment** mode groups resource, role and team assignments by associated investments. Project or custom investment phases, tasks and milestones are also displayed.

The utilization and capacity of resources, roles and teams are displayed in a separate view in color-coded numbers or as graphical histograms.

This mode supports editing of project structures in an interactive Gantt chart.



2.3.1 Displayed Data

In **Assignments by Investment** mode, the following data will always be displayed:

- > Investments (custom types included)
- > Tasks of displayed projects and custom investment types
- > Assignments of resources, roles and teams
- > List of all resources, roles and teams, optionally with utilization and capacity (separate view)
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25)

Displaying of phases and milestones as well as of investment hierarchies can be toggled for each in the **General** tab of the **Preferences** (for investment hierarchies, also see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).

You can hide assignments via the **Visualization** menu to speed up loading of the view.

See section "7.1 Displayed Data" on page 91 for details.

2.3.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select an optional display value for assignments per period (see "Field to Display on the Left Part of the Cell" on page 124).

- > **Field to Display on the Left Part of the Cell (optional):** Empty (no field), ETC, Actuals, Capacity or a custom time scaled monetary value. You can edit the latter, see "7.7 Editing Custom Time Scaled Monetary Values" on page 95.
- > **Field Displayed on the Right Part of the Cell (Assignment):** In **Assignments by Resource** mode, the assignment value is always displayed on the right. This is also the base of the displayed utilization and capacity (see "2.3.10 Utilization and Capacity" on page 19).

The configured values will be displayed when hovering over the assignment grid with the associated preferences setting (see "9.12.7 Show Grid Hints for by Investment Views" on page 162).

2.3.3 Displaying Trend Arrows

Via the **Visualization** menu, you can toggle the display of trend arrows for deviations of the left cell value from the right one, see "7.3 Displaying Trend Arrows" on page 92.

2.3.4 Estimated Effort, Actuals and Total Effort

In the **Columns** tab of the **Preferences**, you can display or hide the **Estimated Effort**, **Actuals** and **Total Effort** (**Estimated + Actuals**) fields in the left hand side list (see "7.15.3 Columns" on page 119). See section "7.5 Estimated Effort, Actuals and Total Effort" on page 93 for details.

2.3.5 Editing Assignments and Monetary Values

In the upper right grid, you can see and edit the **Estimated Effort** or a custom time scaled monetary value per period. See sections "7.6 Editing Assignments" on page 93 and "7.7 Editing Custom Time Scaled Monetary Values" on page 95 for details.

2.3.6 Editing List Fields

You can edit most fields displayed in the list.

See section "7.8 Editing List Fields" on page 96 for details.

2.3.7 Context Menu for Displayed Objects

Hover over an investment, phase, task, milestone or assignment and click on the three dots that are displayed to open the associated context menu.

- > **Open properties:** for investments, phases, tasks, milestones and assignments
- > **Create Task:** for projects, phases and tasks without any assignments
- > **Autoschedule:** projects
- > **Allocate From Estimates:** for investments and task assignments of resources, roles and teams
- > **Remove lock:** for projects locked due to changes made in itd Advanced Resource Planning
- > **Indent Task:** tasks, milestones and phases
- > **Outdent Task:** indented tasks, milestones and phases
- > **Delete:** tasks and assignments without actuals and milestones
- > **Unassign to Effective Role:** assignments (resources and teams) without actuals
- > **Task Dependencies:** for tasks and milestones of projects
- > **Expand all:** display full sub-structures of investments and phases
- > **Rename:** investments, phases, tasks and milestones
- > **Show candidates (by Role, OBS and Skills):** for role assignments
- > **Show Investment Team:** filter resource list by investment

See section "7.9 Context Menu for Displayed Objects" on page 99 for details.

2.3.8 Moving and Copying Tasks, Milestones and Phases

You can change the order and hierarchy of tasks, milestones and phases via drag-and-drop. Changes will be directly applied without further confirmation. Hold the [Ctrl] key while executing the following steps to copy the selected object instead of moving it. See section "7.10.4 Moving and Copying Tasks, Milestones and Phases" on page 103 for details.

2.3.9 Interactive Gantt Bars

In **Assignments by Investment** mode, you can toggle the display of interactive Gantt bars separately for investments, tasks, phases and milestones as well as assignments via the **Visualization** menu in the toolbar. When Gantt bars for tasks and milestones are turned on, their dependencies will also be displayed. Additionally, you can highlight critical paths for projects via the **Visualization** menu.

Via drag-and-drop of Gantt bars, you can shift and resize non-project investments, phases, tasks and assignments and move milestones. You can also drag a task or milestone on another one to create a dependency or double-click on a dependency's arrow to edit it.

See section "7.11 Interactive Gantt Bars" on page 105 for details.

2.3.10 Utilization and Capacity

The lower section of the view displays all resources, roles and teams for which you have access rights by default. Roles are listed at the bottom of the list. You can filter the list to display less items. Optionally, the total utilization and remaining capacity of these resources, roles and teams are also displayed per period.

See section "7.12 Utilization and Capacity" on page 108 for details about this view.

2.3.11 Assigning Resources, roles and teams via Drag-and-Drop

Drag resources, roles or teams from the utilization view to tasks, non-project investments or assignments to assign them or to replace assigned resources, roles and teams.

For roles, you can create multiple assignments in the same task or non-project investment.

See the following sections for details about these features:

- > 7.12.7 Assigning a Resource, Role or Team via Drag-and-Drop (page 109)
- > 7.12.8 Replacing a Resource, Role or Team via Drag-and-Drop (page 110)
- > 7.12.9 Copying Assignments (page 110)
- > 7.12.10 Creating Multi-Role Assignments (page 111)

2.3.12 Assignments and Allocations in Single Investment Mode

In single investment mode, you can graphically compare assignments with the allocation or hard allocation of associated team entries in the histogram instead of ETC and capacity.

See section "7.12.11 Assignments and Allocations in Single Investment Mode" on page 111 for details about this feature.

See "Histogram Comparison (Single Investment Mode Only)" on page 124 for details about the **Preferences** for this feature.

2.3.13 Hierarchy Mode

The hierarchy mode is available on hierarchies in the Modern UX.

This view lists investments in the hierarchy with their respective hierarchy levels.

See section "7.13 Hierarchy Mode" on page 113 for details.

2.4 Assignments by Resource

The **Assignments by Resource** mode groups investments, tasks and assignments by the assigned resources, roles and teams.

Their utilization and capacity are displayed directly in the right hand side assignment grid view.

Editing project structures isn't possible in this mode.

ASSIGNMENTS												
View: Assignments by Resource												
REFRESH SAVE EXPORT TO EXCEL VISUALIZATION PREFERENCES HELP FULLSCREEN												
Name	Start	Finish	Total Effort	Est. Effort	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Amos, Cheryl Engineer	01/02/2023	12/31/2025	320	320	9 / 13	10 / 11	9 / 14	9 / 12	4 / 17	5 / 17	5 / 18	2 / 18
eBusiness Mobile Network	07/17/2023	07/08/2024	183	183	42	33	25	3	1	6	3	
Construction Phase	10/20/2023	12/12/2023	68	68	42	11						
User Interface Development	11/23/2023	12/01/2023	5	5	4	1						
Holiday	01/01/2023	12/31/2025	5,691	5,691	89	194	165	142	139	168	182	145
Holiday	01/01/2023	12/31/2025	79	79		2	2	2	2	2	2	2
Run the Business	01/01/2023	12/31/2025	10,877	10,877	314	304	329	304	292	306	313	275
Run the Business	01/01/2023	12/31/2025	113	113	5	7	7	7	2	3	3	2
Andersson, Peter Engineer	01/31/2022	12/31/2025	640	640	25 / -3	18 / 3	21 / 2	9 / 12	6 / 15	3 / 19	5 / 18	5 / 15
Arpel, Ian Business Analyst	01/02/2023	12/31/2025	183	183	3 / 19	5 / 16	5 / 18	5 / 16	5 / 16	5 / 17	5 / 18	5 / 15
Awad, Rashid Engineer	01/02/2023	12/31/2025	149	149	12 / 10	13 / 8	9 / 14	9 / 12	1 / 20	1 / 21	1 / 22	2 / 18
Baker, Isaac Manager	01/02/2023	12/31/2025	505	505	29 / -7	24 / -3	25 / -2	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Barry, Debra Product Manager	01/02/2023	12/31/2025	147	147	19 / 3	2 / 19	3 / 20	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Bauer, Joyce ML Engineer	01/02/2023	12/31/2025	122	122	11 / 11	14 / 7	15 / 8	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18

2.4.1 Displayed Data

In **Assignments by Resource** mode, the following data will always be displayed:

- > Resources, roles and teams
- > Investments (custom types included) with team entries for displayed resources, roles and teams
- > Associated tasks and assignments
- > Team entries without assignments
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25).

Displaying phases and parent investment hierarchies is optional and can be toggled for each in the **General** tab of the **Preferences**. See section "8.1 Displayed Data" on page 126 for details.

2.4.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select an optional display value for assignments per period (see "Field to Display on the Left Part of the Cell" on page 144).

- > **Field to Display on the Left Part of the Cell (optional):** Empty (no field), ETC, Actuals, Capacity or a custom time scaled monetary value. You can edit the latter, see "7.7 Editing Custom Time Scaled Monetary Values" on page 95.
- > **Field Displayed on the Right Part of the Cell (Assignment):** In **Assignments by Resource** mode, the assignment value is always displayed on the right. This is also the base of the displayed utilization and capacity (see "2.4.9 Utilization and Capacity" on page 21).

The configured values will be displayed when hovering over the assignment grid with the associated preferences setting (see "9.12.8 Show Grid Hints for by Resource Views" on page 162).

2.4.3 Displaying Trend Arrows

Via the **Visualization** menu, you can toggle the display of trend arrows for deviations of the left cell value from the right one, see "8.3 Displaying Trend Arrows" on page 127.

2.4.4 Estimated Effort, Actuals and Total Effort

In the **Columns** tab of the **Preferences**, you can display or hide the **Estimated Effort**, **Actuals** and **Total Effort** (**Estimated + Actuals**) fields in the left hand side list (see "8.14.3 Columns" on page 141). See section "8.5 Estimated Effort, Actuals and Total Effort" on page 128 for details.

2.4.5 Editing Assignments and Monetary Values

In the right hand side grid, you can see and edit the **Estimated Effort** or a custom time scaled monetary value per period. See sections "8.6 Editing Assignments" on page 129 and "7.7 Editing Custom Time Scaled Monetary Values" on page 95 for details.

2.4.6 Editing List Fields

You can edit most fields displayed in the list.

See section "8.8 Editing List Fields" on page 130 for details.

2.4.7 Context Menu for Displayed Objects

Hover over a resource, role, team, investment or task and click on the three dots that are displayed to open the associated context menu.

- > **Open properties:** resources/roles/teams investments and task
- > **Add Assignment:** resources/roles/teams for project tasks
- > **Allocate From Estimates:** resource/role/team project task assignments
- > **Delete:** assignments without actuals
- > **Remove lock:** projects locked due to changes made in itd Advanced Resource Planning
- > **Expand all:** display full sub-structures of roles, resources and phases

See section "8.9 Context Menu for Displayed Objects" on page 132 for details.

2.4.8 Interactive Gantt Bars

In **Assignments by Resource** mode, you can toggle the display of interactive Gantt bars separately for investments, phases and assignments via the **Visualization** menu in the toolbar.

In this mode, you can only shift and resize assignments via drag and drop of their Gantt bars.

Critical paths for projects aren't available in this mode.

Via drag-and-drop of Gantt bars, you can shift and resize assignments.

See section "8.10 Interactive Gantt Bars" on page 133 for details.

2.4.9 Utilization and Capacity

With **Show Utilization** in the **General** tab of your **Preferences**, the utilization from assignments (with **Calculate sums** set to **Filtered** only from displayed assignments, else from all assignments) and the remaining capacity based on all assignments are displayed per period for each resource, role and team in color-coded numbers in the associated header row.

See section "8.11 Utilization and Capacity" on 134 page for details.

2.4.10 Hierarchy Mode

The hierarchy mode is available on hierarchies in the Modern UX.

This view lists investments in the hierarchy with their respective hierarchy levels.

See section "8.12 Hierarchy Mode" on page 135 for details.

3 Views

You can create any number of custom views based on one of the four basic system view modes described in the previous chapter, and share them with other users. Administrators may also save changes to system views and recommend views, setting them as default views for new users.

3.1 Saved Custom View Settings

A custom view stores all changes you make to the view, such as allocation or assignment filters, resource filters, the time period, most other settings in the toolbar and your **Preferences**.

3.2 Filters Saved with Previous Versions

From version 11.0.0 you can no longer save and load filter settings for the allocation, assignment and resource filters. These settings are now stored in custom views along with all other settings. When first starting itd Advanced Resource Planning 11.0.0 or a more recent version, if filters have been saved with an older version, they will be migrated to custom views.

You can find these in the **View** menu, under the heading of the system view they are based on, with the previous filter's name. The view will initially be shared with all users the filter was shared with.

For **Investment** views, saved allocations or assignment filters will be combined with the application's default resource filter and vice versa in the associated custom views that are created.

3.3 Views and Planning Modes

Individual sets of views are stored for each mode available for itd Advanced Resource Planning.

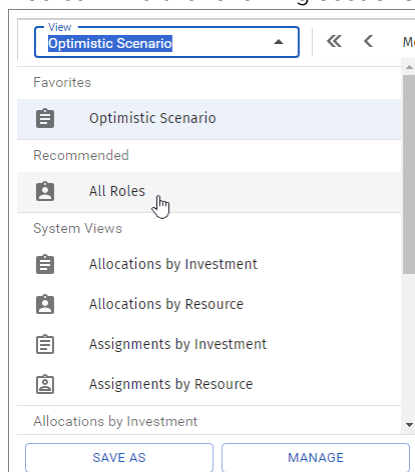
This depends on from where you open the application:

- > Global Multiple Investment Mode (global channel)
- > Single Investment Mode (investment channel)
- > Roadmap Scenario Mode (roadmap channel)
- > Hierarchy Mode (hierarchy channel)

See section "9.7 Planning Modes" on page 152 for details about configuring the individual modes.

3.4 Selecting a View

You can find the following sections in the **View** menu, in this order.



- > Your **Favorites** are always displayed on top of the list in alphabetical order.
- > Views **Recommended** by members of the **ARP Admin** group are listed next, or on top of the list if you have no favorites. The first recommended view is the default for new users. When you open itd Advanced Resource Planning again, it will load the last view you were using.
- > The default **System Views** are listed next, or on top of the list if you have no favorites and there are no recommended views. System views that you've selected as favorites or that have been recommended will appear in the respective list instead.
- > Any other custom views created by you or shared with you are listed next, under the heading of the system view they are based on.

The icons indicate the respective view mode, as listed under **System Views**.

3.5 Saving a View

If you have made any changes to a view that can be saved, the view's name in the **View** menu will appear in italics to indicate this, and a **Save View** button will appear next to the **View** menu.

If you don't save the changes you have made to an unsaved view, all view settings will still be retained until you select another view, even if you log out and log on again.

The **Save View** button will only be enabled if you have the rights to change the view:

- > Saving changes to a view is only allowed if you have created the view yourself.
- > System views may only be changed by members of the **ARP Admin** group.

If you don't have the right to change a view you want to save, open the **View** menu and click on the **Save As** button.

This will open the **Save View** dialog.

Save View

Name
Optimistic Scenario by Resource

Share

Private

Everyone

Specific Groups or Users

CANCEL SAVE

Name the new view here and select the sharing mode.

The **Specific Groups or Users** option lets you select groups and/or users to share the view with.

Save View

Name
Optimistic Scenario by Resource

Share

Private

Everyone

Specific Groups or Users

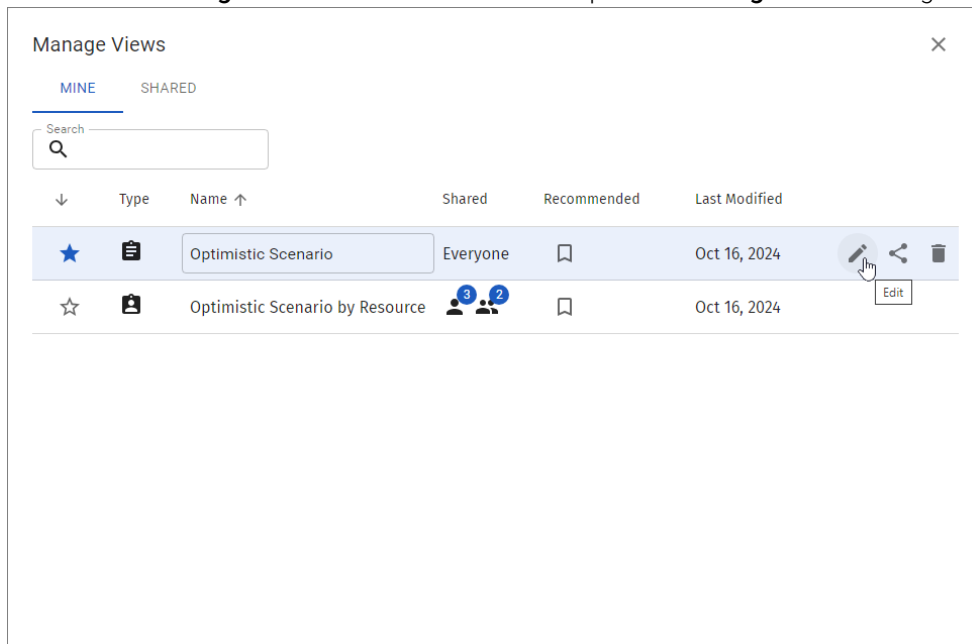
Users
Amos, Cheryl × Bauer, Joyce × Berks, Paul ×

Groups
PMO Resource Administrator × PMO Resource Manager ×

CANCEL SAVE

3.6 Managing Views

Click on the **Manage** button in the **View** menu to open the **Manage Views** dialog.



Views you have created are listed under **Mine**.

- > Click on the star icon to add a view to the favorites or to remove it from there.
- > Click in the **Name** column to rename the view.
- > The **Shared** column shows if and with whom you have shared the view, with icons and numbers representing specific groups and/or users. Hover over the icon to display a list.
- > Members of the **ARP Admin** group may **Recommend** views they have created as well as views shared with them and system views (see below), putting them on top of the **View** list. The topmost recommended view will be the default view for new users. After the first start, the last used view will be selected when opening itd Advanced Resource Planning.
- > Click on the pen icon to select the sharing mode and/or groups and users to share the view with.
- > Click on the share icon to copy a link to the view into the clipboard.
- > To delete the view, click on the wastebasket icon and then confirm by clicking on the checkmark.

Views shared with you and the four system views are listed under **Shared**.

- > Click on the star icon to add a view to the favorites or to remove it from there.
- > Members of the **ARP Admin** group may **Recommend** views they have created (see above) as well as views shared with them and system views, putting them on top of the **View** list. The topmost recommended view will be the default view for new users. After the first start, the last used view will be selected when opening itd Advanced Resource Planning.
- > For any views shared with them, members of the **ARP Admin** group can change the access settings via the pen icon or delete them via the wastebasket icon.
- > The four system views are always public and can't be deleted.

4 Filters

This chapter describes the filter settings for the main view of itd Advanced Resource Planning.

- > 4.1 Displayed Data (page 25)
- > 4.2 Access Rights and Query Limits (page 26)
- > 4.3 Filtering the Main View (page 26)
- > 4.4 Filtering the Resource, Role and Team List (page 27)
- > 4.5 Filter, Clear and Configure (page 27)
- > 4.6 Clarity PPM Lookups (page 28)
- > 4.7 Default Investment Filters (page 28)
- > 4.8 Default Filter Fields for the Main View (page 28)
- > 4.9 Default Filter Fields for the Utilization View (page 35)
- > 4.10 Utilization and Capacity Filters (page 37)

4.1 Displayed Data

Depending on your view mode, the following data will be loaded and displayed without a filter:

- > **Allocations by Investment**
 - Any investments to which you have access (custom types included), optionally with investment hierarchies (see "5.1.2 Displaying Investment Hierarchies" on page 40)
 - Resources, roles and teams with team entries for displayed investments
 - Associated team entries and allocations or hard allocations
 - In the utilization view, any resources, roles and teams to which you have access
- > **Allocations by Resource**
 - Any resources, roles and teams with team entries for investments to which you have access (custom types included), optionally any resources, roles and teams to which you have access instead, with no investment rights required (see page 164)
 - Investments with team entries of displayed resources, roles and teams
 - Associated team entries and allocations or hard allocations
 - Team allocations of resources (allocated percentage of resource capacity)
- > **Assignments by Investment**
 - Any investments to which you have access (custom types included).
 - Associated tasks and optionally phases, milestones and investment hierarchies (see "7.1.1 Displaying Phases, Milestones and Investment Hierarchies" on page 91)
 - Optionally assignments under tasks and assigned resources, roles and teams (see "7.1.2 Displaying Assignments" on page 91)
 - In the utilization view, any resources, roles and teams to which you have access
- > **Assignments by Resource**
 - Any resources, roles and teams with team entries for investments to which you have access (custom types included), optionally only resources, roles and teams to which you have access instead, still requiring access rights for associated investments (see page 166)
 - Assignments under resources, roles and teams, investments, tasks, optionally phases and parent investment hierarchies (see "8.1.5 Displaying Phases and Parent Investment Hierarchies" on page 126)
 - Team entries without assignments under associated investments

4.2 Access Rights and Query Limits

The amount of data that will actually be loaded is limited by your access rights and by the query limits entered for itd Advanced Resource Planning by an administrator via the governors lookup:

- > **Access Rights:** data records to which you have no access in Clarity PPM will not be displayed in the itd Advanced Resource Planning application either (see "9.5 User Access Rights" on page 148).
- > **Query Limits:** limits for the number of resources/roles/teams, investments and assignments to load at the same time, entered by an administrator via the governors lookup (see "9.14.1 Query Limits" on page 173). If data records aren't displayed due to query limits, this will be indicated.

4.3 Filtering the Main View

The filter area for the main view is always displayed at the top. You can display or hide the filter area by clicking the little arrow button in the upper left corner of the view.

Enter filter conditions and click on **Filter** to filter the view by investment, resource, role, team, team entry, task and assignment properties.

The screenshot shows the 'ALLOCATIONS' filter panel with the following fields:

- INVESTMENTS: [Search] [Clear]
- INVESTMENT MANAGER: [Search] [Clear]
- INVESTMENT OBS UNIT: [Search] [Clear]
- INVESTMENT TYPE: [Search] [Clear]
- ROLE/RESOURCE: [Search] [Clear]
- PRIMARY ROLE: [Search] [Clear]
- IS ROLE: All [Dropdown]
- TEAM HAS ALLOCATION: All [Dropdown]

Buttons: FILTER, CLEAR, CONFIGURE. Note: There are default filters applied but not visible.

The main view shows a table of allocations by investment:

Name	Start	Finish	Apr '24	May '24	Jun '24	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24
B2B Value Stream	01/01/2023	12/31/2025	100.0	100.0						
Digital Banking Application	11/02/2022	05/30/2028	240.0	240.0	200.0	240.0				
eBusiness Mobile Network	08/04/2023	12/27/2024	2,215.3	2,226.4	2,248.6	2,634.2	2,364.6	1,036.4	990.0	663.3

Below the table is a 'RESOURCES' section with a utilization chart for Amos, Cheryl (Engineer), Andersson, Peter (Engineer), and Arpel, Ian (Business Analyst) across the months of 2024.

Which filter fields are available in what order is defined per user and view in the **Preferences**.

You can open the selection of available filter fields directly by clicking the **Configure** button on the filter panel.

By default, the filter fields listed in section "4.8 Default Filter Fields for the Main View" on page 28 will be available for the main view.

Members of the **ARP Admin** group may add other fields available for investments, investment sub-types, resources/roles/teams, team entries, tasks and assignments to the selection of filter fields (see "9.11 Configuring List and Filter Fields" on page 156). Most Clarity PPM standard fields may be added, as well as most custom fields defined for these objects.

4.4 Filtering the Resource, Role and Team List

In the **by Investment** modes, the **Resources** view is displayed below the main view, listing available resources, roles and teams. Click on the little arrow button in the upper left corner of this view to display or hide the associated filter area.

Please note that filters entered for the main view have no effect on the **Resources** view. Likewise, filter conditions entered here have no effect on the main view.

Without filters, the list will display any resources, roles and teams to which you have access.

Enter filter conditions and click on **Filter** to filter the view.

The screenshot displays the 'ALLOCATIONS' view with a 'Resources' filter panel highlighted in red. The filter panel includes the following fields:

- RESOURCE OBS UNIT: [Search icon] [Clear icon]
- RESOURCE MANAGER: [Search icon] [Clear icon]
- PRIMARY ROLE: [Search icon] [Clear icon]
- ROLE/RESOURCE: [Search icon] [Clear icon]
- IS EXTERNAL: All [Dropdown arrow]
- IS ROLE: All [Dropdown arrow]

Buttons at the bottom of the filter panel are FILTER, CLEAR, and CONFIGURE. The main view shows a table with columns for Name, Start, Finish, and monthly utilization from Apr '24 to Nov '24. Resources listed include B2B Value Stream, Digital Banking Application, and eBusiness Mobile Network.

Which filter fields are available in what order is defined per user and view mode in the **Preferences**.

You can open the selection of available filter fields in the **Preferences** directly by clicking the **Configure** button on the filter panel.

By default, the filter fields listed in section "4.9 Default Filter Fields for the Utilization View" on page 35 will be available for the resource, role and team list.

Members of the **ARP Admin** group may add other fields available for resources, roles and teams to the selection of filter fields (see "9.11 Configuring List and Filter Fields" on page 156). Most Clarity PPM standard fields may be added, as well as most custom fields defined for these objects.

4.4.1 Quick Filter by Investment

Via the context menu for an investment, you can also apply a quick filter to the list, such that it only displays team members of that investment.

To do this, hover over the investment's tree view item in the upper view, click on the three dots next to the investment name to open the context menu and select its **Show Investment Team** item.

4.5 Filter, Clear and Configure

Use the buttons at the lower left of the filter panel to apply or reset filters and configure filter fields.

- > Click on **Filter** to apply and hide the filter settings.
- > Click on **Clear** to delete all filter conditions.
- > Click on **Configure** to change the selection of available filter fields.

Please note that you can no longer save filters separately, as they are now saved along with all other view settings. See chapter "3 Views" on page 22 for details.

4.6 Clarity PPM Lookups

Some filter fields are backed by a Clarity PPM lookup.



This icon is available for fields that support entering a Clarity PPM user.

Click on this to enter the "Current User" placeholder. It will be replaced by the currently logged-on Clarity PPM user when the filter is applied.



Click on the magnifier icon to access the lookup browse window for a field and select values.



Click on the trashcan icon to empty a field. If you only want to delete some items, click on the field first, select the items to remove and then click on the trashcan icon.

All lookup filters are multi-valued and will display a second empty list box when selected. This is where selected values go. Investments or resources/roles/teams matching any selected value will be displayed.

As with all lookups, a list of suggested values will be displayed when typing in the text box.

Select a suggestion by clicking on it or via the arrow keys and [RETURN].

4.7 Default Investment Filters

By default, the following kinds of investments will be filtered out in all view modes:

- > Project templates
- > Investments from the past
- > Inactive investments

This applies when the associated filter fields are not displayed and is indicated in the filter panel.

Hover over the "?" icon to display the active default filters that apply.

4.8 Default Filter Fields for the Main View

The following sections list and describe the filter fields available for the main view area by default.

Please note that not all filter fields are available in all view modes and some work differently depending on your view mode. See the following sections for details.

4.8.1 Default Filter Fields for Investments

The following investment filter fields are available by default.












How exactly these filter fields work depends on your view mode:





- > In the **Allocations by Investment** and **Assignments by Investment** modes, any investments selected via filters will be displayed on the top level.
- > In **Allocations by Resource** mode, any investments selected via filters that have team entries for displayed resources, roles and teams will be displayed under the resources, roles and teams they belong to.

- > In **Assignments by Resource** mode, any investments selected via filters that have assignments or team entries for displayed resources, roles and teams will be displayed under the resources, roles and teams they belong to.

Sub-Types: You can also filter investments by fields of investment sub-types. If you do, only investments of that sub-type which match the filter will be displayed.

Hierarchies: If applicable, investment hierarchies will also be displayed (see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).

- > **Investment – Investments:** select one or more investments to display.
This is a multi-valued lookup filter. If you make a selection here, only selected investments and associated investment hierarchies, if applicable, will be displayed.
 -  The lookup browse window lets you filter the selection of available investments by name, investment ID, investment type and status ("active?").
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Investment – Investment Name:** enter a search term which occurs in the investment name. Use the asterisk character "*" as a placeholder for an arbitrary number of characters. Search terms will be treated as if ending with "*". (e.g., "*CRM" will find investment names containing "CRM" , while "CRM", without the asterisk, will find only investment names starting with "CRM").
- > **Investment – Investment ID:** enter a search term which occurs in the investment id. Use the asterisk ("*") as a placeholder for an arbitrary number of characters. Search terms will be treated as if ending with "*".(e.g., "*007" will find any investment whose id contains "007", while "007", without the asterisk, will find only investments whose ids begin with "007").
- > **Investment – Investment Manager:** filter investments by manager. This is a multi-valued lookup filter. If you make a selection here, only investments of selected managers will be displayed.
 -  Click on this icon to enter the "Current User" placeholder. It will be replaced by the currently logged-on Clarity PPM user when the filter is applied.
 -  The lookup browse window lets you filter the selection of available investment managers by last name, first name, user name, resource ID, type and status.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Investment – Investment OBS Unit:** filter investments by OBS unit.
This is a multi-valued lookup filter. If you make a selection here, only investments belonging to a selected OBS unit or to a sub unit of a selected OBS unit will be displayed.
 -  The lookup browse window lets you select the desired OBS top level, sub levels and units.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Investment – Investment Type:** filter investments by type (Application, Asset, Idea, Other Work, Product, Project, Service or custom investment types).
This is a multi-valued lookup filter. If you make a selection here, only investments of selected types will be displayed.
 -  The lookup browse window lets you filter the selection of investment types.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Investment – Investment Status:** filter investments by status. This is a multi-valued lookup filter. If you make a selection here, only investments with selected status values will be displayed.
 -  The lookup browse window lets you filter the selection of investment status values.
 -  Click here to remove selected values or to clear the field, if no value is selected.

- > **Investment – Hierarchy:** filter investments by hierarchy.
This is a multi-valued lookup filter. If you make a selection here, only investments of selected hierarchies will be displayed.
 The lookup browse window lets you filter the hierarchy selection by name and ID.
 Click here to remove selected items or to clear the field, if no value is selected.
- > **Investment – Roadmap:** filter investments by roadmap.
This is a multi-valued lookup filter. If you make a selection here, only investments of selected hierarchies will be displayed.
 The lookup browse window lets you filter the roadmap selection by name and ID.
 Click here to remove selected items or to clear the field, if no value is selected.
- > **Investment – Hide Investments from the Past:** when this filter field is displayed, select this to hide investments ending before the start of the previous month.
When the filter field isn't displayed, investments from the past won't be displayed (as when the filtering option is displayed and selected). This will then be indicated by a note in the filter panel.
- > **Investment – Inactive Investments (allocation filter only):** in the **Allocations** modes, use this to determine whether investments deactivated via **Properties - Settings – General – Active** should be displayed. When this filter field isn't displayed, inactive investments won't be displayed (as when **Hide** is selected, which is also the default setting when this filter field is displayed).
In the **Assignments** modes, inactive investments will never be displayed.
Whenever this filter field isn't available or displayed, a note in the filter panel will indicate that inactive investments aren't displayed.
When the filter field is displayed, select one of the following options:
 - With the default setting **Hide**, inactive investments won't be displayed.
 - Select **Show** to display inactive investments.
 - Select **Show if relevant** to display inactive investments only if they have team entries that are partly or completely in the selected time period.
- > **Project – Project Templates:** determine whether to display project templates (for which **Properties - Settings – General – Template** has been selected).
When this filter field isn't displayed, project templates won't be displayed (as when **Hide Project Templates** is selected, which is also the default setting when this filter field is displayed).
This will be indicated by a note in the filter panel in this case.
When the filter field is displayed, select one of the following options:
 - With the default setting **Hide Project Templates**, project templates won't be displayed.
 - Select **Show All** to display any investments, including project templates.
 - Select **Show Only Project Templates** to display only project templates and no other investments.

4.8.2 Selecting Investment Hierarchies in by Investment Modes

In the **Allocations by Investment**, **Assignments by Investment** and **Assignments by Resource** modes, you may choose to **Show investment hierarchy** in the **General** tab of the **Preferences**.

This will always display parent hierarchies of any investments selected via filters.

In the **Allocations by Investment** and **Assignments by Investment** modes, **Show investment hierarchy** will also display sub-hierarchies of selected investments and their parent investments if you use no other investment filters but **Investments**, **Investment Name** and **Investment ID**.

In this case, all of the following investments will be loaded and displayed:

- > Investments explicitly selected via a filter
- > Any parent investments of explicitly selected investments
- > Any sub-investments of displayed investments

4.8.3 Default Filter Fields for Resources, roles and teams

How exactly resource, role and team filters work depends on your view mode:

- > In **Allocations by Investment** mode, any resources, roles and teams selected via filters that have team entries for displayed investments will be displayed under the investments they belong to. Investments without team entries of selected resources, roles and teams will not be displayed.
- > In **Assignments by Investment** mode, any resources, roles and teams selected via filters that have assignments for displayed investments will be displayed under the investments, phases and tasks they belong to. Investments without assignments of selected resources, roles and teams will not be displayed.
- > In the **Assignments by Resource** and **Allocations by Resource** modes, any resources, roles and teams selected via filters will be displayed.

By default, you can use the following fields to filter resources, roles and teams:

- > **Resource – Role/Resource:** only display selected resources, roles and teams.



The lookup browse window lets you filter the selection of available available resources, roles and teams by last name, first name and resource ID.



Click here to remove selected values or to clear the field, if no value is selected.

- > **Resource – Is Role:** display only roles or only resources and teams.

With the default setting **All**, this filter doesn't apply

Select **Yes** to only display roles.

Select **No** to only display resources and teams.

- > **Resource – Is Team:** display only teams or only resources and roles.

With the default setting **All**, this filter doesn't apply.

Select **Yes** to only display teams.

Select **No** to only display resources and roles.

- > **Resource – Resource Name:** filter by resource, role or team name. Use the asterisk ("*") to replace with any number of characters (e.g., "*son" will find "Harrison" and "Jackson"). Search terms will be treated as if ending with "*" (e.g. "Jack" will also find "Jackson").

- > **Resource – Resource Manager:** filter resources and teams by resource manager.

Roles have no resource manager and will therefore not be displayed with this filter.

With this filter, only resources and teams of selected resource managers will be displayed.












Click on this icon to enter the "Current User" placeholder. It will be replaced by the currently logged-on Clarity PPM user when the filter is applied.



The lookup browse window lets you filter the selection of available resource managers by last name, first name, full name, resource ID and employment type.



Click here to remove selected values or to clear the field, if no value is selected.

- > **Resource – Booking Manager:** filter roles and resources by booking manager.
Teams have no booking manager and will therefore not be displayed with this filter.
With this filter, only roles and resources of selected booking managers will be displayed.
 -  Click on this icon to enter the "Current User" placeholder. It will be replaced by the currently logged-on Clarity PPM user when the filter is applied.
 -  The lookup browse window lets you filter the selection of available booking managers by last name, first name and resource ID.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Resource OBS Unit:** filter roles, resources and teams by OBS unit.
With this filter, only investments with allocations or assignments of resources, roles and teams belonging to a selected OBS unit or to a sub unit of a selected OBS unit will be displayed.
 -  The lookup browse window lets you select the desired OBS top level, sub levels and units.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Resource Type:** filter resources, roles and teams by resource type (Equipment, Expense, Labor or Material).
With this filter, only investments with allocations or assignments of resources, roles and teams of the selected resource types will be displayed.
 -  The lookup browse window lets you select the desired resource types.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Primary Role:** filter roles and resources by role, primary role and/or parent role.
Teams have no primary role and will therefore not be displayed with this filter.
With this filter, only investments with allocations or assignments of the following resources and roles will be displayed:
 - **Resource Primary Role:** all resources having any of the selected roles as their primary roles.
 - **Role:** all selected roles.
 - **Role Parent Role:** all roles having any of the selected roles as their parent roles.
 -  The lookup browse window lets you filter the selection of available roles by role name.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Skills:** filter resources, roles and teams by skills.
By default, all resources, roles and teams with at least one selected skill will be displayed.
Alternatively, you can set the filter to require all skills to match via the **Skill Matching** field.
- > **Resource – Skill Matching:** here, you determine the mode for the skill filter, **Match at least one skill** or **Match all skills**. Without this filter field, the **Match at least one skill** mode will be used, such that resources, roles and teams with any selected skill will be displayed.
- > **Resource – Is External:** filter resources, roles and teams by the **External** property of resources (selected via **Properties – General – Resource Management – External**).
 - With the default setting **All**, any resources, roles and teams will be displayed.
 - Select **Yes** to display only external resources. With this setting, roles and teams won't be displayed.
 - Select **No** to display only roles, internal resources and teams.
- > **Resource – In Assignment (assignment filter only):** see following section.
- > **Resource – In Task (assignment filter only):** see following section.

4.8.4 Selecting Resources, roles and teams (Assignments by Investment)

In **Assignments by Investment** mode, resources, roles and teams that are selected via the **Role/Resource, Is Role** and **Is Team** filter fields and have assignments for displayed investments will be displayed under the investments, phases and tasks they belong to.

If you don't filter resources, roles and teams by other fields, other phases, tasks and milestones of displayed investments as well as other resources, roles and teams assigned to any displayed task or NPIO will also be displayed.

Investments without assignments of selected resources, roles and teams won't be displayed.

The **In Task** filter will display only tasks to which resources, roles and teams selected via the **Role/Resource, Is Role** and **Is Team** filters are assigned.

The **In Assignment** filter will display only assignments of resources, roles and teams selected via the **Role/Resource, Is Role** and **Is Team** filters.

4.8.5 Default Filter Fields for Team Entries

The following team entry filter fields are available by default.

- > **Team – Booking Status:** filter team entries by booking status. This is a multi-valued lookup filter. If you make a selection here, only team entries with a selected booking status will be displayed.



The lookup browse window lets you filter the selection by booking status name.



Click here to remove selected values or to clear the field, if no value is selected.

- > **Team – Request Status:** filter team entries by request status. This is a multi-valued lookup filter. If you make a selection here, only team entries with a selected request status will be displayed.



The lookup browse window lets you filter the selection by request status name.



Click here to remove selected values or to clear the field, if no value is selected.

- > **Team – Staff OBS Unit:** filter team entries by staff OBS unit. This is a multi-valued lookup filter. If you make a selection here, only team entries belonging to any selected OBS unit or to a sub unit of a selected OBS unit will be displayed.



The lookup browse window lets you select the desired OBS top level, sub levels and units.



Click here to remove selected values or to clear the field, if no value is selected.



- > **Team – Team Has Allocation (allocation filter only):** display only team entries with planned and/or hard allocation in the selected time period:
 - **All:** don't filter.
 - **Team Has Allocation:** only display team entries that have allocation.
 - **Team Has Hard Allocation:** only display team entries that have hard allocation.
 - **Team Has Both Allocation AND Hard Allocation:** only display team entries that have both allocation and hard allocation.
 - **Team Has Allocation OR Hard Allocation:** only display team entries that have either allocation or hard allocation.

This filter requires **Calculate Sums** to be set to **On** or **Filtered** or, in **Allocations by Resource** only, **Show Utilization** to be selected (see "Calculate Sums" on page 83).

In **Allocations by Resource** mode, an active utilization filter will be applied to this filter with **Calculate Sums** set to **On** or **Off**. Team entries with hidden utilization will then be treated as if they had no allocations (see "4.10 Utilization and Capacity Filters" on page 37).





4.8.6 Default Filter Fields for Tasks (Assignment Filter Only)

The following task filter fields are available by default.

- > **Task – Task Name:** enter all or part of a task name to filter tasks. The asterisk character "*" may be used as a placeholder.
- > **Task – Task Status:** filter tasks by status. This is a multi-valued lookup filter. If you make a selection here, only tasks with a selected task status will be displayed.
 -  The lookup browse window lets you filter the selection by task status name.
 -  Click here to remove selected values or to clear the field, if no value is selected.











4.8.7 Default Filter Fields for Assignments (Assignment Filter Only)


The following assignment filter fields are available by default.


