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Room name:	Knowledge Theatre 1
Presentation title:	Implementation of Teamcenter Technical Publishing at Siemens PG

TTP at Siemens PG

Implementation of Teamcenter Technical Publishing
at Siemens Power Generation

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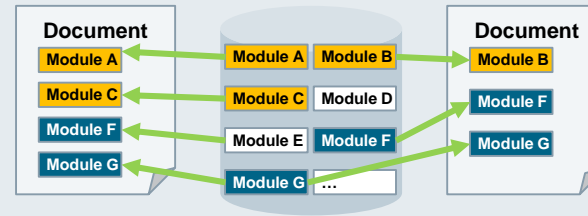
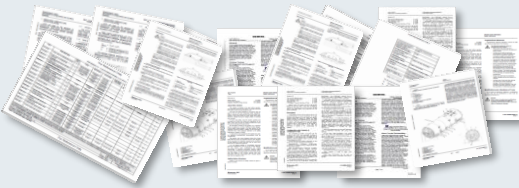


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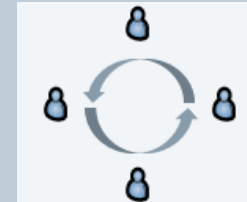
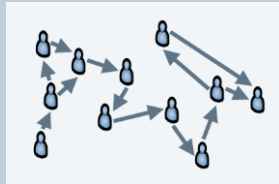
Benefits of an integrated CMS solution

Reasons to implement a CMS solution - Examples

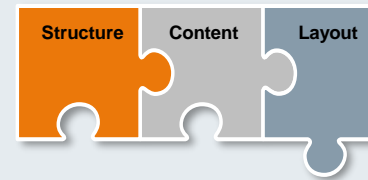
Motivation



From independent documents to well structured re-usable content



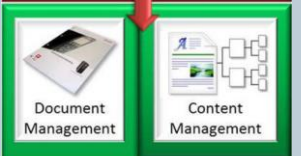
From complex and time-consuming workflows to lean and transparent approval processes



From desktop publishing to layout independent authoring of content with a common look and feel

Solution

SIEMENS



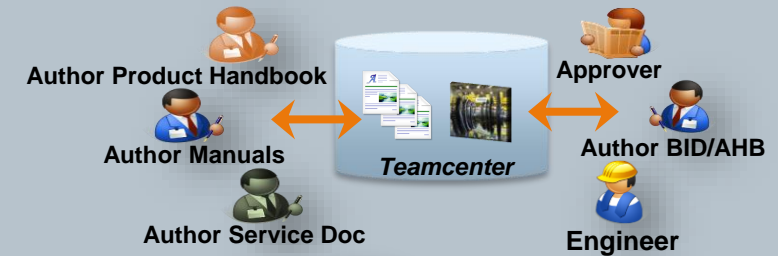
Teamcenter

Benefits of an integrated CMS solution

Technical documentation becomes part of PLM



- **Improve collaboration**
Let technical authors join the product lifecycle management platform!



- **Improve cross-discipline communications**
An integrated product definition that all related organization can use

Creates the document structure and topics

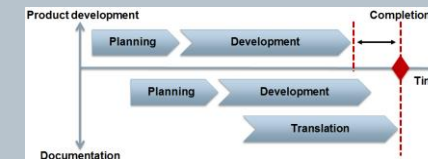
Author GT Manual



Author Bidding Doc

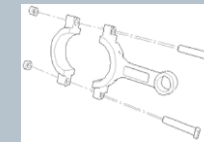
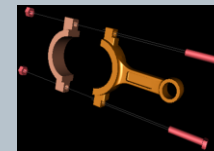
Contributes to existing topics

- **Reduce risk of inconsistent or out of date technical documentation and shortening the length and complexity of the publication cycle** thru an holistic environment



Saving time by reuse and parallelization

- **Improve quality**
by accessing content that is authored directly from engineering
Uniform Layout
by using Stylesheets to meet company standards



