

PTC® Live Global

**PTC101 - PTC Windchill Business and
System Administration Roadmap**

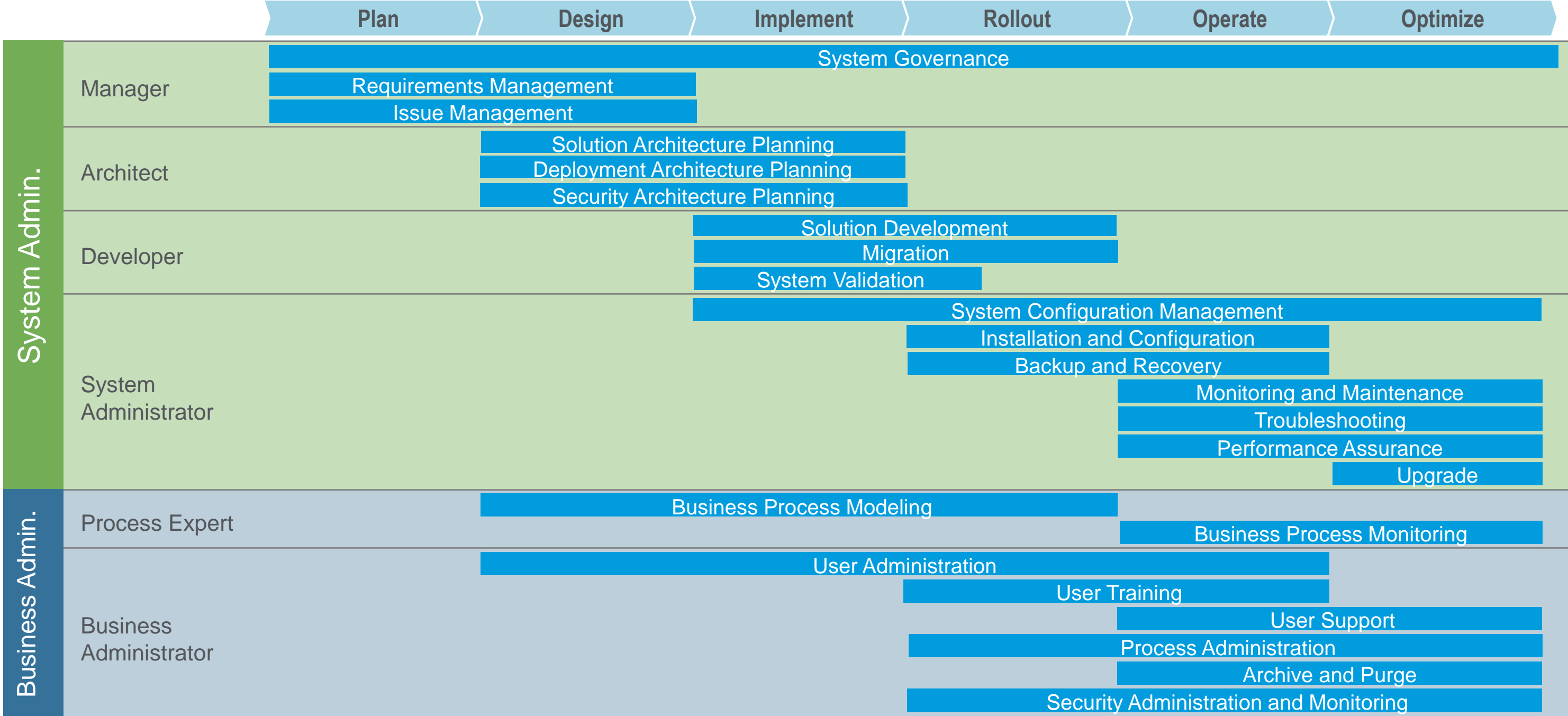
Walid Saad

Director of Product Management

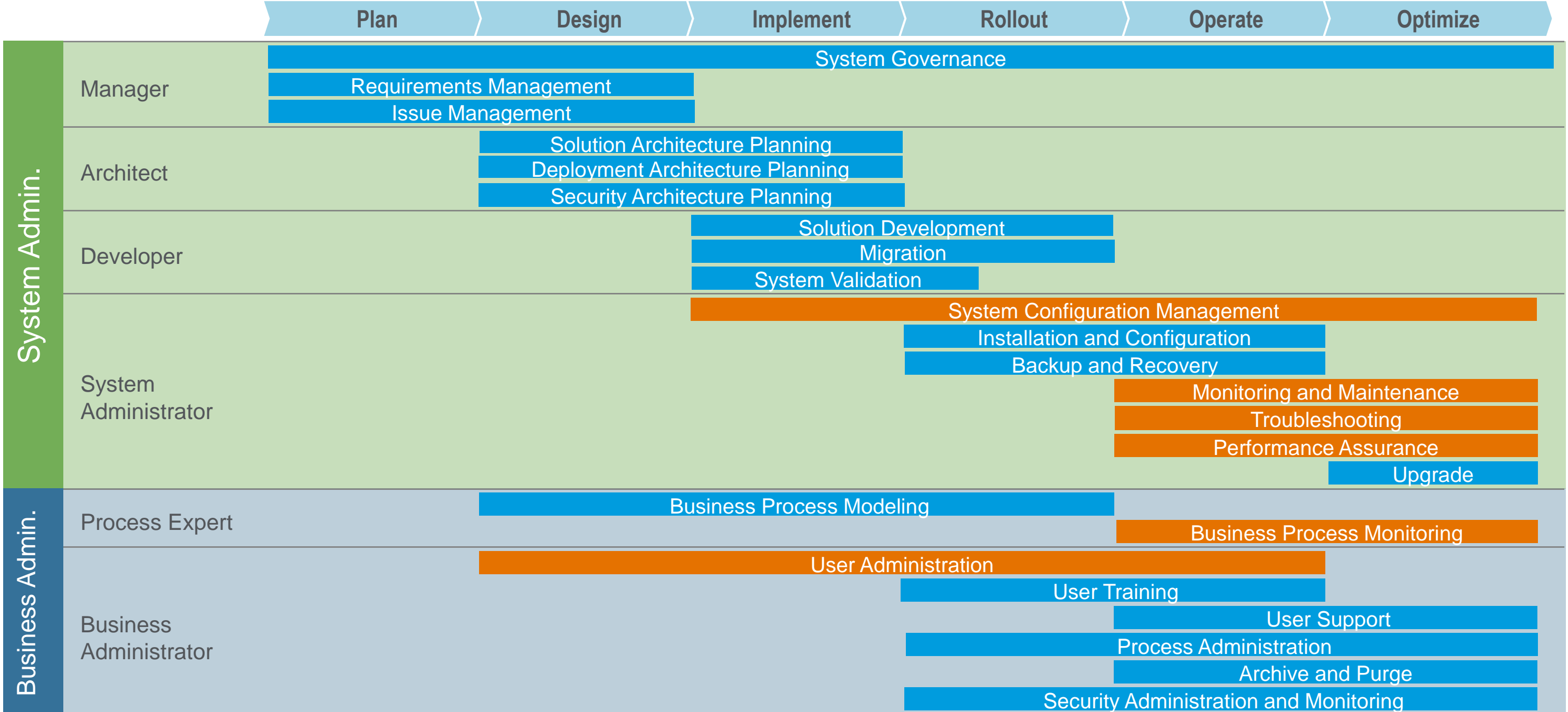
5/14/2015



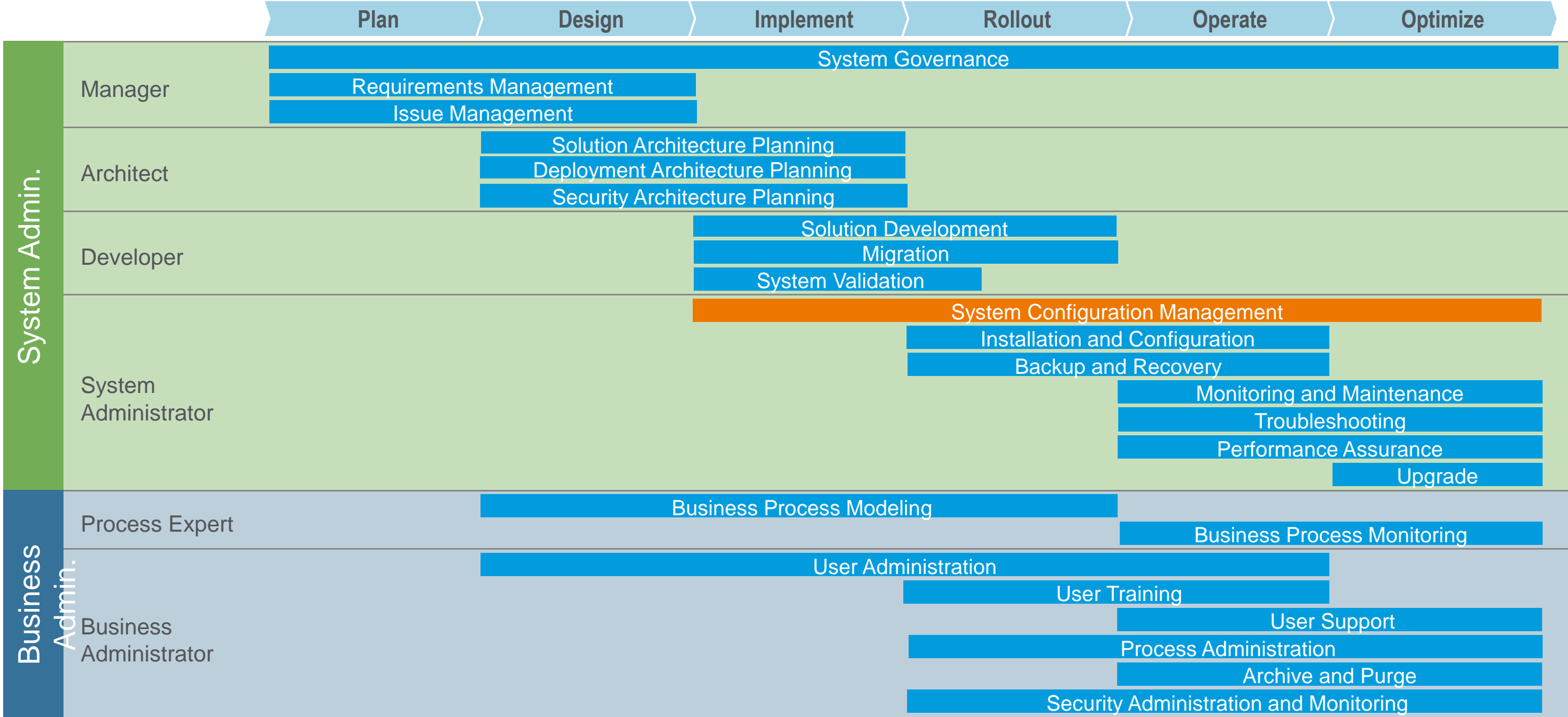
Key Processes



X-26 Improvements

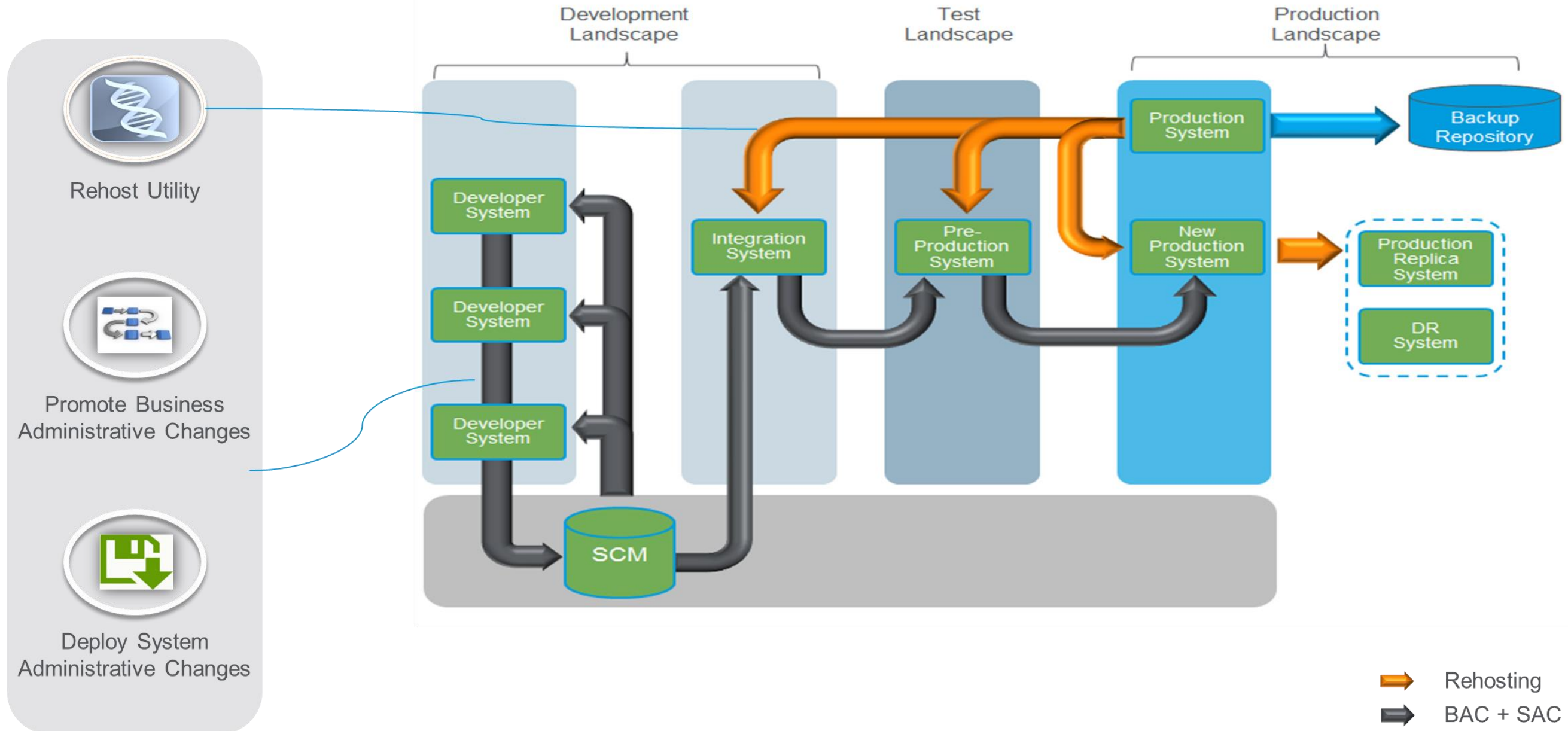


X-26 Improvements



