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2.05.01 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 [4.12 Applying Charts](#) and [3.12.01 Earned Value Analysis](#)

The form consists of the following elements:

1. Name

Earned-value chart EarnedValue

Generate chart

Document Edit View Back references

InputData Parameters Format Results

1. Name: If you would like to save a chart please enter a description

Name: 2

Description: EarnedValue

Chart: Earned-Value-Analysis

Report Selection

- **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 catagories.

- **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)*

The screenshot shows a web interface for searching and viewing input data. At the top, there is a 'Search' section with a text input field and a dropdown arrow. Below this, there are two input fields: 'Search word' and 'Category', each with a text input field and a dropdown arrow. To the right of the 'Category' field is a magnifying glass icon. Below the search fields is an 'Input data' section. It features a toolbar with icons for settings, navigation (back, forward, search), and a page indicator showing 'page 1 of 1'. Below the toolbar is a table with one row containing the number '1' and the text 'Project 3 Introduction Projectile'.

3. Main parameters: *Please select parameters:*

The screenshot shows the 'Main parameters' section of the interface. It contains three input fields: 'Chart period' with a dropdown arrow, 'Start' with a text input field and a dropdown arrow, and 'End' with a text input field and a dropdown arrow.

- **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

4. Further criteria: *Please enter further criteria here and select one of the charts in menu on top (right)*

Period: weekly

ProgressCalculation: PROGRESS_FROM_JOB

Grouping: GROUP_SUB_PROJECTS

IncludeParentProject: ☒

Hours per day: 8 h

Show as Persondays: ☐

ShowCosts: ☐

- **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 the 'Earned-value chart 3' window with the 'Format' tab selected. The 'Generate chart' section includes a toolbar with icons for document, edit, view, and back references, along with a green arrow, a coffee cup, a clock, and a document icon. The 'InputData' tab is also visible. The '5. Adjustment of chart display: Please adjust here the dimension of the chart' section contains input fields for 'Width' (800 px), 'Height' (600 px), and 'Display' (a dropdown menu). A 'ShowParameterInfo' checkbox is also present.

- **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

The screenshot shows the 'Earned-value chart 3' window with the 'Results' tab selected. The '6. Results: Here you find the results of charts previously performed' section contains a 'MaxResults' input field (10) and a 'Results' section with icons for document, edit, view, and back references, along with a green arrow, a coffee cup, a clock, and a document icon. A link to 'Earned-Value-Analysis EarnedValue 16.04.2012 16:39:29' is displayed.

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

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