Equal layouts in publications



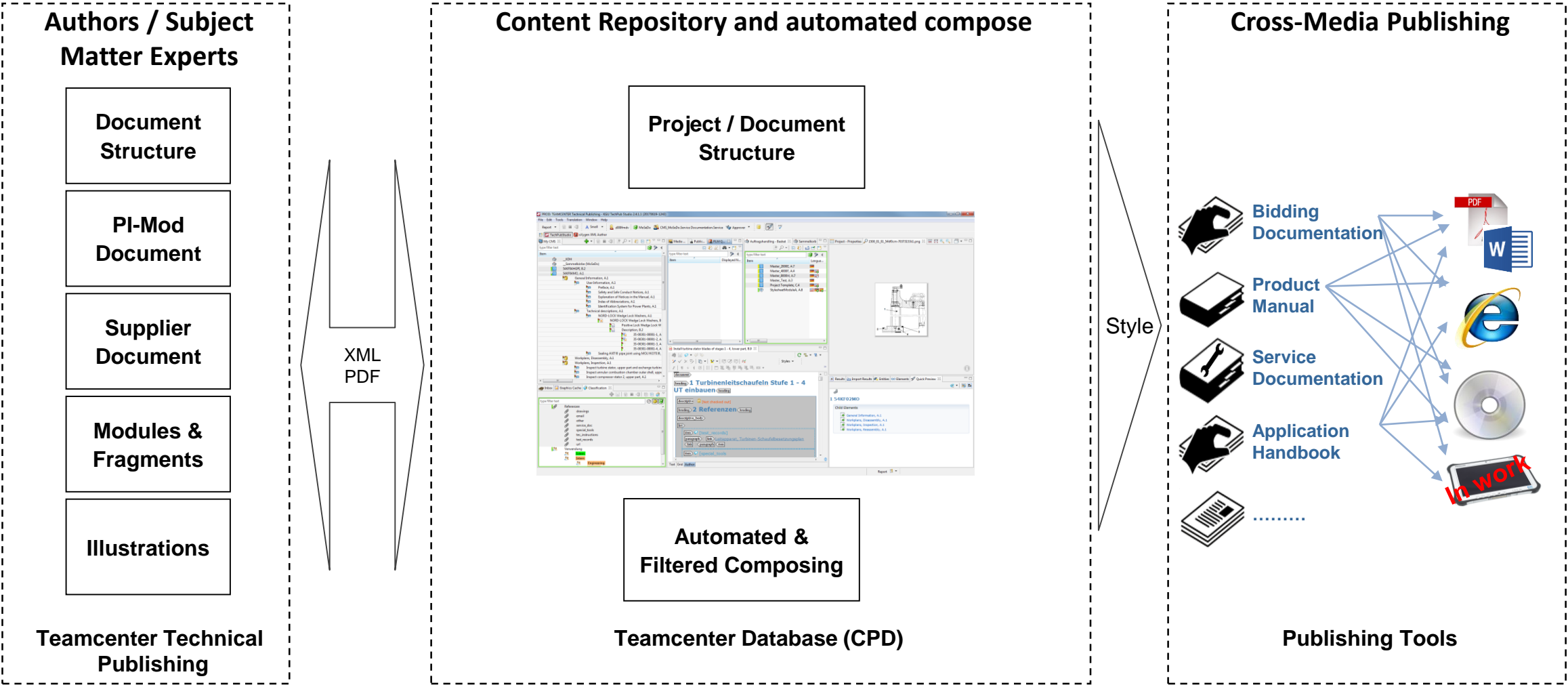
Norms and directives
Warnings and Safety advises
Logos and images ...

- **Reduce costs and complexity of the IT application landscape**
by using the in-house PLM backbone