- > **Assignment – Assignment Role:** filter assignments by assignment role.
This is a multi-valued lookup filter. If you make a selection here, only assignments with a selected assignment role will be displayed.
 -  The lookup browse window lets you filter the selection by assignment role name.
 -  Click here to remove selected values or to clear the field, if no value is selected.
Please note that a resource may be assigned to a task in another than its primary role.
- > **Assignment – Assignment Status:** filter assignments by status.
This is a multi-valued lookup filter. If you make a selection here, only assignments with a selected assignment status will be displayed.
 -  The lookup browse window lets you filter the selection by assignment status name.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Assignment – Assignment Has ETC:** display only assignments that have remaining ETC (remaining hours of work to be done) in the selected time period.
- > **Assignment – Assignment Has Actuals:** display only assignments for which actuals have been entered in the selected time period.

4.9 Default Filter Fields for the Utilization View

For the resource, role and team list displayed in the **by Investment** modes, the same default filter fields are available as for filtering resources, roles and teams in the main view.

- > **Resource – Role/Resource:** select one or more roles, resources and/or teams to display.
With this filter, only selected resources, roles and teams will be displayed.
 -  The lookup browse window lets you filter the selection of available available resources, roles and teams by last name, first name and resource ID.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Is Role:** display only roles or only resources and teams.
With the default setting **All**, this filter doesn't apply.
Select **Yes** to display only roles. Select **No** to display only resources and teams.
- > **Resource – Is Team:** display only teams or only resources and roles.
With the default setting **All**, this filter doesn't apply.
Select **Yes** to display only teams. Select **No** to display only resources and roles.
- > **Resource – Resource Name:** enter a search term occurring in the resource, role or team name.
Use the asterisk ("*") to replace with any number of characters (e.g., "*son" will find "Harrison" and "Jackson"). Search terms will be treated as if ending with "*" (e.g. "Jack" will also find "Jackson").
- > **Resource – Resource Manager:** filter resources and teams by resource manager. With this filter, only resources and teams of selected resource managers will be displayed. Roles have no resource manager and will therefore not be displayed with this filter.
 -  Click on this icon to enter the "Current User" placeholder. It will be replaced by the currently logged-on Clarity PPM user when the filter is applied.
 -  The lookup browse window lets you filter the selection of available resource managers by last name, first name, full name, resource ID and employment type.
 -  Click on the trashcan icon to remove selected values or to clear the field, if no value is selected.
- > **Resource – Booking Manager:** filter roles and resources by booking manager. With this filter, only resources and roles of selected booking managers will be displayed. Teams have no booking manager and will therefore not be displayed with this filter.
 -  Click on this icon to enter the "Current User" placeholder. It will be replaced by the currently logged-on Clarity PPM user when the filter is applied.
 -  The lookup browse window lets you filter the selection of available booking managers by last name, first name and resource ID.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Resource OBS Unit:** filter resources, roles and teams by OBS unit.
With this filter, only resources, roles and teams belonging to any selected OBS unit or to a sub unit of a selected OBS unit will be displayed.
 -  The lookup browse window lets you select the desired OBS top level, sub levels and units.
 -  Click here to remove selected values or to clear the field, if no value is selected.
- > **Resource – Resource Type:** filter resources, roles and teams by resource type (Equipment, Expense, Labor or Material).
With this filter, only resources , roles and teams of the selected resource types will be displayed.

 The lookup browse window lets you select the desired resource types.


 Click here to remove selected values or to clear the field, if no value is selected.

- > **Resource – Primary Role:** filter roles and resources by role, primary role and/or parent role. Teams have no primary role and will therefore not be displayed with this filter.


With this filter, the following resources and roles will be displayed:


- **Resource Primary Role:** all resources having any of the selected roles as their primary roles.
- **Role:** all selected roles.
- **Role Parent Role:** all roles having any of the selected roles as their parent roles.

 The lookup browse window lets you filter the selection of available roles by role name.

 Click here to remove selected values or to clear the field, if no value is selected.

- > **Resource – Skills:** filter resources, roles and teams by skills. By default, all resources, roles and teams with at least one selected skill will be displayed. Alternatively, you can set the filter to require all skills to match via the **Skill Matching** field.
- > **Resource – Skill Matching:** here, you determine the mode for the skill filter, **Match at least one skill** or **Match all skills**. Without this filter field, the **Match at least one skill** mode will be used, such that resources, roles and teams with any selected skill will be displayed.
- > **Resource – Is External:** filter resources, roles and teams by the **External** resource property (selected via **Properties – General – Resource Management – External**). With the default setting **All**, any resources, roles and teams will be displayed. Select **Yes** to display only external resources. With this setting, roles and teams won't be displayed. Select **No** to display only roles, internal resources and teams.
- > **Resource – Investment Team:** filter resources, roles and teams by team entries for investments. Only resources, roles and teams with a team entry for a selected investment will be displayed.

 The lookup browse window lets you filter the selection of available investments by name, investment ID, investment type and status ("active?").

 Click here to remove selected values or to clear the field, if no value is selected.

- > **Resource – Only Hierarchy Team (Allocations by Investment in Hierarchy Mode only):** filter resources, roles and teams by team entries for investments. Only resources, roles and teams with team entries for investments in the hierarchy will be displayed.
- > **Resource – Only with Capacity (Allocations by Investment only):** When a capacity filter is active in **Allocations by Investment** mode, you can hide resources, roles and teams for which no availability is displayed with the **Only with Capacity** filter (see "Capacity Filter" on page 87).
- > **Team – Show Team Only (single investment mode only):** display only resources, roles and teams with team entries in the current investment.

4.10 Utilization and Capacity Filters

In both **Allocations** modes, you can filter the utilization and capacity displayed for resources, roles and teams.

4.10.1 Utilization Filter Settings

Via the left button above the resource filter, you can switch between the utilization filter (**Show Utilization Filter**) and the regular resource filter (**Show Data Filter**).

- > In **Allocations by Investment** mode, you can find these settings in the filter panel for the utilization view at the bottom.

- > In **Allocations by Resource** mode, the settings are located above the filter panel for the main view at the top.

Name	Start	Finish	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24
ABM Marketing	11/11/2021	08/22/2023	0.0 / -13.8	0.0 / -14.2	0.0 / 147.2	0.0 / 134.4	0.0 / 140.8
AI Team ABM Marketing	11/11/2021	09/05/2024	979.8 / -154.6	1,086.6 / -148.6	1,002.0 / 0.0	938.0 / 0.0	973.4 / 0.0
Amos, Cheryl Engineer	06/10/2023	12/31/2024	155.2 / 20.8	33.6 / 134.4	36.8 / 147.2	33.6 / 134.4	35.2 / 140.8
Andersson, Peter Engineer	02/29/2024	05/04/2024	76.0 / 100.0	33.6 / 134.4	36.8 / 147.2	33.6 / 134.4	35.2 / 140.8
Architect	03/14/2023	02/28/2025	988.3 / -807.8	756.8 / -165.7	846.4 / 57.4	366.4 / 465.3	300.8 / 653.8
Arpel, Ian Business Analyst	04/10/2024	08/26/2024	252.8 / -76.8	33.6 / 134.4	36.8 / 147.2	0.0 / 168.0	0.0 / 176.0

By default, you can filter the displayed utilization by the following fields.

- > The **Staff OBS** filter displays utilization only for team entries with a selected **Staff OBS**.
- > The **Investment Status** filter displays utilization only for team entries belonging to investments with a selected **Investment Status**.

Members of the **ARP Admin** group may add other **Lookup** and **Boolean** fields available for investments and team entries.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

See section "9.11 Configuring List and Filter Fields" on page 156 for details.

4.10.2 Capacity Filter Settings

Click on the **Utilization Settings** button above the resource list to open the **Utilization** tab of the **Preferences**.

Here you can enter an capacity filter by **Staff OBS**. This setting is independent from the utilization filter by the same field. With this filter, capacity will only be displayed for resources and teams with a selected **Department OBS**. This also affects associated roles.

PREFERENCES
×

GENERAL
TIMESLICES
COLUMNS
FILTER
UTILIZATION
LAYOUT

UTILIZATION RATE

LOW UTILIZATION AT AND BELOW:

UTILIZATION WARNING ABOVE:

HIGH UTILIZATION ABOVE:

CAPACITY FILTER

STAFF OBS UNIT: 🔍 🗑️

OK
CANCEL

4.10.3 Effects of the Utilization and Capacity Filters

The utilization and capacity displayed for roles include only team entries and resources matching the selected utilization and capacity filters.

The remaining capacity displayed for resources, roles and teams is also based on the filtered utilization as displayed according to the selected utilization filter.

The utilization and capacity filters only affect the utilization, capacity and remaining capacity displayed for resources, roles and teams. Resources, roles and teams not matching the utilization filter as well as associated team entries and allocations will still be displayed.

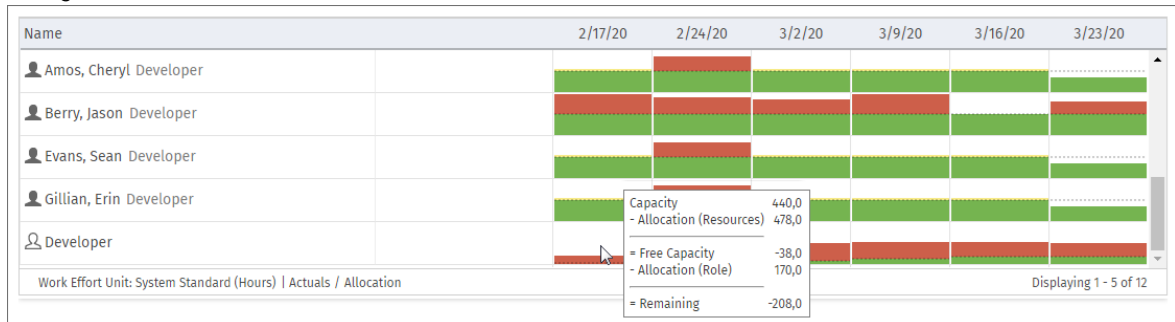
4.10.4 Hiding Roles, Resources and Teams

In **Allocations by Investment** mode, with an active capacity filter, you can hide resources, roles and teams for which no capacity is displayed using the **Only with Capacity** resource filter field (see "Only with Capacity" on page 36).

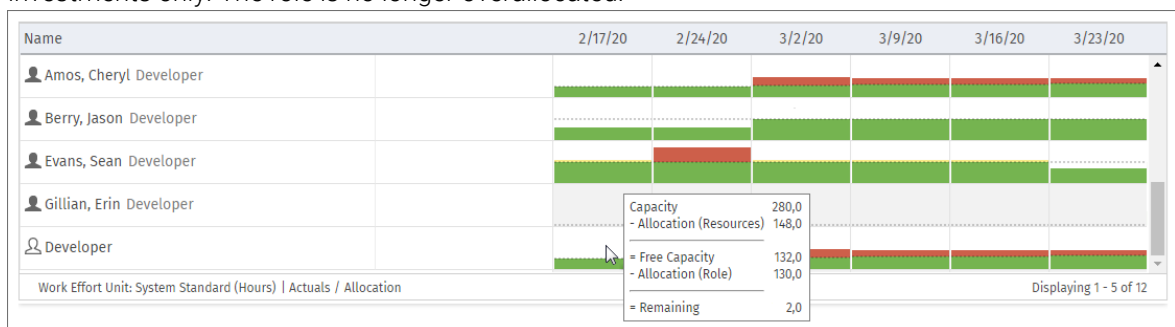
In **Allocations by Resource** mode, the utilization filter will be applied to the **Team Has Allocation** filter for team entries with **Calculate Sums** set to **On** or **Off**. This way, you can hide resources, roles and teams for which no utilization is displayed (see "Team – Team Has Allocation" on page 33).

4.10.5 Utilization and Capacity Filter Example

The global view shows 170 hours of allocation and an overallocation of 208 hours:



The filtered view shows the allocation and capacity for the selected department and for approved investments only. The role is no longer overallocated:



Note that no more capacity or utilization are displayed for **Gillian, Erin** because she doesn't belong to the selected department.

In **Allocations by Investment** mode, with an active capacity filter, you can hide resources, roles and teams for which no capacity is displayed using the **Only with Capacity** resource filter field (see "Only with Capacity" on page 36).

5 Allocations by Investment

The **Allocations by Investment** mode groups team entries of allocated resources, roles and teams and their allocations by associated investments. The utilization and capacity of resources, roles and teams are displayed in a separate view in color-coded numbers or as graphical histograms.

The screenshot displays the 'Allocations by Investment' interface. It is divided into two main sections: 'ALLOCATIONS' and 'RESOURCES'.

ALLOCATIONS Section:

Name	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Cloud Transformation Program	1,560.0	1,544.0	1,576.0	1,544.0	744.0	536.0	552.0	320.0
Chen, Chih-wei Engineer	144.0	144.0	144.0	144.0	144.0			
Engineer	800.0	800.0	800.0	800.0				
Evans, Nick UX	176.0	168.0	184.0	168.0	168.0	176.0	184.0	160.0
Feinle, Kurt Product Manager	176.0	168.0	184.0	168.0	168.0	176.0	184.0	160.0
Grant, Lily Project Manager	80.0	80.0	80.0	80.0	80.0			
Murphy, Mary Engineer	24.0	24.0	24.0	24.0	24.0	24.0	24.0	
Rossi, Carla Engineer	160.0	160.0	160.0	160.0	160.0	160.0	160.0	
International Trade Show	1,690.3	1,544.9	1,277.4					

RESOURCES Section:

Name	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Amos, Cheryl Engineer	Green bar	Red bar	Green bar					
Andersson, Peter Engineer	Green bar	Red bar	Green bar					
Arpel, Ian Business Analyst	Green bar	Red bar	Green bar					

Work Effort Unit: System Standard (Hours) | Actuals / Allocation

5.1 Displayed Data

In **Allocations by Investment** mode, the following data will be displayed:

- > Investments (custom investment types included)
- > Resources, roles and teams with team entries for displayed investments
- > Associated team entries and allocations or hard allocations
- > List of all resources, roles and teams, optionally with utilization and capacity (see "5.10 Capacity and Utilization" on page 48).
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25).

5.1.1 Team Entry Data

In this mode, displayed resources, roles and teams represent team entries.

5.1.2 Displaying Investment Hierarchies

Displaying investment hierarchies is optional and can be toggled in the **General** tab of the **Preferences** (see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).

5.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select up to two values that will be displayed per period for team entries (see "Cell Configuration" on page 67).

- > **Optional read-only value (small blue number at the left edge of the cell):** Allocation, Hard Allocation, ETC, Actuals, Actuals + ETC, Requested or Capacity
- > **Editable value (larger number at the right edge of the cell):** Allocation or Hard Allocation; base of displayed utilization (see "5.10 Capacity and Utilization" on page 48)

The configured values will be displayed when hovering over the allocation grid with the associated preferences setting (see "9.12.7 Show Grid Hints for by Investment Views" on page 162).

5.3 Displaying Trend Arrows

Via the **Visualization** menu, you can display trend arrows comparing the left and right cell values, see "Visualization > Cell" on page 58.

View		Allocations by Resource											
		Months 12 SHOW											
Name	Start	Finish	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24	Jan '25	Feb '25	Mar '25		
Amos, Cheryl Developer	03/01/2024	10/29/2024	184.0 / 64.0	176.0 / 16.0	168.0 / 168.0	184.0 / 152.0	168.0 / 168.0	176.0 / 176.0	184.0 / 184.0	160.0 / 160.0	168.0 / 168.0		
CRM Contact Center Devi	03/01/2024	07/26/2024	184.0	120.0	176.0	168.0	184.0	168.0	176.0	184.0	160.0	168.0	176.0
PCI Controls Remediation	07/01/2024	10/29/2024	184.0	160.0	168.0	184.0	32.0	168.0	176.0	184.0	160.0	168.0	176.0
Architect	11/01/2023	01/31/2026	1,472.0 / -10,753.3	1,408.0 / -6,559.8	1,344.0 / -1,273.1	1,472.0 / -5,732.2	1,344.0 / -3,942.3	1,408.0 / -1,222.7	1,472.0 / -1,051.6	1,280.0 / -523.7	1,344.0 / -264.4		
BEA Weblogic 10.0 Applic	02/01/2024	01/31/2026	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,472.0	184.0	1,408.0	176.0	1,472.0
BYOD Management	09/01/2024	03/04/2025	1,472.0	1,408.0	1,344.0	168.0	1,472.0	184.0	1,344.0	168.0	1,408.0	176.0	1,472.0
Change Mgt for Internal	08/04/2024	11/21/2024	1,472.0	1,408.0	1,344.0	40.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0	1,408.0
Credit Card Processing E	07/01/2024	07/28/2024	1,472.0	160.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0	1,408.0
Credit Card Security Imp	07/01/2024	08/31/2024	1,472.0	2,555.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0
Data Warehouse Perform	06/01/2024	10/13/2024	1,472.0	80.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0	1,408.0
Email SAN Storage Imple	07/01/2024	10/23/2024	1,472.0	144.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0
Financial Process Audit	07/01/2024	08/31/2024	1,472.0	144.0	1,408.0	2,816.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0
Headquarters	07/01/2024	07/31/2024	1,472.0	2,000.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0	1,408.0
HR Claims Processing En	07/01/2024	08/31/2024	1,472.0	2,000.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,280.0	1,344.0
HR Online Benefits Secu	07/01/2024	11/30/2024	1,472.0	2,596.0	1,408.0	80.0	1,344.0	1,472.0	48.0	1,344.0	2,589.0	1,408.0	1,344.0

For instance, this can help you to easily compare actuals with the originally planned values.

Wherever both values are present and different, a little arrow at the left cell edge visualizes a negative or positive deviation of the left cell value from the right cell value.

In the **Layout** tab of the **Preferences**, you can set a threshold percentage for the minimal deviation to visualize via arrows, see "Tolerance of Deviation" on page 67.

5.4 Allocation, Hard Allocation and Actuals

In the **Columns** tab of the **Preferences**, you can display or hide the **Allocation**, **Hard Allocation** and **Actuals** fields in the left hand side list (see "5.15.3 Columns" on page 61).

The fields display the respective values for each team entry.


With **Calculate Sums** enabled in the **General** tab of the **Preferences**, aggregated sums will also be calculated and displayed per investment.


Depending on the **Calculate Sums** setting, global sums (**On**) or **Filtered** sums will be displayed, according to your allocation filter (see "Calculate Sums" on page 59).


5.5 Editing Allocations

In the right half of the allocations view, you can see and edit team entries for resources, roles and teams, grouped by the associated investments or by the allocated resources, roles and teams.

Without selection of the **Show Gantt Bars for Team Members** option in the **Visualization** menu in the toolbar, you can enter the desired allocation values in the right hand side grid. Extending a team entry by entering values in grid cells outside the duration of the associated investment will also extend the investment such that the duration of the investment includes the team entry.

 Changes made in the allocation grid will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.


 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.


5.6 Editing List Fields

In the left hand side hierarchic list, you can edit the **Name**, **Investment Status**, **Start** and **Finish** fields of investments. You can also edit the **Start**, **Finish** and **Staff OBS Unit** fields of team entries here.

Most additional fields may also be made editable by members of the **ARP Admin** group (see "5.6.6 Editing Additional Fields" on page 43).

 Changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

5.6.1 Renaming Investments

To rename an investment, click in the associated **Name** field and press [F2] or [Return]. Enter the desired name. Press [Return] to confirm or [Esc] to cancel. Alternatively, you can rename investments via the context menu.

5.6.2 Editing the Investment Status

You can edit the **Investment Status** of investments. Click in the field to select a value.

5.6.3 Editing the Start and Finish of Investments

You can change the duration of investments via the the **Start** and **Finish** list fields.

If applicable, this will also change the duration of all associated team entries proportionally (e.g., changing the total duration from 8 to 6 weeks will reduce a team entry spanning 4 weeks to 3 weeks). For each team entry that is changed in the process, associated planned and hard allocations will also be redistributed over the new duration with the same proportions as before the change. Therefore, shortening a team entry will raise the allocation per period while extending will lower it.

5.6.4 Editing the Start and Finish of Team Entries

You can change the duration of team entries via the **Start** and **Finish** list fields.

This will redistribute associated planned and hard allocations over the new duration with the same proportions as before the change. Therefore, shortening a team entry will raise the allocation per period while extending will lower it.

Extending a team entry beyond the associated investment's **Start** or **Finish** will also extend the investment, such that it includes that team entry.

Reducing the durations of team entries won't reduce the investment's duration.

Team entries without a **Start** or **Finish** will adopt these values from the associated investment.

5.6.5 Editing the Staff OBS Unit of Team Entries

You can edit the **Staff OBS Unit** field of team entries in the list. To do this, click in the field.

Click on the magnifier icon to select an OBS unit or the trashcan icon to clear the field.

5.6.6 Editing Additional Fields

You can also edit any additional list fields that have been made editable by members of the **ARP Admin** group (see "9.11 Configuring List and Filter Fields" on page 156).

5.6.7 Copying List Fields

You can copy editable field values up or down via drag-and-drop. This feature supports lookup fields and respects restrictions on column values.

Copying field values this way requires the start and target row to be of the same type, i.e., investment or team entry.

For investments, the investment type must also be the same, e.g., project or idea. All custom investment types are considered to be the same type for this feature.

5.7 Context Menu for Displayed Objects

Hover over an investment or team entry to open the associated context menu.

The following sections describe the default options available here.

Members of the **ARP Admin** group can hide default options and add additional custom options (see "9.10 Defining Actions" on page 154).

5.7.1 Open Properties

The **Open properties** option is available in the context menu for investments and team entries. Here you open the associated Clarity PPM detail view.

- > Investment properties open in a new browser tab.
- > Team entry properties open on top of itd Advanced Resource Planning.

5.7.2 Create Requisition

The **Create Requisition** option is available in the context menu for team entries. Here you create a new requisition for the allocation of a team entry.

This action will be directly applied without further confirmation.

5.7.3 Allocate From Estimates

The **Allocate From Estimates** option is available in the context menu for team entries.

In **Allocations by Investment** mode, it is also available in the context menu for investments.

For the selected team entry, or for all team entries of the selected investment, the estimated effort of associated assignments will be entered as allocation.

This action will be directly applied without further confirmation.

5.7.4 Commit Allocation

The **Commit Allocation** option is available in the context menu for team entries.

In **Allocations by Investment** mode, it is also available in the context menu for investments.

For the selected team entry, or for all team entries of the selected investment, the allocation will be entered as hard allocation.

This action will be directly applied without further confirmation.

5.7.5 Accept Hard Allocation

The **Accept Hard Allocation** option is available in the context menu for team entries.

In **Allocations by Investment** mode, it is also available in the context menu for investments.

For the selected team entry, or for all team entries of the selected investment, the hard allocation will be entered as allocation.

This action will be directly applied without further confirmation.

5.7.6 Delete

The **Delete** option is available in the context menu for team entries without actuals. Once you select the **Delete** option, the selected team entry will instantly be deleted without further confirmation.

5.7.7 Unstaff to Effective Role

The **Unstaff to Effective Role** option is available for team entries of resources and teams without actuals. The team entry will be reset to its effective role. If that role already as a team entry in the investment, a new team entry will be created for a copy of the role.

5.7.8 Remove Lock

The **Remove lock** option is available in the context menu of projects locked due to changes made by users in itd Advanced Resource Planning.

Every user may unlock projects via the context menu that were locked due to their own changes made in itd Advanced Resource Planning.

Members of the **ARP Admin** group may unlock any projects via the context menu that were locked due to changes made by any user in itd Advanced Resource Planning.

Projects locked due to changes made outside of itd Advanced Resource Planning can only be unlocked via the associated button in the project's properties.

5.7.9 Expand All

The **Expand all** option is available in the context menu for investments.

Select this to expand all associated team entries.

5.7.10 Rename

The **Rename** option is available in the context menu for investments. Press [Return] to confirm or [Esc] to cancel. The change will only be applied when saving via the toolbar. Refresh without saving to undo.

5.7.11 Show candidates (by Role, OBS and Skills)

The **Show candidates (by Role, OBS and Skills)** option is available for role team entries.

This will apply the following filters to the **Resources** list, adding missing filter fields automatically:

- > **Primary Role** will be selected role.
- > **Resource OBS Unit** will be the **Staff OBS Unit** of the associated team entry, if selected.
- > **Skills** will be the skills selected for the associated team entry, if any.
- > **Skill Matching** will require to match all skills (alternatively, you can require to match at least one).

5.7.12 Show Investment Team

The **Show Investment Team** option is available for investments in **Allocations by Investment** mode.

This filters the resource list by the selected investment, such that only that investment's team members are displayed.

5.8 Conversations

The standard MUX conversations for team entries are available in itd Advanced Resources Planning in the **Allocations by Investment** and **Allocations by Resource** views.

Clicking on a team entry in either of the **Allocations by Investment** or **Allocations by Resource** views adds a small **Details** button at the top right side of the view.

Name	Team - Coord...	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22
Cloud Computing Enhancements		2	2	2	2	2	2	2	1
Customer Migration To Cloud		352	303	161	179	163	171	171	163
AI Team	New	41	100						
Amos, Cheryl Engineer	New	18							
Andersson, Peter Engineer	New	26	20	19	22	20	21	21	20
Architect Engineer	New	18	16	15	18	16	17	17	16
Arpel, itdesign Business Analyst	New	22	16	15	18	16	17	17	16
Berry, Jason Engineer	New		5	5	6	5	6	6	5
Bhatt, Rakesh Engineer	New	33	16	15	18	16	17	17	16

This button opens a conversation panel for this team entry only.

Name	Team - Coord...	Dec '21	Jan '22	Feb '22
Cloud Computing Enhancements		2	2	2
Customer Migration To Cloud		352	303	161
AI Team	New	41	100	
Amos, Cheryl Engineer	New	18		
Andersson, Peter Engineer	New	26	20	19
Architect Engineer	New	18	16	15
Arpel, itdesign Business Analyst	New	22	16	15
Berry, Jason Engineer	New		5	5
Bhatt, Rakesh Engineer	New	33	16	15

Architect
Customer Migration To Cloud (PR2009)

itd | CANCEL SAVE

itd Arpel, itdesign 12/08/21, 02:41 PM
Dana Lewis More architects required!

itd Arpel, itdesign 12/08/21, 02:40 PM
Architect required.

5.9 Interactive Gantt Bars

In **Allocations by Investment** mode, you can toggle the display of Interactive Gantt bars separately for investments and team entries via the **Visualization** menu in the toolbar.

5.9.1 Gantt Bars for Investments

Gantt bars for investments will be displayed when selecting **Show Gantt Bars for Investments** in the **Visualization** menu in the toolbar.

When Gantt bars for investments are displayed, you can shift or resize them via drag-and-drop.

Changes made to investments will also be applied to all associated team entries, even if they aren't displayed. Shifting an investment will shift all associated team entries accordingly. Resizing an investment will resize all associated team entries proportionally (e.g., reducing an investment's duration from 8 to 6 weeks will reduce an associated team entry from 4 weeks to 3 weeks).

This will also redistribute the allocation values displayed per period for associated team entries, planned or hard, over the capacity of the respective resource, role or team during the new duration with the same proportions as before the change.

5.9.2 Gantt Bars for Team Entries

Gantt bars for team entries will be displayed when selecting **Show Gantt Bars for Team Members** in the **Visualization** menu in the toolbar.

While Gantt bars are displayed for team entries, you can't edit the planned or hard allocation values displayed per period directly.

You can shift and resize team entries via drag and drop of their Gantt bars.

This will redistribute the allocation values displayed per period for the respective team entry, planned or hard, over the capacity of the respective resource, role or team during the new duration with the same proportions as before the change.


Shifting or extending a team entry beyond the associated investment's **Start** or **Finish** will also extend the investment, such that it includes the team entry.

Reducing the durations of team entries won't reduce the investment's duration.


Team entries without a **Start** or **Finish** will adopt these values from the associated investment.

5.9.3 Saving or Reverting Changes

Changes made to Gantt bars won't be saved directly

 Your changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

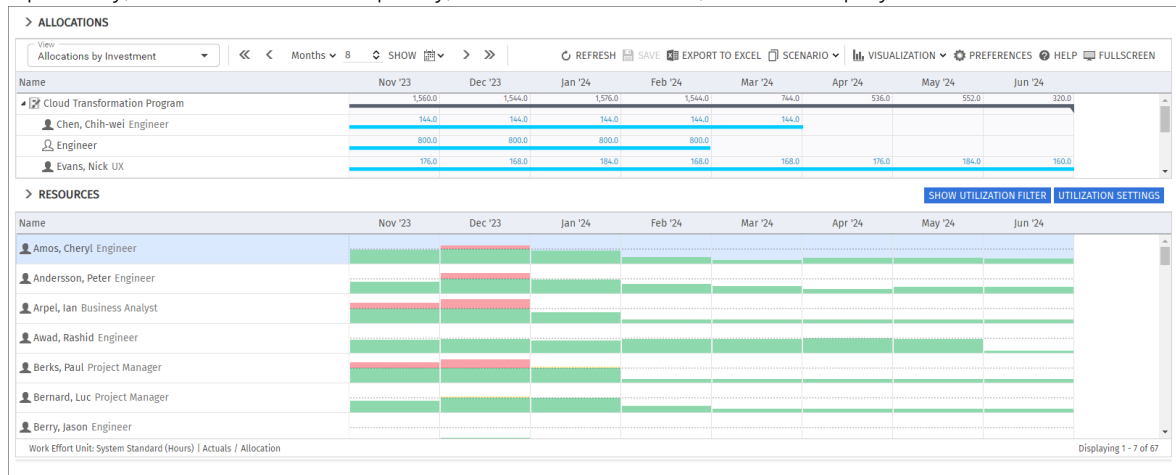
5.10 Capacity and Utilization

In **Allocations by Investment** mode, the lower view section displays all resources, roles and teams for which you have access rights by default. Roles are displayed at the bottom of the list.

You can select resource fields to display in the **Utilization – Columns** tab of your **Preferences** (see "5.15.4 Utilization – Columns" on page 62).

You can filter this view (see "5.10.6 Filtering the View" on page 49).

Optionally, the utilization and capacity, based on allocations, are also displayed.



5.10.1 Visualization: Color-Coded Grid or Histogram

There are two display modes available for the utilization. In both modes, the displayed utilization is based on the editable value from allocations, **Allocation** or **Hard Allocation**.

- > With **Show Utilization** selected in the **General** tab of the **Preferences**, the total utilization and remaining capacity of the displayed resources, roles and teams will be displayed per period in a grid of numbers that are color coded to display low or high utilization. Cell colors indicate low (white), optimal (green), high (yellow) or very high (red) utilization of a resource, role or team in a period (see "5.15.7 Utilization" on page 65).
- > Alternatively, via **Show Histogram** in the **Visualization** menu in the toolbar (regardless of **Show Utilization**), you can display the utilization and capacity as a histogram chart. The chart displays the utilization as a colored stack which is matched against a dotted capacity line. As in the grid view, signal colors indicate optimal utilization or overload. However, only the utilization warning and high utilization thresholds take effect in the histogram:
 - The dotted horizontal line displays the resource, role or team capacity.
 - Workload below the utilization warning threshold is colored green.
 - Further workload between the utilization and high utilization thresholds is colored yellow.
 - Further workload above the high utilization threshold is colored red.
 - The low utilization threshold has no effect here (see "5.15.7 Utilization" on page 65).

5.10.2 Resource Fields

When using the grid, you can configure the left and right hand side values in the **Utilization** tab of your **Preferences** (see "5.15.7 Utilization" on page 65).

Available values: **[Total] Capacity, Remaining [Capacity], Allocation** and **Hard Allocation**.

The remaining capacity is based on the total capacity minus the editable value, **Allocation** or **Hard Allocation**.

5.10.3 Utilization, Remaining Capacity and Role Capacities

In this mode, both the utilization and remaining capacity are based on the editable value (**Allocation** or **Hard Allocation**, see "5.2 Displayed and Editable Values per Period" on page 40), and are not affected by the allocation filter.

For the displayed utilization and capacity, separate utilization and capacity filters are available (see "4.10 Utilization and Capacity Filters" on page 37 for details and an example).

Role capacities may include sub-role capacities (see "Role Capacity Calculation" on page 65) and may be total or remaining (see "9.12.18 Show Total Role Capacity in Utilization Panel" on page 167, grid view only, doesn't apply to histogram).

5.10.4 Team Utilization

For a resource allocated to a team, that allocation is included as a percentage of the resource's capacity as entered in the team (e.g., if a resource is allocated to a team with 50%, in a week where that resource has an capacity of 40 hours, an allocation of 20 hours will be included for the team).

5.10.5 Displaying Utilization and Capacity Details

Hover over a grid cell or histogram segment to display the associated values. Click on a grid cell or histogram segment to display the associated investments. Click on a column header to filter the list. Select the columns to display in your preferences, see "5.15.4 Utilization – Columns" on page 62.

5.10.6 Filtering the View

Without a filter, any resources, roles and teams for which you have access rights will be displayed. Roles are listed at the bottom of the list.


- > Section "4.4 Filtering the Resource, Role and Team List" on page 27 describes how you filter the resource list to show only specific resources, roles and teams.
- > Use the **Show Investment Team** quick filter in an investment's context menu to only display associated team members.
- > Use the utilization and capacity filters to filter the utilization and capacity displayed for resources, roles and teams. This also affects utilization level colors and histograms. See "4.10 Utilization and Capacity Filters" on page 37 for details and an example.


5.10.7 Selecting a Resource, Role or Team


When you select a team entry in the left hand side hierarchic list in the upper view section, the associated resource, role or team will also be selected in the utilization view.

5.10.8 Allocating a Resource, Role or Team via Drag-and-Drop

You can create a new team entry by dragging a resource, role or team from the utilization view on an investment. When the Gantt chart is not displayed, you can then enter the planned or hard allocation for that team entry.

 Team entries and allocations will only be created when saving via the toolbar. You can easily identify unsaved team entries via the red triangle.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

5.10.9 Replacing a Resource, Role or Team via Drag-and-Drop

Drag a resource, role or team from the utilization view on an existing team entry to replace the allocated resource, role or team.


If you drag a resource or team on a role allocation, a menu will open offering **Replacement Options**:


- > **Total Capacity** always gives the resource or team the full allocation, even if it becomes over-allocated in the process.
- > **Remaining Capacity** only allocates the resource or team to their remaining capacity. The allocation distributed this way is deducted from the role's team entry.


Please note that the **Replacement Options** menu will always open, even if the resource or team won't become over-allocated when selecting **Total Capacity**.

The following feature toggles apply to this feature:

- > The two replacement modes can be deactivated individually, see "9.12.19 Disable Replacement Options" on page 167.
- > You can deactivate the replacement of role allocations, see "9.12.20 Disable Role Allocation Replacement" on page 167.
- > When replacing role allocations with **Remaining Capacity**, you can determine that the role's team entry is retained, see "9.12.21 Don't Replace Role With Remaining Capacity" on page 168.

 Team entries and allocations will only be created when saving via the toolbar. You can easily identify unsaved team entries via the red triangle.

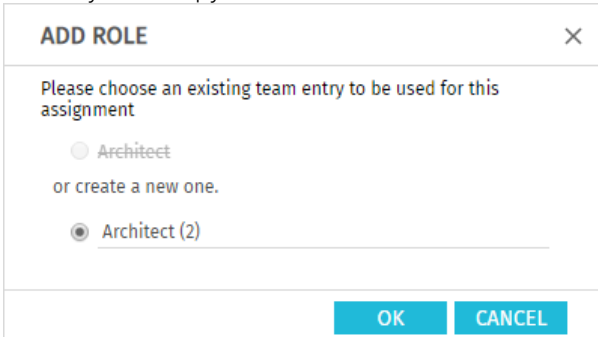
 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.


5.10.10 Creating Multi-Role Allocations


Like in **Allocations by Investment** mode, you can allocate a role to the same investment multiple times via drag-and-drop, copying the role with an index (e.g., "Architect" becomes "Architect (2)").


- > Drag the role from the resource list onto the investment.
- > If the role already has a team entry in the investment, you will be prompted to create a new team entry for a copy of the role.



You can deactivate this dialog, such that multiple role allocations will automatically create new team entries for role copies (see "9.12.28 Automatically Create New Team Entries for Roles" on page 170).

 Team entries and allocations will only be created when saving via the toolbar. You can easily identify unsaved team entries via the red triangle.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

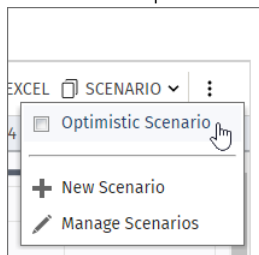
5.11 Scenario Comparison

In both **Allocations** modes, the **Scenario** menu is available in the toolbar if you have the **Scenario – Navigate** right and if the menu hasn't been hidden by a Clarity PPM application administrator (see "9.12.2 Hide Toolbar Buttons" on page 160).

In the **Scenario** menu, you have access to all scenarios for which you have the **View** right. You can edit data in any scenario for which you have the **Edit** right.

Investment rights are not required, but shifting and resizing investments with hard allocations in this mode requires the **Resource – Hard Book** right for all associated resources.

The Excel export isn't available in scenario mode.



5.11.1 Scenario Menu Features

The scenario menu in the toolbar offers the following features.

- > Select a scenario to compare with the plan of record.
- > Deselect a selected scenario to end the scenario comparison.
- > Via the **Scenario** menu, you can also create new scenarios or open the scenario manager.

See section "5.14.5 Scenario" on page 58 for details about these features.

5.11.2 Visualization and Editing in Scenario Comparison Mode

While the comparison is active, team entries are displayed in a two row layout:

ALLOCATIONS							
View: Allocations by Investment							
Months: 6 SHOW [Gantt]							
Name	Start	Finish	Feb '20	Mar '20	Apr '20	May '20	Jun '20
▶ Airport Access Security	05/01/2020	03/30/2021				504.0	528.0
	05/01/2020	03/30/2021				504.0	528.0
▶ Dell PowerVault NX1950 Network Storage	08/01/2019	07/31/2021	320.0	352.0	352.0	336.0	352.0
	08/01/2019	07/31/2021	320.0	352.0	352.0	336.0	352.0
▶ New Website	02/01/2020	05/14/2020	72.0	788.0	980.0	1,004.0	400.0
	02/01/2020	05/14/2020	788.0	980.0	1,004.0	400.0	
Architect	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	
	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	
Cohen, Rita Business Analyst	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	
	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	

- > The first row displays the plan of record data, which you can not edit in comparison mode.
- > The second row displays the associated data in the compared scenario. In comparison mode, you can only edit scenario data: the **Investment Status**, **Start** and **Finish** of an investment (see following section for details), the **Start** and **Finish** of a team entry and, without **Show Gantt Bars for Team Members** in the **Visualization** menu, the associated **Allocation** per period. With **Show Gantt Bars for Team Members** in the **Visualization** menu, you can change the start and duration of team entries via drag-and-drop in the Gantt chart, with the same effect as changing the **Start** and **Finish** fields in the list.

The **Hard Allocation** per period is read-only in scenarios in Clarity PPM and displays the committed plan of record values. You cannot change these values in a scenario.

5.11.3 Transferring Investments and Team Entries to a Scenario

Initially, investments exist only in the plan of record. Change the **Investment Status** in an investment's second row or the **Start**, **Finish** or **Allocation** per period in a team entry's second row to copy the associated investment with all team entries to the scenario.

- > You can change the **Investment Status** in **Allocations by Investment** mode only, and you can set it to **Approved** or **Unapproved** only in a scenario, provided these values are available.
- > Team entries added to an investment after that investment has been added to a scenario will not be available in the scenario.
- > Investments and team entries deleted in the plan of record will also be deleted in all scenarios in which they exist, even if differences have been entered for them in a scenario.


While the comparison is active, you can only edit the copies of team entries created in the scenario.


ALLOCATIONS							
Name	Start	Finish	Feb '20	Mar '20	Apr '20	May '20	Jun '20
Airport Access Security	05/01/2020	03/30/2021				504.0	528.0
	05/01/2020	03/30/2021				504.0	528.0
Dell PowerVault NX1950 Network Storage	08/01/2019	07/31/2021	320.0	352.0	352.0	336.0	352.0
	08/01/2019	07/31/2021	320.0	352.0	352.0	336.0	352.0
New Website	02/01/2020	05/14/2020	72.0	788.0	980.0	1,004.0	400.0
	02/01/2020	06/30/2020	788.0	980.0	1,004.0	480.0	80.0
Architect	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	
	02/01/2020	06/30/2020	160.0	176.0	176.0	160.0	80.0
Cohen, Rita Business Analyst	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	
	02/01/2020	05/14/2020	160.0	176.0	176.0	80.0	80.0

Changes made to the **Start**, **Finish**, **Investment Status** or **Allocation** per period are highlighted in light blue. Allocations are summed up on the top level (investment or role/resource/team). Where changes exist, as opposed to the plan of record, they will also be highlighted in light blue on this level. Additionally, the Gantt bars for investments and team entries will also be highlighted in light blue when the **Start**, **Finish** or total **Allocation** change as opposed to the plan of record.

Changing the **Start** and **Finish** of an investment via the list or Gantt chart will also affect associated team entries if applicable.

Extending a team entry beyond the **Start** or **Finish** of the associated investment will also extend the investment, such that it includes that team entry. Reducing the durations of team entries won't reduce the investment's duration. Team entries without a **Start** or **Finish** will adopt these values from the associated investment. Changing the duration of a team entry will redistribute its allocation values with the same proportion as before the change.

