DriveQA - the integrated tool for data quality management
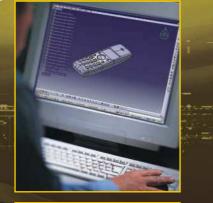
DriveQA

DriveQA is the management tool that compiles and analyses engineering quality metrics generated by DesignQA and GeometryQA to determine the health of an engineering organisation and the effectiveness of its design processes.

DriveQA provides critical quality measurement data that a company can use to improve the product development process and institute training, standards reviews or other corrective measures to solve costly and time-consuming quality errors.

Features

- Custom fields allow input of an individual company's specific cost factors.

- Intuitive user interface.

- Flexibility: powerful chart definition with user-defined fields and filters and full control over titles, legends, etc.

- Central Quality Database: Seamlessly imports quality metrics for DesignQA and GeometryQA

- Cost Impact: Reports and charts cost impact for failed standards through user defined cost factors for direct labor and indirect costs.

- Out-of-the-Box Charts: Built-in charts offer a jump-start for immediately analysing quality metrics.

Benefits

- Customisation shows the actual financial impact of errors and failed standards in your organisation.

- A better understanding of how much and where product development costs are being spent.

- Identifies prevalent and costly design problems.

- Can be used long-term to continually analyse and quantify the effects of process improvement in terms of design quality, defect rate reductions and cost savings.

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Is it a perfect world ? Lessons Learned from Implementing CAD Quality Data Management

In a perfect world it would appear that there would not be a need for this CAD quality software. CAD operators ideally should use best practices for model building that eliminate modelling problems and reduce geometric errors, company defined standards would be followed consistently and downstream users of CAD data would not spend any time on "design clean up". However, that's not the case. Many CAD users and managers are aware of these problems although upper management often is not. Either way, model and geometry quality problems routinely result in substantial amounts of additional work throughout the design-analysis-manufacturing process and that ultimately affects profitability.

What is CAD Data Quality

CAD Data Quality is the integrated process of achieving greater productivity and profitability for manufacturing by reducing product design errors, engineering changes and improving data interoperability throughout the manufacturing supply chain.

Methodology

CAD Data Quality helps manufacturing operations succeed by establishing and maintaining standards of design that can be monitored and enforced throughout the whole process of design-to-manufacture. It also assists with dealing with the issue of interoperability of design data throughout the manufacturing supply chain to allow easy and streamlined transfer of quality data to suppliers, other departments and consultants.

In existing customer locations, CAD Data Quality methods, assisted by PrescientQA software have already proven to save millions in product design costs through establishment and maintenance of better design standards.

Maintaining Design Standards

It is very easy for designers, particularly those using CAD/CAM/CAE systems, to be lax about standards of design used day-in, day-out. Resulting errors can include: incorrect tolerances, hidden entities, inappropriate layers and levels, incorrect attributes and more. Manually identifying all these errors during the verification and release process is expensive and almost impossible.

It Does not have to be that way

The full use of PrescientQA throughout the design organization delivers significant savings in the entire manufacturing company. Our customers have learned that identifying problems early in the design process substantially reduces product development cycle time, rework and cost.