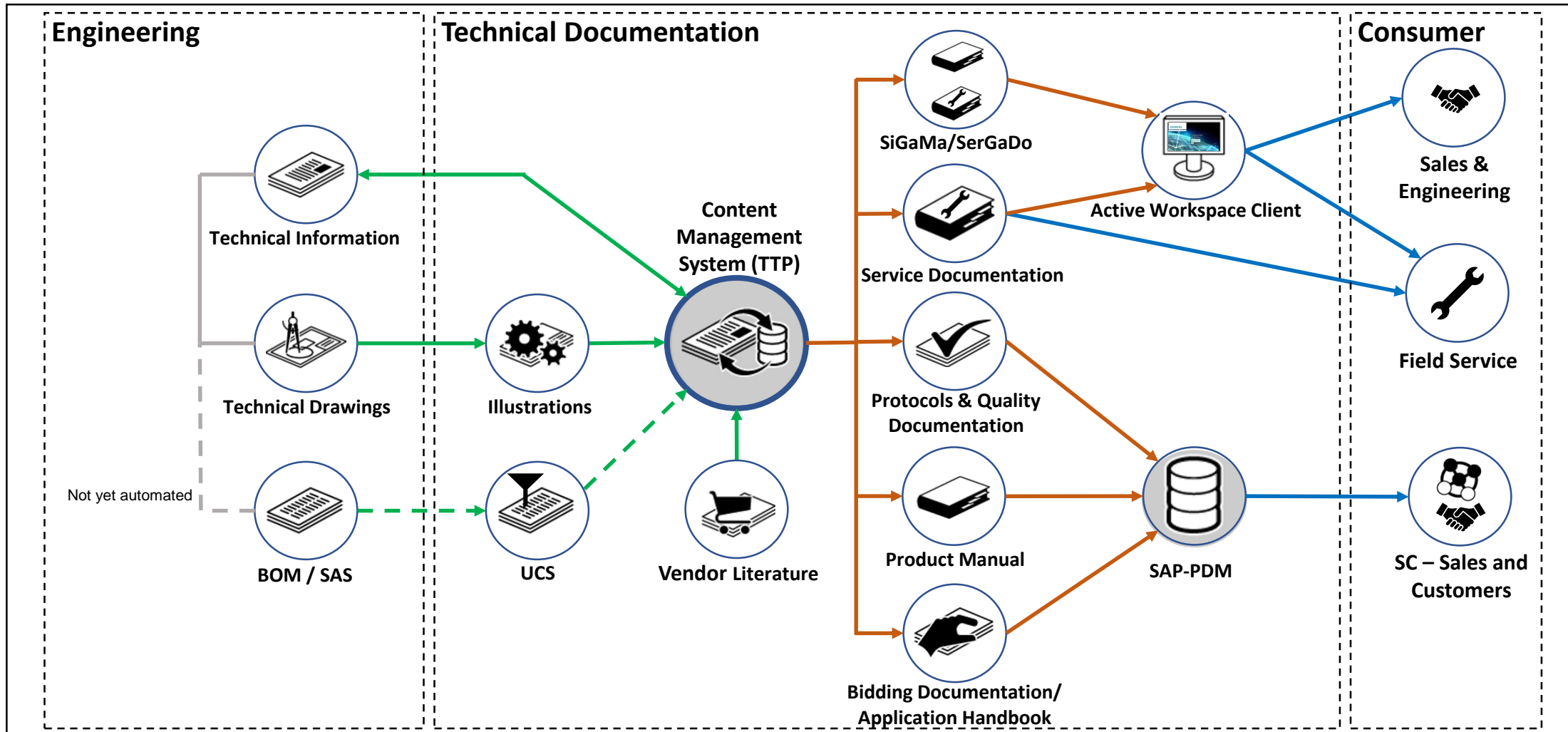
Benefits of an integrated CMS solution

From authoring to publishing HQ documentation



Benefits of an integrated CMS solution

TTP within the Siemens Technical Documentation



Challenges

Ensuring full benefit of CMS



- Business
 - Modular XML-based authoring instead of traditional way
 - New processes
 - Stylesheets instead of manual formatting
- IT
 - Integrate TTP into an existing PLM landscape
 - Multiple groups with different requirements
 - Stylesheet implementation
 - Service: TTP Support

Experiences

Business Feedback



“The modularization and classification of content has made it possible to publish the increasingly complex documentation for different target groups.”

Klaus-Dieter Hust (Business Tool Owner)
PS PG
Siemens AG

“Modularization and classification of content forms also the basis for complex text configurations in bidding documents, e.g. regarding selection of scope of supply.”

Thomas Korinek (Business Lead)
PG SC EMEA
Siemens AG

Efficiency

“By working in the PLM system, the technical editing department can centrally author their documentations, use it across divisions and integrate the engineering into the approval process.”

Klaus-Dieter Hust (Business Tool Owner)
PS PG
Siemens AG

“Active Workspace enable us to serve the latest and greatest information to all users – even if they haven’t TC Rich Client access”

Alfred Rott (Business Lead)
PG PR MGT
Siemens AG

“Variables in documents, whose values are comfortably managed in an Excel spreadsheet, allows re-use of standardized documents for different documentation projects.”

Thomas Korinek (Business Lead)
PG SC EMEA
Siemens AG

What are the next steps



- **Completely embed Technical Documentation into the Product Lifecycle Management process!**
 - Direct reuse of engineering 3D and 2D data in technical documentations (Cortona 3D)
- **Improve quality of content and collaboration**
 - Implementation of Acrolinx for improve content/syntax of the documentation
 - Extend collaboration of Regions
- **Digitalization of Technical Documentation to be prepared for future trends**
 - Finalize HTML5 publication in addition to PDF and Word
 - Interactive service documentation (AR)