 Any changes you make to scenario data in this mode will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

5.11.4 Utilization View

The following specifics apply to the utilization view while scenario comparison is active.

- > In **Allocations by Investment** mode, while the scenario comparison is active, the resource utilization view includes scenario data where they exist.
 - Team entries of investments that don't exist in the compared scenario and associated allocations will be loaded from the plan of record.
 - Team entries of investments existing in the compared scenario and associated allocations will be loaded from that scenario.
- > The utilization and capacity filters are applied here as well. See section "4.10 Utilization and Capacity Filters" on page 37 for details and an example.
- > In **Allocations by Investment** mode, while the scenario comparison is active, you can't add team entries to investments via drag-and-drop of resources, roles and teams from the utilization view.

5.11.5 Context Menu

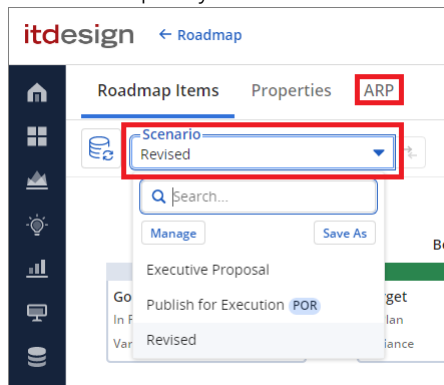
In **Allocations by Investment** mode, while the scenario comparison is active, the context menu offers only the following options.

- > **Open properties:** investments and team entries (resources, roles and teams)
- > **Expand all:** display all team entries of an investment

5.12 Roadmap Scenario Mode

Please note that the roadmap scenario mode feature is only available after adding an itd Advanced Resource Planning channel to the roadmap blueprint (see "9.7 Planning Modes" on page 152).

With the roadmap scenario mode, roadmaps offer an itd Advanced Resource Planning tab, which shows a capacity scenario for the currently selected roadmap scenario in its **Allocations** modes:



This view compares the current schedule of investments with the schedule of their linked roadmap items. Additionally, you can filter by, display and edit the **In Plan** property of roadmap items, and you can filter the utilization by the **In Plan** field in this mode with the standard utilization filter feature.

- > The itd Advanced Resource Planning application in this view is automatically filtered (in addition to any manually entered filters and automatic standard filters such as **Hide investments from the past**) and includes any investments linked to roadmap items in the selected roadmap scenario.
- > In the **Allocations** modes, the scenario mode (see previous section) is always active.
- > The capacity scenario is initially created when first opening the view for a specific roadmap scenario and is then linked to that roadmap scenario.

Reopening the view for a roadmap scenario for which a capacity scenario already exists will load that capacity scenario.

Capacity scenarios are shared among all users and are updated with changes saved by any user.

- > Investments in the capacity scenario are synchronized with their linked roadmap items in the roadmap scenario, such that any changes you save for an investment's **Start** or **In Plan** field in the capacity scenario affect its linked roadmap item in the roadmap scenario and vice versa.
 - The investment's **Start** date in the capacity scenario is equal to and synchronized with its linked roadmap item's start date.

The investment's **Finish** date is shifted according to its duration, both of which are not linked to the roadmap item.

Any associated team entries are shifted accordingly in the capacity scenario.

Shifting and resizing roadmap items linked to investments with hard allocations in this mode requires the **Resource – Hard Book** right for all associated resources.
 - The **In Plan** value in the capacity scenario is equal to and synchronized with its linked roadmap item's **In Plan** value.
 - Any changes made to allocations in the capacity scenario are synchronized back to Clarity PPM and show up under **Capacity**.

Please note that capacity changes made in Clarity PPM won't be synchronized back to the capacity scenario.

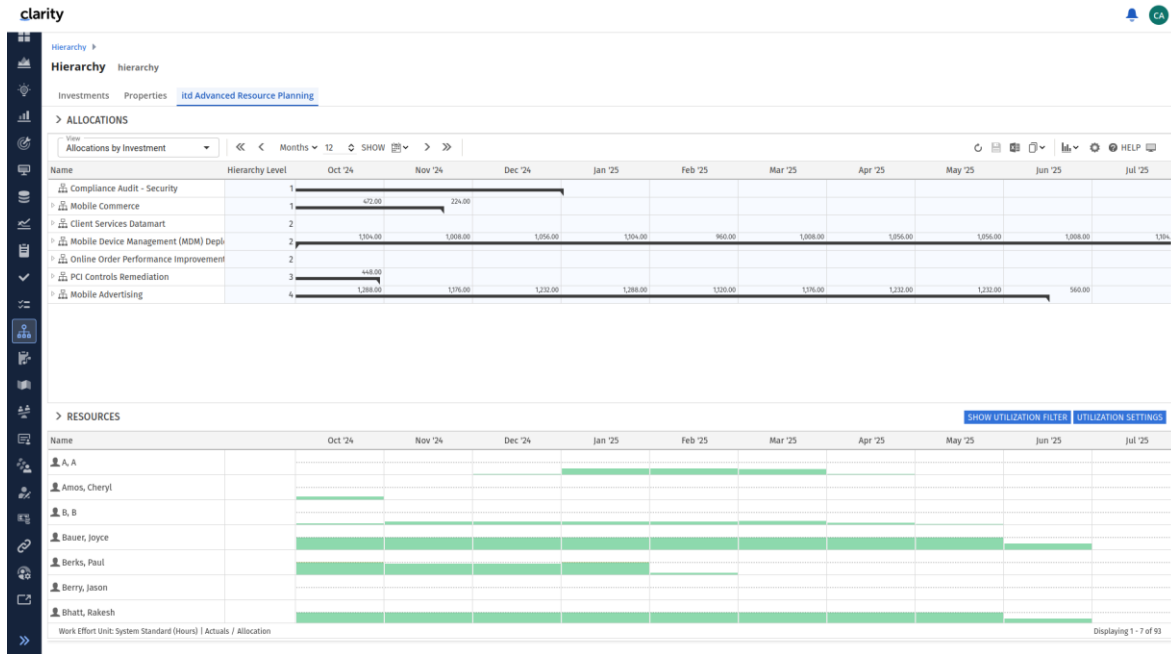
- > Any changes saved to the capacity scenario are restored when you or another user reopens the view for the same roadmap scenario, including changes not affecting linked roadmap items.

5.13 Hierarchy Mode

You can integrate itd Advanced Resource Planning in the **Hierarchies** module for hierarchies of the **Investment** type.

Please note that the hierarchy mode feature is only available after adding an itd Advanced Resource Planning channel to the hierarchy blueprint (see "9.7 Planning Modes" on page 152).

With the hierarchy mode, hierarchies offer an itd Advanced Resource Planning tab.



In this mode, the view is automatically filtered to display only investments included in the hierarchy. You can display and sort by the **Hierarchy Level** field, which displays an investment's hierarchy level. With the **Resource – Only Hierarchy Team** filter, the lower list will only display resources, roles and teams allocated to investments in the hierarchy via team entries.

Please note: This mode is currently in the beta phase and is included as a preview. Further features are planned. We look forward to receiving feedback on this mode.

5.14 Toolbar Features

In **Allocations by Investment** mode, you have access to the following features in the toolbar.

5.14.1 View

The **View** menu at the top left displays the active view and allows switching views, saving the current view under a new name and editing your favorites and view sharing settings under **Manage**.

If you have the right to save changes to the current view, the **Save View** button is active. If it isn't, you can still save a copy of the current view.

You can find details of the features available here under "3 Views" on page 22.

5.14.2 Display Period

To the right of the **View** menu, you have access to various controls for changing the display period.

The slice period and number of slices are saved with the view and are synchronized with the **Timeslices** tab of the **Preferences** (see "5.15.2 Timeslices" on page 60).

Most options available there are also available in the toolbar, with the exception of fiscal periods as slice periods.

The start date won't be saved. The view automatically starts with the current date.

◀◀ **Previous Periods:** Here you switch back by the selected display period (e.g., 6 months).

◀ **Previous Period:** Here you switch back by the selected slice period (e.g., 1 month).

◇ **Slice Period and Number of Slices:** Select the slice period (e.g., months) and enter the number of slices in the field or use the buttons to raise or lower the number.

Then click on **Show** to update the view with the new slice settings.

📅 **Jump to a Certain Date:** Here you select the view's start date in a calendar view.

➤ **Next Period:** Here you switch ahead by the selected slice period (e.g., 1 month).

➤➤ **Next Periods:** Here you switch ahead by the selected display period (e.g., 6 months).

5.14.3 Refresh and Save

Use the **Refresh** and **Save** buttons to discard or save your changes.

🔄 **Refresh:** This will reload all data. If there are unsaved changes, you will be asked if you want to save first. Answering no will discard your changes.

💾 **Save:** This will save all unsaved changes you have made in the current view.

5.14.4 Export to Excel

You can export all rows and columns of the upper view to Microsoft Excel.

📄 **Export to Excel:** Here you export the upper view to Microsoft Excel.

The data will be exported as displayed, with the same filter settings and with all rows and columns that are currently displayed. For list entries with sub-elements, these sub-elements will only be exported if their parent item has been expanded, such that they are currently visible.


The Excel export is limited to a maximum of 15,000 rows and isn't available in scenario mode.

5.14.5 Scenario


The scenario mode is available with the **Scenario – Navigate** right if the menu hasn't been hidden by a Clarity PPM application administrator (see "9.12.2 Hide Toolbar Buttons" on page 160).


The Excel export isn't available in scenario mode.

See section "5.11 Scenario Comparison" on page 52 for details about the scenario mode.

 **Scenario:** Here you activate or deactivate the scenario mode. You can start with an existing scenario or create a new scenario.


Select or Deselect a Scenario: In the **Scenario** menu, all scenarios you have access to are available for selection. Select a scenario to start the scenario comparison. Deselect the active scenario to end the scenario comparison.


 **New Scenario:** Here you create a new scenario. Enter the name for the new scenario in the toolbar. Click on the check mark to confirm or click on the X to cancel.
If you confirm, the new scenario will be directly selected and the comparison will be started.

 **Manage Scenarios:** Here you open the Clarity PPM default scenario manager view.
In this view, you can view, edit, add or delete scenarios. You can also set the **Current** and **Compare** flags, which won't affect itd Advanced Resource Planning.

5.14.6 Visualization

In **Allocations by Investment** mode, you have access to the following options under **Visualization**.


 **Visualization > Cell:** Here you toggle the display of trend arrows for deviations of the left cell value from the right one, see "5.3 Displaying Trend Arrows" on page 41.

 **Visualization > Gantt Bars:** Here you toggle the display of Gantt bars for investments and team entries, see "5.9 Interactive Gantt Bars" on page 47.


 **Visualization > Utilization**

Show Histogram: Here you switch between the two display modes for the utilization and capacity of resources, roles and teams, see "5.10 Capacity and Utilization" on page 48.


5.14.7 Preferences

 **Preferences:** Here you configure other view settings such as display fields and filter fields, see "5.15 Preferences" on page 59. Preferences will be saved separately for each view.

5.14.8 Help

 **Help:** Here you can find information about itd Advanced Resource Planning and about asking for support. If you do, please always specify your version, which you can find under **Info**.

5.14.9 Fullscreen

 **Fullscreen:** In full screen mode, the Clarity PPM navigation will be hidden, such that more items can be displayed in itd Advanced Resource Planning.

You can turn the navigation back on using the same button.

5.15 Preferences

Click on the **Preferences** button in the toolbar to edit view options.

5.15.1 General

Settings in the **General** tab control the display and behavior of the current view.

Setting	Value
TOOLBAR ONLY WITH ICONS:	<input checked="" type="checkbox"/>
SHOW UTILIZATION:	<input checked="" type="checkbox"/>
CALCULATE SUMS:	On
SHOW TEAM ENTRIES OF INACTIVE RESOURCES:	<input type="checkbox"/>
LOAD DATA ON STARTUP:	<input checked="" type="checkbox"/>
SHOW INVESTMENT HIERARCHY:	Off

- > **Toolbar Only with Icons:** select this to hide the captions on buttons with icons, reducing the width of the toolbar.
- > **Show Utilization:** when the histogram isn't displayed, this setting controls whether the utilization, total and/or remaining capacity of resources, roles and teams are displayed per period in the resource list.
- > **Calculate Sums:** select this to display totals of the workload fields (in the allocation modes: **Allocation**, **Hard Allocation** and **Actuals**) for all aggregation levels (in this mode: per investment). You can choose between **On** (display global sums), **Filtered** (apply allocation filter to global sums) and **Off** (don't calculate sums).
This setting affects the loading time, with **Off** being the fastest and **Filtered** the slowest method. The **Team has Allocation** filter (see page 33) is only available when you set this to **On** or **Filtered**.
- > **Show Team Entries of Inactive Resources:** display or hide team entries of inactive resources.
- > **Load Data on Startup:** specify here whether data is loaded directly when opening itd Advanced Resource Planning or only after clicking the filter button.
- > **Show Investment Hierarchy:** in **Allocations by Investment** mode, select this to display parent and sub-investments of investments explicitly selected via your allocation filter (see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).
Hiding investment hierarchies may speed up loading the view.

5.15.2 Timeslices

Settings in the **Timeslices** tab control the time axis scale and display period.

PREFERENCES		X
< GENERAL TIMESLICES COLUMNS UTILIZATION - COLUMNS FILTER - ALLOCATIONS FILTER - RE: >		
SLICE PERIOD:	Months	▼
FISCAL ENTITY:	Corporate	▼
FISCAL PERIOD:	Fiscal Months	▼
WORK EFFORT UNIT:	System Standard (Hours)	▼
SLICE COUNT:	12	⬆️⬇️⬆️
DECIMAL PLACES:	1	⬆️⬇️⬆️

OK CANCEL

- > **Slice Period:** enter the planning period here. Possible settings are **Days, Weeks, Months, Quarters, Calendar Years** and, if configured, **Fiscal Period**.
The selection of available slice periods may be limited by Clarity PPM application administrators via the **itd AE Preferences** lookup (see "9.12.3 Restrict Time Slice Periods in the Preferences and in the Toolbar" on page 161). In this case, only options enabled via the associated lookup value will be available here and in the toolbar of itd Advanced Resource Planning.
- > **Fiscal Entity** and **Fiscal Period:** with the **Fiscal Period** setting, if multiple fiscal entities or periods have been defined in your Clarity PPM system, select the desired fiscal entity and period here.
- > **Work Effort Unit:** specify the unit for efforts here. By default, the **System Standard** will be applied. Alternatively, **Hours, Days** or full time equivalents (**FTE**) are available for selection here.
- > **Slice Count:** enter the amount of slices to be displayed.
- > **Decimal Places:** enter the desired number of decimals for entering and displaying assignments and allocations.

5.15.3 Columns

In the **Columns** tab, you select the columns to display in the list at the top left of the current view.

The screenshot shows a 'PREFERENCES' dialog box with a close button (X) in the top right corner. Below the title bar, there are several tabs: 'GENERAL', 'TIMESLICES', 'COLUMNS', 'UTILIZATION - COLUMNS', 'FILTER - ALLOCATIONS', and 'FILTER - RE:'. The 'COLUMNS' tab is currently selected and highlighted with a blue underline. Below the tabs, the text 'COLUMNS:' is displayed. There are two main areas for column selection. The left area contains a list of available columns: 'Actuals', 'Allocation', 'Default Allocation', 'Effective Role', 'Hard Allocation', 'ID', 'Investment Status', 'Investment Type', 'Skills', and 'Staff OBS Unit'. The right area contains a list of selected columns: 'Start' and 'Finish'. Between these two lists are several arrow buttons: a single upward arrow (^), a double rightward arrow (>>), a single rightward arrow (>), a single leftward arrow (<), a double leftward arrow (<<), and a single downward arrow (v). At the bottom right of the dialog box, there are two buttons: 'OK' and 'CANCEL'.

The following fields are always displayed in the first column:

- > **Name (investment, resource/role/team)**
- > **Primary role (resource), parent role (role):** for resources, the primary role is displayed next to the resource name. For roles, the parent role is displayed next to the role name, if applicable. You can turn this off via a feature toggle, see "9.12.5 Hide Primary/Parent Role Name" on page 161.

The following fields can be selected for display by default:

- > **Actuals, Allocation, Hard Allocation (investment, team entry):** worked, planned and booked hours for investments (first level), or team entries (second level)
- > **Default Allocation (team entry):** editable; this applies in periods during the team entry where no allocation segments have been defined.
- > **Effective Role (team entry):** resource, role or team investment role
- > **ID (investment)**
- > **Investment Status (investment):** editable
In scenario mode, you can change this field for investments in the scenario.
- > **Investment Type (investment)**
- > **Skills (role team entry):** editable; only with skills hierarchy, see "9.12.6 Use Old Skills Hierarchy" on page 162.
- > **Staff OBS Unit (team entry):** editable
- > **Start, Finish (investment, team entry):** investment or team entry duration.
In scenario mode, you can change these fields for investments and team entries in the scenario.

Members of the **ARP Admin** group may add to the selection and enable editing for other fields available for investments, investment sub-types, resources, roles, teams and team entries.

This includes most Clarity PPM standard fields and most custom fields defined for these objects. See section "9.11 Configuring List and Filter Fields" on page 156 for details.

5.15.4 Utilization – Columns

In the **Utilization – Columns** tab, you select the columns to display in the utilization view's resource list at the bottom left and in the capacity popup that opens when clicking on a utilization segment.

The following information is always displayed in the first column of the resource list:

- > **Icon (resource/role/team)**
- > **Name (resource/role/team)**
- > **Primary role (resource), parent role (role):** for resources, the primary role is displayed next to the resource name. For roles, the parent role is displayed next to the role name, if applicable. You can turn this off via a feature toggle, see "9.12.5 Hide Primary/Parent Role Name" on page 161.

The following additional resource list fields can be selected by default:

- > **Department (resource/team)**
- > **Department OBS, Location (resource/team)**
- > **Is External (resource/role/team)**
- > **Manager (resource/role/team)**
- > **Skills (resource/role/team)**

The following information is always displayed in the capacity popup:

- > **Type Icon and Name (investment)** – first column
- > **Segment Utilization (allocations)** – last column

The following additional team entry fields can be selected for the capacity popup by default:

- > **Start, Finish (team entry)**
- > **Staff OBS Unit (team entry)**
- > **Default Allocation (team entry)**
- > **Effective Role (team entry)**
- > **Skills (role team entry)** only with skills hierarchy, see "9.12.6 Use Old Skills Hierarchy", page 162.

Members of the **ARP Admin** group may add other fields available for resources, roles and teams or for team entries to these selections. This includes most Clarity PPM standard fields and most custom fields defined for these objects. See "9.11 Configuring List and Filter Fields" on page 156.

5.15.5 Filter – Allocations

In the **Filter – Allocations** tab, you select filter fields for the allocation filter. This lets you filter the current view by investments, resources/roles/teams and team entries.

Select the available filter fields for the left and right column of the assignment or allocation filter.

- > You can add filter fields to either column as well as determine their order via drag-and-drop:
 - Drag filter fields from the **Available Filters** list to either column to add them.
 - Drag filter fields from either column to the **Available Filters** list to remove them.
 - Drag filter fields between columns or within a column to change their position.
- > Alternatively, you can use the buttons to the left of a column list in order to...
 - ... add fields selected in its left neighbor list (right arrow).
 - ... remove fields selected in the list and add these fields to its left neighbor list (left arrow).
 - ... change the field order by moving selected fields up or down in the list (up/down arrow).

See "4.8 Default Filter Fields for the Main View" on page 28 for details about the default filter fields.

Members of the **ARP Admin** group may add to the selection other fields available for investments, investment sub-types, resources, roles, teams and team entries.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

For details about the required procedure and supported fields and objects, see "9.11 Configuring List and Filter Fields" on page 156.

5.15.6 Filter – Resources

In the **Filter – Resources** tab, you select filter fields for the resource panel. This lets you filter the displayed resources, roles and teams.

PREFERENCES [X]

< . TIMESLICES COLUMNS UTILIZATION - COLUMNS FILTER - ALLOCATIONS **FILTER - RESOURCES** >

AVAILABLE FILTERS:

- Resource - Booking Manager
- Resource - Investment Team
- Resource - Is Team
- Resource - Only with Capacity
- Resource - Resource Name
- Resource - Resource Type
- Resource - Skill Matching
- Resource - Skills

LEFT COLUMN:

- Resource - Resource OBS Unit
- Resource - Resource Manager
- Resource - Primary Role

RIGHT COLUMN:

- Resource - Role/Resource
- Resource - Is External
- Resource - Is Role

OK CANCEL

Select the available filter fields for the left and right column of the assignment or allocation filter.

- > You can add filter fields to either column as well as determine their order via drag-and-drop:
 - Drag filter fields from the **Available Filters** list to either column to add them.
 - Drag filter fields from either column to the **Available Filters** list to remove them.
 - Drag filter fields between columns or within a column to change their position.
- > Alternatively, you can use the buttons to the left of a column list in order to...
 - ... add fields selected in its left neighbor list (right arrow).
 - ... remove fields selected in the list and add these fields to its left neighbor list (left arrow).
 - ... change the field order by moving selected fields up or down in the list (up/down arrow).

See section "4.9 Default Filter Fields for the Utilization View" on page 35 for details about supported default filter fields.

Members of the **ARP Admin** group may add to the selection other fields available for resources, roles and teams.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

For details about the required procedure and supported fields and objects, see "9.11 Configuring List and Filter Fields" on page 156.

5.15.7 Utilization

Settings in the **Utilization** tab control the display and calculation of the utilization.

In **Allocations by Investment** mode, the utilization will be calculated from allocations.

- > The **Utilization Rate** controls the visualization of low or high utilization.
 - **Low Utilization at and Below:** upper utilization boundary below which resources, roles and teams will be marked as lowly utilized with a grey background in the respective period. Utilization between the thresholds for low utilization and utilization warning (e.g., above 80% to 100% as according to the screenshot) will be marked as optimal with a green background. This threshold value has no effect in the histogram.
 - **Utilization Warning Above:** lower utilization boundary above which resources, roles and teams will be marked as slightly over-utilized with a yellow background in the respective period. This applies as long as the utilization stays at or below the lower boundary for high utilization. In the histogram, workload is colored green up to this threshold value.
 - **High Utilization Above:** lower boundary above which resources, roles and teams will be marked as highly over-utilized with a red background in the respective period. In the histogram, workload is colored yellow up to this threshold value and red above.
- > The **Capacity Filter** by **Staff OBS Unit** is applied to the capacity displayed for resources, roles and teams, such that only resources and teams with a selected **Department OBS** will be displayed as available and included in the capacity of associated roles. Additionally, you can filter the utilization. See "4.10 Utilization and Capacity Filters" on page 37.
- > The **Role Capacity Calculation** option is only available after activation by a CA PPM application administrator via the **itd AE Preferences** lookup settings (see "9.12.17 Include Sub-Roles in Role Capacity" on page 166). It controls the inclusion of sub-roles when calculating role capacities. Under **Calculate Capacity of Roles Based On**, select:
 - **All Role Owners (Standard):** in the default setting, the capacity of a role is calculated based only on associated resources.
 - **All Role Owners and Sub-Roles:** select this option to include the capacities of sub-roles in the calculation of a role's capacity.

- > Under **Non-Histogram Mode**, you can configure the left and right hand side values in the utilization grid that is displayed when the histogram is turned off.

Available values:

- Capacity
- Remaining
- Allocation
- Hard Allocation

Remaining is the **Capacity** minus the editable value, **Allocation** or **Hard Allocation**.

5.15.8 Layout

Settings in the **Layout** tab control the display values and the editable value for allocations in the right hand side allocation grid as well as sorting fields for investments and team entries.

PREFERENCES ✕

< JS
UTILIZATION - COLUMNS
FILTER - ALLOCATIONS
FILTER - RESOURCES
UTILIZATION
LAYOUT
>

CELL CONFIGURATION

Dec '24	Jan '25	Feb '25	Mar '25	Apr '25
38.5	45.8	58.5	45.2	10.3
		30.5		52.0
				31.3

FIELD TO DISPLAY ON THE LEFT PART OF THE CELL (READ ONLY): Actuals ▾

FIELD TO DISPLAY ON THE RIGHT PART OF THE CELL (EDITABLE): Allocation ▾

TOLERANCE OF DEVIATION: 10.0%

SORTING

SORT INVESTMENTS BY: Investment - Name (Default) ▾ ⬆

SORT TEAM ENTRIES BY: Team - Name (Default) ▾ ⬆

BROWSER SPECIFIC LAYOUT CONFIGURATION

USE COLORS WITH HIGHER CONTRAST:

OK
CANCEL

- > **Cell Configuration:** here you configure the values used in the right hand side allocation grid. The displayed utilization is always based on the editable value.
 - **Field to Display on the Left Part of the Cell (Read Only):** Empty, Allocation, Hard Allocation, ETC, Actuals, Actuals + ETC, Requested or Capacity
 - **Field to Display on the Right Part of the Cell (Editable):** Allocation or Hard Allocation
 - **Tolerance of Deviation:** Treshold value for displaying trend arrows to indicate a deviation of the left cell value from the right one when activated via **Visualization**.

The left hand side sum columns (**Allocation, Hard Allocation, Actuals**) can be displayed or hidden via the **Columns** tab (see "5.15.3 Columns" on page 61).

To display aggregated totals for investments in the allocation grid and sum columns, set **Calculate Sums** to **On** or to **Filtered** in the **General** tab (see "Calculate Sums" on page 59).
- > **Sorting:** In addition to the fields listed here, any custom fields without lookups are available. If you don't select the respective default field, items will be sorted by that field on the second level.
 - **Sort Investments By:** **Investment Type** or **Name** (Default).
 - **Sort Team Entries By:** **Effective Role, Finish Date, Name** (Default) or **Start Date**.
- > **Browser Specific Layout Configuration:** Here you can select to **Use Colors with Higher Contrast**. This setting will affect all your views in itd Advanced Resource Planning.

6 Allocations by Resource

The **Allocations by Resource** mode groups team entries for investments and associated allocations by the allocated resources, roles and teams.

Their utilization and capacity are displayed directly in the right hand side allocation grid view.

Name	Start	Finish	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24	Jul '24
Amos, Cheryl Engineer	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4	6.3 / 13.7	5.3 / 17.7
Arpel, Ian Business Analyst	09/12/2023	01/14/2024	30.4 / -8.4	34.3 / -13.3	16.8 / 6.2	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Baker, Isaac Manager	05/09/2022	01/04/2024	22.5 / -0.5	17.4 / 3.6	7.0 / 16.0	2.4 / 18.6	2.4 / 18.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4
Barry, Debra Product Manager	03/13/2023	01/31/2024	40.5 / -18.5	40.4 / -19.4	42.6 / -19.6	12.4 / 8.6	12.4 / 8.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4
Holiday	08/01/2023	03/31/2024	10.0	10.0	10.0	10.0					
International Trade Show	09/12/2023	01/31/2024	8.0	8.0	10.0						
Overall M&A Playbook	03/13/2023	01/30/2024	20.0	20.0	20.0						
Run the Business	01/01/2023	12/31/2025	2.5	2.4	2.6	2.4	2.4	2.5	2.6	2.3	2.6
Berks, Paul Project Manager	09/12/2023	01/23/2024	30.4 / -8.4	33.2 / -12.2	24.7 / -1.7	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Bernard, Luc Project Manager	09/12/2023	01/23/2024	17.0 / 5.0	23.0 / -2.0	23.0 / 0.0	9.4 / 11.6	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Berry, Jason Engineer	12/16/2022	09/30/2023	4.5 / 17.5	5.4 / 15.6	5.3 / 17.7	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7
Business Analyst	03/14/2022	09/03/2024	81.8 / -62.4	72.8 / -52.0	34.3 / 37.5	21.0 / 57.0	21.0 / 76.0	22.0 / 79.7	24.0 / 82.3	20.0 / 72.4	23.0 / 83.3

6.1 Displayed Data

In **Allocations by Resource** mode, the following data will be displayed:

- > Resources, roles and teams
- > Investments (custom types included) with team entries of displayed resources, roles and teams
- > Associated team entries and allocations or hard allocations
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25).

6.1.1 Show Utilization

With the **Show Utilization** option selected in the **General** tab of the **Preferences**, the utilization, total and/or remaining capacity of a resource, role or team will be displayed in the associated row (see "6.10 Utilization and Capacity" on page 74).

6.1.2 Team Entry Data

In this mode, displayed investments represent associated team entries.

The **Start** and **Finish** fields displayed for a resource, role or team indicate the earliest start and latest finish of associated team entries.

6.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select up to two values that will be displayed per period for team entries (see "Cell Configuration" on page 89).

- > **Optional read-only value (small blue number at the left edge of the cell):** Allocation, Hard Allocation, ETC, Actuals, Actuals + ETC, Requested or Capacity
- > **Editable value (larger number at the right edge of the cell):** Allocation or Hard Allocation; base of displayed remaining capacity (see "6.10 Utilization and Capacity" on page 74)

The configured values will be displayed when hovering over the allocation grid with the associated preferences setting (see "9.12.8 Show Grid Hints for by Resource Views" on page 162).

6.3 Displaying Trend Arrows

Via the **Visualization** menu, you can display trend arrows comparing the left and right cell values, see "Visualization > Cell" on page 82.

View		Allocations by Resource											
		Months 12 SHOW											
Name	Start	Finish	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24	Jan '25	Feb '25	Mar '25		
Amos, Cheryl Developer	03/01/2024	10/29/2024	184.0 / 64.0	176.0 / 76.0	168.0 / 168.0	184.0 / 152.0	168.0 / 168.0	176.0 / 176.0	184.0 / 184.0	160.0 / 160.0	168.0 / 168.0		
CRM Contact Center Devi	03/01/2024	07/26/2024	184.0	120.0	176.0	168.0	184.0	168.0	176.0	184.0	160.0	168.0	176.0
PCI Controls Remediatio	07/01/2024	10/29/2024	184.0	160.0	160.0	184.0	32.0	168.0	176.0	184.0	160.0	168.0	176.0
Architect	11/01/2023	01/31/2026	1,472.0 / -10,753.3	1,408.0 / -6,559.8	1,344.0 / -1,273.1	1,472.0 / -5,732.2	1,344.0 / -3,942.3	1,408.0 / -1,222.7	1,472.0 / -1,051.6	1,280.0 / -523.7	1,344.0 / -284.4		
BEA Weblogic 10.0 Applic	02/01/2024	01/31/2026	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,472.0	168.0	176.0	1,472.0	1,408.0
BYOD Management	09/01/2024	03/04/2025	1,472.0	1,408.0	1,344.0	168.0	1,472.0	184.0	1,344.0	168.0	1,408.0	176.0	1,472.0
Change Mgt for Internal	08/04/2024	11/21/2024	1,472.0	1,408.0	1,344.0	120.0	1,472.0	40.0	1,472.0	1,344.0	1,408.0	1,472.0	1,408.0
Credit Card Processing E	07/01/2024	07/28/2024	1,472.0	160.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0	1,472.0
Credit Card Security Imp	07/01/2024	08/31/2024	1,472.0	2,555.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0
Data Warehouse Perform	06/01/2024	10/13/2024	1,472.0	80.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0	1,472.0
Email SAN Storage Imple	07/01/2024	10/23/2024	1,472.0	144.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0
Financial Process Audit	07/01/2024	08/31/2024	1,472.0	144.0	1,408.0	2,816.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0
Headquarters	07/01/2024	07/31/2024	1,472.0	2,000.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0	1,472.0
HR Claims Processing En	08/31/2024	08/31/2024	1,472.0	2,000.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0	1,408.0
HR Online Benefits Secu	07/01/2024	11/30/2024	1,472.0	2,596.0	1,408.0	80.0	1,344.0	1,472.0	48.0	1,344.0	2,589.0	1,408.0	1,472.0

For instance, this can help you to easily compare actuals with the originally planned values.

Wherever both values are present and different, a little arrow at the left cell edge visualizes a negative or positive deviation of the left cell value from the right cell value.

In the **Layout** tab of the **Preferences**, you can set a threshold percentage for the minimal deviation to visualize via arrows, see "Tolerance of Deviation" on page 89.

6.4 Allocation, Hard Allocation and Actuals

In the **Columns** tab of the **Preferences**, you can display or hide the **Allocation**, **Hard Allocation** and **Actuals** fields in the left hand side list (see "6.15.3 Columns" on page 85).

The fields display the respective values for each team entry.


With **Calculate Sums** in the **General** tab of the **Preferences**, aggregated sums will also be calculated and displayed per resource, role and team. Depending on the **Calculate Sums** setting, global (**On**) or **Filtered** sums will be displayed, according to your allocation filter (see "Calculate Sums" on page 83).

In **Allocations by Resource** mode, **Show Utilization** will also calculate sums. When combined with **Calculate Sums** set to **Filtered**, the sums displayed per resource, role and team will be filtered (see "Show Utilization" on page 83).


6.5 Editing Allocations

In the right half of the allocations view, you can see and edit team entries for resources, roles and teams, grouped by the associated investments or by the allocated resources, roles and teams.

Without selection of the **Show Gantt Bars for Team Members** option in the **Visualization** menu in the toolbar, you can enter the desired allocation values in the right hand side grid. Extending a team entry by entering values in grid cells outside the duration of the associated investment will also extend the investment such that the duration of the investment includes the team entry.

 Changes made in the allocation grid will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.


 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.


6.6 Editing List Fields

You can edit the **Start**, **Finish** and **Staff OBS Unit** fields of team entries in the list.

Most additional fields may also be made editable by members of the **ARP Admin** group (see "6.6.3 Editing Additional Fields" on the bottom of this page).

 Changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

6.6.1 Editing the Start and Finish of Team Entries

You can change the duration of team entries via the **Start** and **Finish** fields displayed in the left hand side hierarchic list, distributing planned and hard allocations over the new duration with the same proportions as before the change. Therefore, shortening a team entry will raise the allocation per period while extending a team entry will lower it.

Extending a team entry beyond the associated investment's **Start** or **Finish** will also extend the investment, such that it includes that team entry.

Reducing the durations of team entries won't reduce the investment's duration.

Team entries without a **Start** or **Finish** will adopt these values from the associated investment.

6.6.2 Editing the Staff OBS Unit of Team Entries

You can edit the **Staff OBS Unit** field of team entries in the list. To do this, click in the field.

Click on the magnifier icon to select an OBS unit or the trashcan icon to clear the field.

6.6.3 Editing Additional Fields

You can also edit any additional list fields that have been made editable by members of the **ARP Admin** group (see "9.11 Configuring List and Filter Fields" on page 156).

6.6.4 Copying List Fields

You can copy editable field values up or down via drag-and-drop. This feature supports lookup fields and respects restrictions on column values.

Copying field values this way requires the start and target row to be of the same type, i.e., resource/role/team or team entry.

6.7 Context Menu for Displayed Objects

Hover over a resource, role or team or a team entry to open the associated context menu.

The following sections describe the default options available here.

Members of the **ARP Admin** group can hide default options and add additional custom options (see "9.10 Defining Actions" on page 154).

6.7.1 Open Properties

The **Open properties** option is available in the context menu for resources, roles, teams and team entries. Here you open the associated Clarity PPM detail view.

- > Investment, role and resource properties open in a new browser tab.
- > Team entry properties open on top of itd Advanced Resource Planning.

6.7.2 Allocate From Estimates

The **Allocate From Estimates** option is available in the context menu for team entries.

For the selected team entry, or for all team entries of the selected investment, the estimated effort of associated assignments will be entered as allocation.

This action will be directly applied without further confirmation.

6.7.3 Commit Allocation

The **Commit Allocation** option is available in the context menu for team entries.

For the selected team entry, or for all team entries of the selected investment, the allocation will be entered as hard allocation.

This action will be directly applied without further confirmation.

6.7.4 Accept Hard Allocation

The **Accept Hard Allocation** option is available in the context menu for team entries.

For the selected team entry, or for all team entries of the selected investment, the hard allocation will be entered as allocation.

This action will be directly applied without further confirmation.

6.7.5 Delete

The **Delete** option is available in the context menu for team entries without actuals. Once you select the **Delete** option, the selected team entry will instantly be deleted without further confirmation.

Team entries with actuals can't be deleted.

Deleting other objects isn't supported in the allocations modes.

6.7.6 Expand All

The **Expand all** option is available in the context menu for resources, roles and teams. Select this to expand all associated team entries.

6.8 Conversations

The standard MUX conversations for team entries are available in itd Advanced Resources Planning in the **Allocations by Investment** and **Allocations by Resource** views.

Clicking on a team entry in either of the **Allocations by Investment** or **Allocations by Resource** views adds a small **Details** button at the top right side of the view.

> ALLOCATIONS

View: Allocations by Investment

Months: 8

REFRESH SAVE EXPORT TO EXCEL SCENARIO VISUALIZATION

Name	Team - Coord...	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22
> Cloud Computing Enhancements		2	2	2	2	2	2	2	1
> Customer Migration To Cloud		352	303	161	179	163	171	171	163
AI Team	New	41	100						
Amos, Cheryl Engineer	New	18							
Andersson, Peter Engineer	New	26	20	19	22	20	21	21	20
Architect Engineer	New	18	16	15	18	16	17	17	16
Arpel, itdesign Business Analyst	New	22	16	15	18	16	17	17	16
Berry, Jason Engineer	New		5	5	6	5	6	6	5
Bhatt, Rakesh Engineer	New	33	16	15	18	16	17	17	16

DETAILS

This button opens a conversation panel for this team entry only.

> ALLOCATIONS

View: Allocations by Investment

Months: 8

REFRESH

Name	Team - Coord...	Dec '21	Jan '22	Feb '22
> Cloud Computing Enhancements		2	2	2
> Customer Migration To Cloud		352	303	161
AI Team	New	41	100	
Amos, Cheryl Engineer	New	18		
Andersson, Peter Engineer	New	26	20	19
Architect Engineer	New	18	16	15
Arpel, itdesign Business Analyst	New	22	16	15
Berry, Jason Engineer	New		5	5
Bhatt, Rakesh Engineer	New	33	16	15

Architect
Customer Migration To Cloud (PR2009)

itd | _____

CANCEL SAVE

itd Arpel, itdesign 12/08/21, 02:41 PM
Dana Lewis More architects required!

itd Arpel, itdesign 12/08/21, 02:40 PM
Architect required.

6.9 Interactive Gantt Bars

In **Allocations by Resource** mode, you can toggle the display of Interactive Gantt bars for team entries only via the **Visualization** menu in the toolbar.

6.9.1 Create Requisition

The **Create Requisition** option is available in the context menu for team entries. Here you create a new requisition for the allocation of a team entry.

This action will be directly applied without further confirmation.

6.9.2 Gantt Bars for Team Entries

Gantt bars for team entries will be displayed when selecting **Show Gantt Bars for Team Members** in the **Visualization** menu in the toolbar.

While Gantt bars are displayed for team entries, you can't edit the planned or hard allocation values displayed per period directly.

You can shift and resize team entries via drag and drop of their Gantt bars.

This will redistribute the allocation values displayed per period for the respective team entry, planned or hard, over the capacity of the respective resource, role or team during the new duration with the same proportions as before the change.


Shifting or extending a team entry beyond the associated investment's **Start** or **Finish** will also extend the investment, such that it includes the team entry.


Reducing the durations of team entries won't reduce the investment's duration.


Team entries without a **Start** or **Finish** will adopt these values from the associated investment.

6.9.3 Saving or Reverting Changes

Changes made to Gantt bars won't be saved directly

 Your changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

6.10 Utilization and Capacity

With **Show Utilization** in the **General** tab of your **Preferences**, the utilization, total and/or remaining capacity of resources, roles and teams, based on allocations, are displayed per period in color-coded numbers.

