Evolution - Quality and Size

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Page frame name:

FRAME_PORTAL_EVOLUTION_VIEW

This view is designed to provide visibility on a project's evolution from a quantity and quality standpoint. It highlights variations of main technical size and functional weight indicators, as well as content change (added, updated, deleted objects).

ⓘ   This view requires access to at least one Application.

Layout
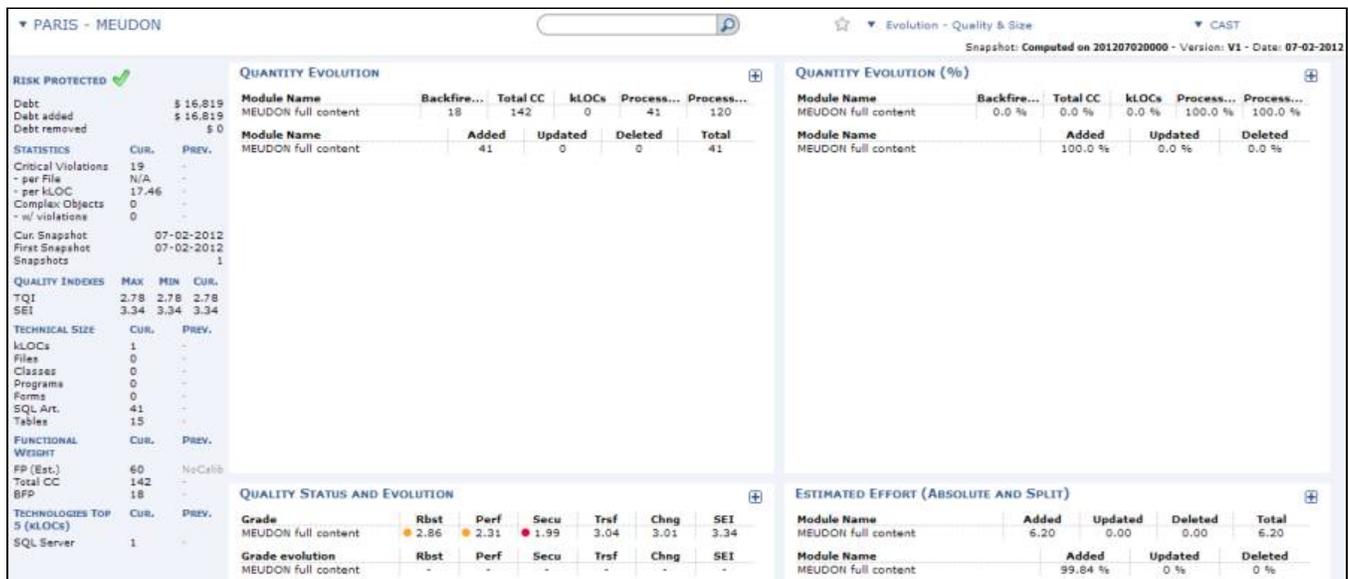
Left hand panel

Please see the section **Left hand panel** in Using the CAST Engineering Dashboard for more information about this.

Main window panels

Four main panels are available:

Quantity Evolution (absolute figures)	Shows the evolution of Quantity information between the current and previous snapshot on a Module basis using absolute figures. Absolute figures help identify where the largest evolutions took place: • Backfired OMG-compliant Automated Function Points: to get a functional weight evolution estimation • Total Cyclomatic Complexity: to get a testing effort evolution estimation • Thousands of lines of code (kLOCs): to get a technical size evolution information • Processed artifacts (see List of Artifacts part of the Portal Administration): the number of "executable" objects processed between the previous and current snapshot • Processed objects (including Artifacts): the total number of objects processed between the previous and current snapshot
Quantity Evolution (%)	Shows the percentage evolution of Quantity information between the current and previous snapshot on a Module basis using relative (%) figures). Relative figures help identify where the largest evolutions took place, relative to each module size. I.e., it's easier to identify a module that doubled its size with relative figures while absolute figures may have masked this.

Quality Status and Evolution	Shows the current status and evolution of Quality information between the current and previous snapshot on a Module basis: • Grade (see **Threshold indicator colours** in Using the CAST Engineering Dashboard) for the Technical Criteria: Robustness, Performance, Security, Transferability, Changeability and SEI Maintainability • Grade evolution - percentage change between the current and previous snapshot using red for degradations and green for improvements
Estimated Effort (Absolute and Split)	Displays the effort associated with the evolution of each module, as an absolute figure and as a relative figure. Absolute figures help identify where the largest effort was necessary and relative figures help identify where the largest effort was necessary, relative to the overall effort necessary for each module - the total effort is also listed. I.e., it's easier to identify a module that mostly underwent re-engineering by looking at a near-100% effort spend on artifact updates, with very few additions and some deletions. Note that the effort estimation: • is based on the evolution of artifacts alone. • uses the default Cost settings. To configure different Cost settings - and get more detailed information - please use the **Cost Model Administration page** (discussed in the Quick Access).