TTP Extensions & Optimization

To match business process, ease of use and for optimal use of CMS concept

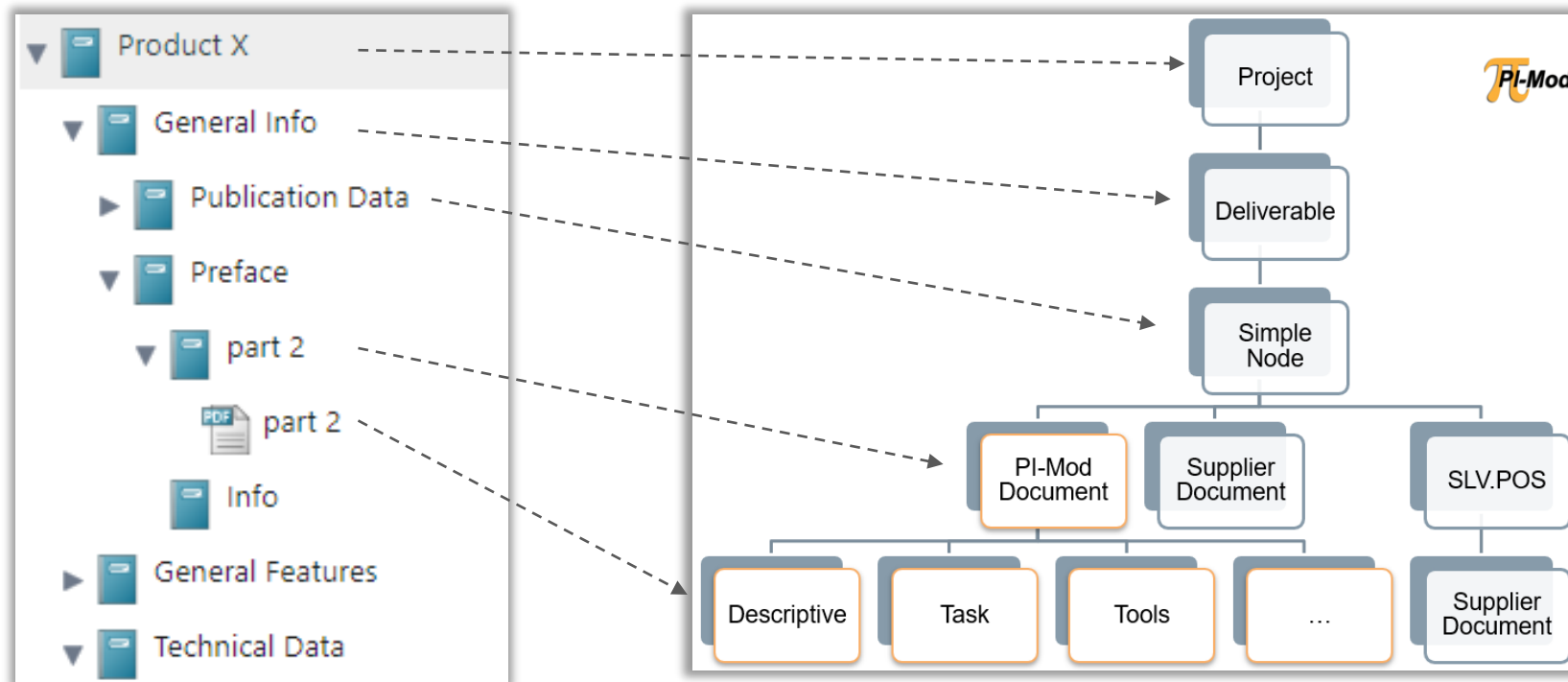


- **XML Data Model**
 - Pi-Mod
- **Structure Management**
 - Derive Master Structure into Product specific Structure
 - Supplier Document Management
 - Replace by Copy
 - Content Review: Document Validity
 - Graphic Management
- **Release Management**
 - Content, Structure release
 - Find Non-released objects in Structure
 - Structure update
 - Minor Edit
- **Translation Management**
 - New process to connect directly to Siemens Global Translation Service
 - Get Translation Status
- **Publish Management**
 - PDF, Word, (HTML) Stylesheet
 - Stylesheet Module
 - Variable Module
 - Option Handling
- **Admin Configuration**
 - **Project Setting:** Managing requirements / features / access for different user groups

XML Data Model

PI-Mod

- Designed to meet the requirements of the industrial machine and plant production
- **P**roduct and **I**nformation Classification

