

Polarion ALM'e Giriř: Uçtan Uca Uygulama Yařam Döngüsü ve Temel Yetkinlikler

Yağız Türkel



Agenda

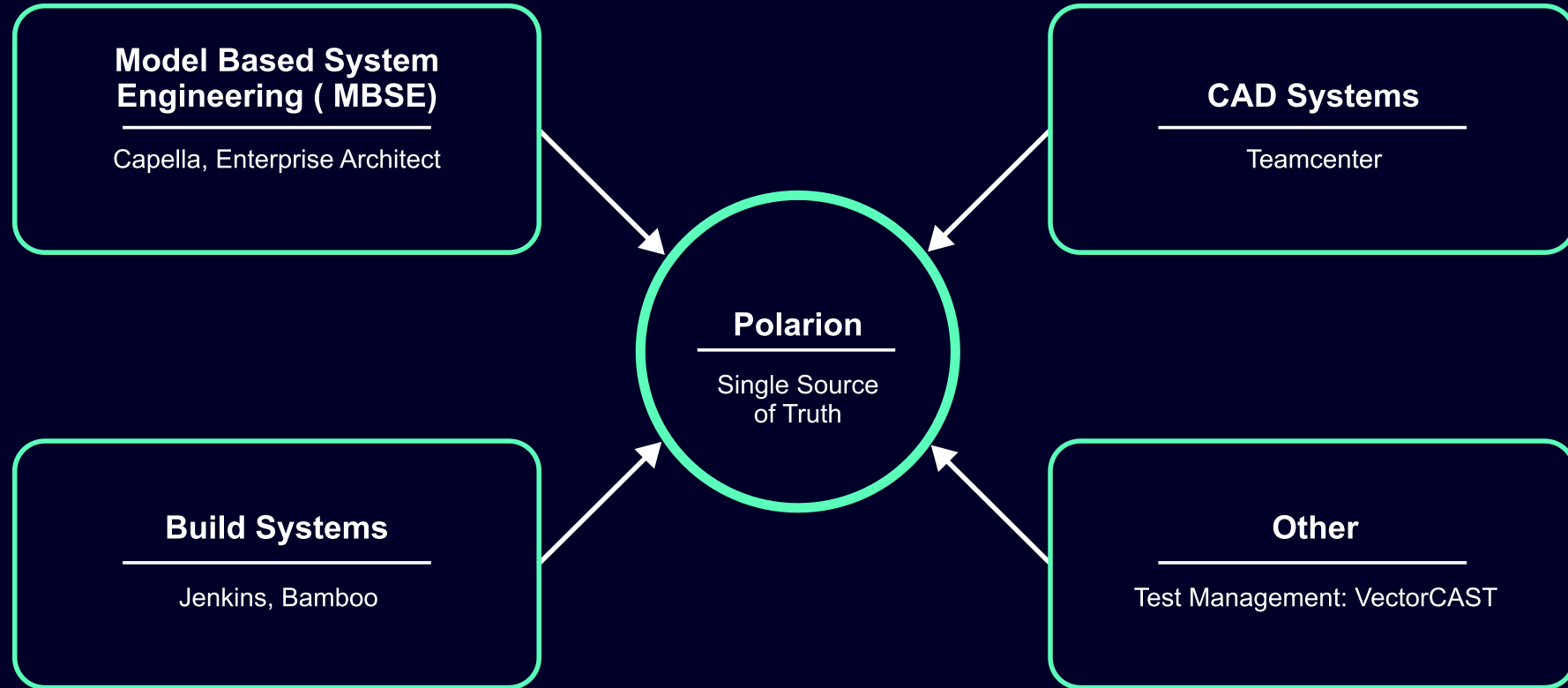
Polarion nedir?

