



What's new in Version 4,2

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Preliminary Remarks

This document offers an overview of the new functions in version 4,2 of our project management software *Can Do project intelligence* compared to version 4,1,5.

Overview of changes:

- **Resource Management & Usability**
 - Multiple Assigning of Resources
 - The New Capacity Window
 - Internal Costs
- **Project Portfolio Management**
 - Bubble Charts
- **Expansion of Reporting (PDC)**
 - xls: raw limit
 - New attributes

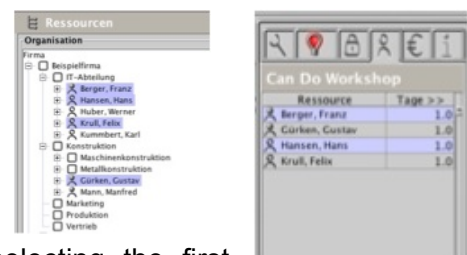
Multiple Assigning of Resources

Multiple Assigning of Resources

Starting with *Can Do project intelligence* Version 4,2 multiple resources and departments can be selected:

- In the organization tree,
- In the allocation panel
- In the hit list of search resources.

In the organization tree, the allocation panel and the resource search hit list, several resources and departments can be selected and simultaneously allocated to an object. Simply select the desired resources or departments one by one with the 'Ctrl' key activated and then drag them to the corresponding project object using the drag & drop function.



You can mark several directly consecutive resources by selecting the first resource and then marking the last resource with the ("Shift") key activated.

Multiple selection can consist of any department levels. In this way several selected resources can be allocated to an object in one step, or existing allocations deleted. The multi-selection is maintained so that the same group is available for further allocations to other packages or phases. You will be informed via scrolling messages if a multi-operation is somewhat ambiguous or does not function (e.g. double/ambiguous allocation).

New Features in Can Do project intelligence 4.2

The New Capacity Window

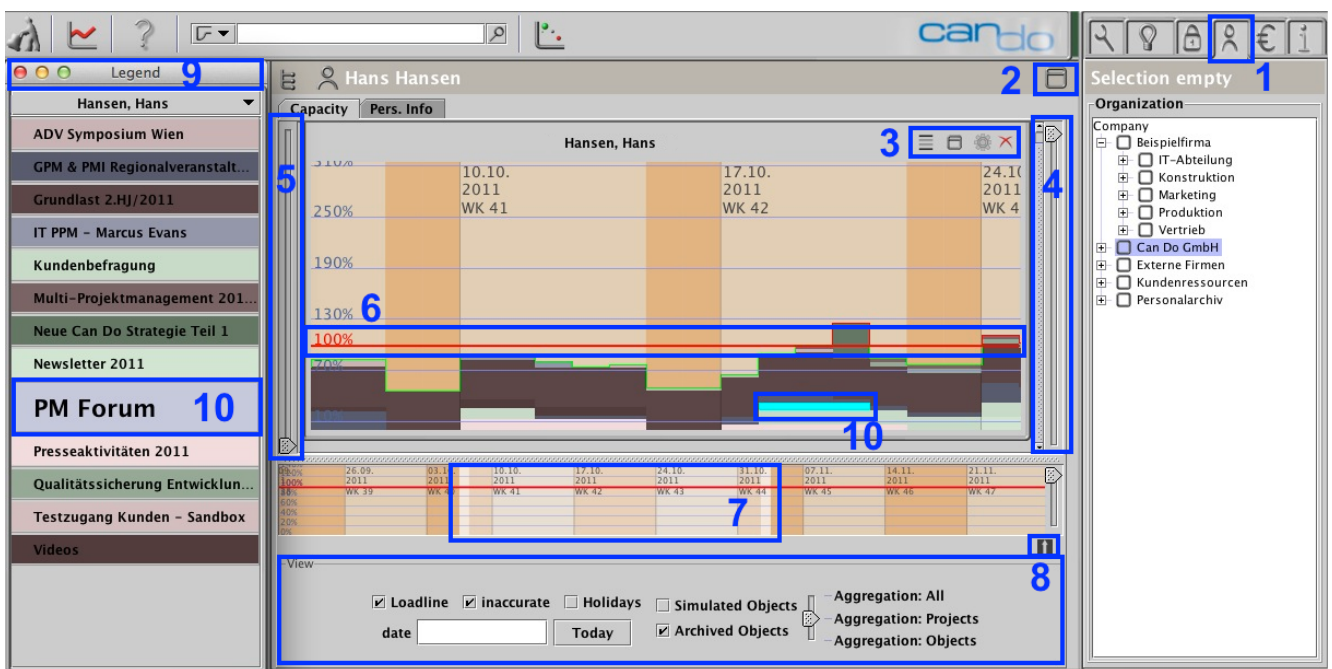
The capacity window (Tab "Resources" --> "Capacity utilization") shows all packages that have been assigned to a resource or a department. Overloads and collisions with other packages may be found here quickly and easily.

