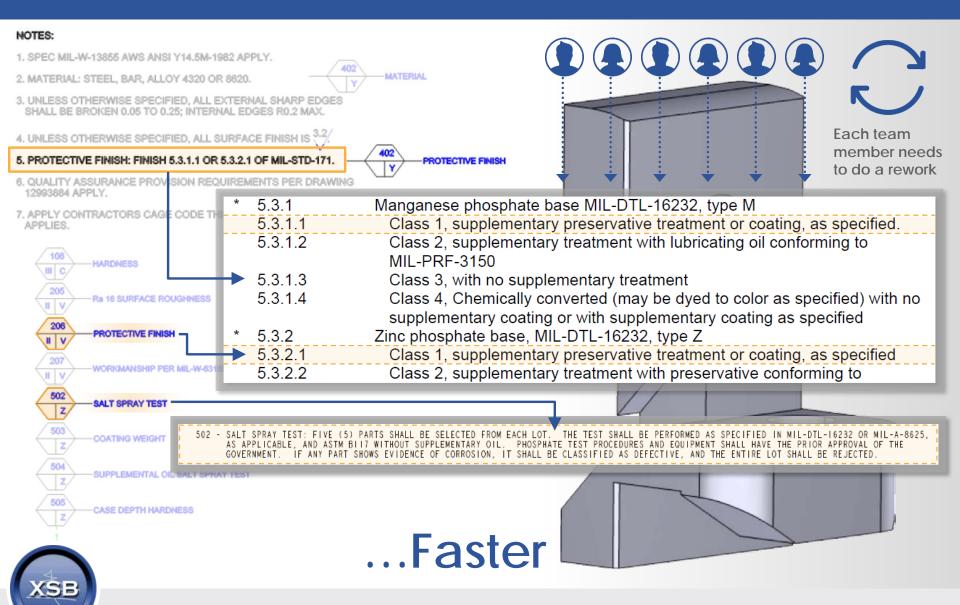
Linking Technical Requirements beyond PLM vault

Model-Based Enterprise Summit 2018

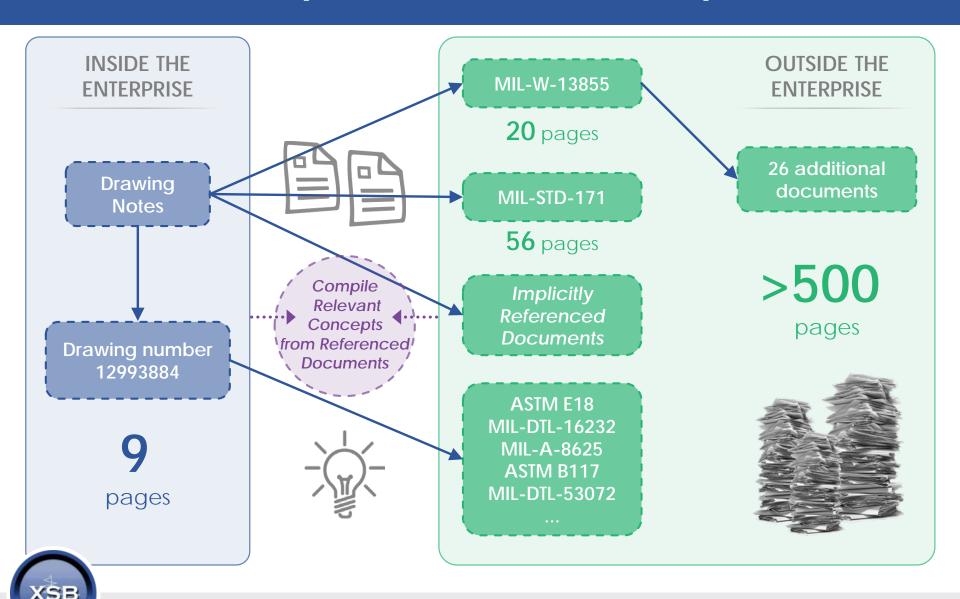


3 April 2018

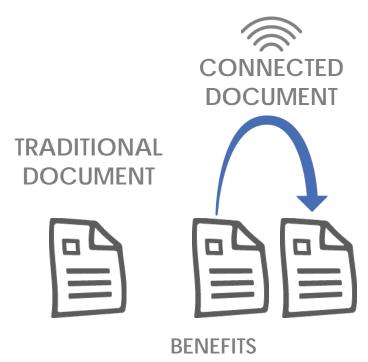
Getting to the Right Requirements...