System Configuration Management(SCM) Process Overview

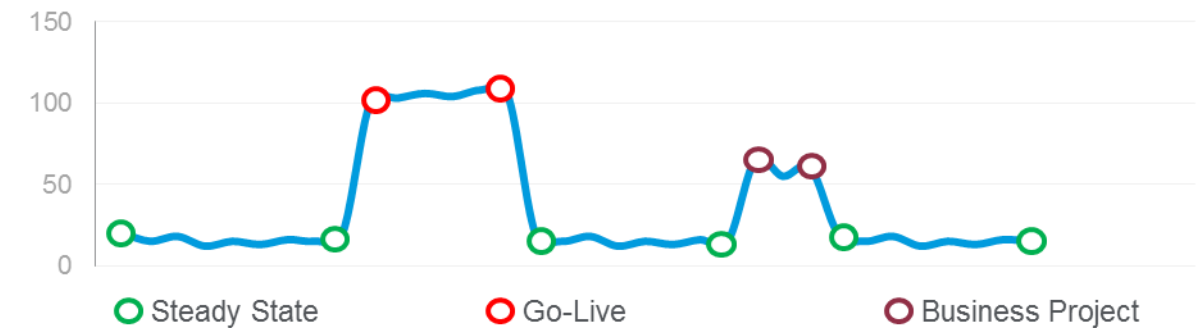
SCM is the task of tracking and controlling changes in the **software**, part of the larger cross-discipline field of **configuration management**. SCM practices include revision control and the establishment of baselines.



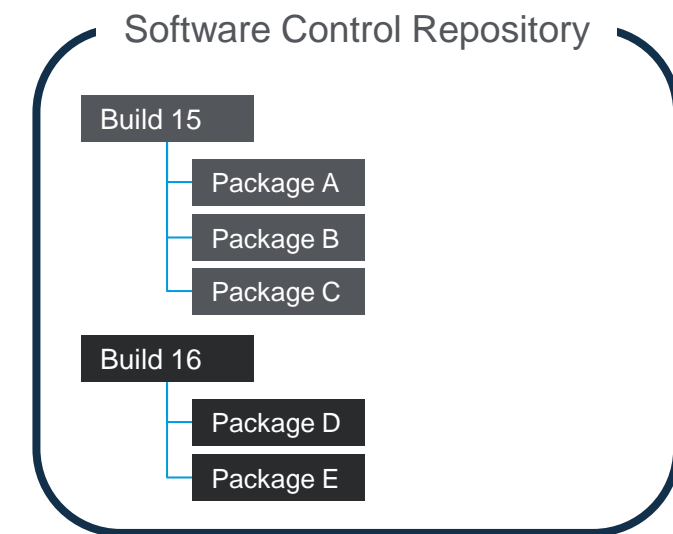
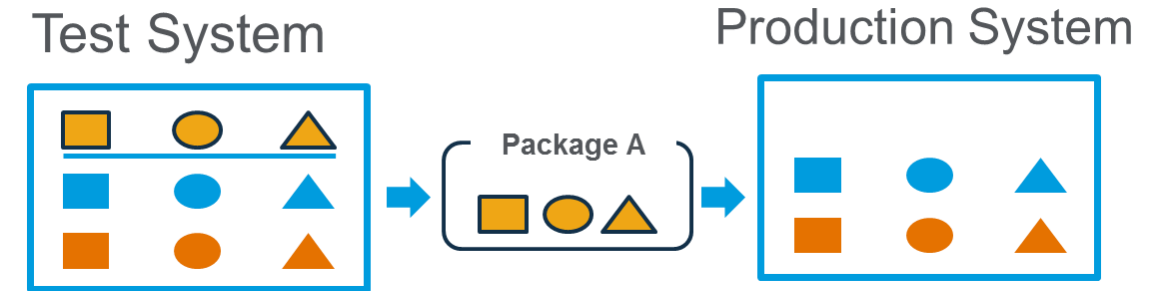
Challenges

