

# HD3D Visual Reporting

Maximizing your PLM investment – merging PLM Visual Analytics into the 3D design process

## fact sheet

Siemens PLM Software

[www.siemens.com/nx](http://www.siemens.com/nx)

### ► Summary

HD3D Visual Reporting merges your company's data-rich environment directly into the NX™ product design environment. Product and process data have traditionally been presented to the user within a collection of methods (indented tree lists, reports and charts), requiring the user to examine key business and program data separate from its associated 3D representation. HD3D Visual Reporting blends data of interest from your company's data sources directly into the product design, assisting users to make assessments easier, interpret overall data more accurately and synthesize product and process data rapidly into correct design decisions.

### Benefits

Transforms your wide range of company information into effective decision-making support for the product development environment

Correlates information from multiple disjointed data sources into a single visual interactive environment that delivers product analytics directly to your design teams

Alleviates the process of navigation through large product structures, numerous component relationships and long query results

Shortens the process of information consumption and interpretation, and ultimately boosts productive information analysis and understanding



Information drilldown is enabled using interactive tags and detail dialogs.



HD3D Visual Reporting provides 3D analytics from company data sources to improve decision-making.

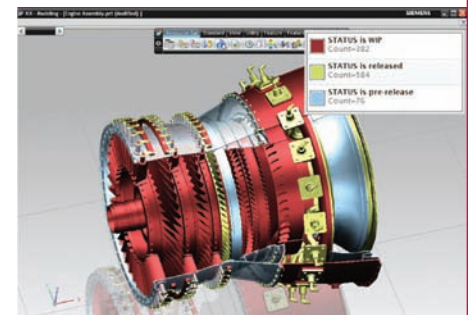
### Meeting business challenges

Your company is continually challenged to reduce development costs, improve productivity and increase quality. And to facilitate your tight design cycles, your design teams rely on the latest company data to oversee progress, manage risks, resolve impacts and ultimately formulate hundreds of needed design decisions. In today's data-rich environment – where prolific amounts of data are everywhere – information processing, data correlation and decision synthesis are key bottlenecks that your design teams face. HD3D Visual Reporting allows design teams to instantly gather requested company data and visualize its impact directly within the context of the 3D design.

Design teams using HD3D Visual Reporting gain a unique level of insight, with sharper degrees of understanding, and are swifter to make the right decisions at the right time.



HD3D Visual Reporting leverages your wide range of company information for key design decision support.



HD3D Visual Reporting matures your overall investment by creating more effective design teams.

## Features

Out-of-the-box Visual Reports provide users with answers to commonly asked questions

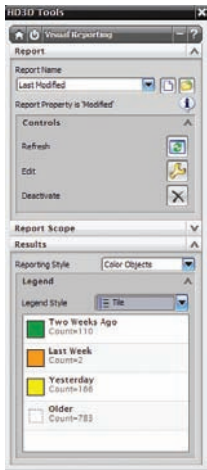
Customizable reports allow your users to build specialized reports to support your processes

Users browse report results using a variety of innovative 3D display and navigation techniques

Engineers leverage NX properties to best understand overall design and locate issues

Managers leverage Teamcenter information to determine the overall state of the project

Organizations leverage Teamcenter by distributing essential Visual Reports across the enterprise



*Visual Reporting legend is used to focus on groups or objects of interest.*

## HD3D Visual Reporting value for your business

Visual Reporting is a combination of concepts that together provide effective product analytics for your design teams.

*Visual PLM* – Comprehending the big picture with intuitive 3D presentation and 3D navigation of your company data. HD3D Visual Reporting correlates information from multiple disjointed data sources into a single visual interactive environment.

*Information drilldown* – Immediately accessing information details using onscreen browsing and interactive tagging. In addition, new innovative display techniques help put users in the right context and alleviate the process of navigating through product structures having large numbers of component relationships.

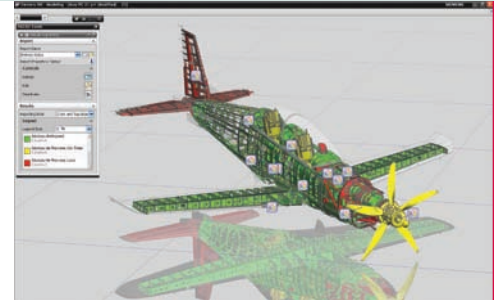
*Decision support* – Bringing decision support tools to the product development environment. HD3D Visual Reporting enables everyone in the design team to visually process the information they need, and to continually advance product designs in a more intuitive, approachable and productive way.