ALLOCATIONS		SHOW UTILIZATION FILTER UTILIZATION SETTINGS											
View: Allocations by Resource		Months 9		SHOW	REFRESH	SAVE	EXPORT TO EXCEL	SCENARIO	VISUALIZATION	PREFERENCES	HELP	FULLSCREEN	
Name	Start	Finish	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24	Jul '24		
Amos, Cheryl Engineer	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4	6.3 / 13.7	5.3 / 17.7		
Arpel, Ian Business Analyst	09/12/2023	01/14/2024	30.4 / -8.4	34.3 / -13.3	16.8 / 6.2	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7		
Baker, Isaac Manager	05/09/2022	01/04/2024	22.5 / -0.5	17.4 / 3.6	7.0 / 16.0	2.4 / 18.6	2.4 / 18.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4		
Barry, Debra Product Manager	03/13/2023	01/31/2024	40.5 / -18.5	40.4 / -19.4	42.6 / -19.6	12.4 / 8.6	12.4 / 8.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4		
Berks, Paul Project Manager	09/12/2023	01/23/2024	30.4 / -8.4	33.2 / -12.2	24.7 / -1.7	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7		
Bernard, Luc Project Manager	09/12/2023	01/23/2024	17.0 / 5.0	23.0 / -2.0	23.0 / 0.0	9.4 / 11.6	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7		
Berry, Jason Engineer	12/16/2022	09/30/2023	4.5 / 17.5	5.4 / 15.6	5.3 / 17.7	4.8 / 16.2	4.8 / 16.2	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7		
Business Analyst	03/14/2022	09/03/2024	81.8 / -62.4	72.8 / -52.0	34.3 / 37.5	21.0 / 57.0	21.0 / 76.0	22.0 / 79.7	24.0 / 82.3	20.0 / 72.4	23.0 / 83.3		
Chapin, Tom Solutions Marketing	09/12/2023	01/23/2024	10.5 / 11.5	10.1 / 10.9	8.8 / 14.2	2.4 / 18.6	2.4 / 18.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4		
Chen, Chih-wei Engineer	09/12/2023	01/23/2024	20.5 / 1.5	25.4 / -4.4	25.6 / -2.6	20.4 / 0.6	20.4 / 0.6	5.1 / 16.9	5.3 / 17.7	4.6 / 15.4	5.3 / 17.7		
Coleman, Joyce Architect	12/16/2022	12/05/2023	24.5 / -2.5	5.4 / 15.6	2.6 / 20.4	2.4 / 18.6	2.4 / 18.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4		
Donegal, Amy Analyst Relations	04/17/2023	01/23/2024	10.5 / 11.5	10.1 / 10.9	8.8 / 14.2	2.4 / 18.6	2.4 / 18.6	2.5 / 19.5	2.6 / 20.4	2.3 / 17.7	2.6 / 20.4		

6.10.1 Visualization of Low, Optimal, High and Very High Utilization

Cell colors display whether a role's or resource's utilization is low (white), optimal (green), high (yellow) or very high (red) in that period (see "6.15.5 Utilization" on page 87).

Utilization histogram charts are not available in this mode.

6.10.2 Resource Fields

Two values are displayed per resource, role, team and period. You select these values in the **Layout** tab of your **Preferences**, from among [total] **Capacity**, **Remaining** [capacity], **Allocation** and **Hard Allocation** (see "Cell Configuration" on page 89).

6.10.3 Utilization, Remaining Capacity and Role Capacities

In this mode, the utilization may be either the **Allocation** or **Hard Allocation**, or both (see previous section). The remaining capacity is always based on the editable value (**Allocation** or **Hard Allocation**, see "6.2 Displayed and Editable Values per Period" on page 68).

With **Calculate Sums** set to **Filtered** in the **General** tab of your **Preferences**, the **Allocation** and **Hard Allocation** will only include displayed allocations, as selected by your allocation filter.

With **Calculate Sums** set to **On** or **Off**, all allocations in the associated period will be included instead, even if they aren't displayed.

The remaining capacity is not affected by allocation filters, and based on all allocations by default.

For the displayed utilization and capacity, separate utilization and capacity filters are available (see "4.10 Utilization and Capacity Filters" on page 37 for details and an example).

Depending on your preferences, role capacities may include sub-roles (see "Role Capacity Calculation" on page 88).

6.10.4 Team Utilization

For a resource allocated to a team, that allocation is included as a percentage of the resource's capacity as entered in the team (e.g., if a resource is allocated to a team with 50%, in a week where that resource has an capacity of 40 hours, an allocation of 20 hours will be included for the team).

6.10.5 Displaying Utilization and Capacity Details

Hover over a grid cell to show the displayed resource fields, utilization mode (**Filtered** or not) and remaining capacity calculation, if applicable.

6.10.6 Filtering the View

Use the utilization and capacity filters to filter the utilization and capacity displayed for resources, roles and teams. This also affects utilization level colors.

See "4.10 Utilization and Capacity Filters" on page 37 for details and an example.

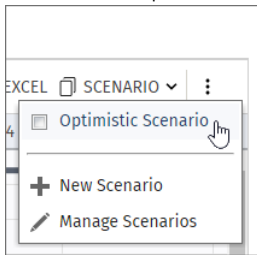
6.11 Scenario Comparison

In the **Allocations** modes, the **Scenario** menu is available in the toolbar if you have the **Scenario – Navigate** right and if the menu hasn't been hidden by a Clarity PPM application administrator (see "9.12.2 Hide Toolbar Buttons" on page 160).

In the **Scenario** menu, you have access to all scenarios for which you have the **View** right. You can edit data in any scenario for which you have the **Edit** right.

Investment rights are not required, but shifting and resizing investments with hard allocations in this mode requires the **Resource – Hard Book** right for all associated resources.

The Excel export isn't available in scenario mode.



6.11.1 Scenario Menu Features

The scenario menu in the toolbar offers the following features.

- > Select a scenario to compare with the plan of record.
- > Deselect a selected scenario to end the scenario comparison.
- > Via the **Scenario** menu, you can also create new scenarios or open the scenario manager.

See section "6.14.5 Scenario" on page 82 for details about these features.

6.11.2 Visualization and Editing in Scenario Comparison Mode

While the comparison is active, team entries are displayed in a two row layout:

ALLOCATIONS										
View: Allocations by Resource										
Name	Start	Finish	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	
Amos, Cheryl Engineer	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4	
	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4	
Advanced Resource Planning Roll-out	09/29/2023	01/14/2024	10.4	12.1	6.6					
	09/29/2023	01/14/2024	10.4	12.1	6.6					
eBusiness Mobile Network	08/01/2023	06/30/2024						4.0	4.0	
	08/01/2023	06/30/2024						4.0	4.0	

- > The first row displays the plan of record data, which you can not edit in comparison mode.
- > The second row displays the associated data in the compared scenario. In comparison mode, you can only edit scenario data: the **Investment Status** of an investment (see following section for details), the **Start** and **Finish** of a team entry and, without **Show Gantt Bars for Team Members** in **Visualization**, the **Allocation** per period. With **Show Gantt Bars for Team Members** in **Visualization**, you can change the start and duration of team entries via drag-and-drop in the Gantt chart, with the same effect as changing the **Start** and **Finish** fields in the list. The **Hard Allocation** per period is read-only in scenarios in Clarity PPM and displays the committed plan of record values. You cannot change these values in a scenario.

6.11.3 Transferring Investments and Team Entries to a Scenario

Initially, investments exist only in the plan of record. Change the **Investment Status** in an investment's second row or the **Start, Finish** or **Allocation** per period in a team entry's second row to copy the associated investment with all team entries to the scenario.

Please note:

- > You can change the **Investment Status** in **Allocations by Investment** mode only, and you can set it to **Approved** or **Unapproved** only in a scenario, provided these values are available.
- > Team entries added to an investment after that investment has been added to a scenario will not be available in the scenario.
- > Investments and team entries deleted in the plan of record will also be deleted in all scenarios in which they exist, even if differences have been entered for them in a scenario.

While the comparison is active, you can only edit the copies of team entries created in the scenario.

Name	Start	Finish	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24
Amos, Cheryl Engineer	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4
	08/01/2023	12/31/2025	17.3 / 4.7	21.1 / -0.1	23.7 / 0.3	18.2 / 2.4	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4
Advanced Resource Planning Roll-out	09/29/2023	01/14/2024	10.4	12.1	6.6				
	09/29/2023	02/29/2024	7.3	7.1	8.7	9.2			
eBusiness Mobile Network	08/01/2023	06/30/2024						4.0	4.0
	08/01/2023	06/30/2024						4.0	4.0

Changes made to an investment's **Investment Status** or to a team entry's **Start, Finish** or **Allocation** per period are highlighted in light blue. Allocations are summed up on the top level (investment or resource/role/team). Where changes exist, as opposed to the plan of record, they will also be highlighted in light blue on this level.

Additionally, the Gantt bars for investments and team entries will also be highlighted in light blue when the **Start, Finish** or total **Allocation** change as opposed to the plan of record.

Extending a team entry beyond the **Start** or **Finish** of the associated investment will also extend the investment, such that it includes that team entry. Reducing the durations of team entries won't reduce the investment's duration. Team entries without a **Start** or **Finish** will adopt these values from the associated investment. Changing the duration of a team entry will redistribute its allocation values with the same proportion as before the change.

Any changes you make to scenario data in this mode will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

Refresh the view without saving to revert your changes.

6.11.4 Utilization

In **Allocations by Resource** mode, the scenario mode lets you compare the utilization and remaining capacity of resources, roles and teams in the plan of record to their scenario values.

Name	Start	Finish	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24
Amos, Cheryl Engineer	08/01/2023	06/30/2024	20.4 / 1.6	26.1 / -5.1	20.6 / 2.4	9.0 / 12.0	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4
	08/01/2023	06/30/2024	17.2 / 4.8	21.4 / -0.4	22.9 / 0.3	17.9 / 3.1	4.4 / 16.6	8.5 / 13.5	8.6 / 14.4
Andersson, Peter Engineer	07/17/2023	07/08/2024	17.2 / 4.8	29.3 / -8.3	20.8 / 2.2	12.8 / 8.2	10.4 / 10.6	6.5 / 15.5	9.3 / 13.7
	07/17/2023	07/08/2024	17.2 / 4.8	29.3 / -8.3	20.8 / 2.2	12.8 / 8.2	10.4 / 10.6	6.5 / 15.5	9.3 / 13.7
Architect	03/14/2022	11/19/2024	53.0 / -23.1	98.2 / -29.9	84.6 / 39.8	72.4 / 41.1	105.1 / 17.2	128.5 / 5.2	132.3 / 6.5
	03/14/2022	11/19/2024	53.0 / -23.1	98.2 / -29.9	84.6 / 39.8	72.4 / 41.1	105.1 / 17.2	128.5 / 5.2	132.3 / 6.5

The utilization and capacity filters are applied here as well. See section "4.10 Utilization and Capacity Filters" on page 37 for details and an example.

6.11.5 Context Menu

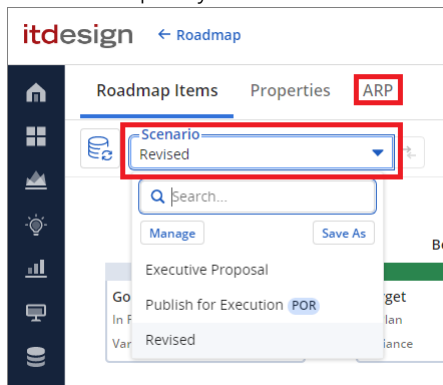
In **Allocations by Resource** mode, while the scenario comparison is active, the context menu offers only the following options.

- > **Open properties:** resources/roles/teams and team entries (investments)
- > **Expand all:** display all team entries of a resource, role or team

6.12 Roadmap Scenario Mode

Please note that the roadmap scenario mode feature is only available after adding an itd Advanced Resource Planning channel to the roadmap blueprint (see "9.7 Planning Modes" on page 152).

With the roadmap scenario mode, roadmaps offer an itd Advanced Resource Planning tab, which shows a capacity scenario for the currently selected roadmap scenario in its **Allocations** modes:



This view compares the current schedule of investments with the schedule of their linked roadmap items. Additionally, you can filter by, display and edit the **In Plan** property of roadmap items, and you can filter the utilization by the **In Plan** field in this mode with the standard utilization filter feature.

- > The itd Advanced Resource Planning application in this view is automatically filtered (in addition to any manually entered filters and automatic standard filters such as **Hide investments from the past**) and includes any investments linked to roadmap items in the selected roadmap scenario.
- > In the **Allocations** modes, the scenario mode (see previous section) is always active.
- > The capacity scenario is initially created when first opening the view for a specific roadmap scenario and is then linked to that roadmap scenario.

Reopening the view for a roadmap scenario for which a capacity scenario already exists will load that capacity scenario.

Capacity scenarios are shared among all users and are updated with changes saved by any user.

- > Investments in the capacity scenario are synchronized with their linked roadmap items in the roadmap scenario, such that any changes you save for an investment's **Start** or **In Plan** field in the capacity scenario affect its linked roadmap item in the roadmap scenario and vice versa.
 - The investment's **Start** date in the capacity scenario is equal to and synchronized with its linked roadmap item's start date.
The investment's **Finish** date is shifted according to its duration, both of which are not linked to the roadmap item.
Any associated team entries are shifted accordingly in the capacity scenario.
 - Shifting and resizing roadmap items linked to investments with hard allocations in this mode requires the **Resource – Hard Book** right for all associated resources.
 - The **In Plan** value in the capacity scenario is equal to and synchronized with its linked roadmap item's **In Plan** value.
 - Any changes made to allocations in the capacity scenario are synchronized back to Clarity PPM and show up under **Capacity**.

Please note that capacity changes made in Clarity PPM won't be synchronized back to the capacity scenario.

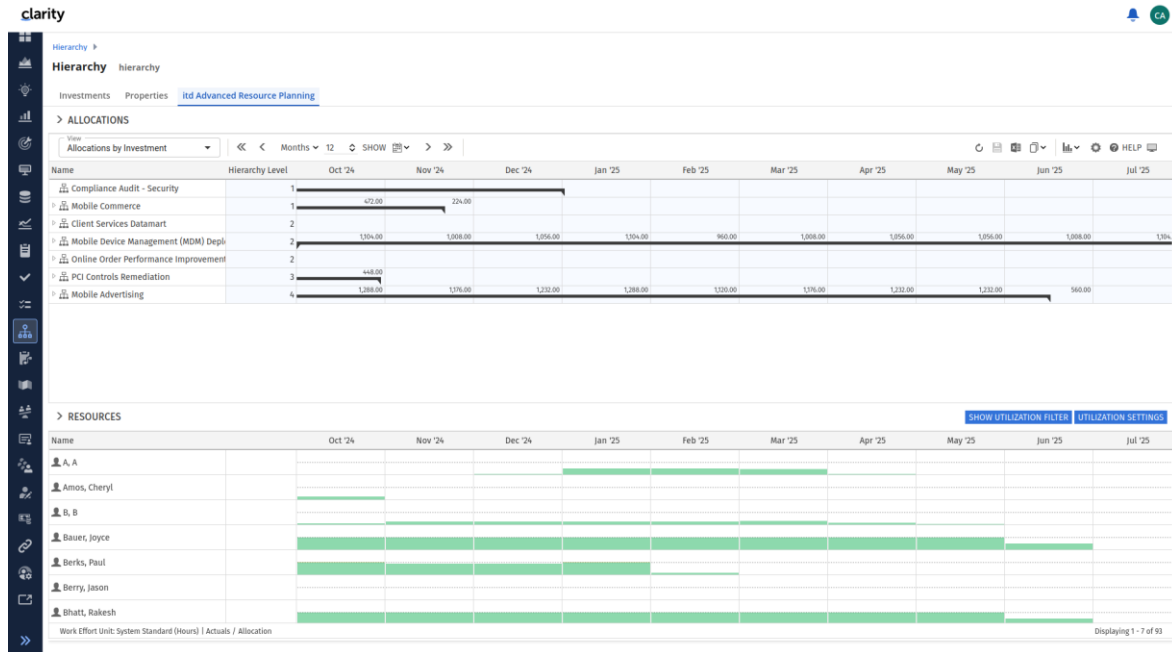
- > Any changes saved to the capacity scenario are restored when you or another user reopens the view for the same roadmap scenario, including changes not affecting linked roadmap items.

6.13 Hierarchy Mode

You can integrate itd Advanced Resource Planning in the **Hierarchies** module for hierarchies of the **Investment** type.

Please note that the hierarchy mode feature is only available after adding an itd Advanced Resource Planning channel to the hierarchy blueprint (see "9.7 Planning Modes" on page 152).

With the hierarchy mode, hierarchies offer an itd Advanced Resource Planning tab.



In this mode, the view is automatically filtered to display only investments included in the hierarchy. You can display and sort by the **Hierarchy Level** field, which displays an investment's hierarchy level. **Please note:** This mode is currently in the beta phase and is included as a preview. Further features are planned. We look forward to receiving feedback on this mode.

6.14 Toolbar Features

In **Allocations by Resource** mode, you have access to the following features in the toolbar.

6.14.1 View

The **View** menu at the top left displays the active view and allows switching views, saving the current view under a new name and editing your favorites and view sharing settings under **Manage**.

If you have the right to save changes to the current view, the **Save View** button is active. If it isn't, you can still save a copy of the current view.

You can find details of the features available here under "3 Views" on page 22.

6.14.2 Display Period

To the right of the **View** menu, you have access to various controls for changing the display period.

The slice period and number of slices are saved with the view and are synchronized with the **Timeslices** tab of the **Preferences** (see "6.15.2 Timeslices" on page 84)

Most options available there are also available in the toolbar, with the exception of fiscal periods as slice periods.

The start date won't be saved. The view automatically starts with the current date.

◀◀ **Previous Periods:** Here you switch back by the selected display period (e.g., 6 months).

◀ **Previous Period:** Here you switch back by the selected slice period (e.g., 1 month).

◇ **Slice Period and Number of Slices:** Select the slice period (e.g., months) and enter the number of slices in the field or use the buttons to raise or lower the number.

Then click on **Show** to update the view with the new slice settings.

📅 **Jump to a Certain Date:** Here you select the view's start date in a calendar view.

➤ **Next Period:** Here you switch ahead by the selected slice period (e.g., 1 month).

➤➤ **Next Periods:** Here you switch ahead by the selected display period (e.g., 6 months).

6.14.3 Refresh and Save

Use the **Refresh** and **Save** buttons to discard or save your changes.

🔄 **Refresh:** This will reload all data. If there are unsaved changes, you will be asked if you want to save first. Answering no will discard your changes.

💾 **Save:** This will save all unsaved changes you have made in the current view.

6.14.4 Export to Excel

You can export all rows and columns of the view to Microsoft Excel.

📄 **Export to Excel:** Here you export the view to Microsoft Excel.

The data will be exported as displayed, with the same filter settings and with all rows and columns that are currently displayed. For list entries with sub-elements, these sub-elements will only be exported if their parent item has been expanded, such that they are currently visible.


The Excel export is limited to a maximum of 15,000 rows and isn't available in scenario mode.


6.14.5 Scenario


The scenario mode is available with the **Scenario – Navigate** right if the menu hasn't been hidden by a Clarity PPM application administrator (see "9.12.2 Hide Toolbar Buttons" on page 160).

The Excel export isn't available in scenario mode.

See section "6.11 Scenario Comparison" on page 76 for details about the scenario mode.

 **Scenario:** Here you activate or deactivate the scenario mode. You can start with an existing scenario or create a new scenario.

 **Select or Deselect a Scenario:** In the **Scenario** menu, all scenarios you have access to are available for selection. Select a scenario to start the scenario comparison. Deselect the active scenario to end the scenario comparison.

 **New Scenario:** Here you create a new scenario. Enter the name for the new scenario in the toolbar. Click on the check mark to confirm or click on the X to cancel.


If you confirm, the new scenario will be directly selected and the comparison will be started.


 **Manage Scenarios:** Here you open the Clarity PPM default scenario manager view.

In this view, you can view, edit, add or delete scenarios. You can also set the **Current** and **Compare** flags, which won't affect itd Advanced Resource Planning.


6.14.6 Visualization

In **Allocations by Resource** mode, you have access to the following options under **Visualization**.


 **Visualization > Cell:** Here you toggle the display of trend arrows for deviations of the left cell value from the right one, see "6.3 Displaying Trend Arrows" on page 69.

 **Visualization > Gantt Bars:** Here you toggle the display of Gantt bars for team entries, see "6.9 Interactive Gantt Bars" on page 73.


6.14.7 Preferences

 **Preferences:** Here you configure other view settings such as display fields and filter fields, see "6.15 Preferences" on page 83. Preferences will be saved separately for each view.

6.14.8 Help

 **Help:** Here you can find information about itd Advanced Resource Planning and about asking for support. If you do, please always specify your version, which you can find under **Info**.

6.14.9 Fullscreen

 **Fullscreen:** In full screen mode, the Clarity PPM navigation will be hidden, such that more items can be displayed in itd Advanced Resource Planning.

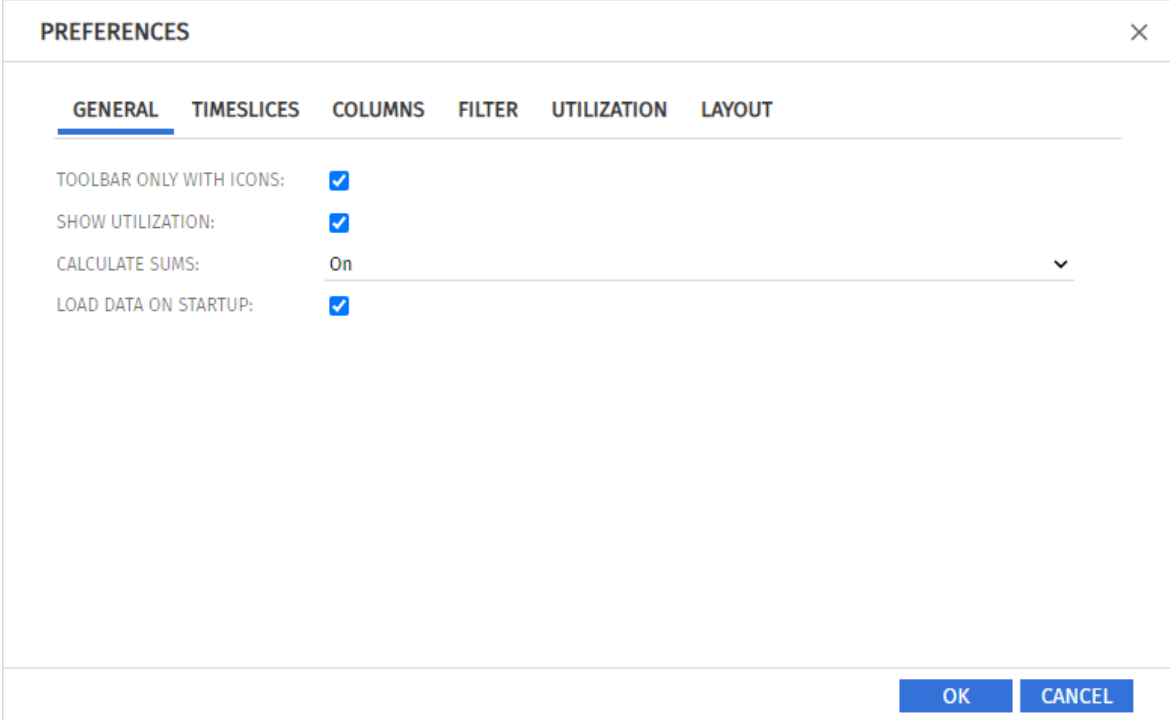
You can turn the navigation back on using the same button.

6.15 Preferences

Click on the **Preferences** button in the toolbar to edit view options.

6.15.1 General

Settings in the **General** tab control the display and behavior of the current view.



The screenshot shows a 'PREFERENCES' dialog box with a close button (X) in the top right corner. Below the title bar are six tabs: 'GENERAL', 'TIMESLICES', 'COLUMNS', 'FILTER', 'UTILIZATION', and 'LAYOUT'. The 'GENERAL' tab is selected and underlined. The settings listed are:

- TOOLBAR ONLY WITH ICONS:
- SHOW UTILIZATION:
- CALCULATE SUMS: On (with a dropdown arrow)
- LOAD DATA ON STARTUP:

At the bottom right of the dialog are two buttons: 'OK' and 'CANCEL'.

- > **Toolbar Only with Icons:** select this to hide the captions on buttons with icons, reducing the width of the toolbar.
- > **Show Utilization:** select this to display the utilization and/or capacity of roles, resources and teams per period (see "Cell Configuration" on page 89).
In **Allocations by Resource** mode only, with **Show Utilization**, global sums will also always be calculated for the **Allocation** and **Hard Allocation** columns, and the **Team has Allocation** filter (see page 33) will be available, even if **Calculate Sums** is set to **Off**.
With **Show Utilization** and **Calculate Sums** set to **On** or **Filtered**, sums are also displayed for the **Actuals** column. With **Filtered**, the allocation filter will also be applied to column sums and the utilization, such that they only include displayed allocations.
With **Calculate Sums** set to **On** or **Off**, the column sums and utilization are global.
The remaining capacity is always global and includes any allocations in the associated period.
- > **Calculate Sums:** select this to display totals of the workload fields (in the allocation modes: **Allocation**, **Hard Allocation** and **Actuals**) for all aggregation levels (in this mode: per resource, role and team).
You can choose between **On** (display global sums), **Filtered** (apply allocation filter to global sums) and **Off** (don't calculate sums). This setting affects the loading time, with **Off** being the fastest and **Filtered** the slowest method.
The **Team has Allocation** filter (see page 33) is only available when you set this to **On** or **Filtered**, or, in **Allocations by Resource** mode only, when **Show Utilization** is selected.
- > **Load Data on Startup:** specify here whether data is loaded directly when opening itd Advanced Resource Planning or only after clicking the filter button.

6.15.2 Timeslices

Settings in the **Timeslices** tab control the time axis scale and display period.

PREFERENCES
✕

GENERAL
TIMESLICES
COLUMNS
FILTER
UTILIZATION
LAYOUT

SLICE PERIOD:	Months	▼
FISCAL ENTITY:	Corporate	▼
FISCAL PERIOD:	Fiscal Weeks	▼
WORK EFFORT UNIT:	System Standard (Hours)	▼
SLICE COUNT:	12	⬆️⬇️⬆️
DECIMAL PLACES:	1	⬆️⬇️⬆️

OK
CANCEL

- > **Slice Period:** enter the planning period here. Possible settings are **Days, Weeks, Months, Quarters, Calendar Years** and, if configured, **Fiscal Period**.
The selection of available slice periods may be limited by Clarity PPM application administrators via the **itd AE Preferences** lookup (see "9.12.3 Restrict Time Slice Periods in the Preferences and in the Toolbar" on page 161). In this case, only options enabled via the associated lookup value will be available here and in the toolbar of itd Advanced Resource Planning.
- > **Fiscal Entity** and **Fiscal Period:** with the **Fiscal Period** setting, if multiple fiscal entities or periods have been defined in your Clarity PPM system, select the desired fiscal entity and period here.
- > **Work Effort Unit:** specify the unit for efforts here. By default, the **System Standard** will be applied. Alternatively, **Hours, Days** or full time equivalents (**FTE**) are available for selection here.
- > **Slice Count:** enter the amount of slices to be displayed.
- > **Decimal Places:** enter the desired number of decimals for entering and displaying assignments and allocations.

6.15.3 Columns

In the **Columns** tab, you select the columns to display in the list at the top left of the current view.

The screenshot shows a 'PREFERENCES' dialog box with a close button (X) in the top right corner. Below the title bar are several tabs: 'GENERAL', 'TIMESLICES', 'COLUMNS', 'FILTER', 'UTILIZATION', and 'LAYOUT'. The 'COLUMNS' tab is currently selected and highlighted with a blue underline. Underneath the tabs, the text 'COLUMNS:' is followed by two columns of fields. The left column contains a list of available fields: 'Actuals', 'Allocation', 'Default Allocation', 'Department OBS', 'Effective Role', 'Hard Allocation', 'ID', 'Location', 'Skills', and 'Staff OBS Unit'. The right column contains a list of selected fields: 'Start' and 'Finish'. Between the two columns are navigation arrows: a caret (^) above 'Start', a double right arrow (>>) to the left of 'Finish', a single right arrow (>) below 'Finish', a single left arrow (<) to the left of 'Start', a double left arrow (<<) to the right of 'Start', and a caret (v) below 'Start'. At the bottom right of the dialog box are two buttons: 'OK' and 'CANCEL'.

The following fields are always displayed in the first column:

- > **Name (resource/role/team, investment)**
- > **Primary role (resource), parent role (role):** for resources, the primary role is displayed next to the resource name. For roles, the parent role is displayed next to the role name, if applicable. You can turn this off via a feature toggle, see "9.12.5 Hide Primary/Parent Role Name" on page 161.

The following fields can be selected for display by default:

- > **Actuals, Allocation, Hard Allocation (resource/role/team, team entry):** worked, planned and booked hours per roles, resource and team (first level) / team entry (second level)
- > **Default Allocation (team entry):** editable; this applies in periods during the team entry where no allocation segments have been defined.
- > **Department OBS, Location (resource/team)**
- > **Effective Role (role):** parent role
- > **Effective Role (resource):** primary role
- > **Effective Role (team entry):** resource/role/team investment role
- > **ID (resource/role/team)**
- > **Skills (resource/role/team, role team entry):** editable; only available for role team entries when using skills hierarchy, see "9.12.6 Use Old Skills Hierarchy", page 162.
- > **Staff OBS Unit (team entry):** editable
- > **Start, Finish (team entry):** duration of all team entries displayed for a resource/role/team (first level) or duration of team entries (second level)

In scenario mode, you can change these fields for team entries in the scenario.

Members of the **ARP Admin** group may add to the selection and enable editing for other fields available for investments, investment sub-types, resources, roles, teams and team entries.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

See section "9.11 Configuring List and Filter Fields" on page 156 for details.

6.15.4 Filter

In the **Filter** tab, you select filter fields for the allocation filter. This lets you filter the current view by investments, resources/roles/teams and team entries.

Select the available filter fields for the left and right column of the assignment or allocation filter.

- > You can add filter fields to either column as well as determine their order via drag-and-drop:
 - Drag filter fields from the **Available Filters** list to either column to add them.
 - Drag filter fields from either column to the **Available Filters** list to remove them.
 - Drag filter fields between columns or within a column to change their position.
- > Alternatively, you can use the buttons to the left of a column list in order to...
 - ... add fields selected in its left neighbor list (right arrow).
 - ... remove fields selected in the list and add these fields to its left neighbor list (left arrow).
 - ... change the field order by moving selected fields up or down in the list (up/down arrow).

See section "4.8 Default Filter Fields for the Main View" on page 28 for details about the default filter fields.

Members of the **ARP Admin** group may add to the selection other fields available for investments, investment sub-types, resources, roles, teams and team entries.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

For details about the required procedure and supported fields and objects, see "9.11 Configuring List and Filter Fields" on page 156.

6.15.5 Utilization

Settings in the **Utilization** tab control the display and calculation of the utilization.

In **Allocations by Investment** mode, the utilization will be calculated from allocations.

- > The **Utilization Rate** controls the visualization of low or high utilization.
 - **Low Utilization at and Below:** upper utilization boundary below which resources, roles and teams will be marked as lowly utilized with a grey background in the respective period. Utilization between the thresholds for low utilization and utilization warning (e.g., above 80% to 100% as according to the screenshot) will be marked as optimal with a green background. This threshold value has no effect in the histogram.
 - **Utilization Warning Above:** lower utilization boundary above which resources, roles and teams will be marked as slightly over-utilized with a yellow background in the respective period. This applies as long as the utilization stays at or below the lower boundary for high utilization. In the histogram, workload is colored green up to this threshold value.
 - **High Utilization Above:** lower boundary above which resources, roles and teams will be marked as highly over-utilized with a red background in the respective period. In the histogram, workload is colored yellow up to this threshold value and red above.
 - **Team Entry or Resource Highlighting:** with the default setting **Team**, signal colors are based on the editable value displayed in the right half of team entry cells, **Allocation** or **Hard Allocation**, as proportion of their total capacity.
 With the **Resource** setting, resource cells will be colored based on the second resource value instead. This highlighting only supports **Allocation** and **Hard Allocation** as well. No colors are available when the **Capacity** or **Remaining** values are selected.
 You can find the actual selection of values in the **Layout** tab of your **Preferences**.
- > The **Capacity Filter** by **Staff OBS Unit** is applied to the capacity displayed for resources, roles and teams, such that only resources and teams with a selected **Department OBS** will be displayed as available and included in the capacity of associated roles.
 Additionally, you can filter the utilization. See "4.10 Utilization and Capacity Filters" on page 37.

- > The **Role Capacity Calculation** option is only available after activation by a CA PPM application administrator via the **itd AE Preferences** lookup settings (see "9.12.17 Include Sub-Roles in Role Capacity" on page 166). It controls the inclusion of sub-roles when calculating role capacities. Under **Calculate Capacity of Roles Based On**, select:
 - **All Role Owners (Standard)**: in the default setting, the capacity of a role is calculated based only on associated resources.
 - **All Role Owners and Sub-Roles**: select this option to include the capacities of sub-roles in the calculation of a role's capacity.

6.15.6 Layout

Settings in the **Layout** tab control the display values and the editable value for allocations in the right hand side allocation grid, the display values for resource utilization and capacity as well as sorting fields for resources and investments.

PREFERENCES [X]

GENERAL **TIMESLICES** **COLUMNS** **FILTER** **UTILIZATION** **LAYOUT**

FIELD TO DISPLAY ON THE LEFT PART OF THE CELL (READ ONLY): Actuals

FIELD TO DISPLAY ON THE RIGHT PART OF THE CELL (EDITABLE): Allocation

RESOURCE FIELD TO DISPLAY ON THE LEFT PART OF THE CELL: Allocation

RESOURCE FIELD TO DISPLAY ON THE RIGHT PART OF THE CELL: Remaining

TOLERANCE OF DEVIATION: 10.0%

SORTING

SORT RESOURCES BY: Resource - Name (Default)

SORT INVESTMENTS BY: Investment - Name (Default)

BROWSER SPECIFIC LAYOUT CONFIGURATION

USE COLORS WITH HIGHER CONTRAST:

OK CANCEL

- > **Cell Configuration:** here you configure the values used in the right hand side allocation grid as well as the values to display for the grid view of the utilization and capacity of roles, resources and teams (active with **Show Utilization** in the **General** tab, see "Show Utilization" on page 83).
 - **Field to Display on the Left Part of the Cell (Read Only):** Empty, Allocation, Hard Allocation, ETC, Actuals, Actuals + ETC, Requested or Capacity
 - **Field to Display on the Right Part of the Cell (Editable):** Allocation or Hard Allocation
The displayed utilization is always based on the editable value.
 - **Resource Field to Display on the Left Part of the Cell:** Capacity, Remaining, Allocation or Hard Allocation
 - **Resource Field to Display on the Right Part of the Cell:** Capacity, Remaining, Allocation or Hard Allocation
 - **Tolerance of Deviation:** Treshold value for displaying trend arrows to indicate a deviation of the left cell value from the right one when activated via **Visualization**.

The left hand side sum columns (**Allocation, Hard Allocation, Actuals**) can be displayed or hidden via the **Columns** tab (see "6.15.3 Columns" on page 85).

For aggregated totals of roles, resources and teams in the allocation grid and sum columns, set **Calculate Sums** to **On** or **Filtered** in the **General** tab (see "Calculate Sums" on page 83).

With **Show Utilization**, the allocation grid will display the resource fields selected here for roles, resources and teams instead.

Please also note the details of combining the **Show Utilization** and **Calculate Sums** settings in **Allocations by Resource** mode (see "Show Utilization" on page 83).

- > **Sorting:** In addition to the fields listed here, any custom fields without lookups are available. If you don't select the respective default field, items will be sorted by that field on the second level.
 - **Sort Resources by:** **Name** (Default) or **Primary Role**.

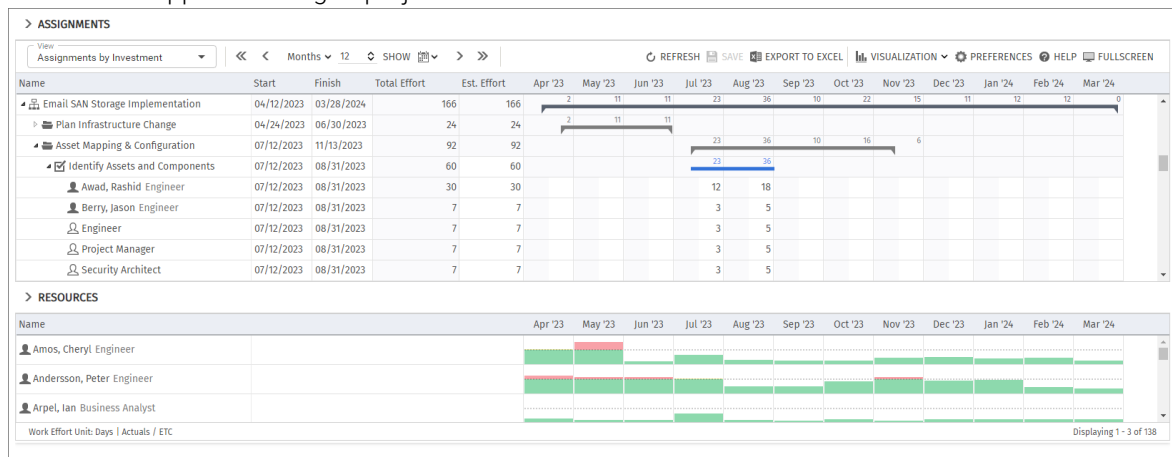
- **Sort Investments By: Investment Type** or **Name** (Default).
- > **Browser Specific Layout Configuration:** Here you can select to **Use Colors with Higher Contrast**. This setting will affect all your views in itd Advanced Resource Planning.

7 Assignments by Investment

The **Assignments by Investment** mode groups resource, role and team assignments by associated investments. Project or custom investment phases, tasks and milestones are also displayed.

The utilization and capacity of resources, roles and teams are displayed in a separate view in color-coded numbers or as graphical histograms.

This mode supports editing of project structures in an interactive Gantt chart.



7.1 Displayed Data

In **Assignments by Investment** mode, the following data will always be displayed:

- > Investments (custom types included)
- > Tasks of displayed projects and custom investment types
- > Assignments of resources, roles and teams
- > List of all resources, roles and teams, optionally with utilization and capacity (see "7.12 Utilization and Capacity" on page 108)
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25)

7.1.1 Displaying Phases, Milestones and Investment Hierarchies

Displaying of phases and milestones as well as of investment hierarchies is optional and can be toggled for each in the **General** tab of the **Preferences** (for investment hierarchies, also see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).

7.1.2 Displaying Assignments

Displaying assignments is also optional and can be toggled in the **Visualization** menu.

Without assignments, the view will load faster and display only investments, phases, tasks and milestones.

In this mode, the following features aren't available:

- > Resource, role, team, assignment and team entry filters
- > Assignment data
- > Calculated sums of **Estimated Effort**, **Actuals** und **Total Effort**
- > Editing the **Estimated Effort** of tasks and assignments
- > Resource, role and team list with utilization view

7.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select an optional display value for assignments per period (see "Field to Display on the Left Part of the Cell" on page 124).

- > **Field to Display on the Left Part of the Cell (optional):** Empty (no field), ETC, Actuals, Capacity or a custom time scaled monetary value. You can edit the latter, see "7.7 Editing Custom Time Scaled Monetary Values" on page 95.
- > **Field Displayed on the Right Part of the Cell (Assignment):** In **Assignments by Resource** mode, the assignment value is always displayed on the right. This is also the base of the displayed utilization and capacity (see "7.12 Utilization and Capacity" on page 108).

The configured values will be displayed when hovering over the assignment grid with the associated preferences setting (see "9.12.7 Show Grid Hints for by Investment Views" on page 162).

7.3 Displaying Trend Arrows

Via the **Visualization** menu, you can display trend arrows comparing the left and right cell values, see "Visualization > Cell" on page 115.

Name	Start	Finish	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24	Jan '25	Feb '25	Mar '25
Amos, Cheryl Developer	03/01/2024	10/29/2024	184.0 / 64.0	176.0 / 16.0	168.0 / 168.0	184.0 / 152.0	168.0 / 168.0	176.0 / 176.0	184.0 / 184.0	160.0 / 160.0	168.0 / 168.0
CRM Contact Center Dew	03/01/2024	07/26/2024	184.0	120.0	176.0	168.0	184.0	168.0	176.0	160.0	168.0
PCI Controls Remediation	07/01/2024	10/29/2024	184.0	176.0	160.0	168.0	32.0	168.0	176.0	160.0	168.0
Architect	11/01/2023	01/31/2026	1,472.0 / -10,753.3	1,408.0 / -6,559.8	1,344.0 / -1,273.1	1,472.0 / -5,732.2	1,344.0 / -3,942.3	1,408.0 / -1,222.7	1,472.0 / -1,051.6	1,280.0 / -523.7	1,344.0 / -284.4
BEA Weblogic 10.0 Applic	02/01/2024	01/31/2026	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,408.0	176.0	1,472.0
BYOD Management	09/01/2024	03/04/2025	1,472.0	1,408.0	1,344.0	168.0	1,472.0	184.0	1,344.0	168.0	1,408.0
Change Mgt for Internal	08/04/2024	11/21/2024	1,472.0	1,408.0	120.0	1,344.0	40.0	1,472.0	1,344.0	1,408.0	1,472.0
Credit Card Processing E	07/28/2024	07/28/2024	1,472.0	160.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
Credit Card Security Imp	07/01/2024	08/31/2024	1,472.0	2,555.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Data Warehouse Perform	06/01/2024	10/13/2024	1,472.0	80.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
Email SAN Storage Imple	07/01/2024	10/23/2024	1,472.0	144.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Financial Process Audit	07/01/2024	08/31/2024	1,472.0	144.0	1,408.0	2,816.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Headquarters	07/01/2024	07/31/2024	1,472.0	2,000.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
HR Claims Processing En	07/01/2024	08/31/2024	1,472.0	2,000.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
HR Online Benefits Secu	07/01/2024	11/30/2024	1,472.0	2,596.0	1,408.0	80.0	1,344.0	1,472.0	48.0	1,344.0	2,589.0
LATAM Research and Dev	10/01/2024	10/31/2024	1,472.0	1,408.0	1,344.0	1,472.0	2,001.0	1,344.0	1,408.0	1,472.0	1,344.0
Learning Portal Optimiz	07/01/2024	10/23/2024	1,472.0	144.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Meeting Reservation Por	08/01/2024	11/30/2025	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,472.0	184.0	1,344.0
Mobile Commerce	08/01/2024	11/20/2024	1,472.0	1,408.0	1,344.0	1,472.0	24.0	1,472.0	1,344.0	1,408.0	1,472.0
Mobile Device Managem	10/01/2024	09/30/2025	1,472.0	1,408.0	1,344.0	1,472.0	184.0	1,344.0	168.0	1,408.0	176.0
Mobile Identity Manager	08/01/2024	08/31/2024	1,472.0	1,408.0	2,345.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
Mobility Management Se	07/01/2024	01/08/2025	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,472.0	184.0	1,344.0
MyLearning Mobile Pilot	10/01/2024	02/05/2025	1,472.0	1,408.0	1,344.0	1,472.0	2,156.0	1,344.0	168.0	1,408.0	176.0
NA Research and Develo	11/01/2023	10/31/2025	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,408.0	176.0	184.0
Online to Offline Market	08/01/2024	11/14/2024	1,472.0	1,408.0	88.0	1,344.0	128.0	1,472.0	96.0	1,344.0	56.0

For instance, this can help you to easily compare actuals with the originally planned values.