- **Difficult to identify what Business Administrative changes were made in my environment**
 - Establishing a baseline state of my environment and subsequent changes made over time
- **High lead time to deploy change on Production**
 - Error prone and very tedious process
- **Impact grows exponentially at high rates of change**
 - Multiple and distributed Developers / Administrators exacerbate issue
 - High risk for conflicts and regressions
- **LoadFiles are not designed for managing change to downstream applications**
 - High cost associated to creating and maintaining load files and some customization may be required

Rate of Change Over Time



- Introduced in PTC Windchill 10.2 M030
 - Automated Change tracking mechanism
 - Package based import / Export capabilities
- Business Admin Change Framework
 - Baselines can be created as a point of reference
 - Creates, updates, and deletes of Business Administrative Objects will be recorded
 - Changes made after the baseline creation can be exported to a Package
 - Packages contains XML representation of changed Objects
 - Packages can be imported into target system to replay changes since baseline
 - Packages can be managed as build artifacts

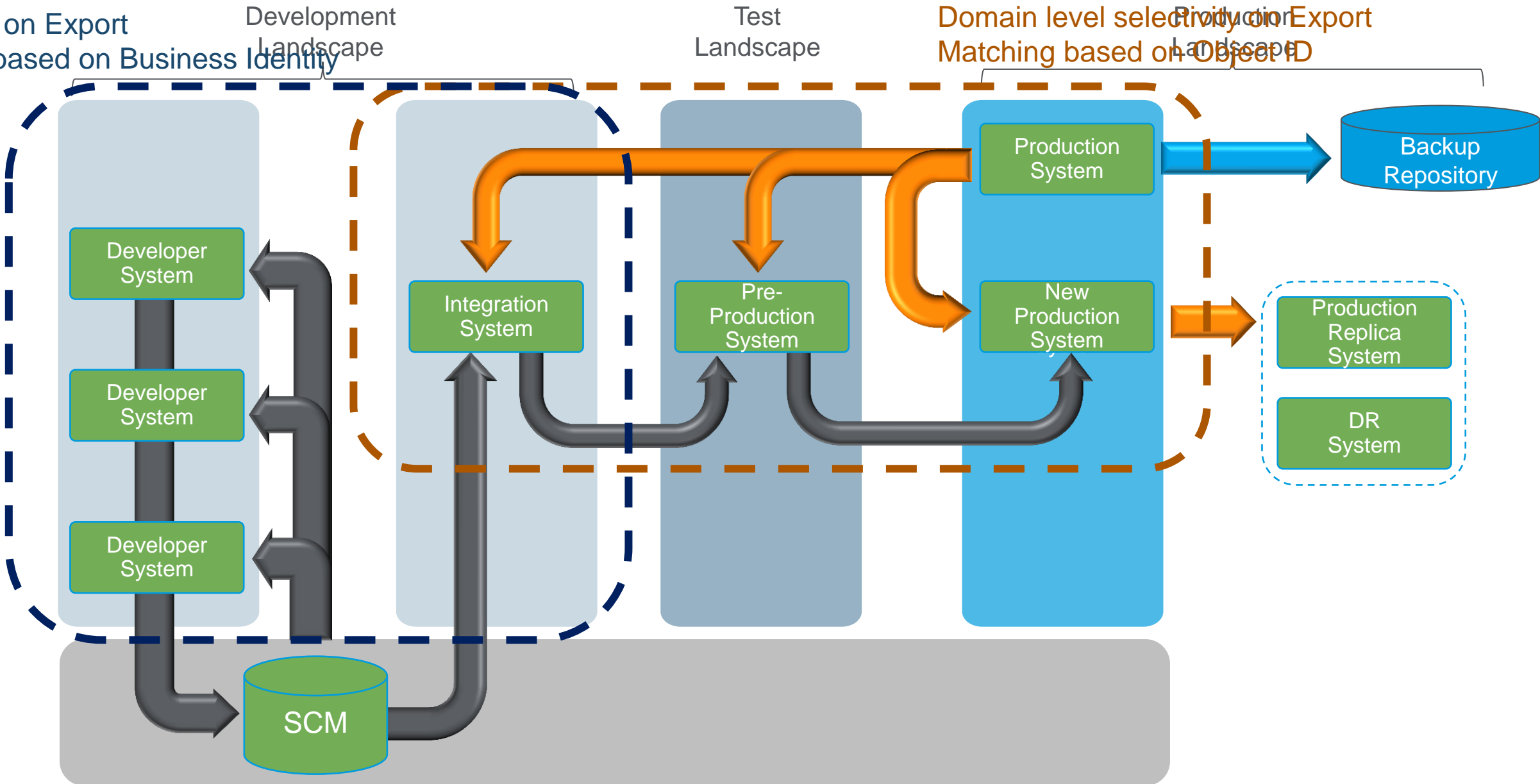


Selective Mode








Selectivity on Export
Matching based on Business Identity

Synchronized Mode

Domain level selection
Matching based on Object ID



➡ Rehosting
➡ BAC + SAC

Feature	10.2 M030
Import Export Capabilities	
Selective Mode - Intended for Development and Integration environments	
Synchronized Mode - Intended for Test and Production environments.	
Admin Object Types	
Access Control Rules	
Profiles	
Conflicts and Reports	
Conflict Handling and Resolution	
Preview Change Report	
Interface	
Command Line Scripts	





