## Visual Reports: Out-of-the-box or custom-made

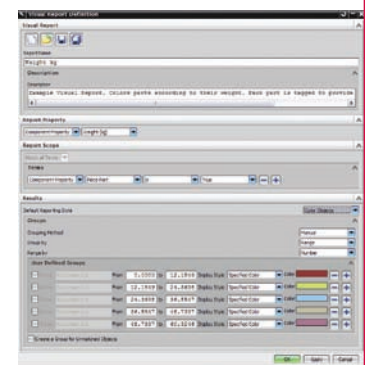
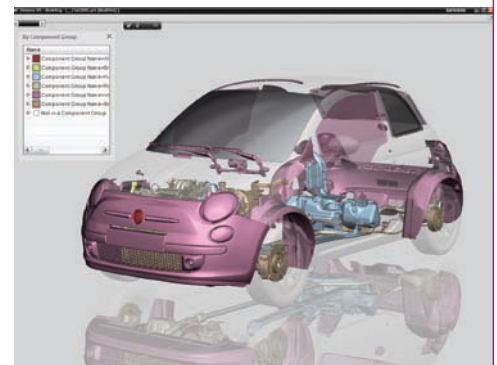
HD3D Visual Reporting comes with a set of out-of-the-box reports that provides your design teams with answers to a series of commonly asked questions. On installation, reports related to ownership, check out, part maturity, projects, load status and more are available for instant use. Out-of-the-box Visual Reports, together with the Visual Reports definition dialog, provide a strong basis for creating your own richer and more complex set of company-wide reports. Users can also tweak as needed the input criteria of any Visual Report to generate reports on the fly. In the managed environment, you can store your Visual Reports in Teamcenter® software platform. The saved report definitions are fully interoperable with similar Visual Reporting capability available in Teamcenter.

## HD3D innovative display and interaction techniques

New HD3D display and interaction techniques are introduced together with Visual Reporting to aid the user in interpreting and navigating results within product structures of all sizes. Visual Report activation results in a conditional formatting, or color coding, of the assembly according to the particular data criteria under examination. The color coding remains in force for as long as the report is activated, allowing the user to work on objects of interest without losing focus on the report results. The legend in the Visual

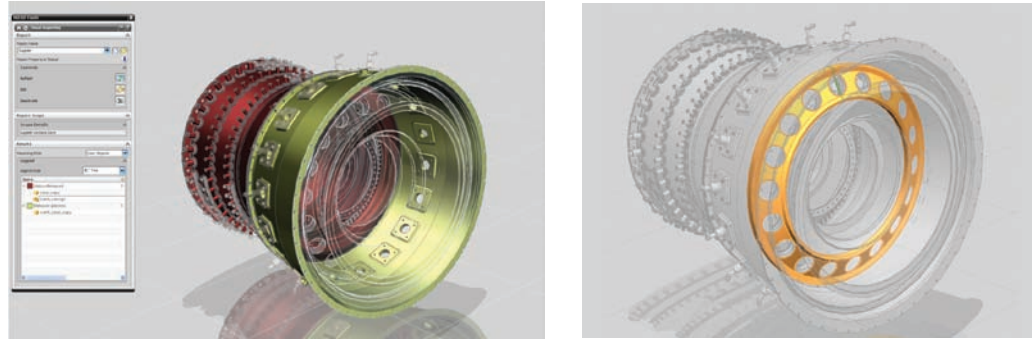


*Visual Reporting enables everyone in the design team to visually process information within the 3D design context.*



*Access any report and dynamically modify its input criteria as desired on the fly.*

Reporting dialog box lets you both interpret results and perform actions on groups of components that are displayed with the same color. Multiple 'see-through' settings give the user various methods for removing complexity of the model and instantly seeing the components of interest. Selective focus and data roll-up support the user when navigating up and down the product structure. In addition, more information details are easily accessed by clicking on interactive tags. Finally, output options allow you to export Visual Report results to other formats for use outside the NX session.



*Innovative HD3D display techniques let users examine your company data within product contexts.*

### Your company's data is HD3D ready now

HD3D Visual Reporting works on all your existing company data, all your existing NX assembly designs and with all your existing NX and Teamcenter metadata. There is no need to create new data formats. Users can immediately set up and edit Visual Reports based on key product and process criteria, and apply those reports onto any assembly in the NX session. Visual Reporting is applicable to all industry sectors and for all customer roles. And it's relevant from design inception through manufacturing to field maintenance. You are HD3D ready...now!

### Key capabilities

- Create Visual Reports that correlate and integrate results from multiple data sources
- Apply ready-made Visual Reports for use out-of-the-box
- Define custom Visual Reports for your specific needs
- Use input criteria from NX-specific data (load states, weight)
- Use input criteria from a wide-ranging set of Teamcenter and other PLM data
- Dynamically modify report input criteria to generate reports on the fly
- Specify the groups that appear in the legend area
- Perform actions on groups of components displayed with the same color
- Conditionally format, or color code, report results directly onto the 3D design
- New display and navigation techniques: see-through, data roll-up, selective focus
- New information drilldown techniques: detailed dialogs, interactive tags
- Use component groups to display logical subsystems regardless of BOM structure
- Store Visual Reports in Teamcenter and distribute across the enterprise
- Interoperable with Teamcenter Visual Reports
- Optional output to other formats including HTML or Excel

► **Contact**  
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