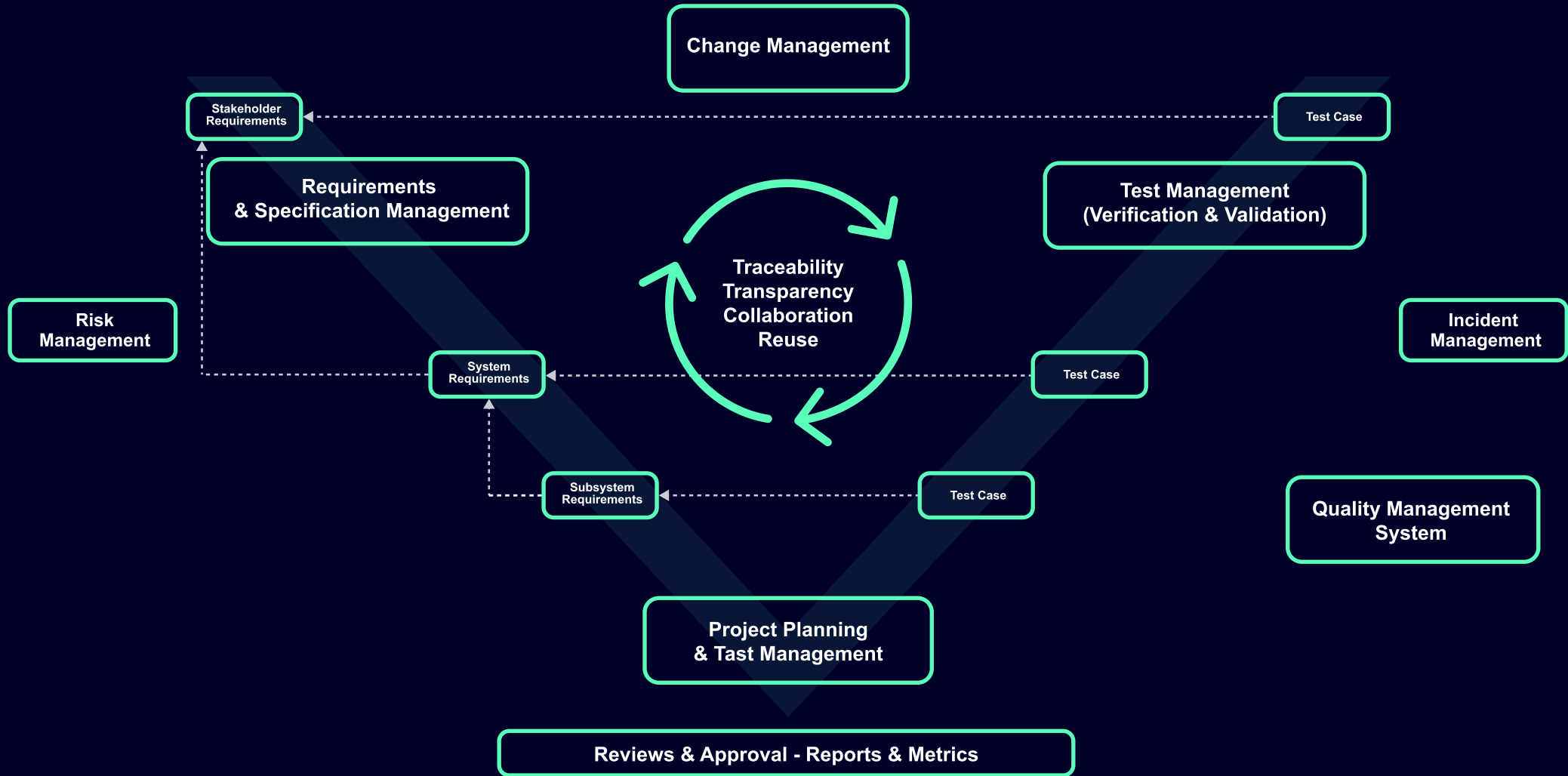
Neden Polarion'a ihtiyaç duyarsınız?

Polarion'un temel özellikleri nelerdir?

Mühendisler, yöneticiler ve kalite uzmanları gibi ekip üyeleri için sunduğu faydalar nelerdir?