Conflict Handling and Resolution

- Concurrent Updates
- Access Control
- Principal and Identity mismatch

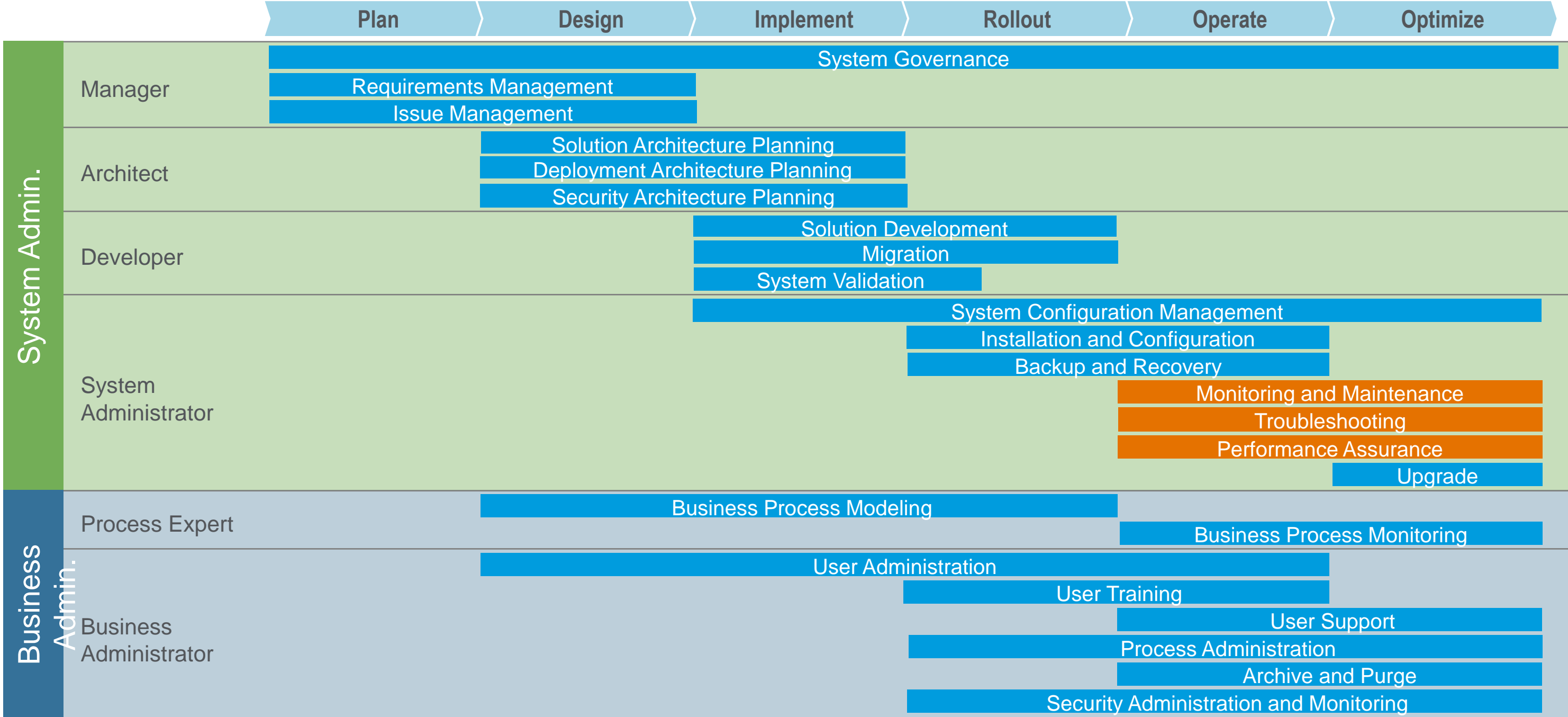
Change Report

Property	Value
Name	Profile Changes
Description	Profile changes to support engineer group requirements
Context	Site
Created on	2015-06-03 08:51:06.0

Type	Identity	Description	Action
Profile	CAD Author (Site)	Provides visibility to the Project, Product, Library, and Change Tabs and CAD data management functionality.	CREATE
Profile	Customer (Site)	Provides visibility to only the Folders subtab of a Project, hiding forums, routings, and search functions as well as CAD data management.	CREATE
Profile	Procurement (Site)	Provides visibility to the Project, Product, Library, Change, and Supplier Tabs but hides access to CAD data management functionality.	CREATE
Profile	Project (Site)	Provides visibility to the Project tab and hides the Product, Library, Change, and Program Tabs as well as CAD data management functionality.	CREATE

Feature	10.2 M030	X-26 F000
Import / Export Modes		
Selective Mode - Intended for Development and Integration environments		
Selective Mode – Advanced Filtering Capabilities		
Synchronized Mode - Intended for Test and Production environments.		
Admin Object Types		
Access Control Rules		
Profiles		
Preferences		
Object Initialization Rules		
Conflicts and Reports		
Conflict Handling and Resolution		
Preview Change Report		
Import package to multiple targets		
Detail Import Report		
Override default Conflict Resolutions on Import		
Interface		
Command Line Scripts		

10.2 Improvements



Powered by Dynatrace Production Edition Release 6.1

Supported Products	Release
PTC Windchill PDMLink	10.0+
PTC Windchill ProjectLink	10.0+
PTC Windchill FlexPLM	10.1 M040+
PTC Integrity	9.6 +
Service Center	10.1+
New in PSM 4.0	
PTC Windchill Partslink/MPMLink/ATO	10.0+
Service Knowledge Management	5.4+
Windchill Quality Solutions	10.2 M040+
InService	6.0+

RTM: February 10th 2015

New Business Transactions



ProjectLink Transactions

- Convert to PDM Checkout
- Convert to Share
- Edit Multiple Assignments
- Edit Selected Objects
- Export / Import Plan
- Insert Activity
- New / Multiple Activities
- Send to PDM
- Update Project
- Update Selected Shares
- View in Gantt Explorer



PartsLink Operations

- Classification Search
- Classify Part
- Create Classification Node
- Edit Classification



MPMLink Operations

- Part Allocation
- Rename Operation
- Search in Tree Picker
- Work Instruction



Options and Variants Operations

- Assign Expression
- Configure Option Filter
- Create Rule
- Delete Operation
- Edit Option Filter
- Option Pool Structure
- Option Set Structure
- Preview Variant Structure
- View Conditional Rules
- View Enable Rules
- View Exclude Rules
- View Include Rules

BT SLA

PTC® Windchill®

Green - Avg Response time < 3 seconds
 Yellow - Avg Response time 3 - 5 seconds
 Red - Avg Response time > 5 seconds

ProjectLink Operations

Convert to PDM Checkout	Convert to Share	Edit Multiple Assignments	Edit Selected Objects	Export Plan	Import Plan	Insert Activity Below	Insert Child Activity	New Activity	New Multiple Activities	Send to PDM	Update Project	Update Selected Shares	View in Gantt Explorer

Business Transaction

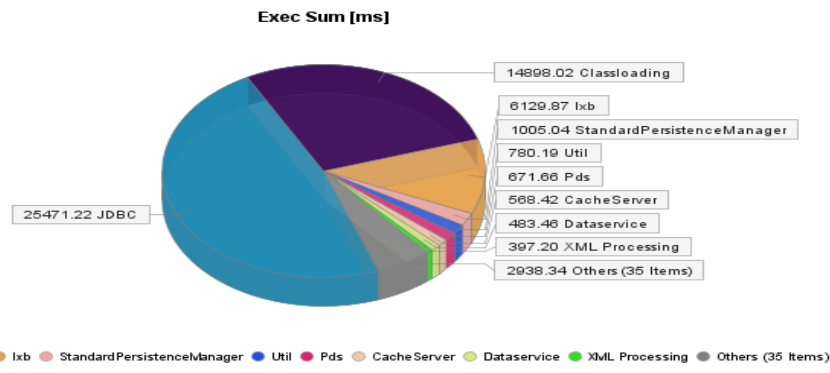
Name
ProjectLink - View in Gantt Explorer (split by Return Value of *.getRemoteUser)
ProjectLink - Update Selected Shares (split by Return Value of *.getRemoteUser)
ProjectLink - Update Project (split by Return Value of *.getRemoteUser)
ProjectLink - Send to PDM (split by Return Value of *.getRemoteUser)
ProjectLink - New Multiple Activities (split by Return Value of *.getRemoteUser)
ProjectLink - New Activity (split by Return Value of *.getRemoteUser)
ProjectLink - Insert Child Activity (split by Return Value of *.getRemoteUser)
ProjectLink - Insert Activity Below (split by Return Value of *.getRemoteUser)
ProjectLink - Import Plan (split by Return Value of *.getRemoteUser)
ProjectLink - Export Plan (split by Return Value of *.getRemoteUser)
ProjectLink - Edit Selected Objects (split by Return Value of *.getRemoteUser)
ProjectLink - Edit Multiple Assignments (split by Return Value of *.getRemoteUser)
ProjectLink - Convert to Share (split by Return Value of *.getRemoteUser)
ProjectLink - Convert to PDM Checkout (split by Return Value of *.getRemoteUser)

UserIDs

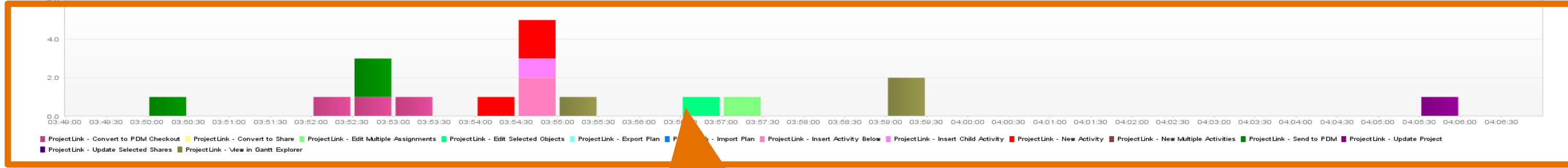
last 1 hour

Count	Incident rate...	Violatio...	Failed %	PurePath Response Tim...
3	0.00	0.00	0 %	581.78 ms
0	-	-	0 %	-
1	0.00	0.00	0 %	226.20 ms
3	0.00	33.33	0 %	-
0	-	-	0 %	-
3	0.00	0.00	0 %	-
1	0.00	0.00	0 %	656.50 ms
2	0.00	0.00	0 %	20.49 ms
1	0.00	100.00	0 %	-
0	-	-	0 %	-
1	0.00	0.00	0 %	656.50 ms
1	0.00	0.00	0 %	20.49 ms
0	-	-	0 %	-
3	0.00	33.33	0 %	3553.21 ms

Count, Response Time, etc...