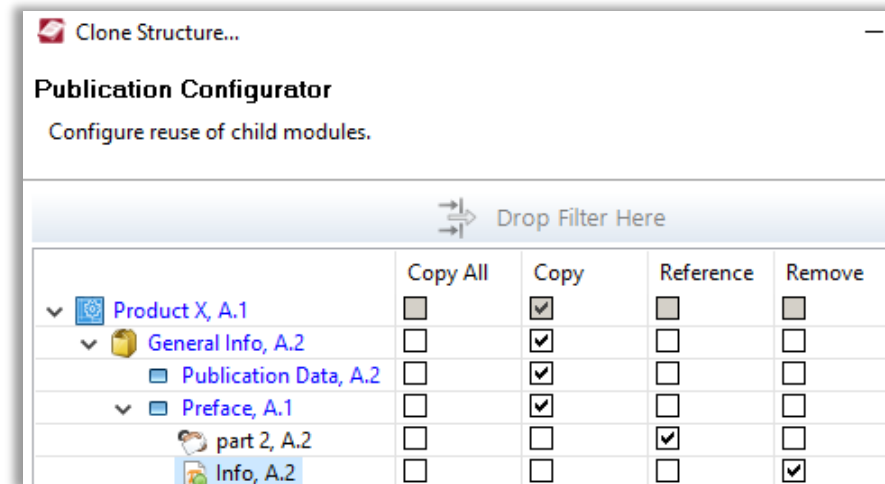
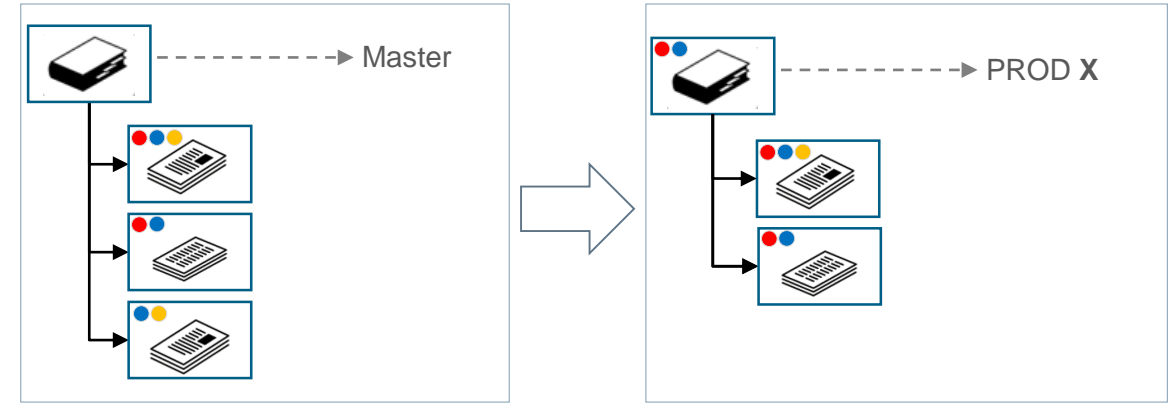


Structure Management

Master & Product Specific Structure

Master Structure: 150%

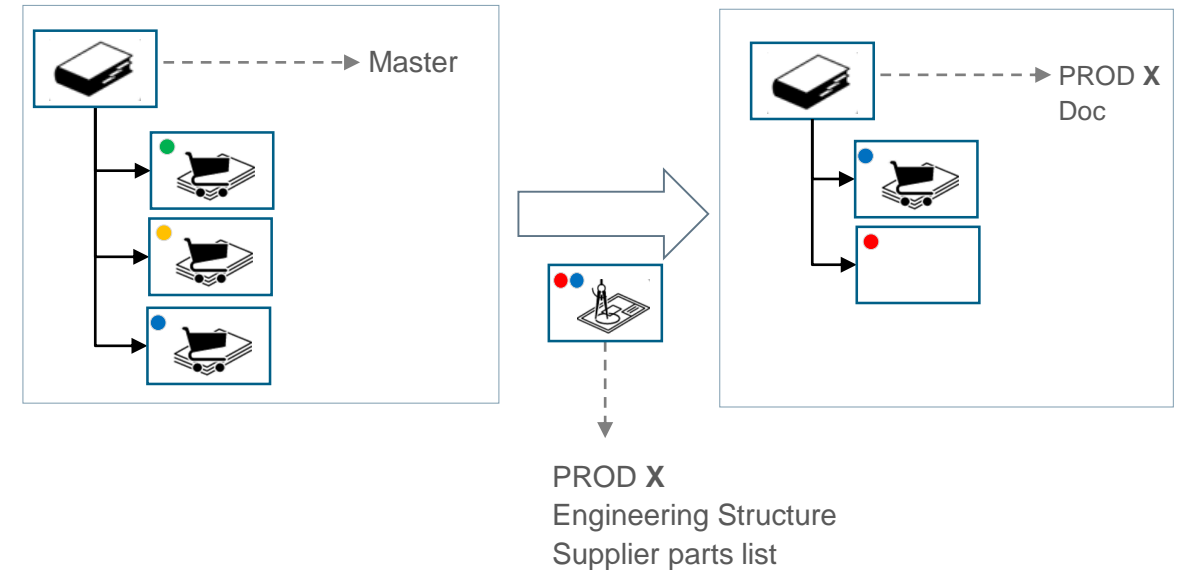
- Contains information for complete product line with metadata and classifications
- Restricted Access, Warning on check-out
- Several ways to create Product Specific Structure
 - **Publication Clone / Configurator**
 - **Customized Project Management**
 - including completeness check of the Product Specific Structure



