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PTC 320 - Consolidating PTC Windchill Systems Through Migration

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- Strategic migration use cases
- PTC Tools that support PTC Windchill consolidation
- What's new and improved for supported migration paths
- Future roadmap
- Migration best practices



Overview

Strategic Use Cases Requiring Migration

PTC Tooling in Support of PTC Windchill Consolidation

Value Drivers for System Consolidation

PTC Windchill: the Leading Choice for Enterprise Product Development

- Value comes from standardizing Enterprise PLM on PTC Windchill
 - Single source of truth
 - Improved, consistent business processes
 - Lower cost of ownership
- Migration enables PDS strategies that call for convergence to PTC Windchill

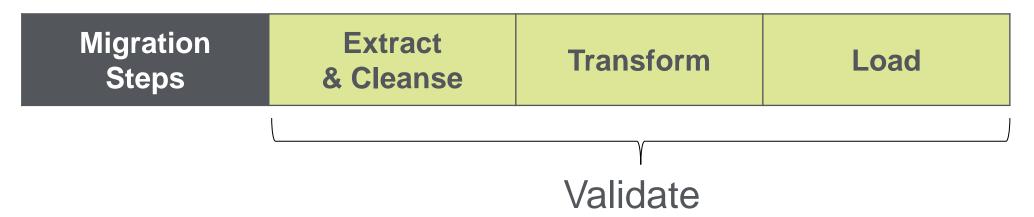
Common PDS Roadmap Convergence Scenarios

·				
System Consolidation	Legacy System Replacement	Mergers and Acquisitions	Implement OOTB Solution	Divestitures
 Consolidate distributed PLM environment components that grew over time Typical: combine CAD Data management and Enterprise Config/Change Mgmt functions 	 Replace customer or commercial legacy PLM systems Usually done to take advantage of common data and process best practices 	Integrate data and processes from new businesses into existing central PLM instance	 De-customize a heavily customized older product release Especially applies to many older Foundation systems 	Extract portions of PLM environment to combine with an existing PLM or to stand up a new, independent PLM
		PTC Confidential and Proprietary		

Migration Technologies

Migrations follow an Extract, Transform, Load and Validate (ETLV) methodology

ETLV Migration



- Key Questions
 - Who needs to be involved?
 - What infrastructure is needed?
 - What to migrate?
 - How does data map?
- And... What can the migration tools do?

The PTC Windchill Bulk Migrator

PTC's premier migration solution to support system consolidation



 Unify data management system landscapes

Standardize on out-of-the-box solutions

 Evolve and adapt new design best practices

Today's PTC Windchill Bulk Migrator Contents

The WBM is being used today at multiple accounts



Used at more than 60+ projects since 2011

Contents

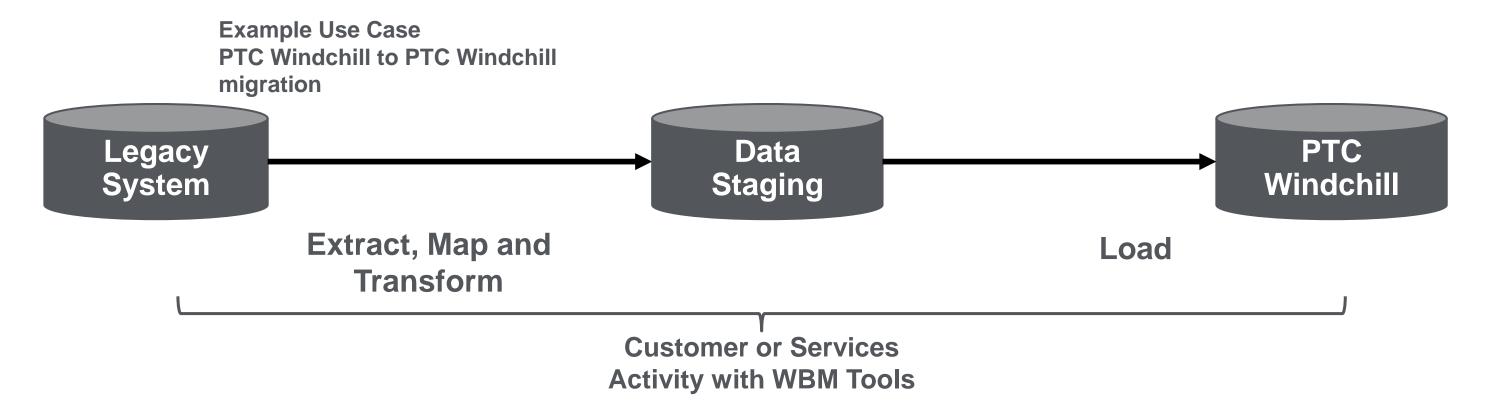
- PTC Windchill extractors
 - Plus mappings for ootb objects
- Standard neutral data format
- PTC Windchill 10.x load infrastructure
- Pre-Load verification
- Post-Load verification