Business Transaction Average Response Time



Average Response Time (1 hour resolution)

- **High availability**

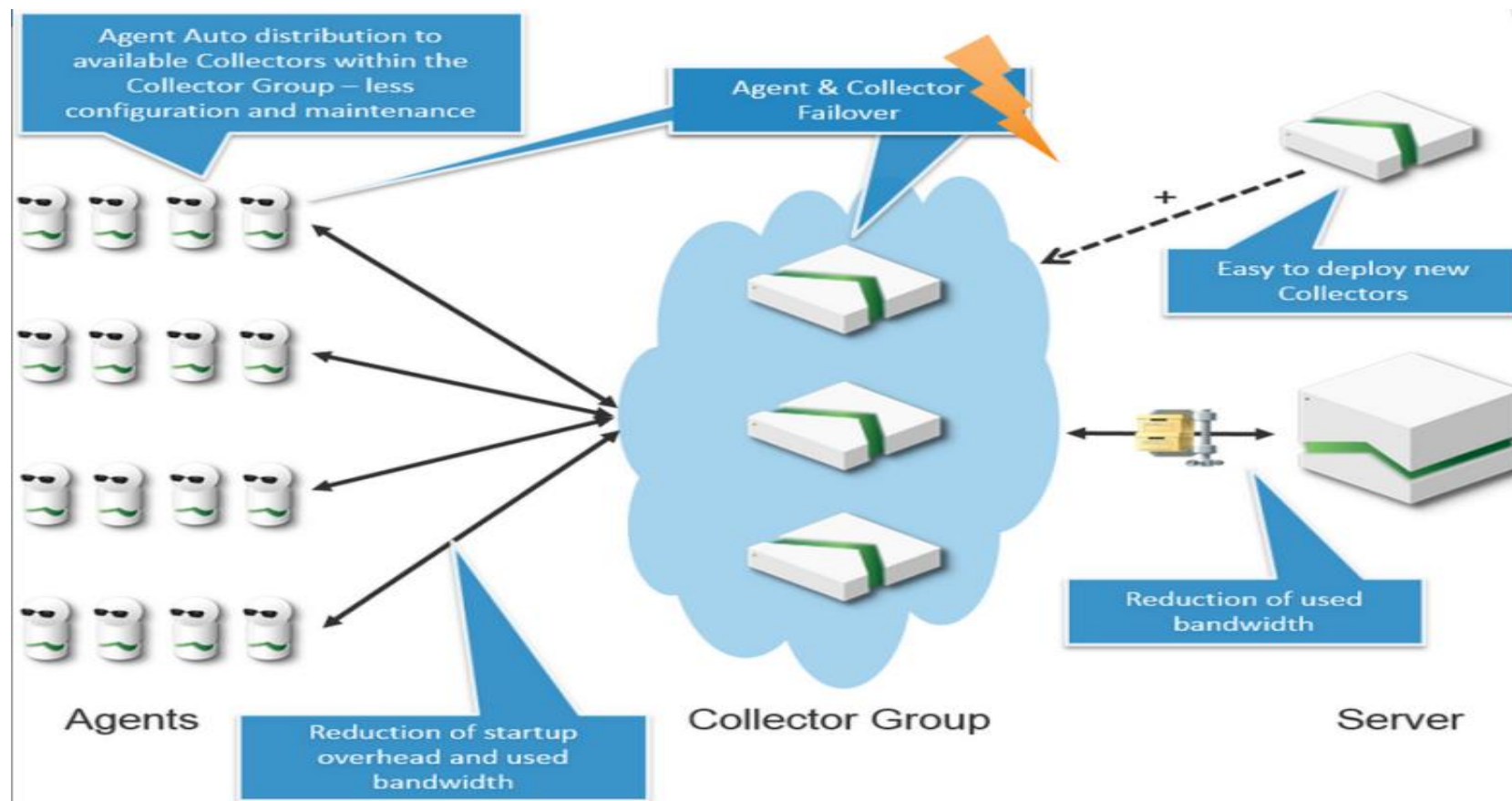
- Automatic failover of Agents and Collectors

- **Server Architecture Changes**

- Front End Server processes client requests
- Improves client responsiveness

- **Performance Improvements**

- Handling **30% more transactions** => up to 5,000 transactions/sec
- Serving **30% more agents** => up to 1,600 agents on 1 Dynatrace server



Monday 4:00 – 6:00 PM

 **[HOW102 Using PTC System Monitor to Effectively Monitor and Troubleshoot your PTC Windchill Environment](#)**

Monday, June 8 4:00 PM - 6:00 PM

Presenter(s): [Walid Saad](#) PTC

PTC Product Family/Content Theme: PTC Windchill

Tuesday 4:00 – 6:00 PM

 **[HOW202 Using PTC System Monitor to Effectively Monitor and Troubleshoot your PTC Windchill Environment](#)**

Tuesday, June 9 4:00 PM - 6:00 PM

Presenter(s): [Walid Saad](#) PTC

PTC Product Family/Content Theme: PTC Windchill

Wednesday 11:30 – 12:15 PM

 **[PTC318 Monitoring PTC Windchill through PTC System Monitor and User Experience Management](#)**

Wednesday, June 10 11:30 AM - 12:15 PM

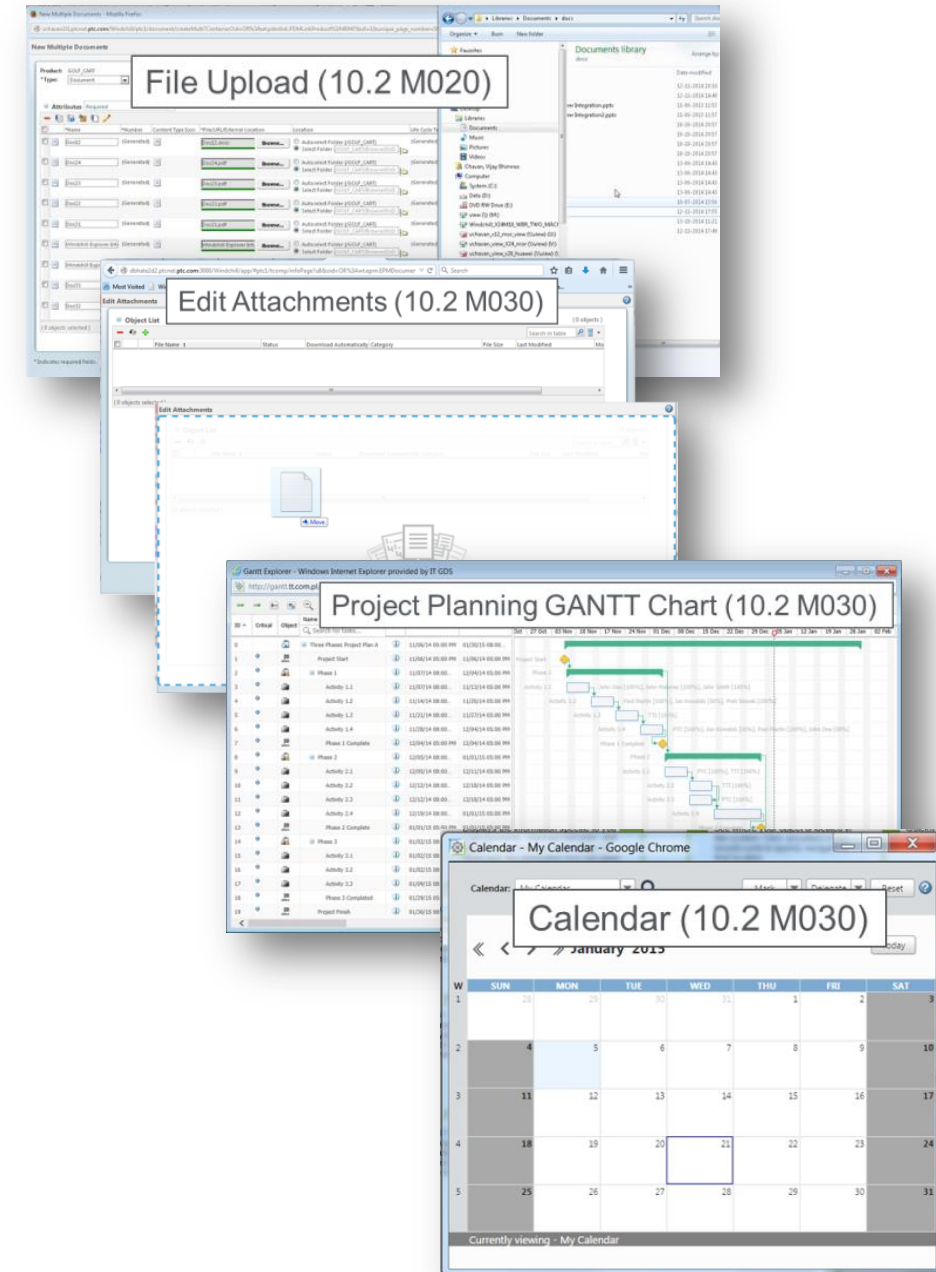
Presenter(s): [Walid Saad](#) PTC

PTC Product Family/Content Theme: PTC Windchill

Applet Replacement Update

Applet List

Applet	% Use of Applet	Release
File Upload	<div style="width: 100%; height: 10px; background-color: green;"></div>	10.2 M020
Calendar	<div style="width: 30%; height: 10px; background-color: green;"></div>	10.2 M030
Import and Export Utility	<div style="width: 20%; height: 10px; background-color: green;"></div>	
Project Planning GANTT Chart	<div style="width: 40%; height: 10px; background-color: green;"></div>	
Software Download (<i>sign</i>)	<div style="width: 20%; height: 10px; background-color: green;"></div>	
Live Charting (<i>sign</i>)	<div style="width: 20%; height: 10px; background-color: green;"></div>	
Common Participant Picker	<div style="width: 50%; height: 10px; background-color: green;"></div>	X-26 F000
Query Builder	<div style="width: 30%; height: 10px; background-color: green;"></div>	
Software Download	<div style="width: 20%; height: 10px; background-color: green;"></div>	
Policy, Notification, Indexing Administration	<div style="width: 40%; height: 10px; background-color: green;"></div>	
Attribute / Quality / Measure	<div style="width: 20%; height: 10px; background-color: green;"></div>	
Publish MPMLink to ERP	<div style="width: 20%; height: 10px; background-color: green;"></div>	