When double-clicking on a department, the essential capacity information for the whole department is displayed. Several resources and departments from the organization tree can also be dragged into the capacity window (drag & drop) and in doing so, the capacity utilization of several resources is displayed in parallel (these are again removed with a click on the 'x').






The capacity window is divided into two areas. The lower window shows a calendar with an extensive time overview, the upper window gives a detailed view of a shorter time period. In this way, the calendar may be used in fine detail, without losing sight of larger time frames. The vertical slider will directly change the time period for the overview calendar.

The time period shown in the upper window is marked by a bright area in the lower window [7]. By clicking on and moving the rectangle, respectively its boundaries, this area may be moved and changed in size. After entering a date in the date box, both views will immediately go to this date. The thin green line represents the resource's actual capacity utilization over time. In the "Workload" view, this line is always identical to the "skyline" of the packages. If capacity utilization should exceed 100%, the utilization line will turn red. In this way, resource overloads may be identified and resolved quickly and easily.

Uncertain capacity utilizations (inaccuracies, respectively floats in the project plan) may be shown by activating the "Inaccurate" button. Objects from simulated projects or projects can be hidden in the archive by setting a corresponding check mark.



New Features in Can Do project intelligence 4.2

1. Tab "Resources": Several resources and departments from the organization tree can be dragged into the capacity window.
2. With the window icon, the capacity window can be enlarged and reduced.
3.  Show or hide legend
  Change between upper view of a single resource and overview of all selected resources
 Arrange resources and departments evenly in the capacity window
 Delete selection
4. Slider to scale the time period
5. Slider to define the size of the displayed packages or projects
6. Reference line shows the level of capacity
7. The optically highlighted part (the bright area) is shown in detail in the upper capacity window
8. View Options: Loadline, inaccurate planning, holidays, simulated objects, archived objects, aggregation (all, projects, objects)
9. Legend of all projects/objects
10. The selected project/object in the legend is highlighted (cyan) in the capacity window. The selected project/object in the capacity window is highlighted (enlarged) in the legend.

Internal Costs

An internal expense ratio for each department or employee can also be defined in the master data window. The internal expense ratio is the basis for calculating the internal costs. Using the Can Do reporting system, diverse analyses can be compiled: e.g. the internal costs of individual allocations, total internal costs of the objects (aggregated, on a grid etc.).

Project Portfolio Management

Bubble Charts

From Version 4,2 onwards of Can Do project intelligence, holders of a portfolio management licence can define freely which attributes should be used for the x- and y-axes of the bubble chart. In this way, detailed analyses of various scenarios are possible using bubble charts.

The following attributes can be used for the x- and y-axes:

- Project utilisation, project duration, aggregated progress, project performance
- Project risk (absolute/average)
- Costs (projected, estimated, reported)
- Costs (projected, reported)
- Numerical project custom fields (e.g. turnover, profit)

In addition, portfolio managers can view inaccurate project planning for various attributes of best- and worst-case scenarios. The diameter and percentage fill of the bubbles can also be set freely. It should be noted that the representation of the percentage fill of the bubbles only makes sense for a few parameters (e.g. progress, risk etc.).

The x- and y-axes can be inverted using a context menu so that the largest value changes from right