WBM loads data into PTC Windchill from a defined staging database

- Pre-Loading activities
 - Target system design and configuration
 - Data mapping

WBM activities

- Extract and stage data
- Control data loading and sequencing
- Hide data during migration
- Reveal data after migration
- Audit migration data completeness



PTC Windchill Product Support: current supported releases

PTC Windchill Bulk Migrator Release	PTC Windchill PDMLink	PTC Windchill ProjectLink
WBM 4.0 M020	Load Into 10.2 M030 Extract From: 9.1 F000+ 10.1 F000+ 10.2 F000+	Load Into 10.2 M030 Extract From: 9.1 F000+ 10.1 F000+ 10.2 F000+
WBM 4.0 M010	Load Into 10.2 M010 10.2 M020 Extract From: Same as WBM4 M020	Load Into 10.2 M010 10.2 M020 Extract From: Same as WBM4 M020
WBM 2.2 M020	Load Into 10.1 F000+ Extract From: 9.1 F000+ 10.1 F000+	Load Into 10.1 F000+ Extract From: 9.1 F000+ 10.1 F000+

Check PTC.com for the latest Product Compatibility Matrices Documentation



What's New in Current Releases

PTC's Windchill Bulk Migrator

PTC Windchill Bulk Migrator 4.0 – What's New

Support for NEW migration use cases / Lowered migration costs!

You Asked For...

Bulk Load CAD data from folders

- For PTC Creo and CATIA V5
- Distributed directories on separate systems

Fewer migration test hassles

- Less of "try/fail/fix" migration approach
- Reduce number and duration of migration rehearsals

Extract Data Subsets

- Extract portions of data sets, rather than the complete data set
- Less tool customization, more support for additional object types

We're Delivering...

Exactly!

- Pre-processing tools generate, and pass neutral data to the PTC Windchill Bulk Migrator
- The WBM takes it from there

Pre-load data verification

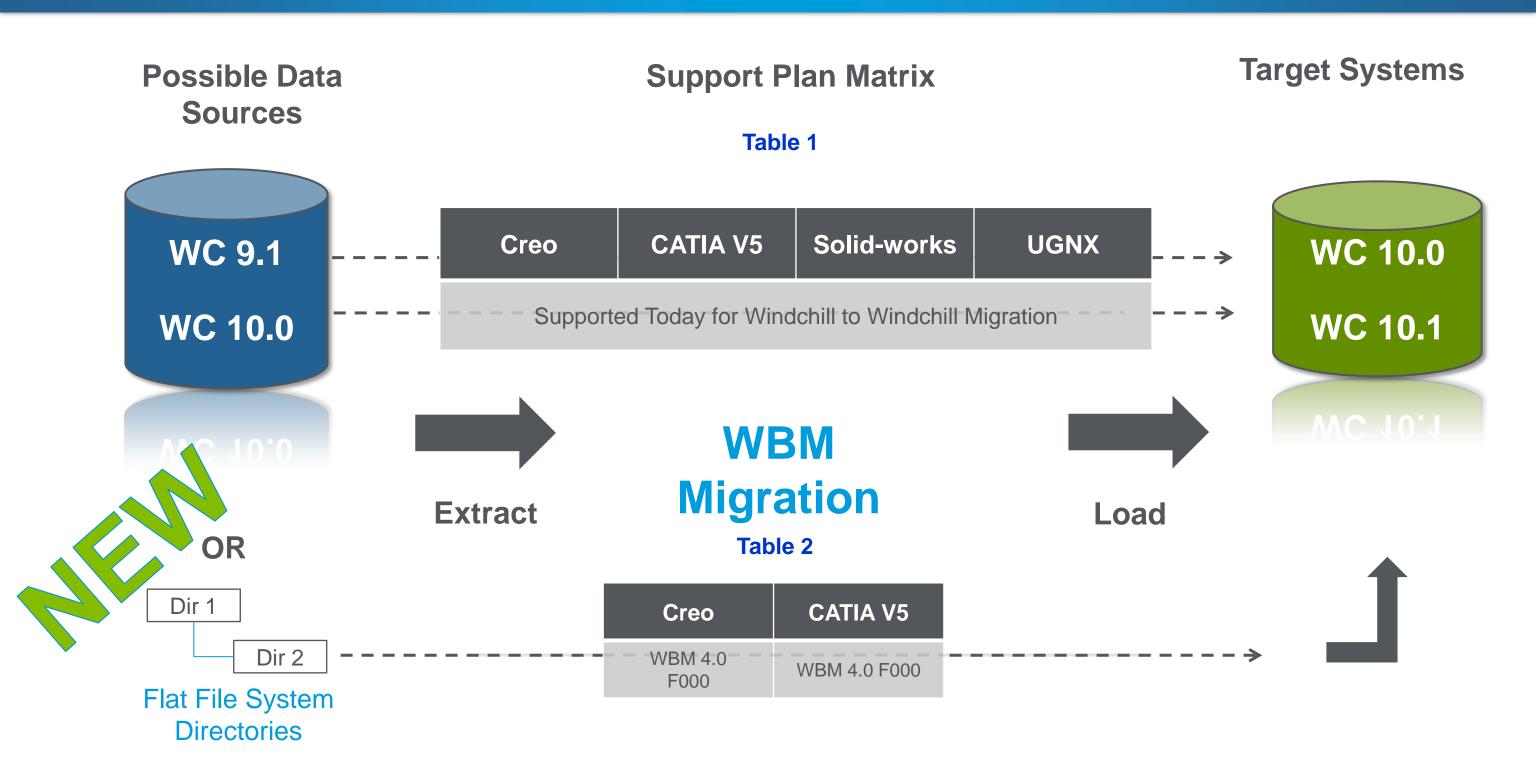
- Verify staged data vs. target system admin settings
- Validate data referential integrity