Supplier Document Management

To manage documentations for supplier parts

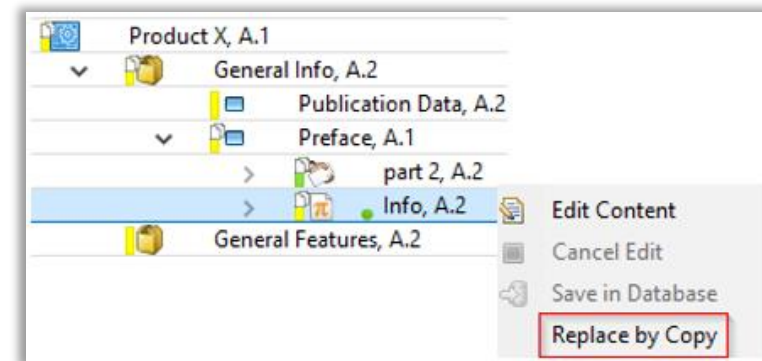
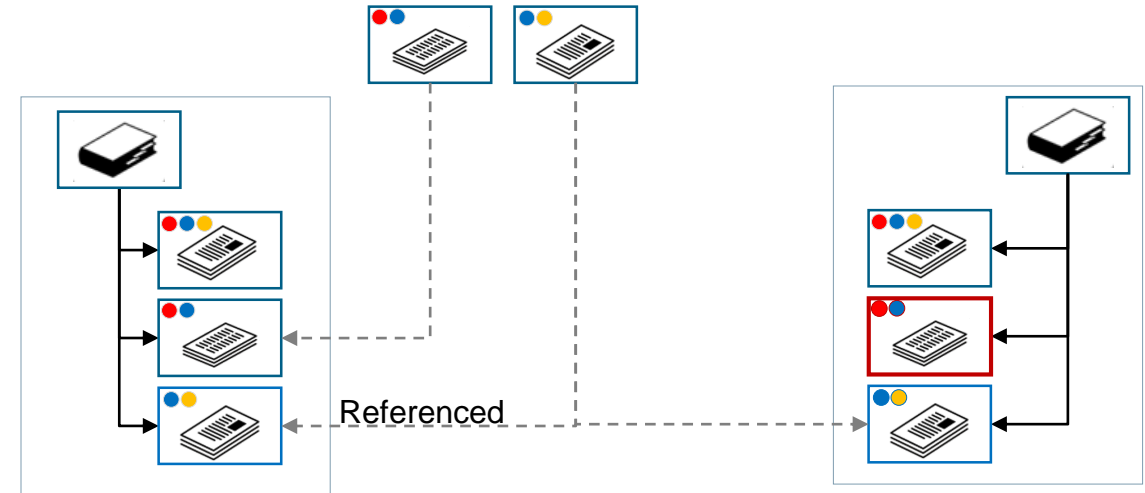
- Master Structure contains all Supplier Parts documents
- List of Supplier Parts in a product structure
- Get necessary supplier documents from Master Structure
- List missing documents