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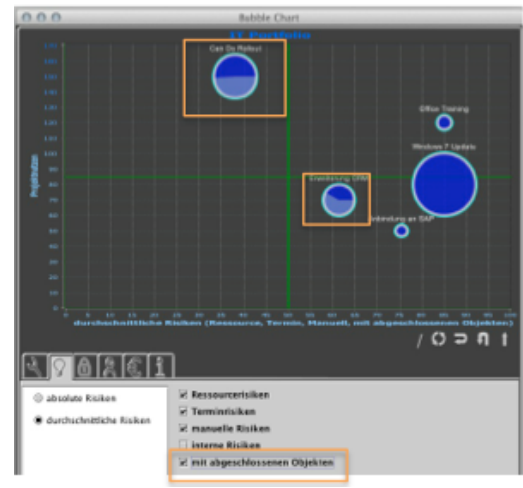
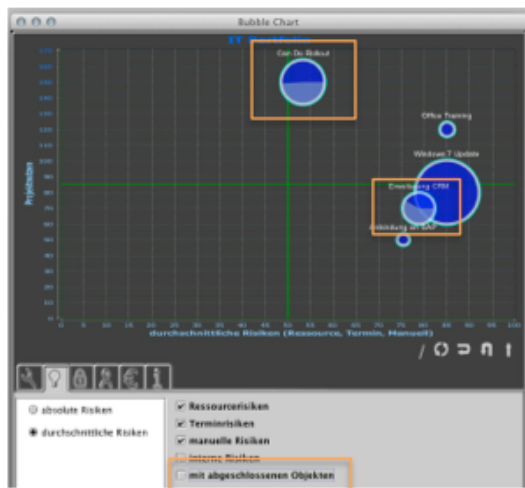
to left or from top to bottom. This makes sense e.g. for parameters for which a low value is “good”, e.g. risk and costs.

The list shows some examples:

Scenario 1:

The average risk shown on the x-axis by default (the greater the risk, the further right the bubble is), also takes into account the completed objects of the current projects. Completed objects however no longer carry any risks. Therefore, considering the completed objects distorts the risk situation, as the total number of all objects in the project is higher. In order to be able to make more accurate statements regarding the risk situation of current projects, it is advisable to exclude the completed objects from the calculation (uncheck the “with completed projects” box).

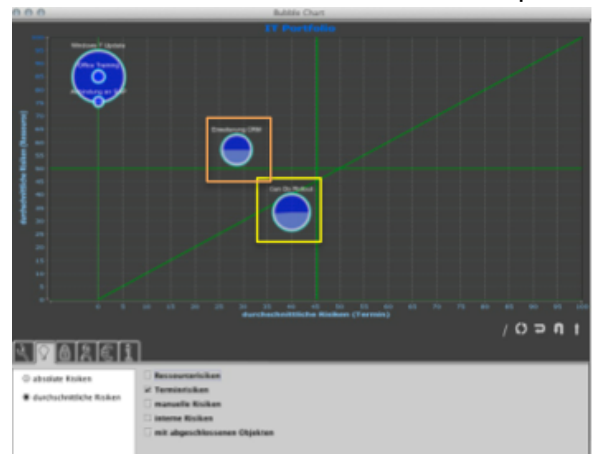
The effect can be clearly seen on the following screenshots: in the illustration right completed objects are taken into account; the average risk of the projects is lower. In the illustration left completed objects are omitted, and the average risk of the current projects (Projects “Can Do Rollout” and “CRM Expansion”) is higher (the bubbles have moved to the right).



Scenario 2

The exact risk situation is analysed in the next example. For this, the resource risks were compared with the deadline risks. Deadline risks of the project are represented on the x-axis and resource risks on the y-axis. It is clear that e.g. in project “CRM Expansion” (yellow border) the majority of risks are due to capacity bottlenecks, while in project “Can Do Rollout” (orange boarder) the risks are caused by deadline problems. The remaining projects only have capacity bottlenecks, but no deadline problems (these projects are only proposals and have not been planned in detail yet).

In order to look at individual project risks in more detail in a second step, it is advisable to open the corresponding project and then carry out a targeted analysis (a so-called drill-down information policy).

