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2.5.01 Earned-Value-Analysis

The chart **Earned-Value-Analysis** lists the planned and actual time/effort (in hours or person-days) for a project over any time period, as well as the degree of completion (progress for the previous period). From this data Earned Value and further key figures (BCWS, ACWP und BCWP) is determined. With Earned-Value-Analysis, not only the planned and actual values, but also a third value (BCWP, also stated in hours) can be used for the project evaluation.

Tip: For more on this subject see chapter 4.5 Handling with Charts und [4.5.01 Earned Value Analyse](#)

The form consists of the following elements:

1. Name

- **Name:** In this field the name of the chart is defined, if this should be saved (for example, for the time service or for administrating the chart results).
- **Description:** In this field the description of the chart is defined, if this should be saved.
- **Chart:** The Earned Value Analysis contains the Earned Value Analysis. This chart generates the Earned Value Analysis for the selected project. With this, the planned values, the actual values and the progress for the project structure or further criteria are plotted. (abgetragen) The Earned Value results form the progress of the periods (difference from the grade of completion from the current periods to the previous periods) and the total planned time/effort. Furthermore, the key figures BCWS, ACWP and BCWP are determined and the results are visualized in two illustrations.

2. Input Data

- **Search:** With this select list “professional search” can be used for the input data of the chart.

This search entry must relate to the supported categories.

- **Search Machine: Search Word and Category** This element is used to filter the selected data from the categories. Only the document type project is available for selection. How to operate the search machine is described in chapter 3.2.2.3 and can be performed, if necessary, a multiple amount of times.
- **Input Data:** Under this field, the selected selection criteria for the chart are listed. This input data can derive from the “professional search”(Profisuche), the standard search machine or the personal clipboard.

3. Main Parameters

2. Input data: *To gather all the documents relevant for the chart please use the search engine (if need be repeatedly)*

Search

The screenshot shows a search interface. At the top left is a search bar with a dropdown arrow. To its right is a 'Category' dropdown with a magnifying glass icon. Below these are two input fields: 'Search word' and 'Category'. Underneath these fields is a table header row with columns for 'Project' and 'Title'. Below the header is a single data row: '1 Project 3 Introduction Projectile'. The interface includes a toolbar at the top with icons for settings, back, forward, and search.

3. Main parameters: *Please select parameters:*

Chart period

The screenshot shows a time period selection interface. It has three main sections: 'Chart period' (a dropdown menu), 'Start' (a date input field with a calendar icon), and 'End' (a date input field with a calendar icon). The 'Start' and 'End' fields are currently empty.

- **Chart Period:** This drop-down box refers to the chart's time span (elements start and end) and allows a parameterised definition of the time span for the time services. This selection (current week, current month, ..., next week, last week, ...) can be also used to simplify the manual definition of start and end.
- **Start and End:** In this field a time interval can be entered as selection criteria to limit the given period for the chart.

4. Further Criteria

- **Period:** In this drop-down box the attributes for the column of the tabular chart can be controlled. The periods for planned values, actual values and progress can be generated considering this selection (weekly, monthly and quarterly).
- **Progress Calculation:** In this drop-down box the progress calculation can be selected. The option from planned values determines the calculative grade of completion (actual time/effort / planned time/effort) for the grouping characteristics (see next element), the option from estimations in the project uses the grade of completion from the project and the option from estimations in time recording uses the estimations from TimeTracker.
- **Grouping:** This selection can control the row attributes for the tabular chart. The periods for the planned values, actual values and progress are generated considering this selection (by

employee, by phase, by occupation and by sub-project).

- **Include Parent Project:** This check box specifies if when the selection in the option grouping = by sub-project, the parent project should also be considered.
- **Hours per Day:** If the next option Show as Person-days is used, the conversion factor between work hours and person-days can be entered.
- **Show as Person-Days :** When this option is active, all time/effort is displayed as person-days in the tabular chart (otherwise as hours).
- **Show Costs:** When this option is active, all time/effort is displayed as EUR-Amounts in the tabular chart (otherwise as hours).

5. Adjustment of Chart Display

The screenshot shows a software interface titled 'Earned-value chart EarnedValue'. At the top, there are standard window controls (X, Minimize, Maximize) and a toolbar with icons for Print, Undo, Redo, and Save. Below the toolbar, the title 'Generate chart' is displayed. A navigation bar includes 'Document', 'Edit', 'View', and 'Back references'. The main area features tabs: 'InputData' (disabled), 'Parameters', 'Format' (selected and highlighted in yellow), and 'Results'. Under the 'Format' tab, the following settings are visible:

- Width: 800 px
- Height: 600 px
- Display: RTF (selected from a dropdown menu)

A note above the settings states: '5. Adjustment of chart display: Please adjust here the dimension of the chart'.

- **Width:** The width in pixel (px) is determined for the graphical chart in this field.
- **Height:** The height in pixel (px) is determined for the graphical chart in this field.
- **Display:** The generated chart can be generated in various formats with this selection. CHART (only graphical chart), CSV, HTML (standard setting), PDF, RTF (text processing), and XLS (MS Excel).

6. Results

Earned-value chart EarnedValue

Generate chart

InputDialog Parameters Format Results

6. Results: Here you find the results of charts previously performed

MaxResults 10

Results

[!] Earned-Value-Analysis EarnedValue 06.10.2009 17:08:15

The results of the already processed chart are found in this tab.

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