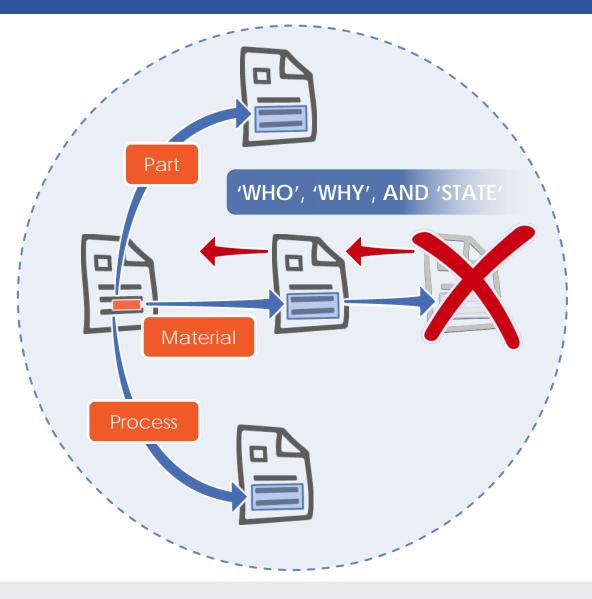
Complex Web of Concepts



SWISS®: Smart, Connected, Documents



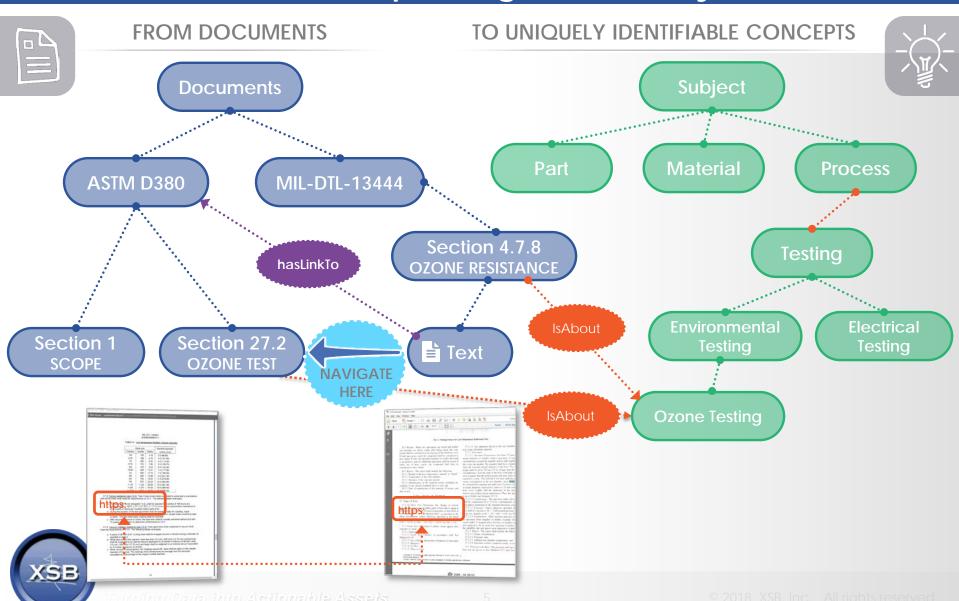
- Faster time to market
- Reduced risk
- Cost savings from less rework
- Consistency across enterprise and supply chain
- IP protection





Semantic Linking:

"Who" am I pointing to and "why"





Boundaries

URIs: Single Source of Truth in Derivative Work

1.0 SCOPE

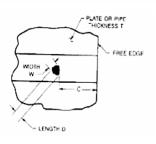
PRC-0002 Rev. B

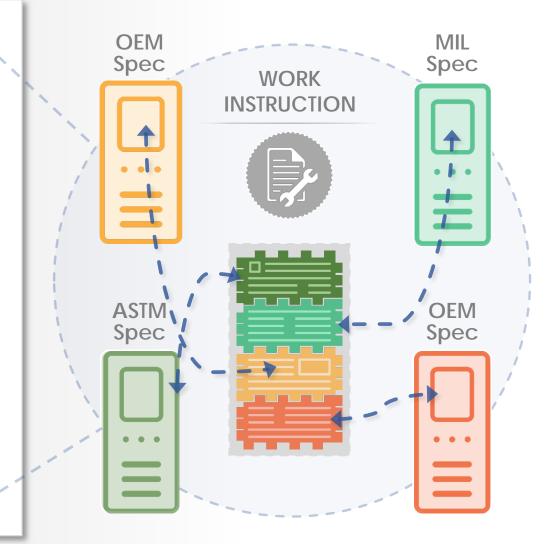
This process specification provides the minimum requirements that govern the manual arc welding of titanium alloy flight and non flight hardware! Procedural and quality assurance requirements are given. All work instructions and Welding Procedure Specifications (WPS) used during welding shall satisfy the requirements of this process specification and its applicable documents.