Doğru Bilgi Kaynağı ve Kontrol Merkezi





Etkili ALM Çözümünün Faydaları



Emniyet &
Güvenlik

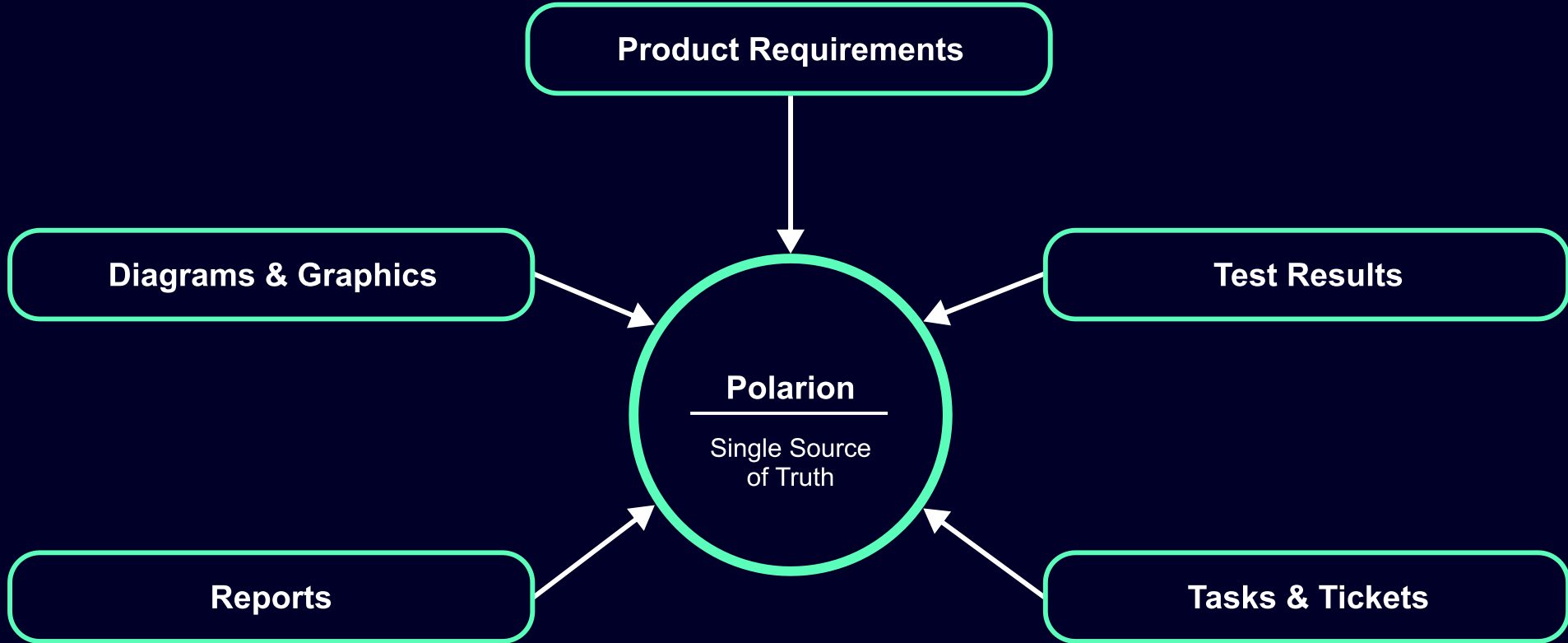


Yüksek Kalite
Ürün

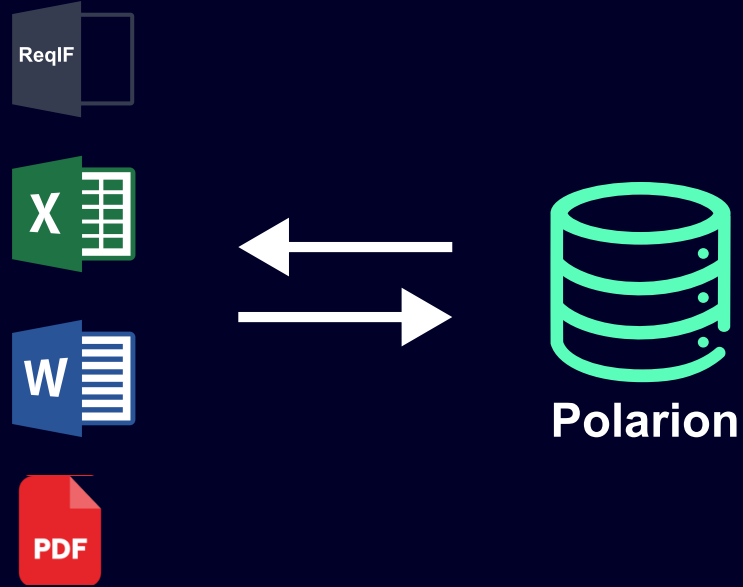


Geri Çağırma
Riskinde Azalma

Doğru Bilgi Kaynağı ve Kontrol Merkezi

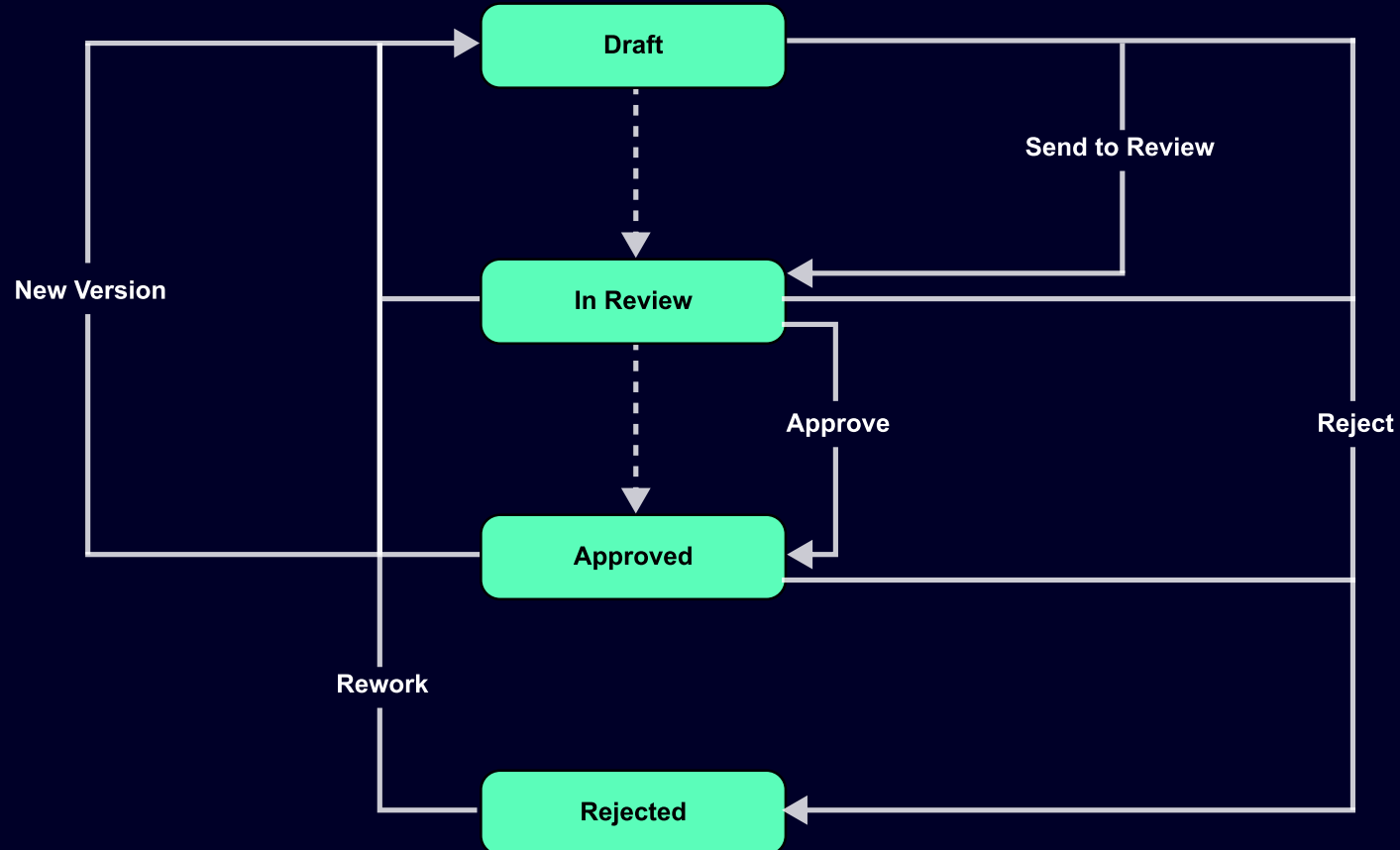


Gereksinim Yönetimi



- **İçe ve dışı aktarma** – Sıkça kullandığınız formatlarla uyumlu (Word, Excel, PDF, ReqIF)
- **Live Doc** – Word'e benzer belgeler, iş akışları ve ek özelliklerle daha kapsamlı ve işlevsel
- **Hiyerarşi, sınıflandırma ve özgün özellikler** – Doküman ve gereksinimlere özgü yapı
- **İş akışı ile otomasyon** – Onaylama, gözden geçirme, imzalama veya veri ekleme