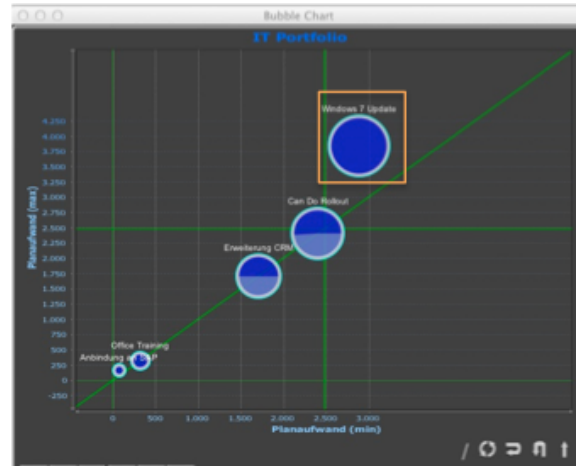


New Features in Can Do project intelligence 4.2

Further scenarios

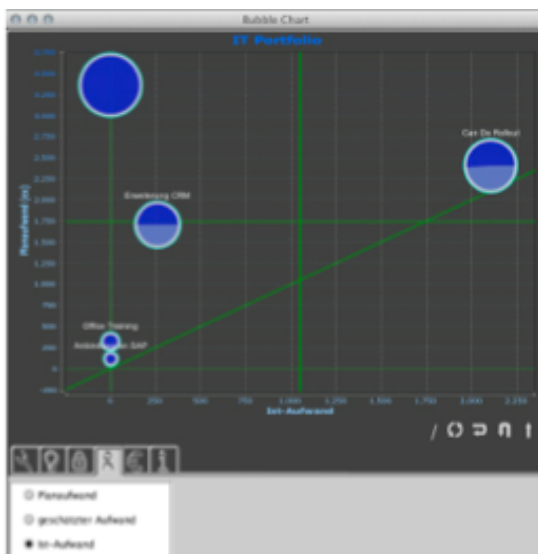
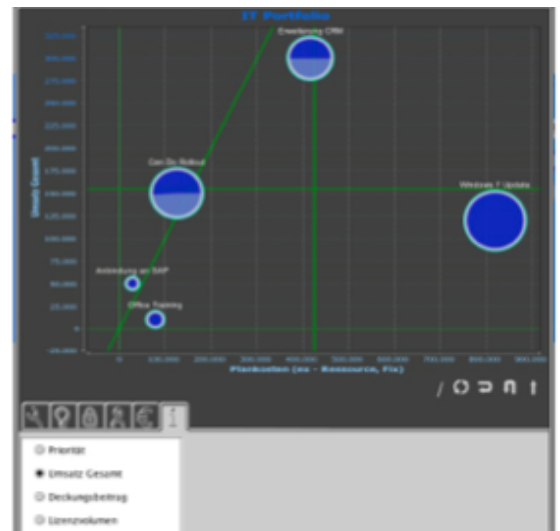
Scenario 3

For inaccurately (inexactly) planned projects, the best-case scenario can be set against the worst-case scenario. In this scenario, the maximum projected cost of inaccurate planning was represented on the y-axis, the minimum projected cost on the x-axis. A diagonal can be used here as an auxiliary line in the system of coordinates. Projects lying above the line (Project "Windows 7 Update") were planned inaccurately. Projects lying on the diagonal are planned accurately and the maximum cost equals the minimum.



Scenario 4

Also included in those attributes that can be used for the x- and y-axes are e.g. all numerical custom fields (special data). In this way profitable projects can be identified, e.g. through a comparison of turnover (custom field – represented on the y-axis) and projected costs (represented on the x-axis). Here, a diagonal can be used as an auxiliary line (profitability line) in the system of coordinates. The more profitable a project, the farther it lies above the auxiliary line. Projects below this line are by contrast unprofitable.



Scenario 5

A progress analysis of the current projects in the project portfolio can be compiled using e.g. the "projected" and "reported cost" attributes. The reported cost is represented on the x-axis, the projected cost on the y-axis. In order to simplify the analysis, it is also advisable here to hide a diagonal as an auxiliary line in the system of coordinates. The closer the projects lie to the diagonal, the smaller the difference between the projected and reported costs; this fact can be compared with the percentage progress of the projects (illustrated in the bubble).

Expansion of the Reporting System (PDC)

xls: Row-Limit

PDC to produce up to 65,535 rows in Excel (previously the limit was 32,767). This limit is the maximum of the general Possible in xls format.

New Attributes

Furthermore, the PDC language has been expanded to include the following attributes:

- *pmo.project.score* (score / value)
- *pmo.detail.task.due-date* (date)

Thus the benefits of a project and the dates of activity can be interrogated in reports. Also the internal cost rate (see above) for employees and departments can now be queried by PDC.

New PDC Fields

- *pmo.costs.work.internal* (internal costs / objects)
- *ra.costs.internal* (internal costs / assigned resources)
- *res.costrate,nice* (internal costs / single resource)
- *res.costrate.amount* (internal costs / resource (amount))
- *res.costrate.currency* (internal costs / resource (currency))

You will find more information in the “PDC Manual Version 4,2”