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Ingenuity for life

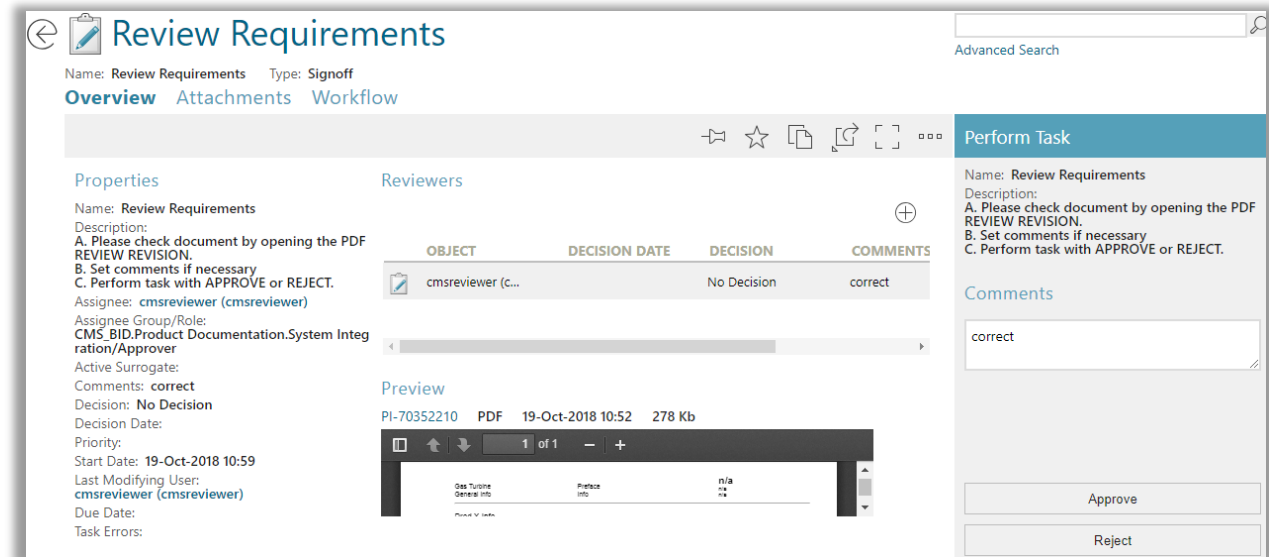
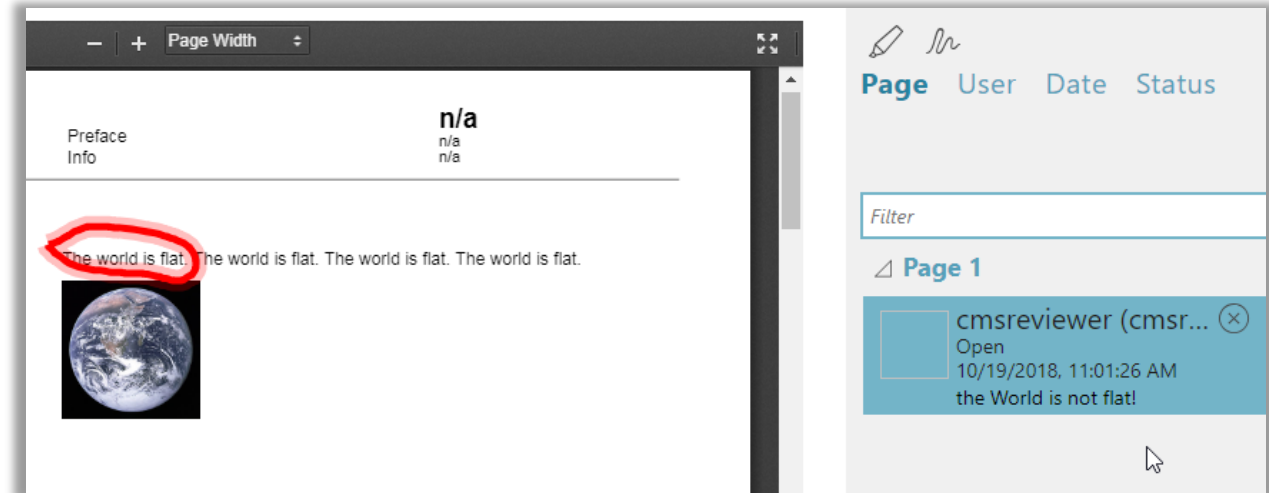
Replace Reference by Copy

- An object can be referenced in more than one place. If the content is updated, it changes in all places
- The feature is to simplify multiple steps into one single step



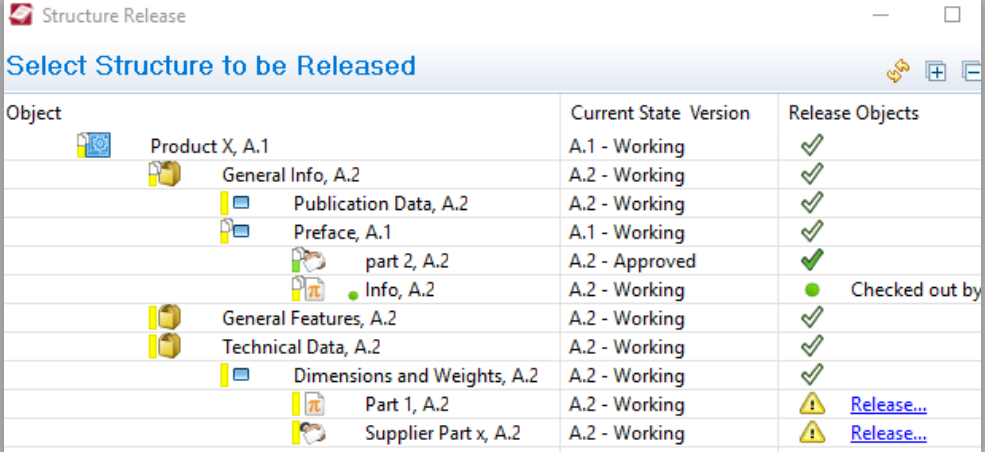
Content Review

- Review based on PDF Markups
 - Responsible
 - Reviewers
 - Validity
- Use Active Workspace Client to review and Markup creation (user without Rich Client)



Release Process

- Two-stage Release Process
 - Structure can be released only after the content is released
 - Objects are released bottom-up
- Control on who can release what
 - *Author*: can release content modules
 - *Approver*: can release upper level content
 - *Manager*: can release complete structure
- Find Non-released objects
- Fixed link: Structure Update
- Minor Edit
 - Content and Metadata