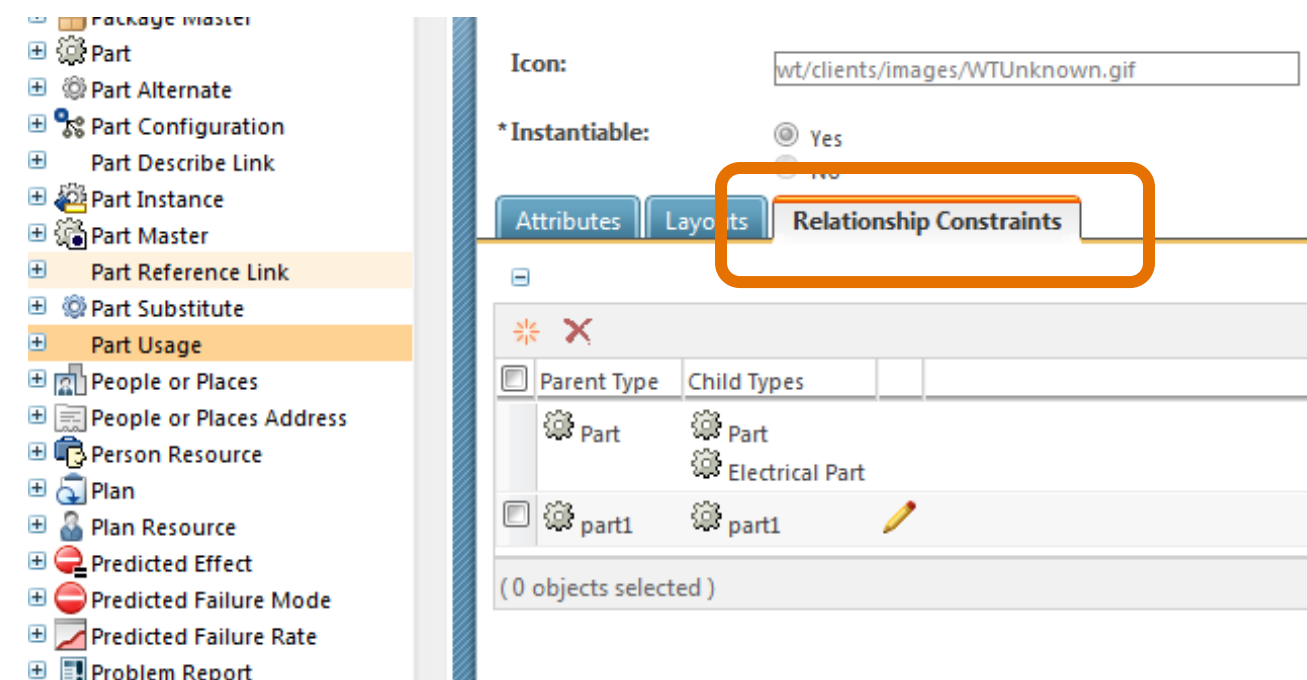
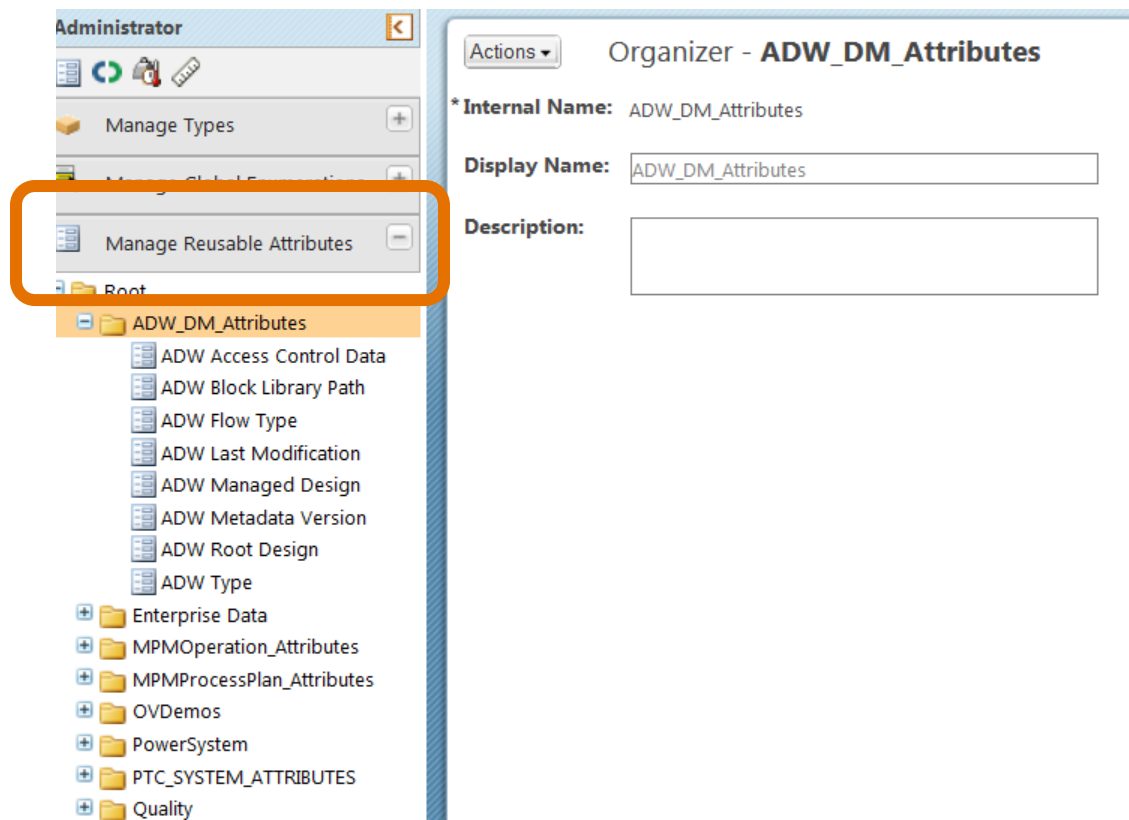


Type Management

X-26 F000

- **Global Attribute Manager**
 - Available in the accordion panel of the Type Manager

- **Constraint Manager**
 - For Relationship Constraint definition is now integrated with the definition of a Type



Overview

- Built as a common component to replace all participant pickers in Windchill
 - Single Select
 - Multi-Select
 - All Participant Types
 - Rich Filtering Capabilities
- Used in applet replacement components
 - Post X-26 this component will replace Participant Pickers in HTML UI (ex. Team Page, Workflow Tasks, etc...)

Find Participants

Search Criteria

Types: User Group Name:

Search Clear

Results: 136

Table Views: (dropdown menu showing User, Group)

Search in table:

Filter Results

<input type="radio"/>		J...	Test_Organization_42
<input type="radio"/>		demo3	
<input type="radio"/>		Wilson Ross	Demo Organization
<input type="radio"/>		Daisy Thomas	Demo Organization
<input type="radio"/>		Megan Daniel	Demo Organization
<input type="radio"/>		Stacey Boyd	Demo Organization
<input type="radio"/>		Chelsea Nelson	Demo Organization
<input type="radio"/>		Kristy Conner	Demo Organization
<input type="radio"/>		Delia Paul	Demo Organization
<input type="radio"/>		Erma Perez	Demo Organization
<input type="radio"/>		Site, Administrator	