Wherever both values are present and different, a little arrow at the left cell edge visualizes a negative or positive deviation of the left cell value from the right cell value.

In the **Layout** tab of the **Preferences**, you can set a threshold percentage for the minimal deviation to visualize via arrows see "Tolerance of Deviation" on page 124.

7.4 Displaying Investment Descriptions

Hover over an investment to display its description.

This feature may be deactivated via the **itd AE Preferences Lookup** by Clarity PPM application administrators (see "9.12.26 Hide Description Tooltips" on page 169).

7.5 Estimated Effort, Actuals and Total Effort

In the **Columns** tab of the **Preferences**, you can display or hide the **Estimated Effort**, **Actuals** and **Total Effort (Estimated + Actuals)** fields in the left hand side list (see "7.15.3 Columns" on page 119). The fields display the respective values for each assignment.

With **Calculate Sums** in the **General** tab of the **Preferences**, aggregated sums will also be displayed per task, phase and investment. Depending your selection, global sums (**On**) or **Filtered** sums (using the assignment filter) will be displayed (see "Calculate Sums" on page 116).

Only assignments of labor roles and resources as well as teams will be included in the sums.

Assignments of material, equipment and expense roles and resources won't be included.

For investments, you can display the sums calculated by Clarity PPM, as displayed in investment lists, instead of letting itd Advanced Resource Planning calculate the sums. To do this, select the **Use Clarity PPM's calculated investment sums** option in the **General** tab of the **Preferences**.

You can edit the **Estimated Effort** for assignments and tasks by entering a value (see "7.8 Editing List Fields" on page 96).

7.6 Editing Assignments

With **Show Gantt Bars for Assignments** turned off in the **Visualization** menu in the toolbar, you can edit the **ETC** per period that is displayed in the right half of each cell. Click on the right half of a cell to edit its value. The white background of a cell or its right half indicates that the value can be edited.

The left half of a cell displays **Actuals**, **Capacity** or any custom time scaled monetary value (see "Field to Display on the Left Part of the Cell" on page 124).

The configured values will be displayed when hovering over the assignment grid with the associated preferences setting (see "9.12.7 Show Grid Hints for by Investment Views" on page 162).

The **Estimated Effort** will automatically be updated with the sum of efforts per period you enter.

With **Calculate Sums** set to **On** or **Filtered** (see "**Calculate Sums**" on page 116), this will also update the associated task, phase (if any) and investment.

Entering workload outside the duration of an assignment will expand it accordingly. If required, parent objects will also be expanded, such that they include the assignment.

Alternatively, enter the total **Estimated Effort** for a task or an assignment in the associated column (see "7.8.4 Editing the Estimated Effort of Tasks and Assignments" on page 97).

With **Update Allocation** in the **General** tab of the **Preferences**, the new assignment values will also be entered as allocation for the same periods.

7.6.1 Copying Grid Cells via Drag and Drop

Via drag and drop, you can copy the value of a grid cell to neighboring cells, either horizontally, on the timeline, or vertically, to other resources, roles and teams:

- > To do this, click in the cell you wish to copy, hold the mouse button and drag in the desired direction.
- > Release the mouse button when you're done to copy the selected assignment value to all grid cells you touched while dragging.
- > **Save** your changes via the toolbar or **Refresh** without saving to revert your changes.

7.6.2 Display ETC sums outside of visible time range

Via **Columns** in the **Preferences**, you can display ETC sums for assignments that are before or after the visible period.

The **ETC before** and **ETC after** columns display the total hours before or after the visible period.

Click on a value in the **ETC before** column to shift the visible period back, such that the first ETC value in that direction is at the end of the new range .


Click on a value in the **ETC after** column to shift the visible period ahead, such that the first ETC value in that direction is at the start of the new range.

7.6.3 Display Options


Use the buttons and menus in the toolbar to select the start date and period and to specify how many periods to display at once. Display options for this view are also available in the **Timeslices** tab of the **Preferences** (see "7.15.2 Timeslices" on page 118).

7.6.4 Saving or Reverting Changes

Changes made to assignments won't be saved directly

 Your changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.


7.7 Editing Custom Time Scaled Monetary Values


In the left half of an assignment grid cell, depending on your settings, **Actuals**, **Capacity** or any custom time scaled monetary value will be displayed (see "Field to Display on the Left Part of the Cell" on page 124).


With **Show Gantt Bars for Assignments** turned off in the **Visualization** menu in the toolbar, you can edit custom time scaled monetary values by clicking in the left half of a cell displaying such a value.

The white background of a cell or its left half indicates that the value can be edited.

When displaying the associated column, that column will be updated on the assignment level and on all other levels summing up over the assignment.

 Changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

7.7.1 Integrating a Custom Time Scaled Monetary Value

Displaying and editing custom time scaled monetary values in the field list and grid requires adding the field via the field configuration. All other steps are optional.

Administration


- > Add the field via the field configuration (see "9.11 Configuring List and Filter Fields" on page 156).
 - Optionally, select the desired resource types (e.g., **Material**, **Equipment** and **Expense**).
 - This step requires membership in the **ARP Admin** group.
- > Optionally, via the **itd AE Preferences** lookup, restrict editing the **ETC**, such that **ETC** can't be entered for resource types for which you wish to enter monetary values only (e.g., **Material**, **Equipment** and **Expense**; see "9.12.24 Editable Resource Types" on page 169).
 - This step requires the global **Administration – Application Setup** right, which Clarity PPM application administrators have by default.

Configuration Options


- > Add the field as a visible column (see "7.15.3 Columns" on page 119).
- > Select it as a grid value (see "Field to Display on the Left Part of the Cell" on page 124).

7.8 Editing List Fields

Click table cells in the left hand side hierarchic list to edit the displayed investments, team entries, phases, tasks, milestones and assignments.

 Changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

7.8.1 Renaming Investments, Projects Phases, Tasks and Milestones

You can rename investments, phases, tasks and milestones. To do this, click on the associated row in the **Name** column and press [F2] or [Return]. Enter the desired name. Press [Return] to confirm or [Esc] to cancel. Alternatively, you can rename objects via the context menu.

7.8.2 Editing the IDs of Phases, Tasks and Milestones

If **Auto-numbering** is disabled for the **ID** field of tasks, you can edit the IDs of phases, tasks and milestones. To do this, click in the respective field and enter the desired ID.

You can't edit the IDs of investments, resources, roles and teams that are also displayed in this view.

7.8.3 Editing the Start, Finish and Duration of Objects

Via the list, you can edit the **Start**, **Finish** and **Duration** of non-project investments, phases, tasks and assignments. You can't change the **Start** and **Finish** of projects and custom investment types directly, as they are derived from the total duration of associated phases, tasks and milestones.

You can only change the **Start** and **Finish** of tasks and assignments while the status is **Not started** and no actuals exist for them. The status check can be turned off (see "9.12.25 Edit Start and Finish of Tasks and Assignments Regardless of Status on page 169).

> Changes of the **Start** and **Finish** will also affect parent and sub-objects as well as the distribution of assignments (see below).

By default, changing the **Start** of a phase or task will keep the Duration by shifting the Finish for the same number of work days according to the base calendar. This feature may be disabled by Clarity PPM application administrators via the itd AE Preferences lookup (see "9.12.27 Keep Task Duration" on page 170). In this case, changing the **Start** won't affect the **Finish**.

In any case, you can change the **Start** without the **Finish** by dragging the left edge of a phase or task bar in the interactive Gantt chart (see "7.11 Interactive Gantt Bars" on page 105).

> Alternatively, you can change the **Duration** of a phase or task. The duration is measured in work days within the actual duration of the phase or task according to the base calendar. The **Finish** date will be adjusted accordingly.

- Changing the duration of a phase will change its tasks proportionally (e.g., shrinking a phase from 8 to 6 weeks will reduce an associated task from 4 to 3 weeks).
- Likewise, changing the duration of a non-project investment or task (directly or indirectly via a phase) will change its assignments proportionally.
- Extending an assignment beyond the **Start** or **Finish** of the associated task or non-project investment will also extend the task or non-project investment, such that it includes the

assignment. Likewise, extending a task will extend the associated phase, if required. Extending a phase will extend the associated project, if required.

- Shortening has no effect on associated objects.
- Changing the duration of an assignment will redistribute the remaining effort over the working hours during the new remaining duration (between **Actuals Thru** and **Finish**) with the same proportions as before the change. The effort per period can then no longer be edited until the changes are applied or rejected.

With the **Update Allocation** in the **General** tab of the **Preferences**, the new assignment values will also be entered as allocation for the same periods.

7.8.4 Editing the Estimated Effort of Tasks and Assignments

You can edit the **Estimated Effort** of a task or assignment.

To do this, click into the **Est. Effort** field in the associated row and enter the desired value.

- > **Estimated Effort** entered for a task will be distributed proportionally to assigned resources, roles and teams with respect to the previous **Estimated Effort** values. For example, if you change the effort for a task from 40 to 80 hours, with one resource booked for 30 hours and another one for 10 hours, the first one will be set to 60 hours and the second one will be set to 20 hours. The effort per assignment and the effort per period can then no longer be edited until the changes are applied or reverted.
- > If you change the **Estimated Effort** for an assignment, directly or via the associated task, the new value will be evenly distributed over the working hours during the assignment's new remaining duration (between **Actuals Thru** and **Finish**), overwriting the previous planning. The effort per period can then no longer be edited until the changes are applied or reverted. With **Update Allocation** in the **General** tab of the **Preferences**, the new assignment values will also be entered as allocation for the same periods.

7.8.5 Editing a Custom Time Scaled Monetary Value for an Assignment

You can edit any custom time scaled monetary value displayed as a visible column for an assignment in very much the same fashion as for editing the **Estimated Effort**: click into the field in the associated row and enter the desired value.

- > Changing a custom time scaled monetary value for an assignment will distribute that value over the working hours during the assignment considering the **Loading Pattern**, overwriting the previous planning.

7.8.6 Editing the Loading Pattern of Project Task Assignments

For project task assignments, you can edit the **Loading Pattern**. Click in the field to select a value.

7.8.7 Editing the Staff OBS Unit of Team Entries

You can edit the **Staff OBS Unit** Field of team entries in the list. To do this, click in the field.

Click on the magnifier icon to select an OBS unit or the trashcan icon to clear the field.

7.8.8 Editing the Investment Status

For investments, you can edit the **Investment Status**. Click in the field to select a value.

7.8.9 Editing Additional Fields

You can edit additional list fields made editable by members of the **ARP Admin** group (see "9.11 Configuring List and Filter Fields" on page 156).

7.8.10 Copying List Fields

You can copy editable field values up or down via drag-and-drop. This feature supports lookup fields and respects restrictions on column values.

Copying field values this way requires the start and target row to be of the same type, i.e., investment, phase/task, milestone, or assignment.

For investments, the investment type must also be the same, e.g., project or idea. All custom investment types are considered to be the same type for this feature.

7.9 Context Menu for Displayed Objects

Hover over an investment, phase, task, milestone or assignment and click on the three dots that are displayed to open the associated context menu. The following sections describe the default options available here. Members of the **ARP Admin** group can hide default options and add additional custom options (see "9.10 Defining Actions" on page 154).

7.9.1 Open Properties

The **Open properties** option is available for investments, phases, tasks, milestones and assignments. Here you open the associated Clarity PPM detail view.

- > Investment properties open in a new browser tab.
- > Phase, task, milestone and assignment properties open on top of the current tab.

7.9.2 Create Task

The **Create Task** option is available in the context menu for projects, phases and tasks without assignments. The latter will become phases when a task is created for them. For details about this feature, see the "7.10.1 Creating Tasks, Milestones and Phases" section on page 102.

7.9.3 Autoschedule

The **Autoschedule** option is available in the context menu for projects and applies the Clarity PPM standard process for autoscheduling a project.

Autoschedule a project as follows:

- > Hover over the desired project.
- > Click on the three dots displayed next to the project's name.
- > Select the **Autoschedule** option to open the associated overlay window:

PROJECT - AUTOSCHEDULE	
PROJECT NAME:	New Website
PROJECT START:	02/01/2020
PROJECT FINISH:	05/14/2020
AUTOSCHEDULE DATE:	
IGNORE TASKS STARTING BEFORE:	
IGNORE TASKS STARTING AFTER:	
RESOURCE CONSTRAINTS:	<input checked="" type="checkbox"/>
SCHEDULE FROM FINISH DATE:	<input type="checkbox"/>
SUBNETS:	<input type="checkbox"/>
HONOR CONSTRAINTS ON STARTED TASKS:	<input type="checkbox"/>
SCHEDULE ASSIGNMENTS ON EXCLUDED TASKS:	<input type="checkbox"/>
START SUCCESSORS ON NEXT DAY:	<input type="checkbox"/>

- > This offers exactly the same options as the autoscheduler for the **PPM Gantt** view, except for the **Publish after Scheduling** option, which is not available in itd Advanced Resource Planning. When you confirm by clicking OK, autoscheduling of the project will instantly be initiated. Please refer to the Clarity PPM documentation for information about the autoscheduler.

7.9.4 Allocate From Estimates

The **Allocate From Estimates** option is available for investments and task assignments. For each team entry of the selected investment or for the team entry of the selected assignment, this will enter the sum of the estimated effort entered for associated assignments as allocation. This action will be directly applied without further confirmation.

7.9.5 Indent or Outdent Task

The **Indent Task** and **Outdent Task** options are available for phases, tasks and milestones. Here you include them in a preceding task or phase or remove them from one. See section "7.10.3 Indenting and Outdenting Tasks" on page 102 for details about this.

7.9.6 Delete

The **Delete** option is available for tasks and assignments without actuals as well as for milestones. You will be asked to confirm before anything is deleted. You can only delete phases after outdenting or deleting any included tasks and milestones.

7.9.7 Unassign to Effective Role

The **Unassign to Effective Role** option is available for assignments of resources and teams without actuals. The assignment will be reset to its effective role. If that role already as a team entry in the investment, a new team entry will be created for a copy of the role.

7.9.8 Task Dependencies

The **Task Dependencies** option is available for tasks and milestones of projects. This will open a window where you can see and edit dependencies between tasks and milestones. See section "7.10.5 Creating and Editing Task and Milestone Dependencies" on page 103 for details.

7.9.9 Remove Lock

The **Remove lock** option is available for projects locked due to changes made by users in itd Advanced Resource Planning. Every user may unlock projects via the context menu that were locked due to their own changes made in itd Advanced Resource Planning. Members of the **ARP Admin** group may unlock any projects via the context menu that were locked due to changes made by any user in itd Advanced Resource Planning. Projects locked due to changes made outside of itd Advanced Resource Planning can only be unlocked via the associated button in the project's properties.

7.9.10 Expand All

The **Expand all** option is available for investments and phases. Select this to expand the full sub-structure of the selected investment or phase.

7.9.11 Rename

The **Rename** option is available for investments, phases, tasks and milestones. Press [Return] to confirm or [Esc] to cancel. The change will only be applied when saving via the toolbar. Refresh without saving to undo.

7.9.12 Show candidates (by Role, OBS and Skills)

The **Show candidates (by Role, OBS and Skills)** option is available for role assignments.

This will apply the following filters to the **Resources** list, adding missing filter fields automatically:

- > **Primary Role** will be the selected role.
- > **Resource OBS Unit** will be the **Staff OBS Unit** of the associated team entry, if selected.
- > **Skills** will be the skills selected for the associated team entry, if any.
- > **Skill Matching** will require to match all skills (alternatively, you can require to match at least one).

7.9.13 Show Investment Team

The **Show Investment Team** option is available for investments. This filters the resource list by the selected investment, such that only that investment's team members are displayed.

7.10 Working with Tasks, Milestones and Phases

The following sections describe creating and editing tasks, milestones and phases for a project or custom investment type.

7.10.1 Creating Tasks, Milestones and Phases

Create a task for an investment, phase or task as follows. Creating a task for another task makes the latter a phase. Please note that this is only possible for tasks without assignments.

- > Hover over the desired investment or phase.
- > Click on the three dots displayed next to the name of the investment or phase.
- > Select the **Create Task** option to insert a new row for the new task.
- > In the menu at the left edge of the new task row, select the desired task type: **Task**, **Key task**, **Milestone** or **Key Milestone**.
- > Enter the desired **Name**, **Start**, **Finish** and/or **Duration**.
- > If **Auto-numbering** is disabled for the **ID** field of tasks, you can enter the desired ID.
- > Click on the **Save** button in the toolbar to confirm. To cancel, click on the **Refresh** button in the toolbar and select **No** when asked whether pending changes should be saved.

7.10.2 Working with Phases

You can turn any task without assignments into a phase by creating another task for it (see "7.10.1 Creating Tasks, Milestones and Phases" on page 102) or by indenting a task, milestone or phase following it (see the following section "7.10.3 Indenting and Outdenting Tasks").

After converting a task into a phase, you can create additional tasks and milestones for it via the associated context menu (see "7.10.1 Creating Tasks, Milestones and Phases" on page 102). You can also add existing tasks, milestones and phases to a phase via drag-and-drop (see "7.10.4 Moving and Copying Tasks, Milestones and Phases" on page 103) or by indenting them (see the following section "7.10.3 Indenting and Outdenting Tasks").

The depth of phases and sub-phases is unlimited.

Outdenting or deleting all associated tasks, milestones and phases will turn a phase back into a task.

7.10.3 Indenting and Outdenting Tasks, Milestones and Phases

You can indent a task, milestone or phase under a phase or under another task without assignments, making the latter a phase. Outdent or delete all tasks, milestones and phases belonging to a phase to make that phase a task again. Indent or outdent via the context menu in the left hand side hierarchic list view. To open the context menu, hover over the desired task or milestone and click on the three dots, then select the desired action:

- > **Indent Task** following a phase or another task.
- > **Outdent Task** moves an indented task, milestone or phase up one level. Outdent all tasks, milestones and phases belonging to a phase to make it a task again.

You can also change the structure level of a task, milestone or phase by adding it to an existing phase or by removing it from a phase via drag-and-drop (see "7.10.4 Moving and Copying Tasks, Milestones and Phases" on page 103).

The indenting and outdenting of tasks will be directly applied without confirmation.

7.10.4 Moving and Copying Tasks, Milestones and Phases

You can modify the order and hierarchy of tasks, milestones and phases via drag-and-drop. Changes will instantly be applied without confirmation.

Hold the [Ctrl] key while executing the listed steps to copy the selected object instead of moving it.

This is only possible for objects whose ID doesn't already exist in the target project or is empty.

Phases will be copied with their full sub-structure.

Assignments will also be copied. Please note that this may require creating team entries for assigned resources, roles and teams. In this case, you will need the **Resource – Soft Book** right in addition to the **Project – Edit** right to perform this operation.

- > To this end, click on the icon of the object you want to move, hold the mouse button and drag the object to its target position.
- > Drag up to insert before or down to insert after the target object.
- > Release the mouse button to perform the action.

7.10.5 Creating and Editing Task and Milestone Dependencies

Task and Milestone Dependencies are only supported in projects.

Satisfied dependencies between tasks and milestones will be displayed in the Gantt chart as blue arrows. Violated dependencies will be displayed as red arrows. You can open a list view of a task's or milestone's dependencies, in which you can also create new dependencies, as follows.

- > Double-click on a dependency in the Gantt chart OR
- > Hover over a task or milestone in the left hand side hierarchic list, click on the three dots and select the **Task Dependencies** option from the associated context menu.

Either of these actions will open the **Task Dependencies** view for the selected task or milestone:

TASK DEPENDENCIES - RISK RESPONSE AND MITIGATION PLAN ✕

CREATE NEW DEPENDENCY

DEPENDENT TASK:	LAG:
▼	0.00
RELATIONSHIP:	LAG TYPE:
Predecessor ▼	Daily ▼
TYPE:	
Finish-Start ▼	

📄 SAVE
+
ADD
✕
DELETE
☰
DEPENDENCY LIST

Dependent Task	Dependent Project	Relationship	Type	Lag	Lag Type
Define Resource Plan	Office Upgrade	Predecessor	Start-Start	0.00	Daily
Identify Infrastructure Requ...	Office Upgrade	Successor	Finish-Start	0.00	Daily
Complete Project Plan	Office Upgrade	Successor	Finish-Start	0.00	Daily

OK
CANCEL

- > To create a new dependency, enter parameters in the upper half of the view under **Create New Dependency**. Enter a daily or percentual **Lag** to require a delay between the predecessor and its successor. If you enter a percentual lag, specify the duration of the required delay as a percentage of the predecessor's duration. Click on **Add** in the toolbar in the middle to create the dependency.

With the **Move successors on dependency creation** option selected in the **General** tab of the **Preferences**, new dependencies that are initially violated will automatically be satisfied by moving the selected successor and any of its own successors ahead. Please note that existing violated dependencies between the successor and its own successors won't be satisfied in this process.

Also, if the selected successor or any of its successors has actuals or the **Exclude from Autoscheduling** property, that task or milestone and its successors won't be moved.

- > Select fields in the list in the lower half of the view to edit them.
- > Select a dependency in the list in the lower half of the view and click **Delete** to delete it.
- > Select a dependency in the list in the lower half of the view and click **Open** to open its detail view.

7.11 Interactive Gantt Bars

In **Assignments by Investment** mode, you can toggle the display of interactive Gantt bars separately for investments, tasks, phases and milestones as well as assignments via the **Visualization** menu in the toolbar. When Gantt bars for tasks and milestones are turned on, their dependencies will also be displayed. Additionally, you can highlight critical paths for projects via the **Visualization** menu.

7.11.1 Gantt Bars for Investments

Gantt bars for investments will be displayed when selecting **Show Gantt Bars for Investments** in the **Visualization** menu in the toolbar.

Via drag and drop, you can shift and resize Gantt bars for non-project investments, but not for projects and custom investment types.

Changes made to non-project investments will also be applied to all associated assignments, even if they aren't displayed. Shifting a non-project investment will shift all associated assignments accordingly. Resizing a non-project investment will resize all associated assignments proportionally (e.g., reducing an investment's duration from 8 to 6 weeks will reduce an associated assignment from 4 weeks to 3 weeks).

This will also redistribute the ETC values displayed per period for all affected assignments over the capacity of the respective resource, role or team during the assignment's new duration, with the same proportions as before the change.

The **Start** and **Finish** of projects and custom investment types depend on the associated phase, task and milestone dates and may not be modified directly.

7.11.2 Gantt Bars for Tasks and Phases

Gantt bars for tasks and phases, as well as diamond shapes for milestones and dependencies between tasks and milestones will be displayed when selecting **Show Gantt Bars for Tasks and Phases** in the **Visualization** menu in the toolbar.

In **Assignments by Investment** mode, you can shift and resize Gantt bars for tasks and phases via drag and drop. You can also shift milestones via drag-and-drop.

You can only change the **Start** and **Finish** of tasks while the status is **Not started** and no actuals exist for them. The status check can be turned off (see "9.12.25 Edit Start and Finish of Tasks and Assignments Regardless of Status on page 169).

Shifting or resizing a phase will shift or resize associated tasks and milestones accordingly. (e.g., reducing an phase's duration from 8 to 6 weeks will reduce an associated task from 4 weeks to 3 weeks). In the same way, shifting or resizing a task directly or indirectly via a phase will affect associated assignments proportionally.

This will also redistribute the ETC values displayed per period for all affected assignments over the capacity of the respective resource, role or team during the assignment's new duration, with the same proportions as before the change.

Shifting or extending a task or milestone beyond the **Start** or **Finish** of the associated phase will also extend the phase, such that it includes the task or milestone. Likewise, extending a phase will extend the associated project, if required.

Shortening a task or phase has no effects on their parent objects.

7.11.3 Gantt Bars for Assignments

Gantt bars for assignments will be displayed when selecting **Show Gantt Bars for Assignments** in the **Visualization** menu in the toolbar.

While Gantt bars are displayed for assignments, you can't edit the ETC values per period directly. You can shift and resize assignments via drag and drop of their Gantt bars.

You can only change the **Start** and **Finish** of assignments while the status is **Not started** and no actuals exist for them. The status check can be turned off (see "9.12.25 Edit Start and Finish of Tasks and Assignments Regardless of Status on page 169).

Changing an assignment this way will redistribute the ETC displayed per period for the respective assignment over the capacity of the assigned resource, role or team during the new remaining duration (between **Actuals Thru** and **Finish**) with the same proportions as before the change.

Shifting or extending an assignment beyond the **Start** or **Finish** of the associated task or non-project investment will also extend the task or investment, such that it includes the assignment. When a task is extended this way, the change will also be applied to the associated phase and project, if required to include the new task duration.

Reducing the durations of assignments won't reduce the duration of the associated task, phase or investment.

7.11.4 Creating and Editing Dependencies


You can create dependencies between tasks and milestones by clicking on the desired predecessor and, holding the mouse button, dragging the dependency onto the desired successor.

When you create a dependency like this, depending on your **Preferences** and the properties of the selected successor and any own successors it may have, those may be moved automatically in order to satisfy the new dependency (see "7.10.5 Creating and Editing Task and Milestone Dependencies" on page 103).

Double-click on an existing dependency's arrow to open that dependency for editing.

7.11.5 Dependencies from Tasks and Milestones Not Currently Displayed

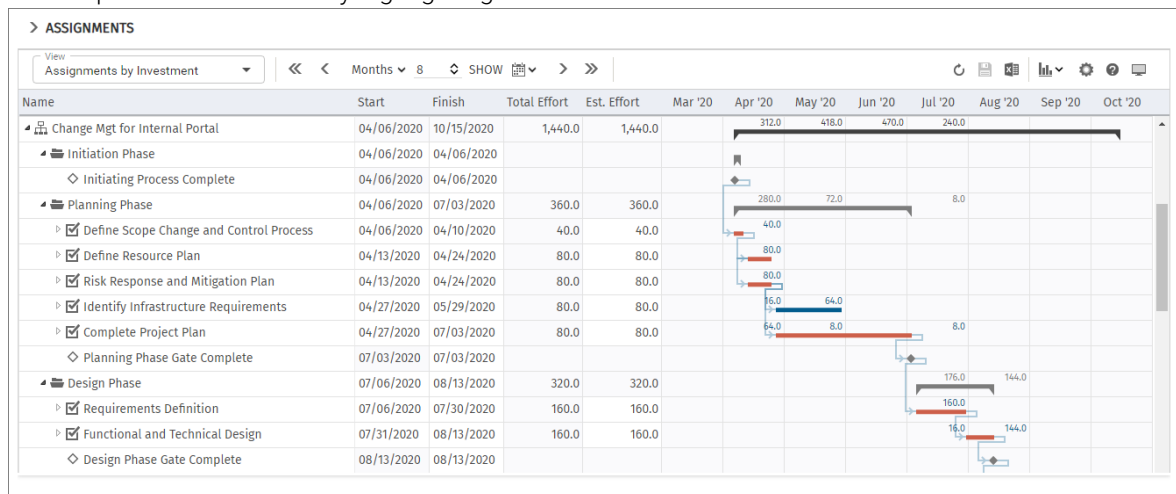
A special icon indicates dependencies from tasks and milestones that aren't currently displayed.

 This icon next to a task or milestone indicates it has at least one dependency connecting it with another task or milestone not currently displayed. The icon will be red when such a dependency is violated. Click on the icon to display the associated projects and tasks or milestones.

7.11.6 Displaying Critical Paths for Projects

In the **Visualization** menu, you can toggle display of critical paths for projects.


Critical paths are indicated by highlighting the associated tasks in red:





7.11.7 Saving or Reverting Changes

New dependencies between tasks and milestones of projects will be directly created without confirmation.

Changes made to Gantt bars won't be saved directly

 Your changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

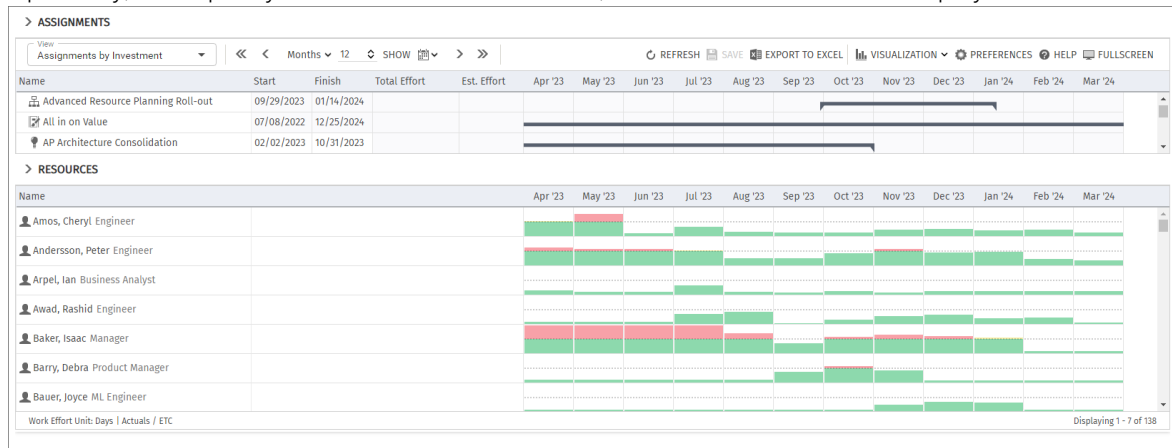
7.12 Utilization and Capacity

The lower section of the view displays all resources, roles and teams for which you have access rights by default. Roles are displayed at the bottom of the list.

You can select resource fields to display in the **Utilization – Columns** tab of your **Preferences** (see "7.15.4 Utilization – Columns" on page 120).

You can filter this view (see "7.12.5 Filtering the View" on page 109).

Optionally, the capacity and utilization of resources, roles and teams are also displayed.



7.12.1 Visualization: Color-Coded Grid or Histogram

There are two display modes available for the utilization. In both modes, the displayed utilization is based on remaining estimated effort from assignments.

- > With **Show Utilization** selected in the **General** tab of the **Preferences**, the total utilization and remaining capacity of the displayed resources, roles and teams will be displayed per period in a grid of numbers that are color coded to display low or high utilization. Cell colors indicate low (white), optimal (green), high (yellow) or very high (red) utilization of a resource, role or team in a period (see "7.15.7 Utilization" on page 123).

- > Alternatively, via **Show Histogram** in the **Visualization** menu in the toolbar (regardless of **Show Utilization**), you can display the utilization and capacity as a histogram chart. The chart displays the utilization as a colored stack which is matched against a dotted capacity line.

As in the grid view, signal colors indicate optimal utilization or overload.

However, only the utilization warning and high utilization thresholds take effect in the histogram:

- The dotted horizontal line displays the resource, role or team capacity.
- Workload below the utilization warning threshold is colored green.
- Further workload between the utilization and high utilization thresholds is colored yellow.
- Further workload above the high utilization threshold is colored red.
- The low utilization threshold has no effect here (see "7.15.7 Utilization" on page 123).

Please note that in single investment mode, the histogram can also be set up to compare the **Total Effort** and the **Allocation** or **Hard Allocation** (see "7.12.11 Assignments and Allocations in Single Investment Mode" on page 111).

7.12.2 Utilization and Remaining Capacity

In this mode, the displayed utilization and remaining capacity are always global, based on the remaining estimated effort from all assignments in the respective period, and unaffected by your assignment filter.

7.12.3 Displaying Actuals

Optionally, the workload and remaining capacity for the current period include actuals already entered for that period (see "9.12.22 Consider Actuals for Remaining Capacity" on page 168).

When displayed in the grid view, actuals aren't included in the utilization but deducted from the remaining capacity. When displayed in the histogram, they are included in the utilization.

7.12.4 Displaying Utilization and Capacity Details

Hover over a grid cell or histogram segment to display the associated values. Click on a grid cell or histogram segment to display the associated investments. Click on a column header to filter the list. Select the columns to display in your preferences, see "7.15.4 Utilization – Columns" on page 120.

7.12.5 Filtering the View

Without a filter, any resources, roles and teams for which you have access rights will be displayed.

Roles are listed at the bottom of the list. Section "4.4 Filtering the Resource, Role and Team List" on page 27 describes how you add filter conditions for resources, roles and teams.

Use the **Show Investment Team** quick filter in an investment's context menu to only display associated team members.

7.12.6 Selecting a Resource, Role or Team

When you select a resource, role or team assignment in the left hand side hierarchic list in the upper view section, the assigned resource, role or team will also be selected in the utilization view.


7.12.7 Assigning a Resource, Role or Team via Drag-and-Drop

Drag a resource, role or team from the utilization view onto a task or non-project investment to create a new assignment.


Hold the [Ctrl] key while dragging a resource, role or team to an existing assignment of another resource, role or team to duplicate that assignment in the same task or non-project investment.

For projects, the **Assignment Pool** settings are applied when creating new assignments:

- > With the **Team only** setting, you can add only project members as resources, roles and teams.
- > With the **Resource Pool** setting, you can add any available resources, roles and teams.

 Team entries and assignments will only be created when saving via the toolbar. You can easily identify unsaved assignments via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.


7.12.8 Replacing a Resource, Role or Team via Drag-and-Drop


To replace the resource, role or team in an existing assignment, drag the replacement resource, role or team from the utilization view onto that assignment.


For projects, the **Assignment Pool** settings are applied when creating new assignments:

- > With the **Team only** setting, you can add only project members as resources, roles and teams.
- > With the **Resource Pool** setting, you can add any available resources, roles and teams.

You can deactivate the replacement of roles in assignments (see "9.12.29 Disable Role Replacement for Assignments" on page 170).

 Team entries and assignments will only be created when saving via the toolbar. You can easily identify unsaved assignments via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

7.12.9 Copying Assignments

You can copy any assignment by dragging a resource, role or team displayed in the hierarchic list onto any other project task or non project investment object.

This has the advantage that some information will be copied from the original assignment and associated team entry:

- > Assignment: Assignment Role, Loading Pattern
- > Team: Staff OBS Unit, Investment Role, Teamname


Team entry fields will only be copied if a new team entry is created.

When you copy a resource assignment to an investment in which the selected resource already has a team entry, the existing team entry will be used.


When you copy a role assignment from one investment to another one in which the selected role already has a team entry, you will be asked whether to create a new team entry for the role or whether to use the existing team entry. This is only possible for roles; resources may not have more than one team entry in any investment.

For projects, the **Assignment Pool** settings are applied when creating new assignments:

- > With the **Team only** setting, you can add only project members as resources, roles and teams.
- > With the **Resource Pool** setting, you can add any available resources, roles and teams.

 Team entries and assignments will only be created when saving via the toolbar. You can easily identify unsaved assignments via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.


7.12.10 Creating Multi-Role Assignments

In **Assignments by Investment** mode, you can assign roles to tasks and non-project investments multiple time by creating an indexed copy of the role, (e.g., "Architect" becomes "Architect (2)").


- > Drag the role from the resource list onto a task or non-project investment.
- > If the role already has an assignment in the task or investment, you will be prompted to create a new team entry for a copy of the role with a name of your choice, which will be the role's original name with an index by default.

You can deactivate this dialog, such that a multiple role allocation will automatically create a new team entry for a copy of the role (see "9.12.28 Automatically Create New Team Entries for Roles" on page 170).

- > Team entries created this way will be retained even if all associated assignments are deleted.
- > Dragging a role onto an investment where it already has a team entry will prompt you to select an existing team entry for the new assignment or to create a new team entry for the role. You may only select existing team entries without assignments for the task or non-project investment.

 Team entries and assignments will only be created when saving via the toolbar. You can easily identify unsaved assignments via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

7.12.11 Assignments and Allocations in Single Investment Mode

In single investment mode, you can graphically compare the total estimated effort (Actuals + ETC) of assignments to the planned or hard allocation of the associated team entries.

Select the value to compare in the **Layout** tab of the **Preferences** (see "Histogram Comparison (Single Investment Mode Only)" on page 124). Hover over the histogram to display units and figures.

Please note: As opposed to the default mode of the histogram which shows the global utilization of all displayed resources, roles and teams, when comparing assignments with the planned or hard allocation, only values entered for the current investment will be displayed.

Use the **Team – Team only** filter to hide resources, roles and teams that have no team entries in the current investment

Use the context menu for the investment or for any assignment to **Allocate from Estimates**.

For each team entry of the selected investment or for the team entry of the selected assignment, this will enter the sum of the estimated effort entered for associated assignments as allocation.

This action will be instantly applied without further confirmation.

7.12.12 Open Detailed View (Additional Module Not Available by Default)

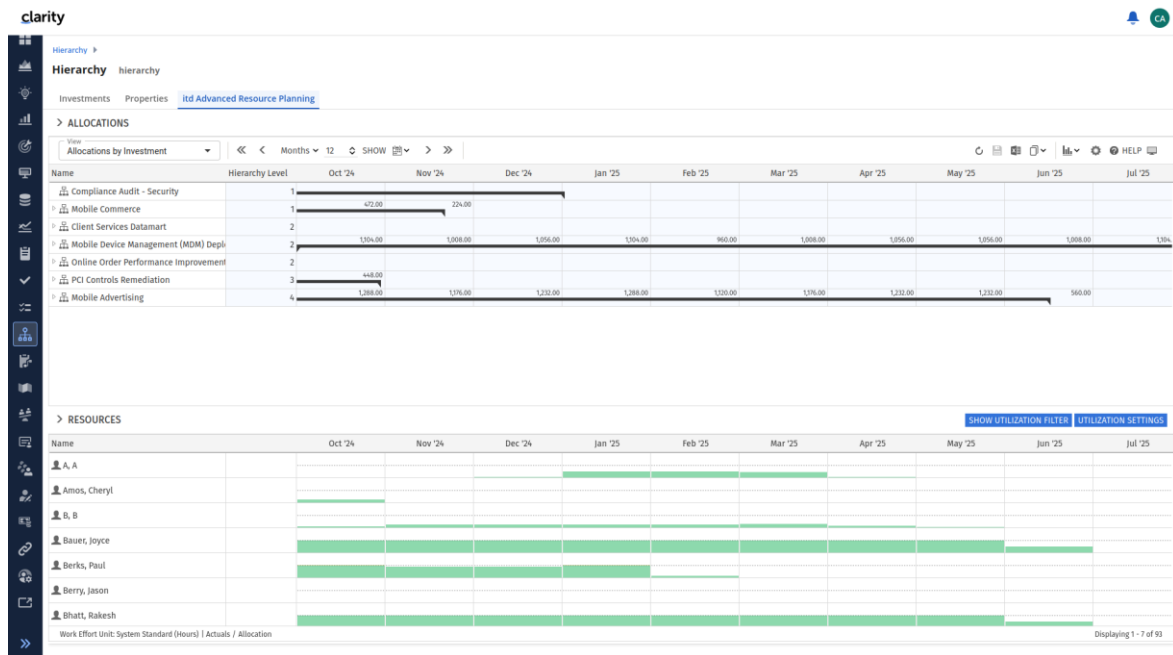
Click on the **Detailed view** button in the toolbar to open an overview of tasks and assignments of resources displayed in the associated list as selected via filters.

7.13 Hierarchy Mode

You can integrate itd Advanced Resource Planning in the **Hierarchies** module for hierarchies of the **Investment** type.

Please note that the hierarchy mode feature is only available after adding an itd Advanced Resource Planning channel to the hierarchy blueprint (see "9.7 Planning Modes" on page 152).

With the hierarchy mode, hierarchies offer an itd Advanced Resource Planning tab.