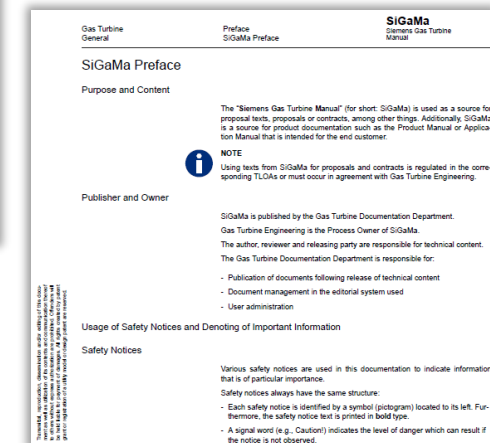
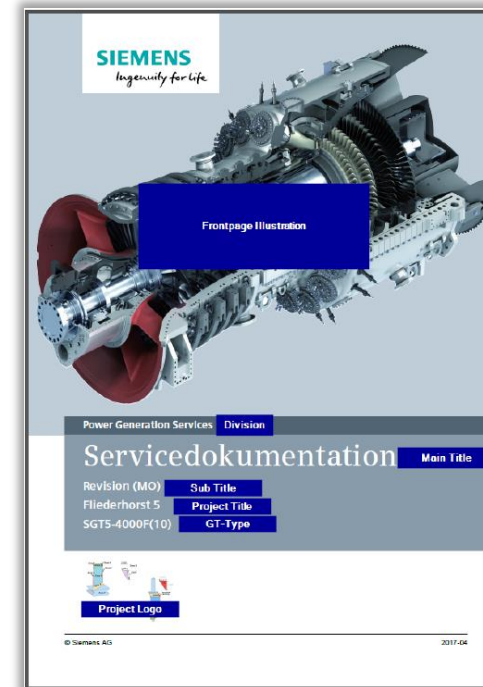


Object	Current State	Version	Release Objects
Product X, A.1	A.1 - Working		✓
General Info, A.2	A.2 - Working		✓
Publication Data, A.2	A.2 - Working		✓
Preface, A.1	A.1 - Working		✓
part 2, A.2	A.2 - Approved		✓
Info, A.2	A.2 - Working		● Checked out by
General Features, A.2	A.2 - Working		✓
Technical Data, A.2	A.2 - Working		✓
Dimensions and Weights, A.2	A.2 - Working		✓
Part 1, A.2	A.2 - Working		⚠ Release...
Supplier Part x, A.2	A.2 - Working		⚠ Release...

✓	Module is ready to be released.
✓	Module has already been released and will be skipped.
🔒	Module is checked out and has to be checked in first.
⚠	Content module not yet released, has to be released separately or replaced by a released version.

Publish Management

- Outputs: PDF, Word and HTML
- Single and multiple document publication
- Publish configuration (Stylesheet Module)
 - Coversheet
 - Header, Footer

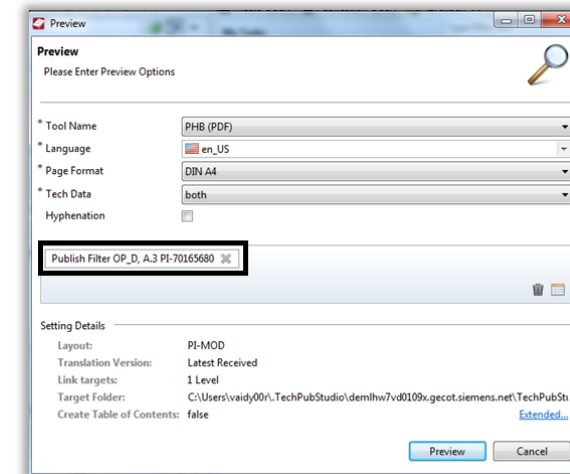
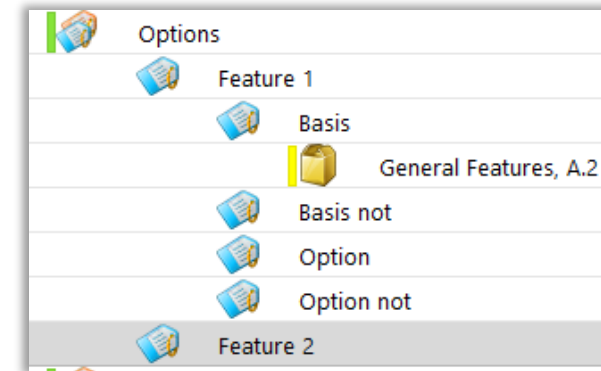


Publish Management

Option Handling

- Objects are classified appropriately
 - *Option, basis, n/a*
- A list in a structure specifies parts options of a product
- Filter is created automatically to be used in a publication

B	C	D	E
Version	XML Nummer	Titel	
AT	PI-79336985	Deliverable	
Options	Behaviour	Checked	The following values can be used for the column "Behaviour"
Fuel system	n/a		- basis
Fuel Intake	option		- option
Dual Fuel	n/a		- n/a
Compressor	basis		



Thank You!



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