Exactly!

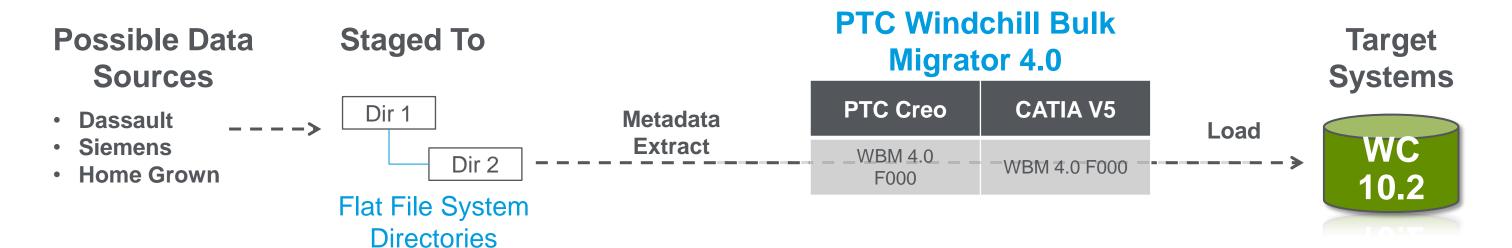
- Example: by Container, By Name
- User input treated as seed data

Generic object loaders

No custom loader development needed for most object types



Bulk load PTC Creo, CATIA V5 CAD data from flat file directories



Key capabilities



- Edit attributes, and mapping to the target PTC Windchill system
- Create Neutral Data and secondary attachment
- Analyze data integrity
- Fast Content migration



Future Roadmap

PTC's Windchill Bulk Migrator

WBM 4.0 M010, plus PTC Windchill 10.2 M010

WBM 4.0 M020, plus PTC Windchill 10.2 M030

Future Roadmap

Migration Of:

- Business Divestiture
- Options and Variants
- MPMLink

Migration Of:

- Security Labels & Agreements
- SQLServer 2012

Release Themes:

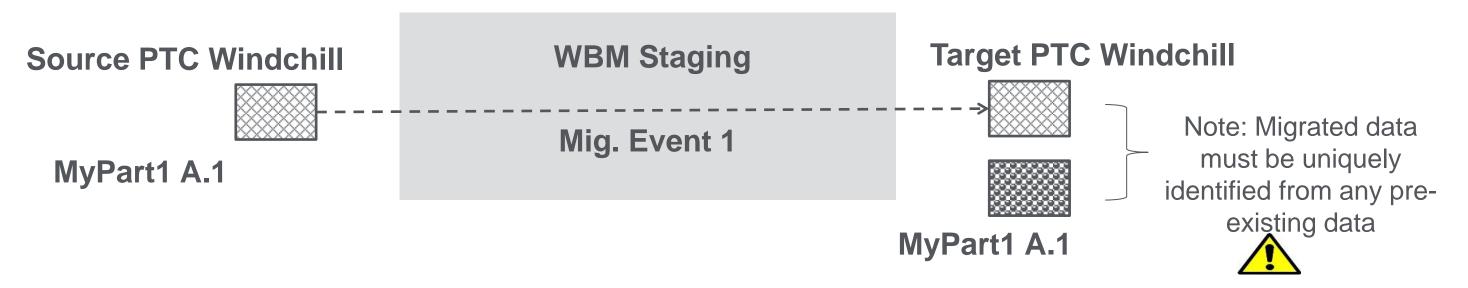
- Merge common components and product structures
- Gradual/Phased migration
- UGNX from file system

