

SPK's Document Restructuring Utility for PTC Integrity™

SPK's Document Restructuring Utility dramatically improves document author productivity

PTC's popular Application Lifecycle Management (ALM) product, PTC Integrity™ Lifecycle Manager™, has long been viewed as an industry leader. Its innovative document capabilities enhance collaboration and provide robust change and configuration management for all software lifecycle assets, not just source code. Hierarchy within the PTC Integrity documents allows users to clearly see parent-child relationships between artifacts within the documents, and named relationships allow for robust traceability.

Authoring documents within PTC Integrity can be a time-consuming process, and it is easy to misconfigure the hierarchy of the content. While PTC provides a MS Word integration to ease authoring of content, it can still be time-consuming and error prone to generate the document hierarchy; establishing trace relationships cannot be done from within the MS Word environment.

Document types configured within PTC Integrity often have well defined structure, with multiple artifact categories within a document type, and specific named trace relationships used to link one artifact type with another. Such well-defined structure and unambiguous trace relationships means that creation of the document hierarchy structure and trace relationships within a given document's content can be automated.

The SPK Document Restructuring Utility does just that; it can dramatically reduce the time and effort required to create a new document within PTC Integrity, and significantly reduce errors when configuring the hierarchy of a document. Using fewer, but richer, document types to implement solutions within Integrity can not only improve user's understanding of the overall solution due to less context switching between documents, but when the SPK Document Restructuring Utility is used, the time and effort to generate solution content can be reduced as well.

The key capabilities of the SPK Document Restructuring Utility are:

- **Fully Supported, Tested and Documented Product:** the SPK Document Restructuring Utility supports all versions of PTC Integrity Lifecycle Manager from 10.0 onward, using only published, supported PTC API commands.
- **Automatically Implements Correct Document Structure:** The SPK Document Restructuring Utility takes a document with correctly ordered content (parent items before their child items), and implements the hierarchy structure defined for the document type. The document can be flat, or partially structured; the Utility walks the document and establishes the right structure. This includes correcting elements that are at the wrong level within the structure, moving them higher or lower as needed.



Reporting Capabilities Continued

- **Automatically Establishes Trace Relationships Within the Document:** As the hierarchy structure is being implemented, the SPK Document Restructuring Utility automatically creates the trace relationships between the different levels of content, if the document type definition identifies such a trace relationship should exist.
- **Support for Containing Headings:** SPK's Document Restructuring Utility supports top-level headings that act as containers for the rest of the content within the document, automatically moving content under such headings when they are found. The document structure definition file identifies the containing headings using keywords or phrases to match within the heading value.
- **Able to Restructure Ten Levels Deep:** SPK's Document Restructuring Utility supports document type definitions with up to ten levels of hierarchy.
- **Single Parameter File for All Document Types:** Multiple document type structure and trace relationship definitions are contained within a single XML parameter file, which can be stored on a remote Web server, or locally on the PTC Integrity client machine.
- **Graphical Dialog Indicates Restructuring Has Completed:** SPK's Document Restructuring Utility provides the option to display a dialog when a given document's restructuring is complete.
- **Graphical Dialog Summarizing Restructuring Issues:** The SPK Document Restructuring Utility takes a very conservative approach to restructuring; if items are incorrectly ordered such that a content item's correct position in the hierarchy is not clear, the Utility leaves the item alone and logs a message about what it found. The Utility provides the option to display the list of such issues in a graphical dialog once restructuring has completed.