0 objects selected

OK Cancel

Overview

- Easily Customizable
 - Add Ldap attributes to search results table

Search results: 49 Search in table

<input type="checkbox"/>		Full Name	User Name	Status	Phone ^	Address
<input type="checkbox"/>		full name 4	user name 4		098-765-4321	CR 43, Small Town, USA, 77777
<input type="checkbox"/>		Samantha Wallace	Samantha.Wallace		111-111-1111	Some Street, Some City, Some State 56789
<input type="checkbox"/>		Amos Maldonado	Amos.Maldonado		555-555-5555	Some Street, Some City, Some State 56789
<input type="checkbox"/>		Megan Daniel	Megan.Daniel		555-555-5555	A street, A town, A state 12345
<input type="checkbox"/>		Arlene McLaughlin	Arlene.McLaughlin		612-555-5555	Some Street, Some City, ST 56789
<input type="checkbox"/>		April Simmons	April.Simmons		763-555-6666	Some Street, Some City, ST 56789
<input type="checkbox"/>		Sheldon James	Sheldon.James		913-555-3333	Some Street, Some City, ST 99999
<input type="checkbox"/>		Marshall Hernandez	Marshall.Hernandez		x1234	Some Street, Some City, Some State 56789
<input type="checkbox"/>		Carmen Keller	Carmen.Keller		x2222	Some Street, Some City, ST 56789
<input type="checkbox"/>		Marguerite Williams	Marguerite.Williams		x4444	Some Street, Some City, Some State 56789
<input type="checkbox"/>		Christopher Gomez	Christopher.Gomez		x5555	Some Street, Some City, ST 56789

0 objects selected

Address
 Custom2
 Distinguished Name
 E-mail
 Full Name
 Last Name
 Organization
 Phone
 Service
 Status
 General Status
 Object Type Indicator
 User Name

Overview

- Auto-Suggest Capabilities

user1 ✕ ▾

m

full name	user name	PTC
Site, Administrator	Administrator	
Maryann Duncan	Maryann.Duncan	Demo Organization
Daisy Thomas	Daisy.Thomas	Demo Organization
PreferenceTester	WorkflowadminDemo	
Amos Maldonado	Amos.Maldonado	Demo Organization
Cynthia Mckinney	Cynthia.Mckinney	Demo Organization
Derrick Sherman	Derrick.Sherman	Demo Organization
full name 4	user name 4	PTC

⚠ Search results limit reached. Enter more text to narrow your results
[More Search Options](#)

Find Participants

Find Participants

Search Criteria

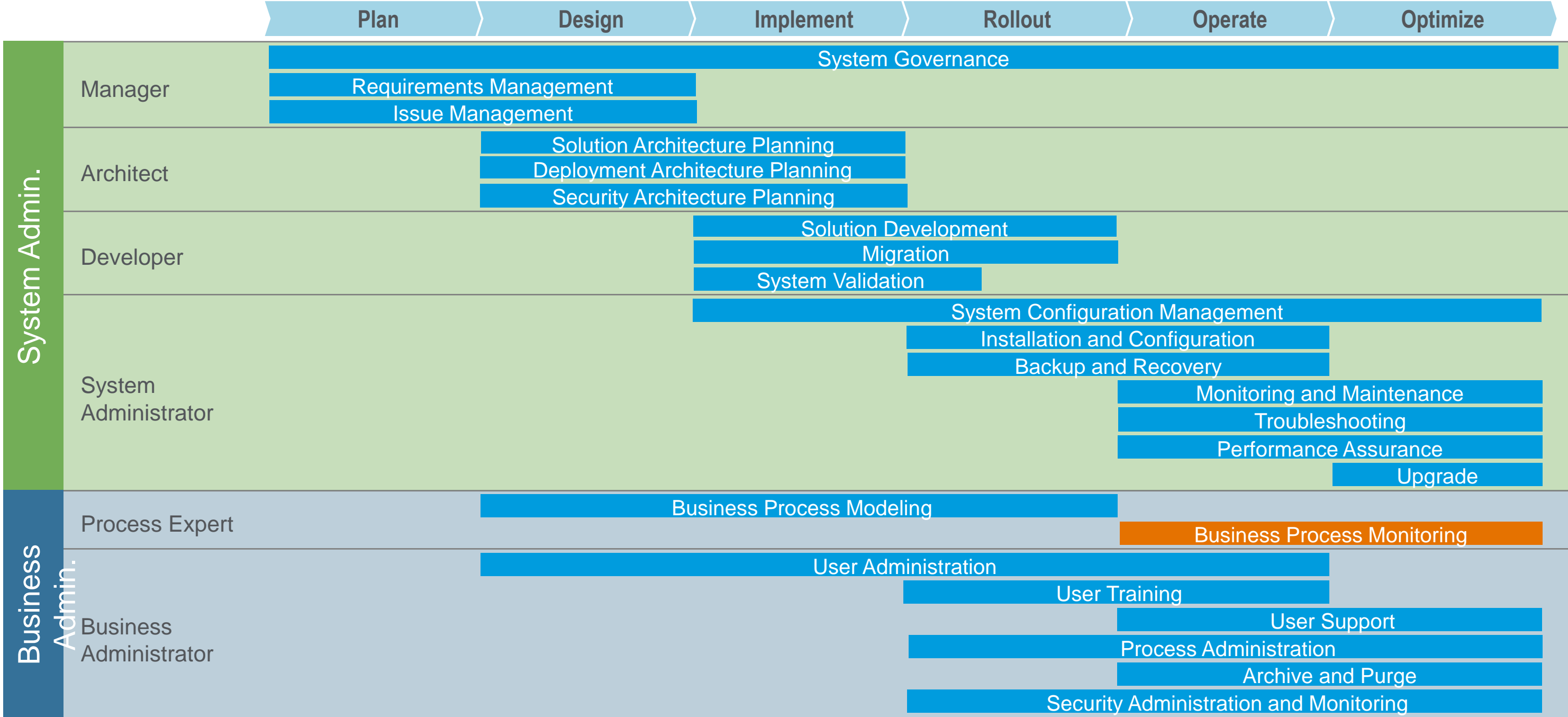
Types: Full Name: User Name:

Email: Organization Name:

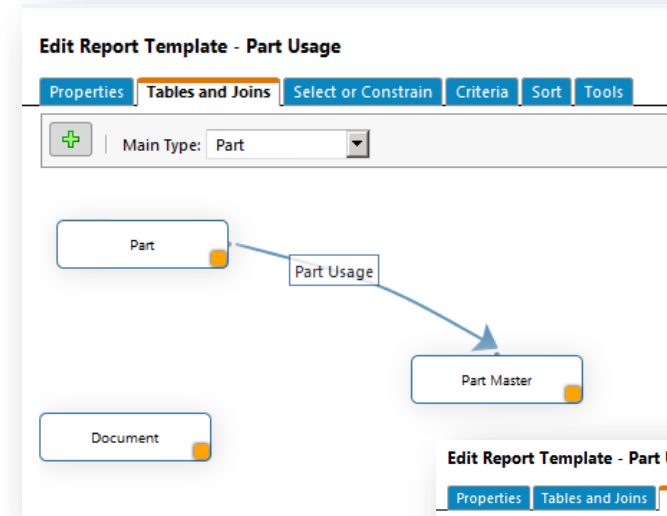
Search Clear

OK Apply Cancel

X-26 Improvement



- Redesign of Query Builder UI
 - Rich Internet Application
 - Enhanced Usability and Intuitiveness
- Redefinition of Report Template (implementation of new QML)
 - Includes better Report Builder performance, flexibility and extensibility
- Maintenance Dashboard
 - Validates QML reports by identifying any deprecated types and or fields
 - Upgrade Reports to new QML