In this mode, the view is automatically filtered to display only investments included in the hierarchy. You can display and sort by the **Hierarchy Level** field, which displays an investment's hierarchy level. **Please note:** This mode is currently in the beta phase and is included as a preview. Further features are planned. We look forward to receiving feedback on this mode.

7.14 Toolbar Features

In **Assignments by Investment** mode, you have access to the following features in the toolbar.

7.14.1 View

The **View** menu at the top left displays the active view and allows switching views, saving the current view under a new name and editing your favorites and view sharing settings under **Manage**.

If you have the right to save changes to the current view, the **Save View** button is active. If it isn't, you can still save a copy of the current view.

You can find details of the features available here under "3 Views" on page 22.

7.14.2 Display Period

To the right of the **View** menu, you have access to various controls for changing the display period.

The slice period and number of slices are saved with the view and are synchronized with the **Timeslices** tab of the **Preferences** (see "7.15.2 Timeslices" on page 118).

Most options available there are also available in the toolbar, with the exception of fiscal periods as slice periods.

The start date won't be saved. The view automatically starts with the current date.

◀◀ **Previous Periods:** Here you switch back by the selected display period (e.g., 6 months).

◀ **Previous Period:** Here you switch back by the selected slice period (e.g., 1 month).

◇ **Slice Period and Number of Slices:** Select the slice period (e.g., months) and enter the number of slices in the field or use the buttons to raise or lower the number.

Then click on **Show** to update the view with the new slice settings.

📅 **Jump to a Certain Date:** Here you select the view's start date in a calendar view.

➤ **Next Period:** Here you switch ahead by the selected slice period (e.g., 1 month).

➤➤ **Next Periods:** Here you switch ahead by the selected display period (e.g., 6 months).

7.14.3 Refresh and Save

Use the **Refresh** and **Save** buttons to discard or save your changes.

🔄 **Refresh:** This will reload all data. If there are unsaved changes, you will be asked if you want to save first. Answering no will discard your changes.

💾 **Save:** This will save all unsaved changes you have made in the current view.

7.14.4 Export to Excel

You can export all rows and columns of the upper view to Microsoft Excel.

📄 **Export to Excel:** Here you export the upper view to Microsoft Excel.

The data will be exported as displayed, with the same filter settings and with all rows and columns that are currently displayed. For list entries with sub-elements, these sub-elements will only be exported if their parent item has been expanded, such that they are currently visible.


The Excel export is limited to a maximum of 15,000 rows.


7.14.5 Visualization

In **Assignments by Investment** mode, you have access to the following options under **Visualization**.

Visualization

- Show Assignments:** Here you toggle displaying of assignments.
Without assignments, the view will load faster and display only investments, phases, tasks and milestones. See section "7.1.2 Displaying Assignments" on page 91 for details.
- Show Critical Path:** Here you toggle displaying of critical paths for projects in the Gantt chart.
See section "7.11.6 Displaying Critical Paths for Projects" on page 107 for details.


 **Visualization > Cell:** Here you toggle the display of trend arrows for deviations of the left cell value from the right one, see "7.3 Displaying Trend Arrows" on page 92.

 **Visualization > Gantt Bars:** Here you toggle the display of Gantt bars for investments, tasks, phases and assignments, see "7.11 Interactive Gantt Bars" on page 105.


Visualization > Utilization

- Show Histogram:** Here you switch between the two display modes for the utilization and capacity of resources, roles and teams, see "7.12 Utilization and Capacity" on page 108.


7.14.6 Preferences

 **Preferences:** Here you configure other view settings such as display fields and filter fields, see "7.15 Preferences" on page 116. Preferences will be saved separately for each view.

7.14.7 Help

 **Help:** Here you can find information about itd Advanced Resource Planning and about asking for support. If you do, please always specify your version, which you can find under **Info**.

7.14.8 Fullscreen

 **Fullscreen:** In full screen mode, the Clarity PPM navigation will be hidden, such that more items can be displayed in itd Advanced Resource Planning.
You can turn the navigation back on using the same button.

7.15 Preferences

Click on the **Preferences** button in the toolbar to edit view options.

7.15.1 General

Settings in the **General** tab control the display and behavior of the current view.

Setting	Value
TOOLBAR ONLY WITH ICONS:	<input checked="" type="checkbox"/>
SHOW UTILIZATION:	<input checked="" type="checkbox"/>
CALCULATE SUMS:	On
SHOW PHASES:	<input checked="" type="checkbox"/>
SHOW MILESTONES:	<input checked="" type="checkbox"/>
SHOW ASSIGNMENTS OF INACTIVE RESOURCES:	<input type="checkbox"/>
UPDATE ALLOCATION:	<input type="checkbox"/>
LOAD DATA ON STARTUP:	<input checked="" type="checkbox"/>
USE CLARITY'S CALCULATED INVESTMENT SUMS:	<input checked="" type="checkbox"/>
MOVE SUCCESSORS ON DEPENDENCY CREATION:	<input type="checkbox"/>
SHOW INVESTMENT HIERARCHY:	Off

- > **Toolbar Only with Icons:** select this to hide the captions on buttons with icons, reducing the width of the toolbar.
- > **Show Utilization:** when the histogram isn't displayed, this setting controls whether the global total utilization and remaining capacity of roles, resources and teams are displayed per period in the resource list. The setting has no effect on the histogram.
- > **Calculate Sums:** specify here whether totals of the workload fields (in the assignment modes: **Estimated Effort**, **Actuals** and **Total Effort**) should be calculated and displayed for all aggregation levels (In this mode: task, phase and investment).
You can choose between **On** (display global sums), **Filtered** (apply assignment filter to global sums) and **Off** (don't calculate sums).
This setting affects the loading time, with **Off** being the fastest and **Filtered** the slowest method.
- > **Show Phases:** specify here whether to display phases between investments and associated tasks. If phases are not displayed, tasks associated with phases will be displayed directly under their respective investments.
- > **Show Milestones:** specify here whether milestones should be displayed.
- > **Show Assignments of Inactive Resources:** display or hide assignments of inactive resources.
- > **Update Allocation:** specify here whether assignments entered for tasks should automatically be entered as allocation in the associated projects as well.
- > **Load Data on Startup:** specify here whether data is loaded directly when opening itd Advanced Resource Planning or only after clicking the filter button.
- > **Use Clarity PPM's Calculated Investment Sums:** this option depends on the **Calculate Sums** option and will only take effect if that option is set to **On** or **Filtered**. Select this to always display

the sums calculated by Clarity PPM for investments, which are also displayed in investment lists, instead of letting itd Advanced Resource Planning calculate these sums .

- > **Move Successors on Dependency Creation:** with this option, new dependencies that are initially violated will automatically be satisfied by moving the selected successor and any of its own successors ahead. Please note that existing dependencies between the successor and its own successors that are already violated won't be automatically satisfied in this process. Also, if the selected successor or any of its successors has actuals or the **Exclude from Autoscheduling** property, that task or milestone and its successors won't be moved.
- > **Show Investment Hierarchy:** in **Assignments by Investment** mode, select this to display parent and sub-investments of investments explicitly selected via your assignment filter (see "4.8.2 Selecting Investment Hierarchies in by Investment Modes" on page 30).

Hiding investment hierarchies may speed up loading the view.

7.15.2 Timeslices

Settings in the **Timeslices** tab control the time axis scale and display period.

PREFERENCES
×

< GENERAL
TIMESLICES
COLUMNS
UTILIZATION - COLUMNS
FILTER - ASSIGNMENTS
FILTER - RE >

SLICE PERIOD:	Months	▼
FISCAL ENTITY:	Corporate	▼
FISCAL PERIOD:	Fiscal Weeks	▼
WORK EFFORT UNIT:	System Standard (Hours)	▼
SLICE COUNT:	12	↕
DECIMAL PLACES:	1	↕

OK
CANCEL

- > **Slice Period:** enter the planning period here. Possible settings are **Days, Weeks, Months, Quarters, Calendar Years** and, if configured, **Fiscal Period**.
The selection of available slice periods may be limited by Clarity PPM application administrators via the **itd AE Preferences** lookup (see "9.12.3 Restrict Time Slice Periods in the Preferences and in the Toolbar" on page 161). In this case, only options enabled via the associated lookup value will be available here and in the toolbar of itd Advanced Resource Planning.
- > **Fiscal Entity** and **Fiscal Period:** with the **Fiscal Period** setting, if multiple fiscal entities or periods have been defined in your Clarity PPM system, select the desired fiscal entity and period here.
- > **Work Effort Unit:** specify the unit for efforts here. By default, the **System Standard** will be applied. Alternatively, **Hours, Days** or full time equivalents (**FTE**) are available for selection here.
- > **Slice Count:** enter the amount of slices to be displayed.
- > **Decimal Places:** enter the desired number of decimals for entering and displaying assignments and allocations.

7.15.3 Columns

In the **Columns** tab, you select the columns to display in the list at the top left of the current view.

PREFERENCES [X]

< GENERAL TIMESLICES **COLUMNS** UTILIZATION - COLUMNS FILTER - ASSIGNMENTS FILTER - RE >

COLUMNS:

Actuals	Start
Duration	Finish
Effective Role	Total Effort
ID	Est. Effort
Investment Status	
Investment Type	
Loading Pattern	
Staff OBS Unit	

DISPLAY ETC SUMS OUTSIDE OF VISIBLE TIME RANGE

OK CANCEL

The following fields are always displayed in the first column:

- > **Name (investment, phase, task, milestone, resource/role/team)**
- > **Primary role (resource), parent role (role):** for resources, the primary role is displayed next to the resource name. For roles, the parent role is displayed next to the role name, if applicable. You can turn this off via a feature toggle, see "9.12.5 Hide Primary/Parent Role Name" on page 161.

The following fields can be selected for display by default:

- > **Actuals, Est. Effort, Total Effort (investment, phase, task, assignment):** worked, remaining and total hours; the **Total Effort** field displays the sum of **Est. Effort** and **Actuals**.
- > **Duration (phase, task, assignment):** duration in work days according to the base calendar; editable
- > **Effective Role (assignment):** resource/role/team assignment role
- > **Effective Role (team entry):** resource/role/team investment role
- > **Effective Role (role):** parent role
- > **Effective Role (resource):** primary role
- > **ID (investment, phase, task, milestone, resource/role/team)**
- > **Investment Status (investment):** editable
- > **Investment Type (investment)**
- > **Loading Pattern (assignment):** editable
- > **Staff OBS Unit (team entry):** editable
- > **Start, Finish (investment, phase, task, milestone, assignment):** editable for phases, tasks, milestones and assignments
- > **Display ETC Sums outside of Visible Time Range:** see page 94.

Members of the **ARP Admin** group may add to the selection and enable editing for other fields available for investments, investment sub-types, resources, roles, teams; team entries; tasks and assignments. This includes most Clarity PPM standard fields and most custom fields defined for these objects. See section "9.11 Configuring List and Filter Fields" on page 156 for details.

7.15.4 Utilization – Columns

In the **Utilization – Columns** tab, you select the columns to display in the utilization view's resource list at the bottom left and in the capacity popup that opens when clicking on a utilization segment.

The screenshot shows a 'PREFERENCES' dialog box with a close button (X) in the top right corner. Below the title bar is a navigation bar with tabs: GENERAL, TIMESLICES, COLUMNS, UTILIZATION - COLUMNS (selected), FILTER - ASSIGNMENTS, and FILTER - RE. The main area is divided into two sections. The first section, 'UTILIZATION COLUMNS:', contains a list of fields: Department, Department OBS, Is External, Location, Manager, and Skills. To the right of this list is a set of navigation arrows: ^, >>, >, <, <<, and v. The second section, 'AVAILABILITY POPUP COLUMNS:', contains a list with 'Default Allocation' and 'Start'. At the bottom right of the dialog are 'OK' and 'CANCEL' buttons.

The following information is always displayed in the first column of the resource list:

- > **Icon (resource/role/team)**
- > **Name (resource/role/team)**
- > **Primary role (resource), parent role (role):** for resources, the primary role is displayed next to the resource name. For roles, the parent role is displayed next to the role name, if applicable. You can turn this off via a feature toggle, see "9.12.5 Hide Primary/Parent Role Name" on page 161.

The following additional resource list fields can be selected by default:

- > **Department (resource/team)**
- > **Department OBS, Location (resource/team)**
- > **Is External (resource/role/team)**
- > **Manager (resource/role/team)**
- > **Skills (resource/role/team)**

The following information is always displayed in the capacity popup:

- > **Type Icon and Name (investment)** – first column
- > **Segment Utilization (assignments)** – last column

The following additional team entry fields can be selected for the capacity popup by default:

- > **Start, Finish (team entry)**
- > **Staff OBS Unit (team entry)**
- > **Default Allocation (team entry)**
- > **Effective Role (team entry)**
- > **Skills (role team entry)** only with skills hierarchy, see "9.12.6 Use Old Skills Hierarchy", page 162.

Members of the **ARP Admin** group may add other fields available for resources, roles and teams or for team entries to these selections. This includes most Clarity PPM standard fields and most custom fields defined for these objects. See "9.11 Configuring List and Filter Fields" on page 156.

7.15.5 Filter – Assignments

In the **Filter – Assignments** tab, you select filter fields for the assignment filter. This lets you filter the current view by investments, resources/roles/teams, team entries, tasks and assignments.

PREFERENCES [X]

< GENERAL TIMESLICES COLUMNS UTILIZATION - COLUMNS **FILTER - ASSIGNMENTS** FILTER - RE >

AVAILABLE FILTERS:

- Assignment - Assignment Has
- Assignment - Assignment Role
- Assignment - Assignment Stat
- Investment - Hide Investment:
- Investment - Hierarchy
- Investment - Investment ID
- Investment - Investment Nam
- Investment - Investment Statu
- Investment - Roadmap
- Project - Project Templates
- Resource - Booking Manager
- Resource - In Assignment

LEFT COLUMN:

- Investment - Investments
- Investment - Investment Manage
- Investment - Investment OBS Un
- Investment - Investment Type

RIGHT COLUMN:

- Resource - Role/Resource
- Resource - Is Role
- Assignment - Assignment Has ET
- Task - Task Name

OK CANCEL

Select the available filter fields for the left and right column of the assignment or allocation filter.

- > You can add filter fields to either column as well as determine their order via drag-and-drop:
 - Drag filter fields from the **Available Filters** list to either column to add them.
 - Drag filter fields from either column to the **Available Filters** list to remove them.
 - Drag filter fields between columns or within a column to change their position.
- > Alternatively, you can use the buttons to the left of a column list in order to...
 - ... add fields selected in its left neighbor list (right arrow).
 - ... remove fields selected in the list and add these fields to its left neighbor list (left arrow).
 - ... change the field order by moving selected fields up or down in the list (up/down arrow).

See section "4.8 Default Filter Fields for the Main View" on page 28 for details about the default filter fields.

Members of the **ARP Admin** group may add to the selection other fields available for investments, investment sub-types, resources, roles, teams; team entries; tasks and assignments.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

For details about the required procedure and supported fields and objects, see "9.11 Configuring List and Filter Fields" on page 156.

7.15.6 Filter – Resources

In the **Filter – Resources** tab, you select filter fields for the resource panel. This lets you filter the displayed resources, roles and teams.

PREFERENCES [X]

← TIMESLICES COLUMNS UTILIZATION - COLUMNS FILTER - ASSIGNMENTS **FILTER - RESOURCES** →

AVAILABLE FILTERS:

- Resource - Booking Manager
- Resource - Investment Team
- Resource - Is Team
- Resource - Resource Name
- Resource - Resource Type
- Resource - Skill Matching
- Resource - Skills

LEFT COLUMN:

- Resource - Resource OBS Unit
- Resource - Resource Manager
- Resource - Primary Role

RIGHT COLUMN:

- Resource - Role/Resource
- Resource - Is External
- Resource - Is Role

[OK] [CANCEL]

Select the available filter fields for the left and right column of the assignment or allocation filter.

- > You can add filter fields to either column as well as determine their order via drag-and-drop:
 - Drag filter fields from the **Available Filters** list to either column to add them.
 - Drag filter fields from either column to the **Available Filters** list to remove them.
 - Drag filter fields between columns or within a column to change their position.
- > Alternatively, you can use the buttons to the left of a column list in order to...
 - ... add fields selected in its left neighbor list (right arrow).
 - ... remove fields selected in the list and add these fields to its left neighbor list (left arrow).
 - ... change the field order by moving selected fields up or down in the list (up/down arrow).

See section "4.9 Default Filter Fields for the Utilization View" on page 35 for details about supported default filter fields.

Members of the **ARP Admin** group may add to the selection other fields available for resources, roles and teams.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

For details about the required procedure and supported fields and objects, see "9.11 Configuring List and Filter Fields" on page 156.

7.15.7 Utilization

Settings in the **Utilization** tab control the display and calculation of the utilization.

In **Assignments by Investment** mode, the utilization will be calculated from assignments.

PREFERENCES
×

<
COLUMNS
UTILIZATION - COLUMNS
FILTER - ASSIGNMENTS
FILTER - RESOURCES
UTILIZATION
>

UTILIZATION RATE

LOW UTILIZATION AT AND BELOW:	80.0%
UTILIZATION WARNING ABOVE:	100.0%
HIGH UTILIZATION ABOVE:	110.0%

OK
CANCEL

- > The **Utilization Rate** controls the visualization of low or high utilization.
 - **Low Utilization at and Below:** upper utilization boundary below which resources, roles and teams will be marked as lowly utilized with a grey background in the respective period. Utilization between the thresholds for low utilization and utilization warning (e.g., above 80% to 100% as according to the screenshot) will be marked as optimal with a green background. This threshold value has no effect in the histogram.
 - **Utilization Warning Above:** lower utilization boundary above which resources, roles and teams will be marked as slightly over-utilized with a yellow background in the respective period. This applies as long as the utilization stays at or below the lower boundary for high utilization. In the histogram, workload is colored green up to this threshold value.
 - **High Utilization Above:** lower boundary above which resources, roles and teams will be marked as highly over-utilized with a red background in the respective period. In the histogram, workload is colored yellow up to this threshold value and red above.

7.15.8 Layout

Settings in the **Layout** tab control the additional display value in the right hand side assignment grid as well as sorting fields for investments, tasks and assignments.

In single investment mode, you also select display values for the histogram here.

PREFERENCES
✕

< S
UTILIZATION - COLUMNS
FILTER - ASSIGNMENTS
FILTER - RESOURCES
UTILIZATION
LAYOUT
>

Dec '24	Jan '25	Feb '25	Mar '25	Apr '25
38.5	58.5	10.3 30.3	17.6	12.1

FIELD TO DISPLAY ON THE LEFT PART OF THE CELL: Actuals ▾

HISTOGRAM COMPARISON: Effort vs. Allocation ▾

TOLERANCE OF DEVIATION: 10.0%

SORTING

SORT INVESTMENTS BY: Investment - Name (Default) ▾ ↑

SORT TASKS BY: Task - WBS Sort (Default) ▾ ↑

SORT ASSIGNMENTS BY: Assignment - Name (Default) ▾ ↑

BROWSER SPECIFIC LAYOUT CONFIGURATION

USE COLORS WITH HIGHER CONTRAST:

OK
CANCEL

- > **Cell Configuration:** Here you select a **Field to Display on the Left Part of the Cell** and enter a threshold value for trend arrows, when active.

In **Assignments by Investment** mode, the assignment value is always displayed on the right.

- **Field to Display on the Left Part of the Cell:** Empty (no field), ETC, Actuals, Capacity or a custom time scaled monetary value. You can edit the latter, see "7.7 Editing Custom Time Scaled Monetary Values" on page 95.
- **Tolerance of Deviation:** Threshold value for displaying trend arrows to indicate a deviation of the left cell value from the right one when activated via **Visualization**.

This setting only affects the right hand side assignment grid. The left hand side sum columns (**Estimated Effort, Actuals, Total Effort** or custom time scaled monetary values) can be displayed or hidden via the **Columns** tab (see "7.15.3 Columns" on page 119).

To display aggregated totals for tasks, phases, and investments in the assignment grid and sum columns, set **Calculate Sums** to **On** or to **Filtered** in the **General** tab (see "Calculate Sums" on page 116).

- > **Histogram Comparison (Single Investment Mode Only)**

- **ETC vs. Capacity:** Colored column displays **ETC**, dotted line displays **Capacity**.
- **Effort vs. Allocation:** Colored column displays total effort (**Actuals + ETC**), dotted line displays **Allocation**.
- **Effort vs. Hard Allocation:** Colored column displays total effort (**Actuals + ETC**), dotted line displays **Hard Allocation**.

- > **Sorting:** In addition to the fields listed here, any custom fields without lookups are available. If you don't select the respective default field, items will be sorted by that field on the second level.

- **Sort Investments By:** **Investment Type** or **Name** (Default).
- **Sort Tasks By:** **Finish Date, Name, Start Date** or **WBS Sort** (Default).

Moving, indenting and outdenting tasks is only possible with **WBS Sort**.

- **Sort Assignments By: Effective Role, Finish Date, Name** (Default) or **Start Date**.
- > **Browser Specific Layout Configuration:** Here you can select to **Use Colors with Higher Contrast**. This setting will affect all your views in itd Advanced Resource Planning.

8 Assignments by Resource

The **Assignments by Resource** mode groups investments, tasks and assignments by the assigned resources, roles and teams.

Their utilization and capacity are displayed directly in the right hand side assignment grid view.

Editing project structures isn't possible in this mode.

Name	Start	Finish	Total Effort	Est. Effort	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Amos, Cheryl Engineer	01/02/2023	12/31/2025	320	320	9 / 13	10 / 11	9 / 14	9 / 12	4 / 17	5 / 17	5 / 18	2 / 18
eBusiness Mobile Network	07/17/2023	07/08/2024	183	183	42	33	25	3	1	6	3	
Construction Phase	10/20/2023	12/12/2023	68	68	42	11						
User Interface Development	11/23/2023	12/01/2023	5	5	4	1						
Holiday	01/01/2023	12/31/2025	5,691	5,691	89	194	165	142	139	168	182	145
Holiday	01/01/2023	12/31/2025	79	79		2	2	2	2	2	2	
Run the Business	01/01/2023	12/31/2025	10,877	10,877	314	304	329	304	292	306	313	275
Run the Business	01/01/2023	12/31/2025	113	113	5	7	7	7	2	3	3	2
Andersson, Peter Engineer	01/31/2022	12/31/2025	640	640	25 / -3	18 / 3	21 / 2	9 / 12	6 / 15	3 / 19	5 / 18	5 / 15
Arpel, Ian Business Analyst	01/02/2023	12/31/2025	183	183	3 / 19	5 / 16	5 / 18	5 / 16	5 / 16	5 / 17	5 / 18	5 / 15
Awad, Rashid Engineer	01/02/2023	12/31/2025	149	149	12 / 10	13 / 8	9 / 14	9 / 12	1 / 20	1 / 21	1 / 22	2 / 18
Baker, Isaac Manager	01/02/2023	12/31/2025	505	505	29 / -7	24 / -3	25 / -2	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Barry, Debra Product Manager	01/02/2023	12/31/2025	147	147	19 / 3	2 / 19	3 / 20	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Bauer, Joyce ML Engineer	01/02/2023	12/31/2025	122	122	11 / 11	14 / 7	15 / 8	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18

8.1 Displayed Data

In **Assignments by Resource** mode, the following data will always be displayed:

- > Resources, roles and teams
- > Investments (custom types included) with team entries for displayed resources, roles and teams
- > Associated tasks and assignments
- > Team entries without assignments
- > You can limit the selection of data records via filter conditions (see "4 Filters" on page 25).

8.1.1 Show Utilization

With the **Show Utilization** option selected in the **General** tab of the **Preferences**, the utilization and capacity of a resource, role or team will be displayed in the associated row (see "8.11 Utilization and Capacity" on page 134).

8.1.2 Assignments to Non-Project Investments

For each non-project investment, a task with the same name will be displayed under which associated assignments are listed.

8.1.3 Roles with Multiple Assignments

For roles assigned multiple times to a project task or non-project investment, the associated task will be displayed once for each assignment of the role.

8.1.4 Task and Assignment Fields

Tasks and associated assignments will be displayed in the same row. All displayed fields that exist for assignments as well as the assignment values will be taken from the assignment. Fields only existing for tasks (e.g., **ID** or additional fields only existing for tasks) will be taken from the task.

8.1.5 Displaying Phases and Parent Investment Hierarchies

Displaying phases and parent investment hierarchies is optional and can be toggled for each in the **General** tab of the **Preferences**.

8.2 Displayed and Editable Values per Period

In the **Layout** tab of the **Preferences**, you can select an optional display value for assignments per period (see "Field to Display on the Left Part of the Cell" on page 144).

- > **Field to Display on the Left Part of the Cell (optional):** Empty (no field), ETC, Actuals, Capacity or a custom time scaled monetary value. You can edit the latter, see "7.7 Editing Custom Time Scaled Monetary Values" on page 95.
- > **Field Displayed on the Right Part of the Cell (Assignment):** In **Assignments by Resource** mode, the assignment value is always displayed on the right. This is also the base of the displayed utilization and capacity (see "8.11 Utilization and Capacity" on page 134).

The configured values will be displayed when hovering over the assignment grid with the associated preferences setting (see "9.12.8 Show Grid Hints for by Resource Views" on page 162).

8.3 Displaying Trend Arrows

Via the **Visualization** menu, you can display trend arrows comparing the left and right cell values, see "Visualization > Cell" on page 137.

Name	Start	Finish	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24	Jan '25	Feb '25	Mar '25
Amos, Cheryl Developer	03/01/2024	10/29/2024	184.0 / 64.0	176.0 / 16.0	168.0 / 168.0	184.0 / 152.0	168.0 / 168.0	176.0 / 176.0	184.0 / 184.0	160.0 / 160.0	168.0 / 168.0
CRM Contact Center Dew	03/01/2024	07/26/2024	184.0	120.0	176.0	168.0	184.0	168.0	176.0	160.0	168.0
PCI Controls Remediation	07/01/2024	10/29/2024	184.0	176.0	160.0	168.0	32.0	168.0	176.0	160.0	168.0
Architect	11/01/2023	01/31/2026	1,472.0 / -10,753.3	1,408.0 / -6,559.8	1,344.0 / -1,273.1	1,472.0 / -5,732.2	1,344.0 / -3,942.3	1,408.0 / -1,222.7	1,472.0 / -1,051.6	1,280.0 / -523.7	1,344.0 / -284.4
BEA Weblogic 10.0 Applic	02/01/2024	01/31/2026	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,408.0	176.0	1,472.0
BYOD Management	09/01/2024	03/04/2025	1,472.0	1,408.0	1,344.0	168.0	1,472.0	184.0	1,344.0	168.0	1,408.0
Change Mgt for Internal	08/04/2024	11/21/2024	1,472.0	1,408.0	120.0	1,344.0	1,472.0	1,344.0	1,408.0	176.0	1,472.0
Credit Card Processing E	07/01/2024	07/28/2024	1,472.0	160.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
Credit Card Security Imp	07/01/2024	08/31/2024	1,472.0	2,555.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Data Warehouse Perform	06/01/2024	10/13/2024	1,472.0	80.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
Email SAN Storage Imple	07/01/2024	10/23/2024	1,472.0	144.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Financial Process Audit	07/01/2024	08/31/2024	1,472.0	144.0	1,408.0	2,816.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Headquarters	07/01/2024	07/31/2024	1,472.0	2,000.0	1,408.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
HR Claims Processing En	07/01/2024	08/31/2024	1,472.0	2,000.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
HR Online Benefits Secu	07/01/2024	11/30/2024	1,472.0	2,596.0	1,408.0	80.0	1,344.0	1,472.0	48.0	1,344.0	2,589.0
LATAM Research and Dev	10/01/2024	10/31/2024	1,472.0	1,408.0	1,344.0	1,472.0	2,001.0	1,344.0	1,408.0	1,472.0	1,344.0
Learning Portal Optimiz	07/01/2024	10/23/2024	1,472.0	144.0	1,408.0	40.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0
Meeting Reservation Por	08/01/2024	11/30/2025	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,472.0	184.0	1,344.0
Mobile Commerce	08/01/2024	11/20/2024	1,472.0	1,408.0	1,344.0	136.0	24.0	1,472.0	1,344.0	1,408.0	1,472.0
Mobile Device Managem	10/01/2024	09/30/2025	1,472.0	1,408.0	1,344.0	1,472.0	184.0	1,344.0	168.0	1,408.0	176.0
Mobile Identity Manager	08/01/2024	08/31/2024	1,472.0	1,408.0	2,345.0	1,344.0	1,472.0	1,344.0	1,408.0	1,472.0	1,344.0
Mobility Management Se	07/01/2024	01/08/2025	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,472.0	184.0	1,344.0
MyLearning Mobile Pilot	10/01/2024	02/05/2025	1,472.0	1,408.0	1,344.0	1,472.0	2,156.0	1,344.0	168.0	1,408.0	176.0
NA Research and Develo	11/01/2023	10/31/2025	1,472.0	184.0	1,408.0	176.0	1,344.0	168.0	1,408.0	176.0	184.0
Online to Offline Market	08/01/2024	11/14/2024	1,472.0	1,408.0	88.0	1,344.0	128.0	1,472.0	96.0	1,344.0	56.0

For instance, this can help you to easily compare actuals with the originally planned values. Wherever both values are present and different, a little arrow at the left cell edge visualizes a negative or positive deviation of the left cell value from the right cell value.

In the **Layout** tab of the **Preferences**, you can set a threshold percentage. In the **Layout** tab of the **Preferences**, you can set a threshold percentage for the minimal deviation to visualize via arrow, see "Tolerance of Deviation" on page 144.

8.4 Displaying Investment Descriptions

Hover over an investment to display its description.

This feature may be deactivated via the **itd AE Preferences Lookup** by Clarity PPM application administrators (see "9.12.26 Hide Description Tooltips" on page 169).

8.5 Estimated Effort, Actuals and Total Effort

In the **Columns** tab of the **Preferences**, you can display or hide the **Estimated Effort**, **Actuals** and **Total Effort (Estimated + Actuals)** fields in the left hand side list (see "8.14.3 Columns" on page 141). The fields display the respective values for each assignment.

With **Calculate Sums** in the **General** tab of the **Preferences**, aggregated sums will also be displayed per phase, investment and resource, role or team. Depending on your selection, global sums (**On**) or **Filtered** sums (using the assignment filter) will be displayed (see "Calculate Sums" on page 138).

You can edit the **Estimated Effort** for assignments by entering a value (see "8.8.2 Editing the Estimated Effort of Assignments" on page 130).

8.6 Editing Assignments

With **Show Gantt Bars for Assignments** turned off in the **Visualization** menu in the toolbar, you can edit the **ETC** per period that is displayed in the right half of each cell. Click on the right half of a cell to edit its value. The white background of a cell or its right half indicates that the value can be edited.

The left half of a cell displays **Actuals**, **Capacity** or any custom time scaled monetary value (see "Field to Display on the Left Part of the Cell" on page 144).

The configured values will be displayed when hovering over the assignment grid with the associated preferences setting (see "9.12.8 Show Grid Hints for by Resource Views" on page 162).

The **Estimated Effort** will automatically be updated with the sum of efforts per period you enter.

Entering workload outside the duration of an assignment will expand it accordingly. If required, parent objects will also be expanded, such that they include the assignment.

Alternatively, enter the total **Estimated Effort** for an assignment in the associated column (see "8.8.2 Editing the Estimated Effort of Assignments" on page 130).

With **Update Allocation** in the **General** tab of the **Preferences**, the new assignment values will also be entered as allocation for the same periods.

8.6.1 Copying Grid Cells via Drag and Drop

Via drag and drop, you can copy the value of a grid cell to neighboring cells, either horizontally, on the timeline, or vertically, to other tasks:

- > Click in the cell you wish to copy, hold the mouse button and drag in the desired direction.
- > Release the mouse button when you're done to copy the selected assignment value to all grid cells you touched while dragging.
- > **Save** your changes via the toolbar or **Refresh** without saving to revert your changes.

8.6.2 Display ETC sums outside of visible time range


Via **Columns** in the **Preferences**, you can display ETC sums for assignments that are before or after the visible period. The **ETC before** and **ETC after** columns display the total hours before or after the visible period. Click on values in these columns to shift the visible period there.

8.6.3 Display Options


Use the buttons and menus in the toolbar to select the start date and period and to specify how many periods to display at once. Display options for this view are also available in the **Timeslices** tab of the **Preferences** (see "8.14.2 Timeslices" on page 140).

8.6.4 Saving or Reverting Changes

Changes made to assignments won't be saved directly

 Your changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

8.7 Editing Custom Time Scaled Monetary Values


Editing custom time scaled monetary values works the same as in **Assignments by Investment** mode (see "7.7 Editing Custom Time Scaled Monetary Values" on page 95).


8.8 Editing List Fields


In **Assignments by Resource** mode, the left hand side hierarchic list supports editing of the **Start**, **Finish**, **Estimated Effort** and **Loading Pattern** assignment fields, of the **Staff OBS Unit** team entry field, of the **ID** phase field and of most additional fields, if editing was enabled for them by members of the **ARP Admin** group (see "9.11 Configuring List and Filter Fields" on page 156).

Renaming investments, phases and tasks is not possible in this view mode.

Click on any field you wish to edit and enter or select the desired value.

 Changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

8.8.1 Editing the Start and Finish of Assignments

You can edit the **Start** and **Finish** of assignments in the list while the status is **Not started** and no actuals exist for them. The status check can be turned off (see "9.12.25 Edit Start and Finish of Tasks and Assignments Regardless of Status on page 169).

Changing an assignment this way will redistribute the ETC over the working hours during the assignment's new remaining duration (**Actuals Thru** until **Finish**) in the same proportions as before the change. You can then no longer edit the ETC per period until you save or revert the change.

With **Update Allocation** in the **General** tab of the **Preferences**, the updated assignment values will also be entered as allocation for the same periods.

Shifting or extending an assignment beyond the **Start** or **Finish** of the associated task or non-project investment will also extend the task or investment, such that it includes the assignment. Extending a task this way will also extend the associated phase and project, if required to include the new task duration. Shortening assignments won't shorten the associated task, phase or investment.

8.8.2 Editing the Estimated Effort of Assignments

You can edit the **Estimated Effort** of assignments in the list. The entered value will be distributed evenly over the assignment's new remaining duration (between **Actuals Thru** and **Finish**), overwriting any previous planning. The effort per period can then no longer be edited until the changes are applied or rejected.

With **Update Allocation** in the **General** tab of the **Preferences**, the new assignment values will also be entered as allocation for the same periods.

8.8.3 Editing a Custom Time Scaled Monetary Value for an Assignment

You can edit any custom time scaled monetary value displayed as a visible column for an assignment in very much the same fashion as for editing the **Estimated Effort**.

To do this, click into the field in the associated row and enter the desired value.

- > Changing a custom time scaled monetary value for an assignment will distribute that value over the working hours during the assignment, overwriting the previous planning, considering the **Loading Pattern**.

8.8.4 Editing the Loading Pattern of Project Task Assignments

You can edit the **Loading Pattern** of project task assignments. Click in the field to select a value.

8.8.5 Editing the Staff OBS Unit of Team Entries

You can edit the **Staff OBS Unit** field of team entries in the list. To do this, click in the field. Click on the magnifier icon to select an OBS unit or the trashcan icon to clear the field.

8.8.6 Editing the ID of Phases

If **Auto-numbering** is disabled for the **ID** field of tasks, you can edit the IDs of phases. You cannot edit the IDs of roles, resources, investments and tasks displayed in this view.

8.8.7 Editing Additional Fields

You can edit most additional list fields for which members of the **ARP Admin** group have enabled editing (see "9.11 Configuring List and Filter Fields" on page 156).

8.8.8 Copying List Fields

You can copy editable field values up or down via drag-and-drop. This feature supports lookup fields and respects restrictions on column values.

Copying field values this way requires the start and target row to be of the same type, i.e., resource/role/team, investment, phase, task or assignment.

For investments, the investment type must also be the same, e.g., project or idea. All custom investment types are considered to be the same type for this feature.

8.9 Context Menu for Displayed Objects

Hover over a resource, role, team, investment or task and click on the three dots that are displayed to open the associated context menu.

The following sections describe the default options available here.

Members of the **ARP Admin** group can hide default options and add custom options (see "9.10 Defining Actions" on page 154).

8.9.1 Open Properties

The **Open properties** option is available in the context menu for roles, resources, investments, phases and tasks. Here you open the associated Clarity PPM detail view.

- > Resource, role, team and investment properties open in a new browser tab.
- > Phase and task properties open on top of itd Advanced Resource Planning.

8.9.2 Add Assignment

The **Add Assignment** option is available in the context menu for resources, roles and teams. Here you open a selection of available projects with tasks. You can select any number of tasks. Once you click on **Add** to confirm, assignments for the selected tasks will be directly created and displayed.

8.9.3 Allocate From Estimates

The **Allocate From Estimates** option is available in the context menu for tasks.

For the team entry of the task's assignment, this will enter the sum of the estimated effort entered for associated assignments as allocation.

This action will be directly applied without further confirmation.

8.9.4 Delete

The **Delete** option is available in the context menu for tasks with assignments without actuals.

Here you delete the associated assignment. Before it is deleted, you will be asked for confirmation.

Assignments with actuals can't be deleted.

Deleting other objects isn't supported in **Assignments by Resource** mode.

8.9.5 Remove Lock

The **Remove lock** option is available in the context menu of projects locked due to changes made by users in itd Advanced Resource Planning.

Every user may unlock projects via the context menu that were locked due to their own changes made in itd Advanced Resource Planning.

Members of the **ARP Admin** group may unlock any projects via the context menu that were locked due to changes made by any user in itd Advanced Resource Planning.

Projects locked due to changes made outside of itd Advanced Resource Planning can only be unlocked via the associated button in the project's properties.

8.9.6 Expand All

The **Expand all** option is available in the context menu for roles, resources and phases.

Select this to expand the full sub-structure of the selected investment or phase.

8.10 Interactive Gantt Bars

In **Assignments by Resource** mode, you can toggle the display of interactive Gantt bars separately for investments, phases and assignments via the **Visualization** menu in the toolbar.

In this mode, you can only shift and resize assignments via drag and drop of their Gantt bars.

Critical paths for projects aren't available in this mode.

8.10.1 Gantt Bars for Investments

Gantt bars for investments will be displayed when selecting **Show Gantt Bars for Investments** in the **Visualization** menu in the toolbar.

In this mode, you can't edit Gantt bars for investments via drag and drop.

8.10.2 Gantt Bars for Phases

Gantt bars for phases will be displayed when selecting **Show Gantt Bars for Tasks and Phases** in the **Visualization** menu in the toolbar.

In this mode, you can't edit Gantt bars for phases via drag and drop.

8.10.3 Gantt Bars for Assignments

Gantt bars for assignments will be displayed when selecting **Show Gantt Bars for Assignments** in the **Visualization** menu in the toolbar.

While Gantt bars are displayed for assignments, you can't edit the ETC values per period directly.

You can shift and resize assignments via drag and drop of their Gantt bars.

You can only change the **Start** and **Finish** of assignments while the status is **Not started** and no actuals exist for them. The status check can be turned off (see "9.12.25 Edit Start and Finish of Tasks and Assignments Regardless of Status on page 169).


Changing an assignment this way will redistribute the ETC displayed per period for the respective assignment over the capacity of the assigned resource, role or team during the new remaining duration (between **Actuals Thru** and **Finish**) with the same proportions as before the change.

With **Update Allocation** in the **General** tab of the **Preferences**, the updated assignment values will also be entered as allocation for the same periods.


Shifting or extending an assignment beyond the **Start** or **Finish** of the associated task or non-project investment will also extend the task or investment, such that it includes the assignment. When a task is extended this way, the change will also be applied to the associated phase and project, if required to include the new task duration. Reducing the durations of assignments won't reduce the duration of the associated task, phase or investment.

8.10.4 Saving or Reverting Changes

Changes made to Gantt bars won't be saved directly

 Your changes will only be applied when you save them via the toolbar. You can easily identify unsaved changes via the red triangle in a field.

 Refresh the view without saving to revert your changes.

 Projects will automatically be locked for editing by other users while unsaved changes exist. This is indicated by a padlock icon. Saving or reverting your changes will unlock the project. If your session is interrupted before a project is unlocked, you or any member of the **ARP Admin** group can unlock it via the context menu. Please note that this is only possible for projects that were locked due to changes made in itd Advanced Resource Planning.

8.11 Utilization and Capacity

With **Show Utilization** selected in the **General** tab of your **Preferences**, the utilization and remaining capacity of resources, roles and teams is displayed per period in color-coded numbers.

