

ENOVIA SmarTeam to DriveWorks Integration

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Overview

The ENOVIA SmarTeam-DriveWorks integration optimizes and automates the process for importing existing SolidWorks data (the *Design Master*) stored in the SmarTeam vault into the DriveWorks engine for generating clone parts or assemblies based on the specific configuration parameters.

The newly generated or updated parts and assemblies are automatically checked back into SmarTeam as either new objects or revised objects with proper revision numbers.



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Features

- When the DriveWorks server requires a Design Master file, the integration checks if a later version of the file exists in SmarTeam
 - If so, the integration incorporates the latest revision of the file into the assembly
- When modifying a file, the integration first checks if the clone file already exists in SmarTeam
 - If the clone file exists, and was generated from the latest revision of the master file, the integration extracts and provides the DriveWorks server with the clone file in SmarTeam.
 - If the clone file does not exist, or if it was generated from another master file, the integration instructs the DriveWorks server to generate and use a new clone file

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Features (continued)

- The integration places the newly generated clone files into SmarTeam based on three possible scenarios:
 - If a clone file has been modified by DriveWorks from an existing SmarTeam file, the new file is checked into SmarTeam as a revision of the original file
 - If a clone file exists in SmarTeam but was not modified by DriveWorks, nothing is done to the original file or object in SmarTeam
 - If a clone file has been created by DriveWorks (i.e., the file does NOT originally exist in SmarTeam), a new object in SmarTeam is created for the clone file
 - The file is automatically checked into SmarTeam
- All SmarTeam-SolidWorks mappings and custom or configuration specific properties are mapped
- All required SolidWorks links are created in SmarTeam (similar to a SmarTeam *Save* performed in SolidWorks)

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Benefits



- Significant time savings through automated processes:
 - Determine the latest version of the Design Master files and copy them into DriveWorks automatically
 - The generated clone files are entered into SmarTeam based on predetermined rules
 - Updated files are checked back into SmarTeam with proper revisions
- Minimizes errors through automatic creation of SmarTeam objects and lifecycle operations



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