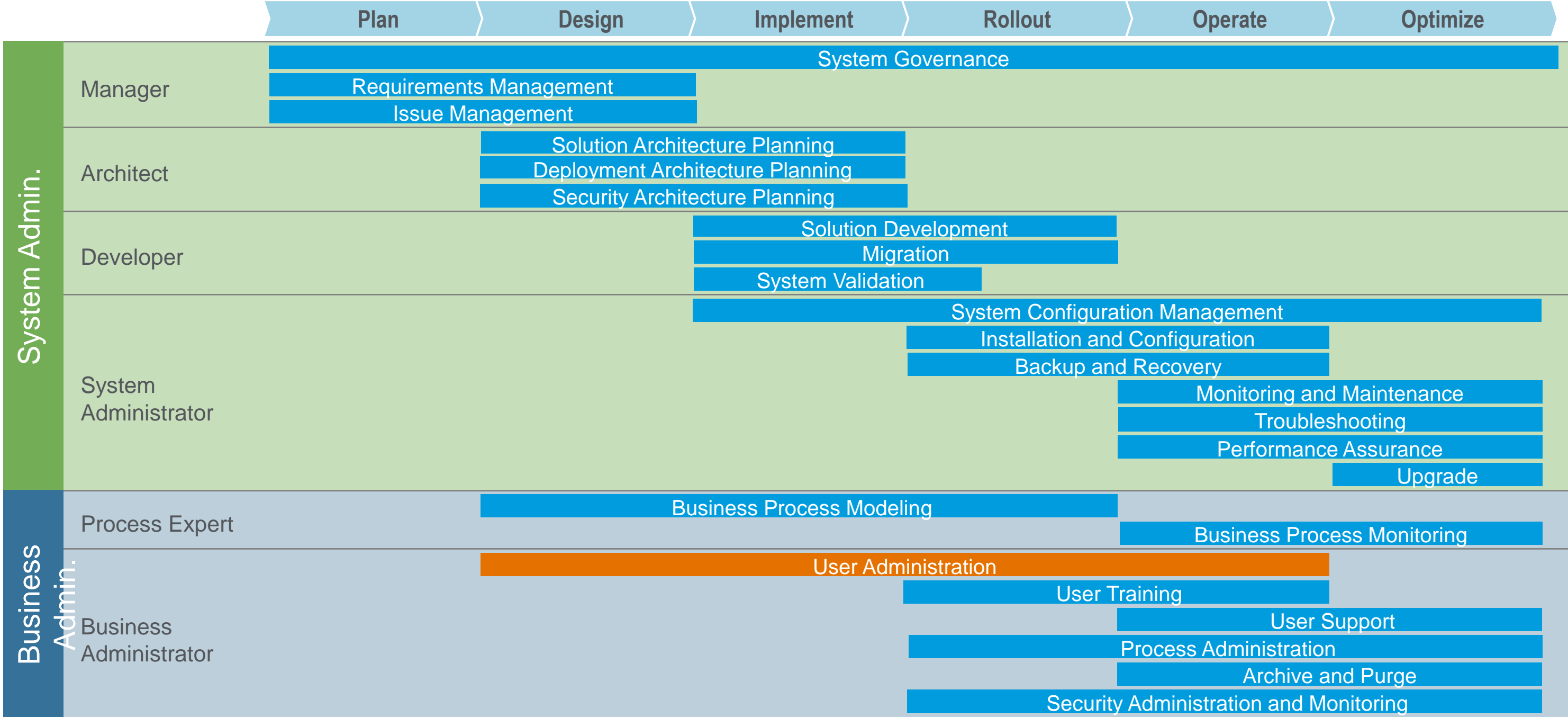
This screenshot shows the 'Edit Report Template - Part Usage' window with a table view. The table has columns for 'Heading', 'Attribute', and 'Property'. It lists various report fields and their corresponding database attributes.

Heading	Attribute	Property
Section Header General Info		
Name	Column	Part.Name
Number	Column	Part.Number
Part Master Name	Column	Part Master.Name
Section Header Part		
Created	Column	Part.Created
Identity	Object	Part Master.Identity (identity)
Update Count	Column	Part.Persist Info.Update Count
Update Stamp	Column	Part.Persist Info.Update Stamp

This screenshot shows the 'Query Builder Maintenance Dashboard'. It includes a search bar and several checkboxes for 'Upgrade', 'Upgrade in Legacy Mode', and 'Upgrade in Single Date Mode'. Below is a table listing report templates and their upgrade status.

Report Template Name	Upgraded	Eligible for Upgrade	Date Upgraded	Date Last Modified	Date Last Run
Alias Test	Yes	No		2015-04-30 11:04:30 CDT	
All Average Change Notice Complet...	Yes	Yes	2015-05-18 14:18:39 CDT	2015-04-23 14:28:42 CDT	
All Average Change Request Compl...	No	Yes		2015-04-23 14:28:42 CDT	
All Average Problem Report Comple...	No	Yes		2015-04-23 14:28:42 CDT	
All Change Notice Influx And Resol...	No	Yes		2015-04-23 14:28:42 CDT	
All Change Request Influx And Res...	No	Yes		2015-04-23 14:28:42 CDT	
All Criteria	Yes	Yes	2015-05-06 10:33:50 CDT	2015-05-06 10:33:31 CDT	
All Criteria DO NOT UPGRADE	No	Yes		2015-05-06 10:33:18 CDT	
All Criteria Test 1	Yes	Yes	2015-04-28 14:48:21 CDT	2015-04-28 14:47:56 CDT	
All Criteria W Attribute Ref	Yes	Yes	2015-05-06 16:31:45 CDT	2015-05-06 16:30:31 CDT	
All Criteria W Attribute Ref DO NOT...	No	Yes		2015-05-06 16:30:16 CDT	
All Open Change Notices	No	Yes		2015-04-23 14:28:42 CDT	
All Open Change Requests	Yes	Yes	2015-05-18 14:16:19 CDT	2015-04-23 14:28:42 CDT	
All Open Problem Reports	Yes	Yes	2015-05-18 14:18:00 CDT	2015-04-23 14:28:42 CDT	
All Problem Report Influx And Reso...	No	Yes		2015-04-23 14:28:42 CDT	

X-26 Improvement



Overview

- Provide customers ability to monitor license usage
 - Key data source for Smart Connected Products initiative
- Supports PDMLink and Or ProjectLink only installs
 - Provide product level license usage
- Supports for additional Modules in future Windchill Releases
- Support for License types:
 - PDMLink / ProjectLink
 - Named View/Print
- Use of License Groups for specialized licenses

PTC Windchill license monitoring provides license usage and compliance information

- Effective licensing management
- Provides single view on PTC Windchill license usage
 - No license shortage
 - Optimized packages and license model
 - Avoid having unnecessary licenses
- Always be compliant with software license agreements



Wednesday 10:30 – 11:15 PM

 **[PTC307 Connecting PLM to PTC: Improving Support and Maintenance](#)**

Wednesday, June 10 10:30 AM - 11:15 AM

Presenter(s): [Graham Birch](#) PTC, [Walid Saad](#) PTC

PTC Product Family/Content Theme: PTC Windchill

Windchill Platform Support Summary

	Added Support
Server OS	Red Hat Enterprise Linux 7, 64-bit
Web Servers/ Servlet Engines	Apache HTTP Server 2.4 Embedded servlet engine Tomcat 8 Discontinued Support for iPlanet
Java	PTC Windchill built on Java 8 JDK 8 Java 8 plug-in (32-bit, 64-bit) JRE 8
Database	Oracle 12c Database (12.1.0.2) Enterprise Edition Standard Edition on Windows Microsoft SQL Server 2014 (10.2 M030+)
Client OS	Windows 10
Browser	Internet Explorer 11 (Windows 7 & 8.1) (10.2 M020+) Firefox ESR 38 Note: Support for the new “Edge” (Spartan) browser will occur in a later Windchill release

PTC Creo Data Management Compatibility Roadmap

with PTC Windchill (Pro/INTRALINK², PDMLink, and ProjectLink)

	PTC Windchill 8.0 Click here for details	PTC Windchill 9.0 Click here for details	PTC Windchill 9.1 Click here for details	PTC Windchill 10.0 Click here for details	PTC Windchill 10.1 Click here for details	PTC Windchill 10.2 Click here for details	PTC Windchill X-26
Pro/E Wildfire 3.0	Compatible	Compatible	Compatible	Not Compatible	Not Compatible	Not Compatible	Not Compatible
Pro/E Wildfire 4.0	Compatible	Compatible	Compatible	Compatible <i>with Wildfire 4.0 M190</i>	Not Compatible	Not Compatible	Not Compatible
Creo Elements/Pro 5.0 (Pro/E Wildfire 5.0)	Not Compatible	Not Compatible	Compatible <i>with Wildfire 5.0 F000</i>	Compatible <i>Creo Elements/Pro 5.0 M080 & 10.0 F000 Creo Elements/Pro 5.0 M090+ & 10.0 M010</i>	Compatible <i>with Creo Elements/Pro 5.0 M130</i>	Compatible <i>with Creo Elements/Pro 5.0 M200 & 10.2 F000</i>	Not Compatible
PTC Creo 1.0 ¹	Not Compatible	Not Compatible	Compatible <i>with 9.1 M060</i>	Compatible <i>with 10.0 M010</i>	Not Compatible	Not Compatible	Not Compatible
PTC Creo 2.0 ¹	Not Compatible	Not Compatible	Compatible <i>PTC Creo 2.0 F000 & 9.1 M070 and PTC Creo 2.0 M050 & 9.1 M060</i>	Compatible <i>PTC Creo 2.0 F000 & 10.0 M030</i>	Compatible <i>with PTC Creo 2.0 F000</i>	Compatible <i>with PTC Creo 2.0 M070 & 10.2 F000</i>	Compatibility Planned <i>with PTC Creo 2.0 MR & X-26 F000</i>
PTC Creo 3.0 ¹	Not Compatible	Not Compatible	Not Compatible	Not Compatible	Compatibility <i>with PTC Creo 3.0 F000 & 10.1 M040</i>	Compatible <i>with PTC Creo 3.0 F000 & 10.2 M020</i>	Compatibility Planned <i>with PTC Creo 3.0 MR & X-26 F000</i>

¹ For information related to specific PTC Creo App support refer to page 2 in this document.

² Pro/INTRALINK does not support the following PTC Creo Applications: PTC Creo Sketch, Illustrate or Options Modeler.

This information may be out of date. Please check [here](#) for the latest version.

- 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

PTC[®] Live Global