ASSIGNMENTS												
View: Assignments by Resource												
REFRESH SAVE EXPORT TO EXCEL VISUALIZATION PREFERENCES HELP FULLSCREEN												
Name	Start	Finish	Total Effort	Est. Effort	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24
Amos, Cheryl Engineer	01/02/2023	12/31/2025	320	320	9 / 13	10 / 11	9 / 14	9 / 12	4 / 17	5 / 17	5 / 18	2 / 18
Andersson, Peter Engineer	01/31/2022	12/31/2025	640	640	25 / -3	18 / 3	21 / 2	9 / 12	6 / 15	3 / 19	5 / 18	5 / 15
Arpel, Ian Business Analyst	01/02/2023	12/31/2025	183	183	3 / 19	5 / 16	5 / 18	5 / 16	5 / 16	5 / 17	5 / 18	5 / 15
Awad, Rashid Engineer	01/02/2023	12/31/2025	149	149	12 / 10	13 / 8	9 / 14	9 / 12	1 / 20	1 / 21	1 / 22	2 / 18
Baker, Isaac Manager	01/02/2023	12/31/2025	505	505	29 / -7	24 / -3	25 / -2	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Barry, Debra Product Manager	01/02/2023	12/31/2025	147	147	19 / 3	2 / 19	3 / 20	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Bauer, Joyce ML Engineer	01/02/2023	12/31/2025	122	122	11 / 11	14 / 7	15 / 8	2 / 19	2 / 19	3 / 19	3 / 20	2 / 18
Beasley, Frank UX	12/18/2023	01/31/2024	20	20	0 / 22	10 / 11	10 / 13	0 / 21	0 / 21	0 / 22	0 / 23	0 / 20
Berks, Paul Project Manager	01/02/2023	12/31/2025	247	247	5 / 17	5 / 16	5 / 18	5 / 16	5 / 16	5 / 17	5 / 18	5 / 15
Bernard, Luc Project Manager	01/02/2023	12/31/2025	215	215	7 / 15	13 / 8	13 / 10	9 / 12	5 / 16	5 / 17	5 / 18	5 / 15
Berry, Jason Engineer	01/02/2023	12/31/2025	236	197	6 / 16	5 / 16	5 / 18	5 / 16	5 / 16	5 / 17	5 / 18	5 / 15
Bhatt, Rakesh Engineer	01/02/2023	12/31/2025	195	195	6 / 16	5 / 16	5 / 18	5 / 16	5 / 16	5 / 17	5 / 18	5 / 15
Business Analyst	01/23/2023	05/17/2024	131	131	0 / 109	0 / 91	2 / 104	3 / 94	1 / 96	3 / 99	2 / 105	0 / 92

Work Effort Unit: Days | Actuals / ETC

8.11.1 Visualization of Low, Optimal, High and Very High Utilization

Cell colors display whether a role's or resource's utilization is low (white), optimal (green), high (yellow) or very high (red) in that period (see "8.14.5 Utilization" on page 143).

Utilization histogram charts are not available in this mode.

8.11.2 Utilization and Remaining Capacity

In this mode, the utilization and remaining capacity displayed for a period are based on remaining estimated effort from assignments in that period.

With **Calculate Sums** set to **Filtered** in the **General** tab of your **Preferences**, the utilization will only include displayed assignments, as selected by your assignment filter. With **Calculate Sums** set to **On** or **Off**, the utilization will be based on all assignments in the associated period, visible or not.

The remaining capacity is always global, based on all assignments in a period.

8.11.3 Displaying Actuals

Optionally, the remaining capacity displayed for the current period will consider actuals entered for that period (see "9.12.22 Consider Actuals for Remaining Capacity" on page 168).

8.11.4 Displaying Utilization and Capacity Details

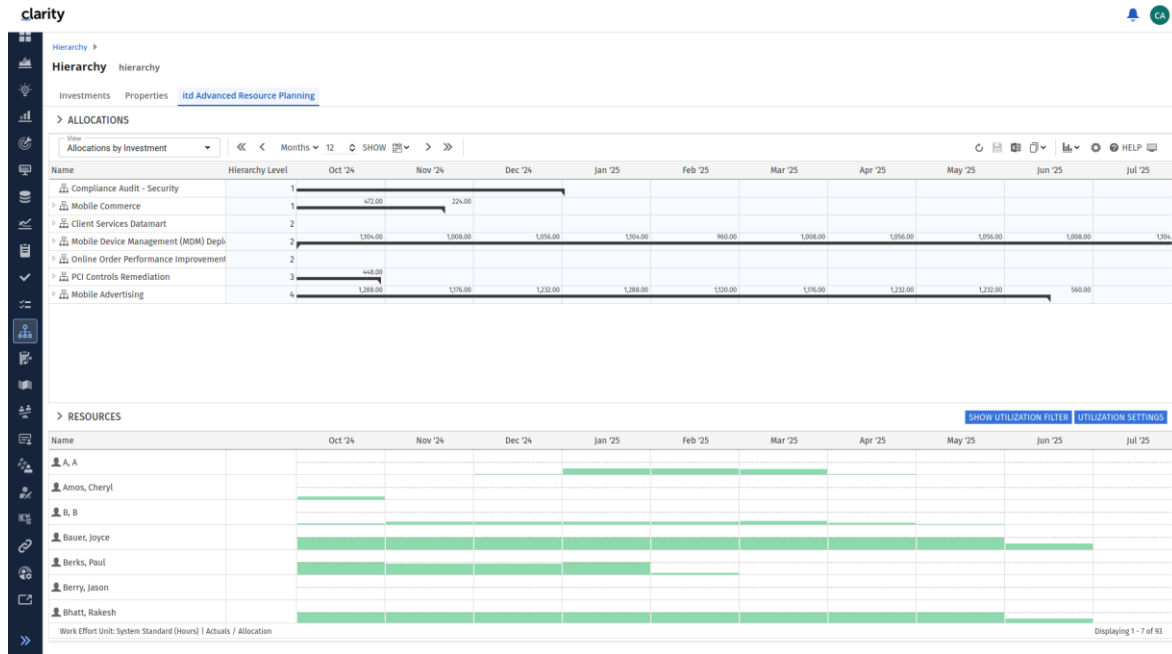
Hover over a cell to display the utilization mode (**Filtered Assignments** or **All Assignments**) and the values included in the calculation of the remaining capacity.

8.12 Hierarchy Mode

You can integrate itd Advanced Resource Planning in the **Hierarchies** module for hierarchies of the **Investment** type.

Please note that the hierarchy mode feature is only available after adding an itd Advanced Resource Planning channel to the hierarchy blueprint (see "9.7 Planning Modes" on page 152).

With the hierarchy mode, hierarchies offer an itd Advanced Resource Planning tab.



In this mode, the view is automatically filtered to display only investments included in the hierarchy. You can display and sort by the **Hierarchy Level** field, which displays an investment's hierarchy level. **Please note:** This mode is currently in the beta phase and is included as a preview. Further features are planned. We look forward to receiving feedback on this mode.

8.13 Toolbar Features

In **Assignments by Resource** mode, you have access to the following features in the toolbar.

8.13.1 View

The **View** menu at the top left displays the active view and allows switching views, saving the current view under a new name and editing your favorites and view sharing settings under **Manage**.

If you have the right to save changes to the current view, the **Save View** button is active. If it isn't, you can still save a copy of the current view.

You can find details of the features available here under "3 Views" on page 22.

8.13.2 Display Period

To the right of the **View** menu, you have access to various controls for changing the display period.

The slice period and number of slices are saved with the view and are synchronized with the **Timeslices** tab of the **Preferences** (see "8.14.2 Timeslices" on page 140).

Most options available there are also available in the toolbar, with the exception of fiscal periods as slice periods.

The start date won't be saved. The view automatically starts with the current date.

◀◀ **Previous Periods:** Here you switch back by the selected display period (e.g., 6 months).

◀ **Previous Period:** Here you switch back by the selected slice period (e.g., 1 month).

◇ **Slice Period and Number of Slices:** Select the slice period (e.g., months) and enter the number of slices in the field or use the buttons to raise or lower the number.

Then click on **Show** to update the view with the new slice settings.

📅 **Jump to a Certain Date:** Here you select the view's start date in a calendar view.

➤ **Next Period:** Here you switch ahead by the selected slice period (e.g., 1 month).

➤➤ **Next Periods:** Here you switch ahead by the selected display period (e.g., 6 months).

8.13.3 Refresh and Save

Use the **Refresh** and **Save** buttons to discard or save your changes.

🔄 **Refresh:** This will reload all data. If there are unsaved changes, you will be asked if you want to save first. Answering no will discard your changes.

💾 **Save:** This will save all unsaved changes you have made in the current view.

8.13.4 Export to Excel

You can export all rows and columns of the view to Microsoft Excel.


📄 **Export to Excel:** Here you export the view to Microsoft Excel.


The data will be exported as displayed, with the same filter settings and with all rows and columns that are currently displayed. For list entries with sub-elements, these sub-elements will only be exported if their parent item has been expanded, such that they are currently visible.

The Excel export is limited to a maximum of 15,000 rows.


8.13.5 Visualization

In **Assignments by Resource** mode, you have access to the following options under **Visualization**.


 **Visualization > Cell:** Here you toggle the display of trend arrows for deviations of the left cell value from the right one, see "8.3 Displaying Trend Arrows" on page 127.

 **Visualization > Gantt Bars:** Here you toggle the display of Gantt bars for investments, phases and assignments, see "8.10 Interactive Gantt Bars" on page 133.


8.13.6 Preferences

 **Preferences:** Here you configure other view settings such as display fields and filter fields, see "8.14 Preferences" on page 138. Preferences will be saved separately for each view.

8.13.7 Help

 **Help:** Here you can find information about itd Advanced Resource Planning and about asking for support. If you do, please always specify your version, which you can find under **Info**.

8.13.8 Fullscreen

 **Fullscreen:** In full screen mode, the Clarity PPM navigation will be hidden, such that more items can be displayed in itd Advanced Resource Planning.
You can turn the navigation back on using the same button.

8.14 Preferences

Click on the **Preferences** button in the toolbar to edit view options.

8.14.1 General

Settings in the **General** tab control the display and behavior of the current view.

The screenshot shows a 'PREFERENCES' dialog box with a close button (X) in the top right corner. Below the title bar are six tabs: 'GENERAL', 'TIMESLICES', 'COLUMNS', 'FILTER', 'UTILIZATION', and 'LAYOUT'. The 'GENERAL' tab is selected and underlined. The settings listed are:

TOOLBAR ONLY WITH ICONS:	<input checked="" type="checkbox"/>
SHOW UTILIZATION:	<input checked="" type="checkbox"/>
CALCULATE SUMS:	On ▼
SHOW PHASES:	<input checked="" type="checkbox"/>
UPDATE ALLOCATION:	<input type="checkbox"/>
LOAD DATA ON STARTUP:	<input checked="" type="checkbox"/>
SHOW INVESTMENT HIERARCHY:	Off ▼

At the bottom right of the dialog box are two buttons: 'OK' and 'CANCEL'.

- > **Toolbar Only with Icons:** select this to hide the captions on buttons with icons, reducing the width of the toolbar.
- > **Show Utilization:** select this to display the utilization and remaining capacity of roles, resources and teams per period.
In this mode, with **Calculate Sums** set to **Filtered**, the assignment filter will also be applied to the utilization, such that only assignments matching the filter (i.e., displayed assignments) will be included. The remaining capacity is always global and includes any assignments in the associated period. With **Calculate Sums** set to **On** or **Off**, the displayed utilization is also global.
- > **Calculate Sums:** specify here whether totals of the workload fields (in the assignment modes: **Estimated Effort**, **Actuals** and **Total Effort**) should be calculated and displayed for all aggregation levels (in this mode: task, phase and resource, role or team).
You can choose between **On** (display global sums), **Filtered** (apply assignment filter to global sums) and **Off** (don't calculate sums).
This setting affects the loading time, with **Off** being the fastest and **Filtered** the slowest method. In **Assignments by Resource** mode, **On** will always display totals for investments and phases, including assignments of all roles, resources and teams.
Filtered will sum up over the displayed assignments and therefore only display sums for the roles, resources and teams below which the items are listed.
With **Show Utilization**, **Filtered** also applies to the displayed utilization in this mode (see above).
- > **Show Phases:** specify here whether to display phases between investments and associated tasks. If phases are not displayed, tasks associated with phases will be displayed directly under their respective investments.

- > **Update Allocation:** specify here whether assignments entered for tasks should automatically be entered as allocation in the associated projects as well.
- > **Load Data on Startup:** specify here whether data is loaded directly when opening itd Advanced Resource Planning or only after clicking the filter button.
- > **Show Investment Hierarchy:** in **Assignments by Resource** mode, select this to display parent investment hierarchies of displayed investments that you have explicitly selected via the assignment filter. Sub-investments are only displayed in the by investment modes.
Hiding investment hierarchies may speed up loading the view.

8.14.2 Timeslices

Settings in the **Timeslices** tab control the time axis scale and display period.

GENERAL	TIMESLICES	COLUMNS	FILTER	UTILIZATION	LAYOUT
SLICE PERIOD:	Months				
FISCAL ENTITY:	Corporate				
FISCAL PERIOD:	Fiscal Weeks				
WORK EFFORT UNIT:	System Standard (Hours)				
SLICE COUNT:	12				
DECIMAL PLACES:	1				

- > **Slice Period:** enter the planning period here. Possible settings are **Days, Weeks, Months, Quarters, Calendar Years** and, if configured, **Fiscal Period**.
The selection of available slice periods may be limited by Clarity PPM application administrators via the **itd AE Preferences** lookup (see "9.12.3 Restrict Time Slice Periods in the Preferences and in the Toolbar" on page 161). In this case, only options enabled via the associated lookup value will be available here and in the toolbar of itd Advanced Resource Planning.
- > **Fiscal Entity** and **Fiscal Period:** with the **Fiscal Period** setting, if multiple fiscal entities or periods have been defined in your Clarity PPM system, select the desired fiscal entity and period here.
- > **Work Effort Unit:** specify the unit for efforts here. By default, the **System Standard** will be applied. Alternatively, **Hours, Days** or full time equivalents (**FTE**) are available for selection here.
- > **Slice Count:** enter the amount of slices to be displayed.
- > **Decimal Places:** enter the desired number of decimals for entering and displaying assignments and allocations.

8.14.3 Columns

In the **Columns** tab, you select the columns to display in the list at the top left of the current view.

The screenshot shows a 'PREFERENCES' dialog box with a close button (X) in the top right corner. Below the title bar are tabs for 'GENERAL', 'TIMESLICES', 'COLUMNS', 'FILTER', 'UTILIZATION', and 'LAYOUT'. The 'COLUMNS' tab is selected. Under the heading 'COLUMNS:', there are two lists. The left list contains: Actuals, Department OBS, Duration, Effective Role, ID, Investment Status, Investment Type, Loading Pattern, Location, Skills, and Staff OBS Unit. The right list contains: Start, Finish, Total Effort, and Est. Effort. Between the lists are navigation arrows: ^, >>, >, <, <<, and v. Below the lists is a checkbox labeled 'DISPLAY ETC SUMS OUTSIDE OF VISIBLE TIME RANGE' which is unchecked. At the bottom right are 'OK' and 'CANCEL' buttons.

The following fields are always displayed in the first column:

- > **Name (resource/role/team, investment, phase, task)**
- > **Primary role (resource), parent role (role):** for resources, the primary role is displayed next to the resource name. For roles, the parent role is displayed next to the role name, if applicable. You can turn this off via a feature toggle, see "9.12.5 Hide Primary/Parent Role Name" on page 161.

The following fields can be selected for display by default:

- > **Actuals, Est. Effort, Total Effort (investment, phase, task, assignment):** worked, remaining and total hours; the **Total Effort** field displays the sum of **Est. Effort** and **Actuals**.
- > **Department OBS, Location (resource/team)**
- > **Duration (phase, task, assignment):** duration in work days according to the base calendar
- > **Effective Role (assignment):** resource, role or team assignment role
- > **Effective Role (team entry):** resource, role or team investment role
- > **Effective Role (role):** parent role
- > **Effective Role (resource):** primary role
- > **ID (investment, phase, task, milestone, resource/role/team)**
- > **Investment Status (investment):** editable
- > **Investment Type (investment)**
- > **Loading Pattern (assignment):** editable
- > **Skills (resource/role/team):** editable
- > **Staff OBS Unit (team entry):** editable
- > **Start, Finish (investment, phase, task, milestone, assignment):** editable for assignments
- > **Display ETC Sums outside of Visible Time Range:** see page 129.

Members of the **ARP Admin** group may add to the selection and enable editing for other fields available for investments, investment sub-types, resources, roles, teams; team entries; tasks and assignments. This includes most Clarity PPM standard fields and most custom fields defined for these objects. See section "9.11 Configuring List and Filter Fields" on page 156 for details.

8.14.4 Filter

In the **Filter** tab, you select filter fields for the assignment filter. This lets you filter the current view by investments, resources/roles/teams, team entries, tasks and assignments.

PREFERENCES [X]

GENERAL **TIMESLICES** **COLUMNS** **FILTER** **UTILIZATION** **LAYOUT**

AVAILABLE FILTERS:

- Assignment - Assignment Has
- Assignment - Assignment Role
- Investment - Hide Investment
- Investment - Hierarchy
- Investment - Investment ID
- Investment - Investment Manag
- Investment - Investment Nam
- Investment - Investment OBS
- Investment - Investment Statu
- Investment - Investment Type
- Investment - Roadmap
- Project - Project Templates

LEFT COLUMN:

- Resource - Role/Resource
- Resource - Resource OBS Unit
- Resource - Resource Manager
- Resource - Primary Role
- Resource - Is External
- Resource - Is Role

RIGHT COLUMN:

- Investment - Investments
- Task - Task Name
- Task - Task Status
- Assignment - Assignment Status
- Assignment - Assignment Has ET

OK **CANCEL**

Select the available filter fields for the left and right column of the assignment or allocation filter.

- > You can add filter fields to either column as well as determine their order via drag-and-drop:
 - Drag filter fields from the **Available Filters** list to either column to add them.
 - Drag filter fields from either column to the **Available Filters** list to remove them.
 - Drag filter fields between columns or within a column to change their position.
- > Alternatively, you can use the buttons to the left of a column list in order to...
 - ... add fields selected in its left neighbor list (right arrow).
 - ... remove fields selected in the list and add these fields to its left neighbor list (left arrow).
 - ... change the field order by moving selected fields up or down in the list (up/down arrow).

See section "4.8 Default Filter Fields for the Main View" on page 28 for details about the default filter fields.

Members of the **ARP Admin** group may add to the selection other fields available for investments, investment sub-types, resources, roles, teams; team entries; tasks and assignments.

This includes most Clarity PPM standard fields and most custom fields defined for these objects.

For details about the required procedure and supported fields and objects, see "9.11 Configuring List and Filter Fields" on page 156.

8.14.5 Utilization

Settings in the **Utilization** tab control the display and calculation of the utilization.

In **Assignments by Resource** mode, the utilization will be calculated from assignments.

UTILIZATION RATE	
LOW UTILIZATION AT AND BELOW:	80.0%
UTILIZATION WARNING ABOVE:	100.0%
HIGH UTILIZATION ABOVE:	110.0%

- > The **Utilization Rate** controls the visualization of low or high utilization.
 - **Low Utilization at and Below:** upper utilization boundary below which resources, roles and teams will be marked as lowly utilized with a grey background in the respective period. Utilization between the thresholds for low utilization and utilization warning (e.g., above 80% to 100% as according to the screenshot) will be marked as optimal with a green background. This threshold value has no effect in the histogram.
 - **Utilization Warning Above:** lower utilization boundary above which resources, roles and teams will be marked as slightly over-utilized with a yellow background in the respective period. This applies as long as the utilization stays at or below the lower boundary for high utilization. In the histogram, workload is colored green up to this threshold value.
 - **High Utilization Above:** lower boundary above which resources, roles and teams will be marked as highly over-utilized with a red background in the respective period. In the histogram, workload is colored yellow up to this threshold value and red above.

8.14.6 Layout

Settings in the **Layout** tab control the additional display value in the right hand side assignment grid as well as sorting fields for resources, investments and tasks.

PREFERENCES ✕

GENERAL TIMESLICES COLUMNS FILTER UTILIZATION **LAYOUT**

CELL CONFIGURATION

Jun '24	Jul '24	Aug '24	Sep '24	Oct '24
38.5	58.5	10.3 30.3	17.6	12.1

FIELD TO DISPLAY ON THE LEFT PART OF THE CELL: Actuals ▾

TOLERANCE OF DEVIATION: 10.0%

SORTING

SORT RESOURCES BY: Resource - Name (Default) ▾ ↑

SORT INVESTMENTS BY: Investment - Name (Default) ▾ ↑

SORT TASKS BY: Task - WBS Sort (Default) ▾ ↑

BROWSER SPECIFIC LAYOUT CONFIGURATION

USE COLORS WITH HIGHER CONTRAST:

OK
CANCEL

- > **Cell Configuration:** Here you select a **Field to Display on the Left Part of the Cell** and enter a threshold value for trend arrows, when active.

In **Assignments by Resource** mode, the assignment value is always displayed on the right.

- **Field to Display on the Left Part of the Cell:** Empty (no field), ETC, Actuals, Capacity or a custom time scaled monetary value. You can edit the latter, see "7.7 Editing Custom Time Scaled Monetary Values" on page 95.
- **Tolerance of Deviation:** Threshold value for displaying trend arrows to indicate a deviation of the left cell value from the right one when activated via **Visualization**.

This setting only affects the right hand side assignment grid. The left hand side sum columns (**Estimated Effort**, **Actuals**, **Total Effort** or custom time scaled monetary values) can be displayed or hidden via the **Columns** tab (see "8.14.3 Columns" on page 141).

To display aggregated totals for roles, resources and teams in the assignment grid and sum columns, set **Calculate Sums** to **On** or to **Filtered** in the **General** tab (see "Calculate Sums" on page 138).

- > **Sorting:** In addition to the fields listed here, any custom fields without lookups are available. If you don't select the respective default field, items will be sorted by that field on the second level.
 - **Sort Resources by:** **Name** (Default) or **Primary Role**.
 - **Sort Investments By:** **Investment Type** or **Name** (Default).
 - **Sort Tasks By:** **Finish Date**, **Name**, **Start Date** or **WBS Sort** (Default).
- > **Browser Specific Layout Configuration:** Here you can select to **Use Colors with Higher Contrast**. This setting will affect all your views in itd Advanced Resource Planning.

9 Administration

This chapter describes the administration of itd Advanced Resource Planning:

- > 9.1 Requirements (page 145)
- > 9.2 Supported Locales (page 145)
- > 9.3 User and Administrator Groups (page 146)
- > 9.4 Lookup Access (page 147)
- > 9.5 User Access Rights (page 148)
- > 9.6 Integration and Invocation (page 152)
- > 9.7 Planning Modes (page 152)
- > 9.8 Changing Text Labels (page 153)
- > 9.9 System Settings (page 153)
- > 9.10 Defining Actions (page 154)
- > 9.11 Configuring List and Filter Fields (page 156)
- > 9.12 itd AE Preferences Lookup (page 160)
- > 9.13 itd AE Included Investment Types Lookup (page 171)
- > 9.14 Governors Lookup (Limits and Caches) (page 173)
- > 9.15 Troubleshooting (page 175)

9.1 Requirements

itd Advanced Resource Planning 12.2.0 requires Clarity PPM 16.1.1 or newer.

9.2 Supported Locales

The following locales are currently supported:

- > Danish, Danish(Denmark)
- > Dutch, Dutch(Netherlands), Dutch(Belgium)
- > English, English(United Kingdom), English(United States)
- > Finnish, Finnish(Finland)
- > French, French(Belgium), French(France)
- > German(Germany), German(Switzerland)
- > Italian(Switzerland)
- > Norwegian, Norwegian(Norway)
- > Spanish, Spanish(Spain)
- > Swedish, Swedish(Sweden)

9.3 User and Administrator Groups

This section describes groups for users and administrators of itd Advanced Resource Planning.

9.3.1 ARP Users Group

Add users to this group to grant them access to either of the itd Advanced Resource Planning or the itd Allocation Editor applications.

Please note that users may also be able to use these applications if they have general page and portlet access rights. In this case, these users will be added to the **ARP Users** group when accessing either application in order to keep track of who is using the applications in your organization.

Please also note that, in order to access individual itd Advanced Resource Planning features, users also need the required resource, investment and scenario rights listed in section "9.5 User Access Rights" on page 148.

The **ARP Users** group grants users the following rights:

> **Instance Access Rights**

- Access itd Advanced Resource Planning and itd Allocation Editor pages and portlets.

9.3.2 ARP Admin Group

The **ARP Admin** group grants users the following administrative rights:

> **Instance Access Rights**

- Access itd Advanced Resource Planning and itd Allocation Editor pages and portlets.
- Edit and define itd Advanced Resource Planning and itd Allocation Editor pages and portlets.

> **Global Access Rights**

- Full rights for **itd AE Actions** (define menu actions, see "9.10 Defining Actions" on page 154)
- Full rights for **itd AE Attribute Configuration** (add list fields, editable fields and filter fields, see "9.11 Configuring List and Filter Fields" on page 156.)
- Full rights for **itd AE Attribute Source** (add additional Clarity PPM standard fields to the list of available fields, please contact us if you wish to do this.)

> **Other Administrative Features in itd Advanced Resource Planning**

- **Application:** unlock projects locked due to changes made in itd Advanced Resource Planning by other users (any user may unlock projects that were locked due to their own changes in itd Advanced Resource Planning.)
- **User Preferences:** System Settings (see "9.9 System Settings in Preferences" on page 153)
- **URL Parameter:** `&flushCaches=true` (apply newly added fields and changed settings, see "9.11 Configuring List and Filter Fields" on page 156, "9.12 itd AE Preferences Lookup" on page 160, "9.13 itd AE Included Investment Types Lookup" on page 171 and "9.14 Governors Lookup (Limits and Caches)" on page 173)

9.4 Lookup Access

Some settings are managed via lookups. Editing them requires the global **Administration – Application Setup** right, which Clarity PPM application administrators have by default.

9.4.1 itd AE Preferences Lookup

Some application settings are managed via the **itd AE Preferences** lookup.

The **ID (code)** of this lookup is **PL.ITD.AE.LKP.PREFERENCES**.

It is used for both itd Advanced Resource Planning and the itd Allocation Editor.

See "9.12 itd AE Preferences Lookup" on page 160 for details.

9.4.2 itd AE Included Investment Types Lookup

As of version 12.0.0, the installation package of itd Advanced Resource Planning now includes the **itd AE Included Investment Types** lookup.

The **ID (code)** of this lookup is **PL_ITD_AE_LKP_INCLUDED_INV_TYPES**.

Here you can filter selected view modes by investment type. Modes for which you define no filters won't be filtered by investment type.

> **Please note:** *This configuration works only for the global investment mode. It is neither implemented for the single investment mode nor the roadmap mode.*

See "9.13 itd AE Included Investment Types Lookup" on page 171 for details.

9.4.3 Governors Lookup (Limits and Caches)

Some database access and memory usage settings may be managed by creating a lookup with the **ID (code) = PL_ITD_AE_LKP_GOVERNORS**. Starting with version 8.3 of itd Advanced Resource Planning, this replaces the `p1_itd_ae.properties` file, which is no longer supported.

It is used for both itd Advanced Resource Planning and the itd Allocation Editor.

See "9.14 Governors Lookup (Limits and Caches)" on page 173 for details.

9.5 User Access Rights

This section lists access rights required for application features by view mode.

9.5.1 Allocations by Investment Access Rights

Features	Resource Access Rights	Investment Access Rights
<ul style="list-style-type: none"> View team entries of investments and associated allocations 	<ul style="list-style-type: none"> None, all team entries for all visible investments and associated allocations will be displayed. 	<ul style="list-style-type: none"> View¹
<ul style="list-style-type: none"> View resources, roles and teams with total utilization and total capacity 	<ul style="list-style-type: none"> Resource - Soft Book OR Resource - View² 	<ul style="list-style-type: none"> None
<ul style="list-style-type: none"> Show team entries (investments) when clicking on histogram segments 	<ul style="list-style-type: none"> Resource - Soft Book OR Resource - View OR Investment - View² 	
<ul style="list-style-type: none"> Add new resources, roles and teams³ Replace allocation via drag-and-drop from the resource/role/team view³ 	<ul style="list-style-type: none"> Resource - Soft Book 	<ul style="list-style-type: none"> Edit
	<ul style="list-style-type: none"> Resource - Hard Book⁴ 	<ul style="list-style-type: none"> View
<ul style="list-style-type: none"> Edit Allocation Allocate from Estimates Accept Hard Allocation 	<ul style="list-style-type: none"> Resource - Hard Book⁵ 	<ul style="list-style-type: none"> View (no resource right required with Edit)⁵
<ul style="list-style-type: none"> Move team entry without hard allocation (change start or finish date) 	<ul style="list-style-type: none"> Resource - Hard Book⁵ 	<ul style="list-style-type: none"> View (no resource right required with Edit)⁵
<ul style="list-style-type: none"> Move team entry with hard allocation (change start or finish date) Edit Hard Allocation Commit Allocation 	<ul style="list-style-type: none"> Resource - Hard Book⁵ 	<ul style="list-style-type: none"> View⁵
<ul style="list-style-type: none"> Create Requisition 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Project - Create/Edit Requisition

¹ Viewing team entries and associated allocations requires the respective investment type's **View** right (e.g., **Project - View**).

² Required rights may be configured via feature toggles, see items 9.12.10, 9.12.11 and 9.12.12 in section "9.12 itd AE Preferences Lookup" on pages 157ff.

Role capacities include all associated resources regardless of access rights for these resources.

³ These actions are available with both combinations of access rights listed here.

⁴ **Resource - Hard Book** includes **Resource - Soft Book**.

⁵ With the **Edit** right for an investment type (e.g., **Project - Edit**), no resource right is required for editing team entries (except for editing the **Hard Allocation**, which requires **Resource - Hard Book**).

9.5.2 Allocations by Resource Access Rights

Features	Resource Access Rights	Investment Access Rights
<ul style="list-style-type: none"> View resources, roles and teams with team entries and associated allocations View total utilization and total capacity of resources, roles and teams 	<ul style="list-style-type: none"> None, all resources, roles and teams with team entries for visible investments will be displayed¹ 	<ul style="list-style-type: none"> View¹
<ul style="list-style-type: none"> Edit Allocation Allocate from Estimates Accept Hard Allocation 	<ul style="list-style-type: none"> Resource – Hard Book² 	<ul style="list-style-type: none"> View (with Edit, only Resource – View is required)²
<ul style="list-style-type: none"> Move team entry without hard allocation (change start or finish date) 	<ul style="list-style-type: none"> Resource – Hard Book² 	<ul style="list-style-type: none"> View (with Edit, only Resource – View is required)²
<ul style="list-style-type: none"> Move team entry with hard allocation (change start or finish date) Edit Hard Allocation Commit Allocation 	<ul style="list-style-type: none"> Resource – Hard Book² 	<ul style="list-style-type: none"> View²
<ul style="list-style-type: none"> Create Requisition 	<ul style="list-style-type: none"> None³ 	<ul style="list-style-type: none"> Project – Create/Edit Requisition

¹ Viewing team entries and associated allocations requires the respective investment type's **View** right (e.g., **Project – View**).

Optionally, all resources, roles and teams for which the user has the **Resource – View** right will be displayed instead. In this case, no investment right is required for viewing associated team entries and allocations, see item 9.12.13 under "9.12 itd AE Preferences Lookup" on pages 157ff.

Role capacities include all associated resources regardless of access rights for these resources.

² With the **Edit** right for an investment type (e.g., **Project – Edit**), only **Resource – View** is required for editing team entries (except for editing the **Hard Allocation**, which requires **Resource – Hard Book**).

³ **Resource – View** right optionally required, see ¹.

9.5.3 Assignments by Investment Access Rights

Features	Resource Access Rights	Investment Access Rights
<ul style="list-style-type: none"> View assignments including investments, phases, tasks, milestones, dependencies and assigned resources, roles and teams 	<ul style="list-style-type: none"> None, all assignments for all visible investments will be displayed 	<ul style="list-style-type: none"> View¹
<ul style="list-style-type: none"> View resources, roles and teams with total utilization and total capacity 	<ul style="list-style-type: none"> Resource - Soft Book OR Resource – View² 	<ul style="list-style-type: none"> None
<ul style="list-style-type: none"> Show team entries (investments) when clicking on histogram segments 	<ul style="list-style-type: none"> Resource - Soft Book OR Resource – View OR Investment – View² 	
<ul style="list-style-type: none"> Edit assignments Edit investments (project name, project structure with phases, tasks and milestones, start and finish of NPIOs) 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Edit³
<ul style="list-style-type: none"> Create assignments for team members (assign resources, roles and teams with existing team entries in the investment via drag-and-drop from the resource utilization view to tasks) 	<ul style="list-style-type: none"> Resource - View 	<ul style="list-style-type: none"> Edit³
<ul style="list-style-type: none"> Create new team entries with assignments (assign resources, roles and teams without team entries in the investment via drag-and-drop from resource utilization view to tasks or NPIOs) & multi-role assignments 	<ul style="list-style-type: none"> Resource - Soft Book 	<ul style="list-style-type: none"> Edit³
<ul style="list-style-type: none"> Allocate from Estimates 	<ul style="list-style-type: none"> Resource – Hard Book⁴ 	<ul style="list-style-type: none"> View (no resource right required with Edit)⁴

¹ Viewing assignments requires the respective investment type's **View** right (e.g., **Project – View**).

² Required rights may be configured via feature toggles, see items 9.12.10, 9.12.11 and 9.12.14 in section "9.12 itd AE Preferences Lookup" on pages 157ff.

Role capacities include all associated resources regardless of access rights for these resources.

³ Editing assignments and investments and creating team entries and assignments requires the respective investment type's **Edit** right (e.g., **Project – Edit**).

⁴ With the **Edit** right for an investment type (e.g., **Project – Edit**), no resource right is required for the **Allocate from Estimates** action.

9.5.4 Assignments by Resource Access Rights

Features	Resource Access Rights	Investment Access Rights
<ul style="list-style-type: none"> View resources, roles and teams with total utilization and total capacity 	<ul style="list-style-type: none"> None, all resources, roles and teams with team entries for visible investments will be displayed.¹ 	<ul style="list-style-type: none"> View²
<ul style="list-style-type: none"> View assignments including investments and tasks as well as team entries without assignments 	<ul style="list-style-type: none"> None¹ 	<ul style="list-style-type: none"> View²
<ul style="list-style-type: none"> Edit assignments 	<ul style="list-style-type: none"> None¹ 	<ul style="list-style-type: none"> Edit³
<ul style="list-style-type: none"> Create assignments for resources, roles and teams with existing team entries in a project for associated tasks 	<ul style="list-style-type: none"> None¹ 	<ul style="list-style-type: none"> Edit³
<ul style="list-style-type: none"> Create new team entries with assignments (create assignments for resources, roles and teams in tasks belonging to a project without team entries for those resources, roles and teams) 	<ul style="list-style-type: none"> Resource – Soft Book 	<ul style="list-style-type: none"> Edit³
<ul style="list-style-type: none"> Allocate from Estimates 	<ul style="list-style-type: none"> Resource – Hard Book⁴ 	<ul style="list-style-type: none"> View (no resource right required with Edit)⁴

9.5.5 Access Rights for Resource Managers

Please note that while **Resource Managers** always have the **Hard Book** and **View/View Financial** resource rights, they still require the listed access rights for viewing and editing investments.

9.5.6 Access Rights for Scenarios

In the allocations modes, you can edit scenario data instead of the plan of record with edit rights for the respective scenario. Investment rights are not required. Shifting and resizing investments with hard allocations in this mode requires the **Resource – Hard Book** right for all associated resources. For details about required access rights for generally accessing scenarios as well as viewing and editing specific scenarios, see section "5.11 Scenario Comparison" on page 52.

¹ Optionally, the view will only display resources, roles and teams for which the user has the **Resource – View** right. In this case, **View** rights for associated investments are still required as well, see item 9.12.15 in section "9.12 itd AE Preferences Lookup" on pages 157ff. Role capacities include all associated resources regardless of access rights for these resources.

² Viewing assignments requires the investment type's **View** right (e.g., **Project – View**).

³ Editing and creating assignments requires the investment type's **Edit** right (e.g., **Project – Edit**).

⁴ With the **Edit** right for an investment type (e.g., **Project – Edit**), no resource right is required for the **Allocate from Estimates** action. Please note that the **Resource – View** right may be required to display roles, resources and their assignments, see ¹.

9.6 Integration and Invocation

itd Advanced Resource Planning is implemented as a standard Clarity PPM HTML portlet.

- > **Name:** itd Advanced Resource Planning, **ID:** pl.itd.ae.prt.assignment.editor
- > The portlet can be added to any portlet page.
- > The portlet is accessible to users with appropriate access rights, similar to any other Clarity PPM portlet. Add users to the **ARP Users** group to grant them access to the itd Advanced Resource Planning application (see "9.3.1 ARP Users Group" on page 146).

9.7 Planning Modes

itd Advanced Resource Planning supports four planning modes, depending on how it is integrated:

- > The **multiple investment mode** is evoked when itd Advanced Resource Planning is opened from any portlet page that is not an investment portlet page. In this mode, multiple investments and associated data will be displayed, depending on your filter settings.
- > The **single investment mode** is evoked when itd Advanced Resource Planning is opened from the portlet page of an investment. This mode displays a single investment and associated data. For investments with parent objects, displaying and editing the parent structure is optional, depending on the **Hide Parent Hierarchy Levels in Single Investment Mode** option on the **System Settings** tab of the **Preferences**, which is only accessible to members of the **ARP Admin** group (see "9.9 System Settings in Preferences" on page 153).

In the single investment mode, in the **Assignments by Investment** view mode only, users may graphically compare assignments with the planned or hard allocation of associated team entries in the histogram instead of ETC and capacity.

For details about using this feature, see section "7.12.11 Assignments and Allocations in Single Investment Mode" on page 111.

For details about the **Preferences** for this feature, see "Histogram Comparison (Single Investment Mode Only)" on page 124.

- > The **roadmap scenario mode** is evoked when itd Advanced Resource Planning is integrated as a channel in a roadmap blueprint in the Modern UX as follows, replacing **[clarity url]** by your Clarity PPM system's URL: `https://[clarity url]/niku/nu#action:pl.itd.ae.page.assignment.editor&puiFullscreen=on&puiHidePPMTabs=on&roadmapId=${_internalId}`
This mode links roadmap scenarios to capacity scenarios in the **Allocations** modes. Roadmap item dates and the **In Plan** field are automatically applied to the linked investments in the capacity scenario.

Changes made to these investment properties and allocations in itd Advanced Resource Planning are automatically synchronized back to the associated roadmap items in the linked roadmap scenario. Each roadmap scenario's capacity scenario is automatically created when the view is first opened for that roadmap scenario. When the view is reopened for the same roadmap scenario, no matter by which user, the stored capacity scenario will be loaded. This way, multiple users may work together on the same roadmap scenario. Any saved changes will be restored. See "5.12 Roadmap Scenario Mode" on page 55 for details.

- > The **hierarchy mode** is evoked when itd Advanced Resource Planning is integrated as a channel in a hierarchy blueprint in the Modern UX as follows, replacing **[clarity url]** by your Clarity PPM system's URL: `https://[clarity url]/niku/nu#action:pl.itd.ae.page.assignment.editor&puiFullscreen=on&puiHidePPMTabs=on&hierarchyId=${_internalId}`

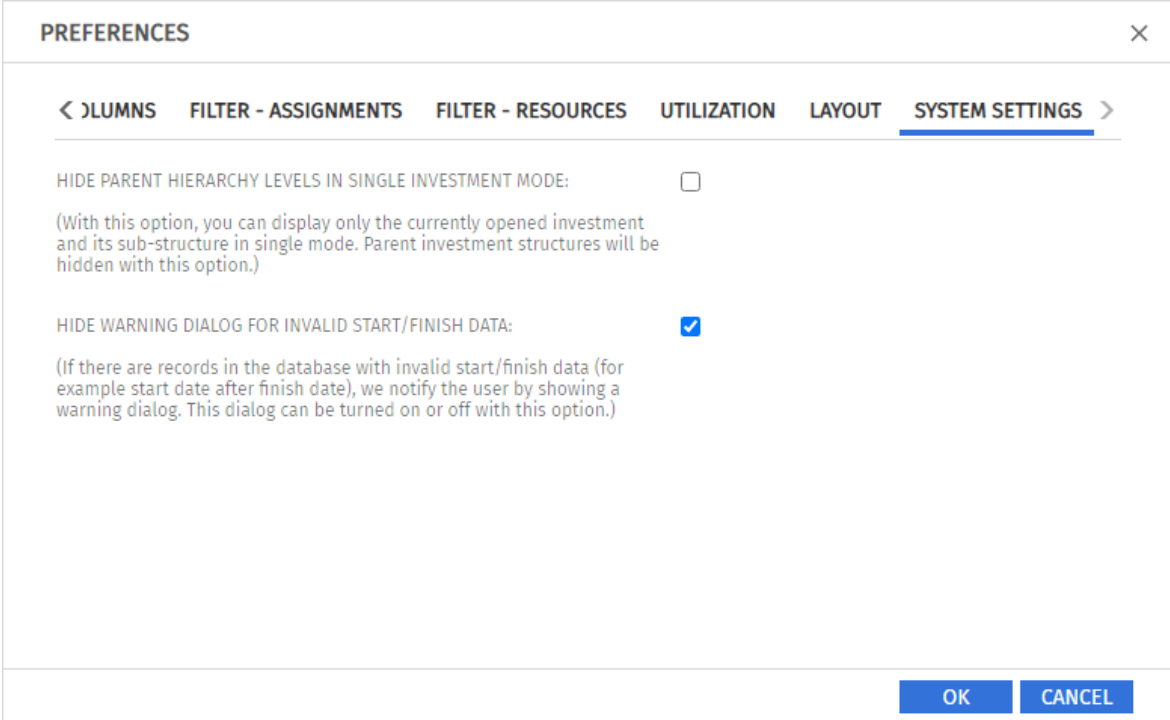
9.8 Changing Text Labels

You can change any text labels displayed in itd Advanced Resource Planning and the itd Allocation Editor via a custom lookup.