- Built to support strategic use cases:
 - PTC Windchill to PTC Windchill Consolidation
 - Legacy System Replacement
 - Model Manager to PTC Windchill migration

PTC Windchill Bulk Migrator Roadmap

Migration use case under consideration for future releases

Merge of Pre-Existing Common Component



Key



Complete data set to be migrated Pre-existing data in the target system, not migrated

Future plans are to add capabilities for:

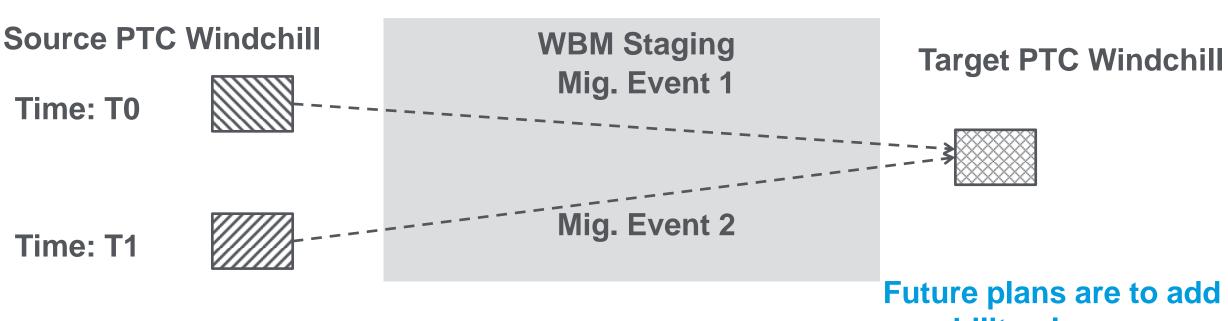
- Append
- Overwrite
- Keep or Link to existing

by the WBM

PTC Windchill Bulk Migrator Roadmap

Migration use case under consideration for future releases

Incremental/Delta Migration of Partial Data Sets



Key



Partial Data Set 1



Delta Data Set: New or iterated objects from Data Set 1

Incremental Data Migration is not yet supported with **WBM 4.0**

Future plans are to add this capability plus:

- **Lock in Source**
- **Lock in Target**

After migration has occurred

Initiatives to improve supportability and selected use cases

- Plans underway to merge PTC Windchill and the WBM
 - Migration support for new PTC Windchill releases at RTM
 - Alignment with the Critical Patch Set (CPS) process
 - Supportive of "continuous delivery" initiatives
- PTC Windchill to PTC Windchill consolidation
 - Broader support for ootb object classes
- Legacy system migrations
 - Incremental migration for CAD data loads from file system
 - Update CAD non-filebased attributes in staging



Best Practices and Recommendations

PTC Windchill System Consolidation

Best Practices For Complex Migrations

PTC and PTC Partners have broad experience with enterprise migrations

Best Practice

- •Confer with available experts
 - -Planning and Execution
- Ensure in-depth migration testing
 - -Schedule enough tool unit testing and rehearsal passes
 - -Use test hardware comparable to production
- •Use acceptance milestones
 - Object model and data mapping code freezes
 - In-depth user verification of business use cases
- Implement a communication plan
 - -Migration status dashboard
 - -Detailed task schedule and completion notification









Solved Problem

- Schedule and cost overruns
- Unsupported tools and approach
- •Procedure mistakes requiring roll-back and more rehearsals
- •Inability to tune, optimize and predict migration performance
- •"Moving the bar" on data mappings (req. more test passes)
- •Missed business use cases (req. re-design and more mig. Tests)
- Late-game project escalations
- •No contingency plan
- Delayed go-live
- Inability to shift resources

Q&A

PTC's Windchill Bulk Migrator

- Your feedback is valuable
- Don't miss out on the chance to provide your feedback
- Gain a chance to win an instant prize!
- Complete your session evaluation now

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