- a. Class A Applies to welds in critical load bearing elements that are not fail-safe. Class A welds are typically used in primary load bearing connections. Failure of a Class A weld in service is expected to be catastrophic and would likely result in the loss of life, system(s), control, or major components. Alternatively, if it is determined from appropriate engineering analyses that a weld has a Factor of Safety (FSus) vs ultimate tensile strength of the calculated minimum weld throat cross section of <2.0, it shall be designated as a Class A weld</p>
- b. <u>Class B</u> Applies to welds in load bearing elements that are fail-safe. Class B welds are typically used in secondary load bearing (i.e., shared load) connections. Failure of a Class B weld in service is expected to be serious and

Table I. Allowable Shielding Gases

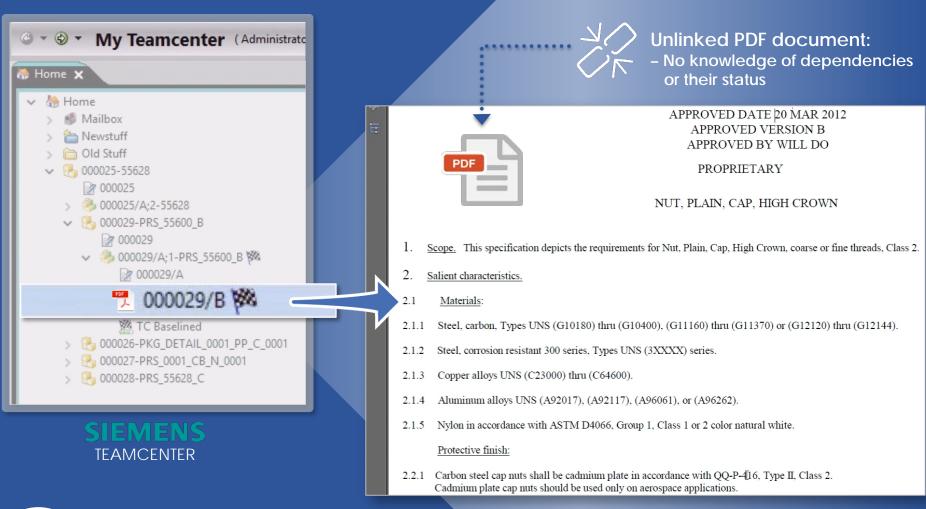
GAS	DESCRIPTION	SPECIFICATION
<mark>Argon</mark>	Gas	MIL-A-18455
<mark>Argon</mark>	Type II, Grade B (Liquefied)	CGA G-11.1
<mark>Helium</mark>	Type I, Grade A	MIL-P-27407
<mark>Helium</mark>	Grade A	BB-H-1168





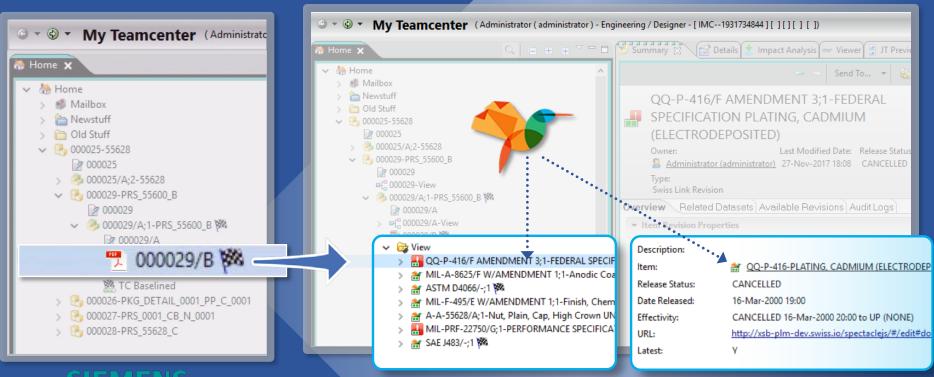


Change management in the engineers' environment





Extending the view: SWISS® Intelligent Objects



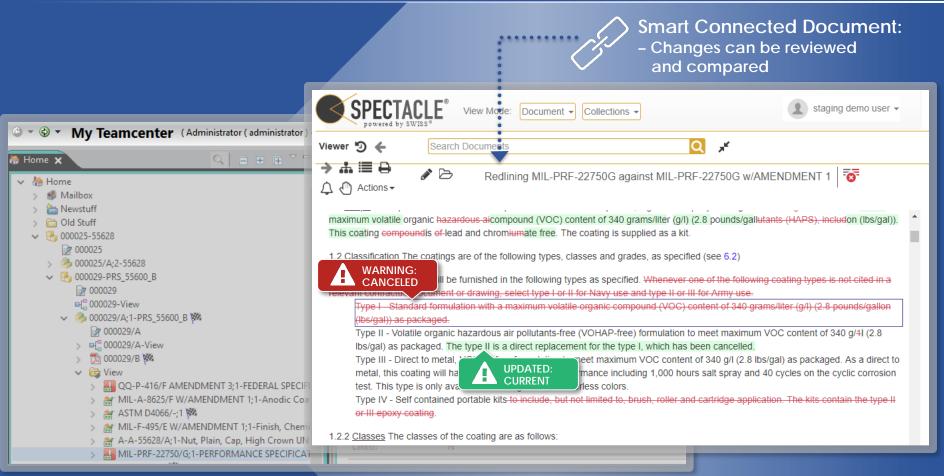
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Expanding structure by creating relationships to concepts in external Standards SWISS objects 'know' their status and meaning.

Funded by DLA RDSS R&D Program



Evaluation of impact of changes



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SWISS enables engineers to determine if changes are significant enough

Funded by DLA RDSS R&D Program



Next Steps

Even Smarter Standards

Deeper integration with DoD systems

Exploration of interoperability and linking with other frameworks and technologies



Questions