Please contact us if you wish to do so.

9.9 System Settings in Preferences

In the **Preferences**, members of the **ARP Admin** group have access to the **System Settings** tab.



The screenshot shows a dialog box titled "PREFERENCES" with a close button (X) in the top right corner. Below the title bar is a navigation menu with tabs: "< COLUMNS", "FILTER - ASSIGNMENTS", "FILTER - RESOURCES", "UTILIZATION", "LAYOUT", and "SYSTEM SETTINGS >". The "SYSTEM SETTINGS" tab is selected and underlined. The main content area contains two settings:

- HIDE PARENT HIERARCHY LEVELS IN SINGLE INVESTMENT MODE:** This setting is currently unchecked (checkbox). Below it is a descriptive text: "(With this option, you can display only the currently opened investment and its sub-structure in single mode. Parent investment structures will be hidden with this option.)"
- HIDE WARNING DIALOG FOR INVALID START/FINISH DATA:** This setting is currently checked (checkbox). Below it is a descriptive text: "(If there are records in the database with invalid start/finish data (for example start date after finish date), we notify the user by showing a warning dialog. This dialog can be turned on or off with this option.)"

At the bottom right of the dialog box are two buttons: "OK" and "CANCEL".

- > **Hide Parent Hierarchy Levels in Single Investment Mode:** this option only applies to single project mode and is therefore not available in multi investment mode (see "9.7 Planning Mode" on page 152).
- > **Hide Warning Dialog for Invalid Start/Finish Data:** this option is global and always available.

9.10 Defining Actions

Members of the **ARP Admin** group may disable standard actions and add custom actions (context menu options) available in itd Advanced Resource Planning.

9.10.1 Accessing the Action Configuration

In the Classic UI, select **Home – Custom Objects – itd AE Actions List**.

9.10.2 Action Overview

The action list provides an overview of defined actions.

itd AE Actions List

Order ID	Process ID	Standard Action	Objects	Views	Tool Mode	Active
		Autoschedule Project	Project	Advanced Resource Planning - Assignments by Investment	Both Modes	
		Allocate From Estimates	Assignment;Idea;Other;Product;Project;Service;Team	All	Both Modes	

Displaying 1 - 2 of 2

SAVE NEW ITD AE ACTIONS DELETE

The displayed examples for deactivating standard actions are described on the following page in section "9.10.4 Examples for Deactivating Standard Actions".

- > **Order ID:** determines the order of the actions. The lowest ID will be placed first. To reorder standard actions, add them and order them via this field.
- > **Process ID** and **Standard Action:** these columns define the type of the action.
- > **Objects:** object types for which the action will be available.
- > **Views:** this column shows on which applications and view modes the action will appear.
- > **Tool Mode:** this column shows on which tool mode the action will appear (single or multiple)
- > **Active:** use this column to deactivate or activate actions.

9.10.3 Adding a Custom Action or Removing a Standard Action

Click **New itd AE Actions** to create a new action object.

Create itd AE Actions

General

PROCESS ID

STANDARD ACTION

TOOL MODE Both Modes

OBJECTS

- Application
- Asset
- Assignment
- Idea
- Other

VIEWS

- All

ACTIVE

PAGE LAYOUT itd AE Actions Default Layout

SAVE SAVE AND RETURN RETURN

Required

- > Select a **Process ID** to add a process action or select a **Standard Action** to remove.
- > **Process Action:** invokes a Clarity PPM process when the user invokes the action.
 - The data of the current model is transferred to the process as parameters.
 - To support processes covering different object types, we transfer the **OBJECT_TYPE** and **OBJECT_ID** of the objects for which the process should be called.
 - Select for which **Tool Mode, Objects** and **Views** the action should be visible.
Consider that each condition has to be fulfilled to make the action visible.
- > **Standard Action:** remove a standard action completely or for selected tool modes (single or multiple investments), object types or views (applications and view modes).
 - Select the action to remove under **Standard Action**.
 - Deselect the **Active** option to remove the action altogether. To remove the action for individual tool modes, object types and views, select or remove the appropriate items.
 - **Please note:** although all tool modes, objects and views will initially be selected when adding a standard action, most standard actions are only available for some objects (listed under **Description** in the lookup browse window for selecting a standard action) and views.
You can't add an action for an object or view for which it isn't available by default.
 - You can reset to the default for an action by deleting the associated **itd AE Actions** item.

9.10.4 Examples for Deactivating Standard Actions

The following examples deactivate these standard actions:

- > **Autoschedule Project** in itd Advanced Resource Planning (Assignments by Investment) in both modes (single and multiple investment).
- > **Allocate from Estimates** for all investment types, team entries and assignments in all views (for both modules itd Allocation Editor and itd Advanced Resource Planning) and in both modes.

itd AE Actions List

Filter: None							
<input type="checkbox"/>	Order ID	Process ID	Standard Action	Objects	Views	Tool Mode	Active
<input type="checkbox"/>			Autoschedule Project	Project	Advanced Resource Planning - Assignments by Investment	Both Modes	<input type="checkbox"/>
<input type="checkbox"/>			Allocate From Estimates	Assignment;Idea;Other;Product;Project;Service;Team	All	Both Modes	<input type="checkbox"/>

Displaying 1 - 2 of 2

SAVE NEW ITD AE ACTIONS ✓ DELETE

9.10.5 Updating itd Advanced Resource Planning

To update itd Advanced Resource Planning after changing the action configuration, simply refresh your browser by pressing [F5].

Resetting the cache for itd Advanced Resource Planning is not required.

9.11 Configuring List and Filter Fields

Members of the **ARP Admin** group may add list and filter fields to itd Advanced Resource Planning and to the itd Allocation Editor in the attribute configuration list.

- > For list fields, you can also determine whether they are editable.
- > Use the `&flushCaches=true` URL parameter to update the applications with newly added fields (see section "9.11.11 Updating itd Advanced Resource Planning" on page 159).

9.11.1 Accessing the Attribute Configuration List

In the Classic UI, select **Home – Custom Objects – itd AE Attribute Configuration List**.

9.11.2 Attribute Configuration List View

The attribute configuration list displays additional list and filter fields.

Here, you can edit, deactivate or remove fields and add new fields.

itd AE Attribute Configuration List

	Attribute Title	Attribute Label	Sources	Include in Grids	Is Editable	Include in Filters	Include in Utilization Filter	Resource Type	Active
<input type="checkbox"/>			resource.resource_type	✓	✓	✓			✓
<input type="checkbox"/>		team.prstatus	team.prstatus	✓	✓		✓		✓

Displaying 1 - 2 of 2

SAVE
NEW ITD AE ATTRIBUTE CONFIGURATION
✓ DELETE

The following properties control where each field is available in itd Advanced Resource Planning:

- > **Include in Grids:** field may be added to displayed **Columns** or **Utilization – Columns**.
Exactly where a field will be available as a column depends on the objects of the associated view. For example, only resource fields will be available under **Utilization – Columns**.
- > **Is Editable:** field may be edited in the list. This is only relevant when **Include in Grid** is selected. Attributes configured as **Read-Only** in the **Studio** will never be editable, even if selected here. Some attribute types don't support editing and will never be editable, even if selected here (see "9.11.5 Supported Attribute Types" on page 158).
This also applies to a small number of Clarity PPM default attributes.
- > **Include in Filters:** field may be selected as a filter field.
Some attribute types don't support filtering and will never be available as filter fields even if selected here (see "9.11.5 Supported Attribute Types" on page 158).
This also applies to a small number of Clarity PPM default attributes.
- > **Include in Utilization Filter:** field is included in the utilization filter. This is currently supported for **Lookup** and **Boolean** fields of the **Investment** and **Team** objects.
- > **Resource Type:** this only applies to custom time scaled monetary values (**time-varying** attribute type, see "7.7.1 Integrating a Custom Time Scaled Monetary Value" on page 95).
Defines for which resource types the value will be displayed and editable.
- > **Active:** deselect this to remove a field from the selection of columns and filter fields without deleting the associated configuration.

9.11.3 Adding Fields

Click on **New itd AE Attribute Configuration** to add a new field.

- > **Attribute Title:** field name to display. This is only required if you don't wish to display the name of the field specified as **Attribute Label** or **Source** field.
- > **Attribute Label:** field whose name to display. This is only required if you don't wish to display the name of the field specified as **Source** field, or if you are defining a field with multiple sources.
Please note: for merged fields (fields with multiple sources), the **Attribute Label** also determines the views in which the field may be added as a **Visible Column**. See following section for details.
- > **Source:** field or fields to display. You can merge fields by selecting more than one field here to display fields for multiple objects in the associated rows or to filter by multiple objects at once. In this case, consider the following:
 - Use no more than one field from each object.
Additional fields from the same object will be ignored.
 - Use the same data type for all source fields (e.g., String or Number).
Merged fields with multiple data types won't be selectable as columns or filter fields.
 - Select a field as **Attribute Label** to display as column header in the list. If you don't specify a label field, a random source field will automatically be selected as label field.
Please note: The label field not only determines the displayed column header but also the views in which the merged field will be available for selection under **Columns**.
It will be restricted to views where the label field's object is available:
 - **Assignments by Investment:** investments & sub-types, tasks, assignments
 - **Assignments by Resource:** resources, tasks, assignments
 - **Allocations by Investment:** investments & sub-types, team entries
 - **Allocations by Resource:** resources, team entries
 Examples:
 - A field with label `Project.field` will be restricted to the **by Investment** views.
 - A field with label `Resource.field` will be restricted to the **by Resource** views.
 Merged fields will always be available as filter fields for all view modes regardless of the selected label field.

- If you also specify an **Attribute Title**, that will be displayed as column header in the list instead of the **Attribute Label**. In this case, the **Attribute Label** will still determine the views in which the merged field will be available.

See previous page for the remaining properties you can configure in this view.

9.11.4 Supported Object Types

The following object types are currently supported:

- > Application
- > Asset
- > Assignment
- > Idea
- > Investment
- > Other
- > Product
- > Project
- > Resource
- > Service
- > Task
- > Team

9.11.5 Supported Attribute Types

The following attribute types are currently supported:

- > String
- > Large String
- > Number
- > Percent
- > Calculated (see "9.11.6 Restrictions for Calculated and Formula Attributes" on page 159)**
- > Formula (see "9.11.6 Restrictions for Calculated and Formula Attributes" on page 159)**
- > Money
- > Boolean
- > Date
- > Static Lists:
 - Single Value Number, String
 - Multi Value Number, String
- > Static Dependent Lists:
 - Single Value Number, String
 - Multi Value Number, String
- > Dynamic SQL (also with parameters)
 - Single Value Number, String
 - Multi Value Number, String
- > URL*
- > Time-varying (for assignments only, see "7.7.1 Integrating a Custom Time Scaled Monetary Value" on page 95)

* This type doesn't support editing.

** This type doesn't support editing or filtering.

9.11.6 Restrictions for Calculated and Formula Attributes

Most of the attributes which can be used in a **Calculated** or **Formula** attribute are supported.

Attributes which the custom calculated/formula columns do not support:

- > All Lookup attributes
- > Assignment – Has Guidelines
- > Investments – Business Alignment
- > Investments – Include Sub-Departments
- > Project – Schedule to Baseline
- > Project – Schedule Variance %
- > Resource – Capacity Rate
- > Resource – Show Resources in Sub-departments

9.11.7 Restrictions for Virtual Attributes

Virtual attributes are generally supported.

The following restrictions currently apply:

- > Virtual attributes on custom investments are not yet supported.
- > Virtual attributes on other virtual attributes are not yet supported.

9.11.8 Custom Investment Types

You can't directly add attributes for custom investment types. However, custom investment types automatically inherit any attributes you add on the **Investment** object level.

9.11.9 Supported Attributes

You can add most Clarity PPM standard attributes and any custom attributes of supported objects and types (see "9.11.4 Supported Object Types" and "9.11.5 Supported Attribute Types" on page 158).

9.11.10 Adding Additional Clarity PPM Standard Attributes

Please contact us if you wish to add a Clarity PPM standard attribute that isn't currently supported.

9.11.11 Updating itd Advanced Resource Planning

After adding new attributes, you may need to reset the cache for itd Advanced Resource Planning to make them available in the application.

This requires membership in the **ARP Admin** group.

To do so, call the portlet with the `&flushCaches=true` URL parameter:

- > `https://{ca.ppm.url}/niku/nu#action:pl.itd.ae.page.assignment.editor&flushCaches=true`

Please note that the parameter won't be passed to an embedded page in the Modern UI.

You need to open the portlet in the Classic UI with the `&flushCaches=true` parameter to reset the cache.

9.12 itd AE Preferences Lookup

Some application settings are managed via the **itd AE Preferences** lookup:

- > The **ID (code)** of this lookup is **PL.ITD.AE.LKP.PREFERENCES**.
- > Creating and editing lookups requires the global **Administration – Application Setup** right, which Clarity PPM application administrators have by default.
- > This lookup is used for both itd Advanced Resource Planning and the itd Allocation Editor. Please note that not all settings apply to all views in both applications (see **Scope**).
- > Use the **&flushCaches=true** URL parameter to update the applications with changed settings (see section "9.12.30 Updating itd Advanced Resource Planning" on page 170).

9.12.1 Hide Preferences Tabs

Scope: itd Advanced Resource Planning and itd Allocation Editor

ID (LOOKUP_CODE): hidden_preference_tabs

Initial Setting: active with **Description = query_limits**

Activate: set **Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: set **Active = false** (will apply default) OR remove elements from **Description**

Possible Elements: (default: query_limits)

- > general: **General**
- > time_slice: **Timeslices**
- > visible_columns: **Columns**
- > filter_layout_config: **Filter / Filter – Assignments / Filter – Allocations**
- > utilization_layout_config: **Filter – Resources**
- > utilization: **Utilization**
- > layout: **Layout**
- > query_limits: **Query Limits**

Effect:

- > Hide **Preferences** tabs listed in **Description**

9.12.2 Hide Toolbar Buttons

Scope: itd Advanced Resource Planning and itd Allocation Editor

ID (LOOKUP_CODE): hidden_toolbar_buttons

Initial Setting: active with **Description = expand_all, collapse_all**

Activate: **Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Active = false** (will apply default) OR remove elements from **Description**

Possible Elements: (default: expand_all, collapse_all)

- > preferences: **Preferences**
- > visualization: **Visualization**
- > export_to_excel: **Export to Excel**
- > scenario: **Scenario**
- > expand_all: **Expand all** (this may affect the performance when expanding many items)
- > collapse_all: **Collapse all** (this may affect the performance when collapsing many items)
- > detailed_view: **Detailed view** of assignments in **Assignments by Investment** mode.

Effect:

- > Hide toolbar buttons listed in **Description**

9.12.3 Restrict Time Slice Periods in the Preferences and in the Toolbar

Scope: itd Advanced Resource Planning and itd Allocation Editor

ID (LOOKUP_CODE): preference_tab_time_slice

Initial Setting: deactivated with **Description = timeslice_mode: month, year, quarter**

Activate: Active = true AND add elements to **Description**, separated by commas ","

Deactivate: Active = false (will apply default) OR remove elements from **Description**

Possible Elements: (default: all)

- > day: **Days**
- > week: **Weeks**
- > month: **Months**
- > quarter: **Quarters**
- > year: **Calendar Years**
- > fiscal_period: **Fiscal Period**

Effect:

- > Only time slice periods listed in the **Description** will be available for selection in the **Preferences** and in the toolbar.

9.12.4 Prevent Editing by Work Effort Unit

Scope: itd Advanced Resource Planning and itd Allocation Editor

ID (LOOKUP_CODE): read_only_work_effort_units

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1** AND **Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: Lookup Value Name = 0 OR **Active = false** OR remove elements from **Description**

Possible Elements: (default: none)

- > UNIT_SYSTEM: **System Standard** (configurable)
- > UNIT_HOURS: **Hours**
- > UNIT_DAYS: **Days**
- > UNIT_FTE: **FTE** (full time equivalents)

Effect:

- > When an entered unit is selected for itd Advanced Resource Planning, it is no longer possible to enter, delete or modify workloads. Additionally, it is no longer possible to change the start or finish of any object in the list or Gantt view or rename investments or tasks.
- > It is still possible to add, replace or copy assignments and team entries.

9.12.5 Hide Primary/Parent Role Name

Scope: itd Advanced Resource Planning

ID (LOOKUP_CODE): hide_primary_role_name

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1** AND **Active = true**

Deactivate: Lookup Value Name = 0 OR **Active = false**

Effect:

- > By default, the **Name** column displays a resource's primary role or a role's parent role, if applicable, next to their name in all modes.
- > With this setting, primary roles for resources and parent roles for roles won't be displayed.

9.12.6 Use Old Skills Hierarchy

Scope: itd Advanced Resource Planning

ID (LOOKUP_CODE): use_old_skills_hierachy

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > By default, Clarity system with version 16.2.3 and up use the new skills defined in the modern UX.
- > As the new skills, unlike the **Skills Hierarchy**, are not supported on team entries at the moment, you can switch back to the old **Skills Hierarchy** with this feature toggle.

9.12.7 Show Grid Hints for by Investment Views

Scope: itd Advanced Resource Planning, Allocations/Assignments by Investment

ID (LOOKUP_CODE): layout_option_tooltip_invest

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > With this setting, hovering over the allocation or assignment grid will show a hint listing the displayed values as configured in the **Layout** tab of the **Preferences**, such as **ETC / Capacity**. This doesn't affect the hints for the grid in the resource list, which are always displayed.

9.12.8 Show Grid Hints for by Resource Views

Scope: itd Advanced Resource Planning, Allocations/Assignments by Resource

ID (LOOKUP_CODE): layout_option_tooltip_resource

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > With this setting, hovering over the allocation or assignment grid will show a hint listing the displayed values as configured in the **Layout** tab of the **Preferences**, such as **ETC / Capacity**. This doesn't affect the hints for the grid in resource rows, which are always displayed.

9.12.9 Initially Load Investment Structure in Investment Modes

Scope:

- > itd Advanced Resource Planning, Allocations/Assignments by Investment
- > itd Allocation Editor, Allocations by Investment

ID (LOOKUP_CODE): calc_inv_has_children_flag

Initial Setting: active (lookup value doesn't exist)

Activate: Lookup Value Name = 1 OR Active = false

Deactivate: create lookup value with **Lookup Value Name = 0 AND Active = true**

Effect:

- > By default, in the investment modes, opening or refreshing the view will load the complete sub-structure of each displayed investment. In **Assignments by Investment** mode, this includes sub investments, phases, tasks and assignments. In **Allocations by Investment** mode, this includes sub investments and team entries.
The expand icon will then only be displayed for investments with a sub-structure.
Loading the complete sub-structure of each investment can take considerable time, depending on the exact data structure.
- > Create a lookup value with **Lookup Value Name = 0, ID = calc_inv_has_children_flag** and **Active = true** to prevent loading the full sub-structure of each investment when the view is opened or refreshed, saving some loading time.
The expand icon will then be displayed for all investments without checking whether they do have a sub-structure. Clicking this icon will load existing sub-structures or hide the icon where no sub-structure exists.

9.12.10 Configure by Investment Resource View Rights

Scope: itd Advanced Resource Planning, Allocations/Assignments by Investment

ID (LOOKUP_CODE): check_res_view_right_for_util

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: Lookup Value Name = 0 OR Active = false

Effect:

- > By default, the resource utilization histogram will display the utilization for any resource, role or team for which the user has at least the **Resource – Soft Book** right.
- > With this setting, the resource utilization histogram will only display the utilization for resources, roles and teams for which users have at least the **Resource – View** right.

9.12.11 Configure by Investment Resource View Popup Rights

Scope: itd Advanced Resource Planning, Allocations/Assignments by Investment

ID (LOOKUP_CODE): capacity_popup_with_soft_book

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > By default, clicking on utilization histogram slices will only display team entries and investments for resources, roles and teams for which the user has at least the **Resource – View** right.
- > With this setting, clicking on utilization histogram slices will display team entries and investments for resources, roles and teams for which the user has at least the **Resource – Soft Book** right.
- > Depending on the **resource_view_right_all_by_inv** and **resource_view_right_ass_by_inv** settings, investment rights may apply for team entries of resources, roles and teams for which users have no resource rights, see sections 9.12.12 and 9.12.14.

9.12.12 Configure Allocations by Investment View Resource Rights

Scope: itd Advanced Resource Planning, Allocations by Investment

ID (LOOKUP_CODE): resource_view_right_all_by_inv

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Lookup Value Name = 0 OR Active = false** OR remove elements from **Description**

Possible Elements: (add both to apply to both modes)

- > **SINGLE_INV:** apply setting to single investment mode
- > **ALL_INV:** apply setting to multiple investment mode

Effect:

- > By default, clicking on utilization histogram slices will display team entries for investments for which the user has at least the **Investment – View** right as well as team entries of any resource, role and team for which the user has at least the **Resource –View/Soft Book** right (see 9.12.11).
- > With this setting, clicking on utilization histogram slices in the **Allocations by Investment** view will only consider resource rights and ignore any additional investment rights.
- > The setting may be activated for single investment mode and multiple investment mode independently by adding either or both of **SINGLE_INV** and **ALL_INV** to the **Description**.

9.12.13 Configure Allocations by Resource View Rights

Scope:

- > itd Advanced Resource Planning, Allocations by Resource
- > itd Allocation Editor, Allocations by Resource

ID (LOOKUP_CODE): resource_view_right_all_by_res

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Lookup Value Name = 0 OR Active = false** OR remove elements from **Description**

Possible Elements: (add both to apply to both modes)

- > SINGLE_INV: apply setting to single investment mode
- > ALL_INV: apply setting to multiple investment mode

Effect:

- > By default, the **Allocations by Resource** view will display any resources, roles and teams with team entries for investments for which the user has the respective **View** right.
- > With this setting, any resources, roles and teams for which the user has the **Resource – View** right and their team entries will be displayed instead, ignoring investment rights.
- > The setting may be activated for single investment mode and multiple investment mode independently by adding either or both of **SINGLE_INV** and **ALL_INV** to the **Description**.

9.12.14 Configure Assignments by Investment View Resource Rights

Scope: itd Advanced Resource Planning, Assignments by Investment

ID (LOOKUP_CODE): resource_view_right_ass_by_inv

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Lookup Value Name = 0 OR Active = false** OR remove elements from **Description**

Possible Elements: (add both to apply to both modes)

- > SINGLE_INV: apply setting to single investment mode
- > ALL_INV: apply setting to multiple investment mode

Effect:

- > By default, clicking on utilization histogram slices will display team entries for investments for which the user has at least the **Investment – View** right as well as team entries of any resource, role and team for which the user has at least the **Resource –View/Soft Book** right (see 9.12.11).
- > With this setting, clicking on utilization histogram slices in the **Assignments by Investment** view will only consider resource rights and ignore any additional investment rights.
- > The setting may be activated for single investment mode and multiple investment mode independently by adding either or both of **SINGLE_INV** and **ALL_INV** to the **Description**.

9.12.15 Configure Assignments by Resource View Rights

Scope: itd Advanced Resource Planning, Assignments by Resource

ID (LOOKUP_CODE): resource_view_right_ass_by_res

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Lookup Value Name = 0 OR Active = false** OR remove elements from **Description**

Possible Elements: (add both to apply to both modes)

- > SINGLE_INV: apply setting to single investment mode
- > ALL_INV: apply setting to multiple investment mode

Effect:

- > By default, the **Assignments by Resource** view will display any resources, roles and teams with team entries for investments for which the user has the respective **View** right.
- > With this setting, only resources, roles and teams for which the users has the **Resource – View** right will be displayed. In this case, the **View** right for associated investments is still required in addition to the **Resource – View** right.
- > The setting may be activated for single investment mode and multiple investment mode independently by adding either or both of **SINGLE_INV** and **ALL_INV** to the **Description**.

9.12.16 Disable Resource List Links in Investments Modes

Scope: itd Advanced Resource Planning, Allocations/Assignments by Investment

ID (LOOKUP_CODE): disable_link_in_util_panel

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > With this setting, it is no longer possible to open the associated properties by clicking on a resource, role or team in the resource list.

9.12.17 Include Sub-Roles in Role Capacity

Scope: itd Advanced Resource Planning, Allocations by Investment/Resource

ID (LOOKUP_CODE): calc_role_availability_option

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > By default, the capacity of a role is calculated based only on associated resources.
- > Activating this lookup value adds the **Role Capacity** setting to the **Utilization** tab of the user preferences for the **Allocations by Investment** and **Allocations by Resource** view modes.
- > Any user can then enable the inclusion of sub-roles in the calculation of role capacities there.
- > The **Role Capacity** setting will be saved per user.

9.12.18 Show Total Role Capacity in Utilization Panel

Scope: itd Advanced Resource Planning, Allocations by Investment

ID (LOOKUP_CODE): raw_avail_in_utilization

Initial Setting: deactivated with **Lookup Value Name = 1**

Activate: **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > The utilization panel in **Allocations by Investment** mode shows the total capacity instead of the remaining capacity for roles (in non-histogram mode).
- > The total role capacity is the sum of total capacities of all resources with that primary role.
- > The remaining role capacity is the sum of remaining capacities of those resources.
- > The remaining capacity is calculated by subtracting all allocations (**Allocation** or **Hard Allocation**, depending on display value) of resources with that primary role as well as direct role allocations of that role from the total role capacity.
- > Colors are always based on the remaining capacity.
- > The histogram is not changed by this option.

9.12.19 Disable Replacement Options

Scope: itd Advanced Resource Planning, Allocations by Investment

ID (LOOKUP_CODE): disable_replacement_option

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Lookup Value Name = 0 OR Active = false** (will apply default) OR remove elements from **Description**

Possible Elements: (default: none)

- > TotalAvailability: **Total Capacity**
- > RemainingAvailability: **Remaining Capacity**

Effect:

- > Deactivated replacement options are disabled when replacing allocations in **Allocations by Investment** mode, with a hint stating they have been deactivated by an administrator.

9.12.20 Disable Role Allocation Replacement

Scope: itd Advanced Resource Planning, Allocations by Investment

ID (LOOKUP_CODE): disable_role_replacement_alloc

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > In **Allocations by Investment** mode, roles can no longer be replaced in an allocation via drag-and-drop of other roles, resources or teams from the resource list.

9.12.21 Don't Replace Role With Remaining Capacity

Scope: itd Advanced Resource Planning, Allocations by Investment

ID (LOOKUP_CODE): keep_role_with_remain_avail_op

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > In **Allocations by Investment** mode, replacing a role with **Remaining Capacity** will no longer remove the role's team entry.

9.12.22 Consider Actuals for Remaining Capacity

Scope: itd Advanced Resource Planning, Assignments by Investment/Resource

ID (LOOKUP_CODE): consider_actuals_for_remaining

Initial Setting: deactivated with **Lookup Value Name = 1**

Activate: **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > When the histogram is displayed, actuals entered for a period will be added to the total **Effort** and subtracted from the **Remaining** capacity displayed for that period.
- > When the histogram isn't displayed, actuals entered for a period will only be subtracted from the remaining capacity displayed for that period, and won't be included in the utilization.
- > **Example:** 20 hrs actuals and 80 hrs ETC entered for a month with total capacity 160 hrs.
 - With this setting, the displayed **Remaining** capacity will be 60 hours.
 - Without this setting, the displayed **Remaining** capacity will be 80 hours.

9.12.23 Filter Utilization by Custom Assignment Field in Assignments Modes

Scope: itd Advanced Resource Planning, Assignments by Investment/Resource

ID (LOOKUP_CODE): util_ass_curve_filter

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true AND Description =**

Attribute_ID: Lookup Value IDs (**Attribute_ID** must be a custom static string lookup assignment field, separate **Lookup Value IDs** by commas ",")

Example: request_status: Approved, Booked

Deactivate: **Lookup Value Name = 0 OR Active = true OR remove Description**

Effects:

- > **Assignments by Investment:** the utilization displayed in the **Resources** list will be filtered.
- > **Assignments by Resource:** per resource, role and team, the total utilization will be displayed, but the utilization used to determine the remaining capacity displayed per resource will be filtered and a resource, role or team will be displayed as under- or overbooked based on the filtered utilization.

9.12.24 Editable Resource Types

Scope: itd Advanced Resource Planning, Assignments by Investment/Resource

ID (LOOKUP_CODE): editable_resource_types

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true** AND add elements to **Description**, separated by commas ","

Deactivate: **Lookup Value Name = 0 OR Active = false** (will apply default) OR remove elements from **Description**

Possible Elements: (default: all)

- > labor
- > equipment
- > material
- > expense

Effect:

- > **ETC** column and **ETC** in assignment grid only editable for resource types listed in **Description**

9.12.25 Edit Start and Finish of Tasks and Assignments Regardless of Status

Scope: itd Advanced Resource Planning, Assignments by Investment/Resource

ID (LOOKUP_CODE): disable_status_check_for_edit

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > By default, you can only change the **Start** and **Finish** of tasks and assignments with the **Not started** status.
- > With this setting, the status check will be disabled. The **Start** and **Finish** will still be locked for tasks and assignments with actuals.

9.12.26 Hide Description Tooltips

Scope: itd Advanced Resource Planning, Assignments by Investment/Resource

ID (LOOKUP_CODE): hide_description_tooltip

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > By default, when hovering over an investment name in **Assignments by Investment** or **Assignments by Resource** views, the associated description will be displayed in a tooltip.
- > With this setting, these tooltips may be deactivated.

9.12.27 Keep Task Duration

Scope: itd Advanced Resource Planning, Assignments by Investment

ID (LOOKUP_CODE): default_keep_task_duration

Initial Setting: active (lookup value doesn't exist)

Activate: Lookup Value Name = 1 OR Active = false

Deactivate: create lookup value with **Lookup Value Name = 0 AND Active = true**

Effect:

- > This setting is active by default. In this case, changing the start date of a task or phase via the **Start** column will also change the **Finish**, retaining the duration of the task or phase.
- > Create a lookup value with **Lookup Value Name = 0, ID = default_keep_task_duration** and **Active = true** to deactivate, such that changing the start date of a task or phase won't change the finish.

9.12.28 Automatically Create New Team Entries for Roles

Scope: itd Advanced Resource Planning, Assignments by Investment

ID (LOOKUP_CODE): auto_create_new_team_entry

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > By default (without this setting), dragging a role from the **Assignment by Investment** view's resource list on a project task or an NPIO which already has a team entry for that role will open a dialog allowing users to select an existing team entry or create a new one.
- > With this setting, a new team entry will always be created automatically for the role instead.

9.12.29 Disable Role Replacement for Assignments

Scope: itd Advanced Resource Planning, Assignments by Investment

ID (LOOKUP_CODE): disable_role_replacement_ass

Initial Setting: inactive (lookup value doesn't exist)

Activate: create lookup value with **Lookup Value Name = 1 AND Active = true**

Deactivate: **Lookup Value Name = 0 OR Active = false**

Effect:

- > In **Assignments by Investment** mode, roles can no longer be replaced in an assignment via drag-and-drop of other roles, resources or teams from the resource list.

9.12.30 Updating itd Advanced Resource Planning

After changing settings for itd Advanced Resource Planning via the **itd AE Preferences** lookup, you need to reset the cache to apply the new settings.

This requires membership in the **ARP Admin** group.

To do so, call the portlet with the **&flushCaches=true** URL parameter:

- > <https://{ca.ppm.url}/niku/nu#action:pl.itd.ae.page.assignment.editor&flushCaches=true>

Please note that the parameter won't be passed to an embedded page in the Modern UI.

You need to open the portlet in the Classic UI with the **&flushCaches=true parameter to reset the cache.**

9.13 itd AE Included Investment Types Lookup

As of version 12.0.0, the installation package of itd Advanced Resource Planning now includes the **itd AE Included Investment Types** lookup.

The **ID (code)** of this lookup is **PL_ITD_AE_LKP_INCLUDED_INV_TYPES**.

Here you can filter selected view modes by investment type. Modes for which you define no filters won't be filtered by investment type.

- > **Please note:** *This configuration works only for the global investment mode. It is neither implemented for the single investment mode nor the roadmap mode.*

9.13.1 Configuring Included Investment Types

To configure an investment type filter, add a lookup value with the following field values:

- > **ID** equal to the Clarity **object code** of the investment type you want to include (usually the investment type name in lower case, e.g., "asset" for the **Asset** investment type).
- > **Name** has no effect other than being displayed in the lookup value list.
- > **Description** specifies all view modes to include the investment type and needs to be spelled exactly as follows, in capital letters:
 - ALLOCATION_BY_INVESTMENT_ASE
 - ALLOCATION_BY_RESOURCE_ASE
 - ASSIGNMENTS_BY_INVESTMENT
 - ASSIGNMENTS_BY_RESOURCE

If you are specifying multiple view modes, you may choose any separator, such as a space or comma, as long as all required view modes are present in the correct spelling.

- > **Active** can be removed to disable a lookup value, as if it wasn't there.

9.13.2 Example

Lookup Value	ID	Partition	Partition Association Mode	Description	Active	System Type
Asset	asset	System	Partition, ancestors and descendants	ASSIGNMENTS_BY_INVESTMENT, ASSIGNMENTS_BY_RESOURCE	<input checked="" type="checkbox"/>	User-defined
Other Work	other	System	Partition, ancestors and descendants	ASSIGNMENTS_BY_INVESTMENT	<input checked="" type="checkbox"/>	User-defined

This configuration has the following effects on itd Advanced Resource Planning:

- > **Allocations by Investment:** No investment type filter.
- > **Allocations by Resource:** No investment type filter.
- > **Assignments by Investment:** Only **Other Work** and **Asset** investments included.
- > **Assignments by Resource:** Only **Asset** investments included.

9.13.3 Filtering in Views

If an investment type is configured for a specific view mode, the **Investment Type** filter is effectively prefilled with the configured investment types. However, this is not visualized in the **Investment Type** filter control, which can still be used to filter by the configured investment types.

9.13.4 Utilization

The utilization that is calculated and displayed on the resource level isn't affected by the filter. Therefore, filtered out investments will still be displayed in the flyout when hovering over associated utilization segments in **by Investment** views.

9.13.5 Updating itd Advanced Resource Planning

After changing settings for itd Advanced Resource Planning via the **itd AE Included Investment Types** lookup, you need to reset the cache to apply the new settings.

This requires membership in the **ARP Admin** group.

To do so, call the portlet with the `&flushCaches=true` URL parameter:

> <https://{ca.ppm.url}/niku/nu#action:pl.itd.ae.page.assignment.editor&flushCaches=true>

Please note that the parameter won't be passed to an embedded page in the Modern UI.

You need to open the portlet in the Classic UI with the `&flushCaches=true` parameter to reset the cache.

9.14 Governors Lookup (Limits and Caches)

Some database access and memory usage settings may be managed via the governors lookup:

- > The governors lookup doesn't exist by default. To change associated settings, create a new lookup with **ID (code) = PL_ITD_AE_LKP_GOVERNORS**.
- > Starting with version 8.3 of the itd Advanced Resource Planning, this replaces the `pl_itd_ae.properties` file, which is no longer supported.
- > Creating and editing lookups requires the global **Administration – Application Setup** right, which Clarity PPM application administrators have by default.
- > This lookup is used for both itd Advanced Resource Planning and the itd Allocation Editor. Please note that not all lookup values apply to both applications.
- > Use the `&flushCaches=true` URL parameter to update the applications with changed settings (see section "9.14.4 Updating itd Advanced Resource Planning" on page 174).

The governors lookup can be used to control the amount of results returned by database queries, the amount of data contained in the applications' caches as well as load batch sizes with **Calculate Sums** set to **On** or **Filtered**.

Similar to the preferences lookup, the settings controlled via the governors lookup need to be created as lookup values with the **ID (code)** set to the property name and the **name** set to the desired value (e.g. the resource limit can be shifted from the default value of 250 to 500 by creating a lookup value with **ID (code) = query.limit.resources** and **name = 500**).

This section lists all settings controllable via the governors lookup and their defaults.

9.14.1 Query Limits

When Investments, Resources and Assignments are retrieved from the database, the query limits parameters can limit the number of records held in memory and returned to the client.

These values may be controlled via the `query.limit.*` properties:

```
query.limit.resources=250
query.limit.investments=150
query.limit.assignments=500
```

9.14.2 Cache Sizing

The server-side caching mechanism we use ([Guava Caches](#)) allows for the definition of the [Cache's maximumSize\(\)](#).

You can edit these values via the `cache.max.*` properties:

```
cache.max.clarity.system.attrs=1 [system attributes]
cache.max.loading.pattern.lkp=1 [loading pattern lookup]
cache.max.investment=10 [investments]
cache.max.glob.rights.by.user=100 [global rights by user]
cache.max.object.perm.by.user=40 [object permissions by user]
cache.max.translation.cache=20 [translation cache]
cache.max.preference.lkp=300 [preferences lookup]
cache.max.calender=1 [calendar]
cache.max.project.hpd.factor=1 [project hours per day factor]
cache.max.custom.inv=1 [custom investments]
```

Please note: Changing these values will not impact the amount of data loaded and used, only the amount of data that is cached for later use. Raising these values will take up more working memory. Lowering these values will result in reduced performance.

9.14.3 Load Batch Sizing

With **Calculate Sums** set to **On** or **Filtered** in the **General** tab of the **Preferences** (see "**Calculate Sums**" on page 116), aggregated values will be calculated and displayed for all visible aggregation levels (task, phase, investment, resource/role/team). These data will be loaded from Clarity PPM curves. Curves will be loaded in batches to save heap space.

You can configure the size of these batches.

You can edit these values via the `cache.max.batch.curve.*` properties:

`cache.max.batch.curve.task=100` [tasks]

`cache.max.batch.curve.res=100` [resources]

`cache.max.batch.curve.inv.res=100` [investments per resource]

`cache.max.batch.curve.inv=100` [investments]

Please consider the following when adjusting these numbers:

- > Lower values will cause more frequent requests to the database
- > Higher values will increase the amount of working memory used during these calculations.

9.14.4 Updating itd Advanced Resource Planning

After changing settings for itd Advanced Resource Planning via the governors lookup, you need to reset the cache to apply the new settings.

This requires membership in the **ARP Admin** group.

To do so, call the portlet with the `&flushCaches=true` URL parameter:

- > `https://{ca.ppm.url}/niku/nu#action:pl.itd.ae.page.assignment.editor&flushCaches=true`

Please note that the parameter won't be passed to an embedded page in the Modern UI.

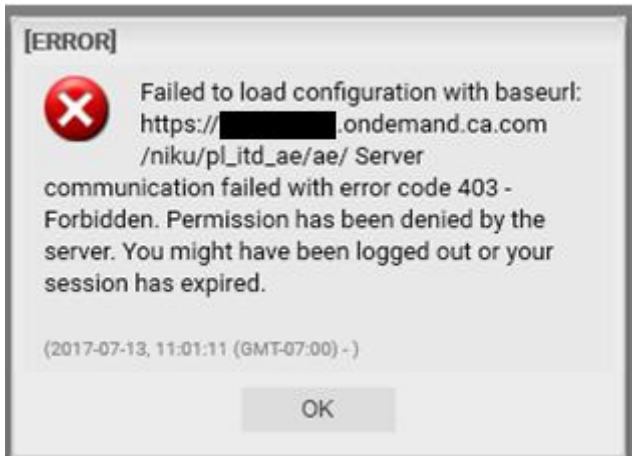
You need to open the portlet in the Classic UI with the `&flushCaches=true` parameter to reset the cache.

9.15 Troubleshooting

This section provides solutions for known issues with itd Advanced Resource Planning.

9.15.1 Failed to load configuration with baseurl - error 403 – Forbidden

Issue: any user trying to access itd Advanced Resource Planning, including system administrators, gets a "403 – Forbidden" error.



Cause: reference to the `pl_itd_ae` component removed from the `components.xml` file.

This may happen when a general patch is installed on the Clarity PPM server (not necessarily for the affected customer).

Solution: insert line `<component id="pl_itd_ae" active="true" type="plugin"/>` in `components.xml` file or reinstall the itd Advanced Resource Planning application.

The latter is the only viable solution for SaaS systems.