Gereksinim Yönetimi - İş Akışı



Gereksinim Yönetimi - Live Doc



Functional
Requirement
Specification
Document

ID	Title	Priority	Severity	Status
PO-520	DrivePilot shall contain sensors to monitor u	50.0	Shouk	Draft
PO-526	Test: Operation check - DrivePilot shall open	50.0	Basic	Active
PO-524	Version 2.0	50.0	Shouk	In Progress
PO-523	Version 1.0	50.0	Shouk	Published
PO-486	Braking Mechanism	50.0	Shouk	Open
PO-485	Native User Console	50.0	Shouk	Open
PO-484	Interfaces	50.0	Shouk	Open
PO-483	Steering Mechanism	50.0	Shouk	Open
PO-482	Throttle Mechanism	50.0	Shouk	Open
PO-481	Gear Relay Intercept	50.0	Shouk	Open
PO-480	DrivePilot Command Controller for ARM arc	50.0	Shouk	Open
PO-479	Independent application of braking control	50.0	Shouk	Draft
PO-478	Apple iPad Application - basic control panel	50.0	Shouk	Draft

Requirements

PO 336 - Embedded, wired Native Console

Type: System Requirement
Project: drivePilotDemo
Author: System Administrator
Category:
Assigned:
Not Covered by Software Requirements: ☐

Severity: What Have
Status: Approved
Resolution:
Target Version: Version 1.0 (minimum)

Description
Embedded, wired Native Console

Comments
Create Comment Collapse All Expand All View Show resolved comments
Item was signed by Robert Projean by Rex Project on 2017-05-23 14:25

Approvals
Approving User: Rick
New Project Approved

Linked Work Items
Success Role Title
has parent PO 124 The DrivePilot user console will operate on the following platforms
is refined by PO 303 Feature 1 needs shall start with using hardware and inputs on vehicle identification

Hyperlinks
Attachments
Watchers

Work Item

Draft

In Review

Approved

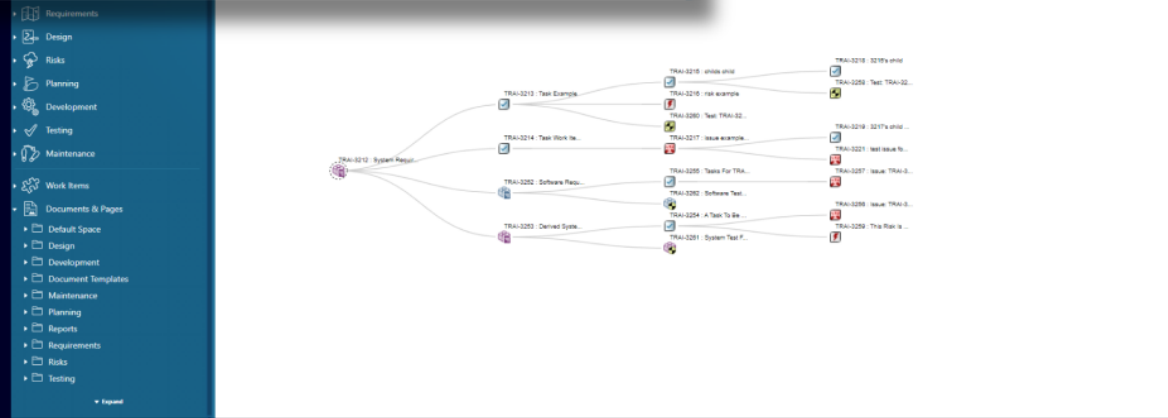
Rejected

Polarion'da İzlenebilirliğin Görsel Gösterimi

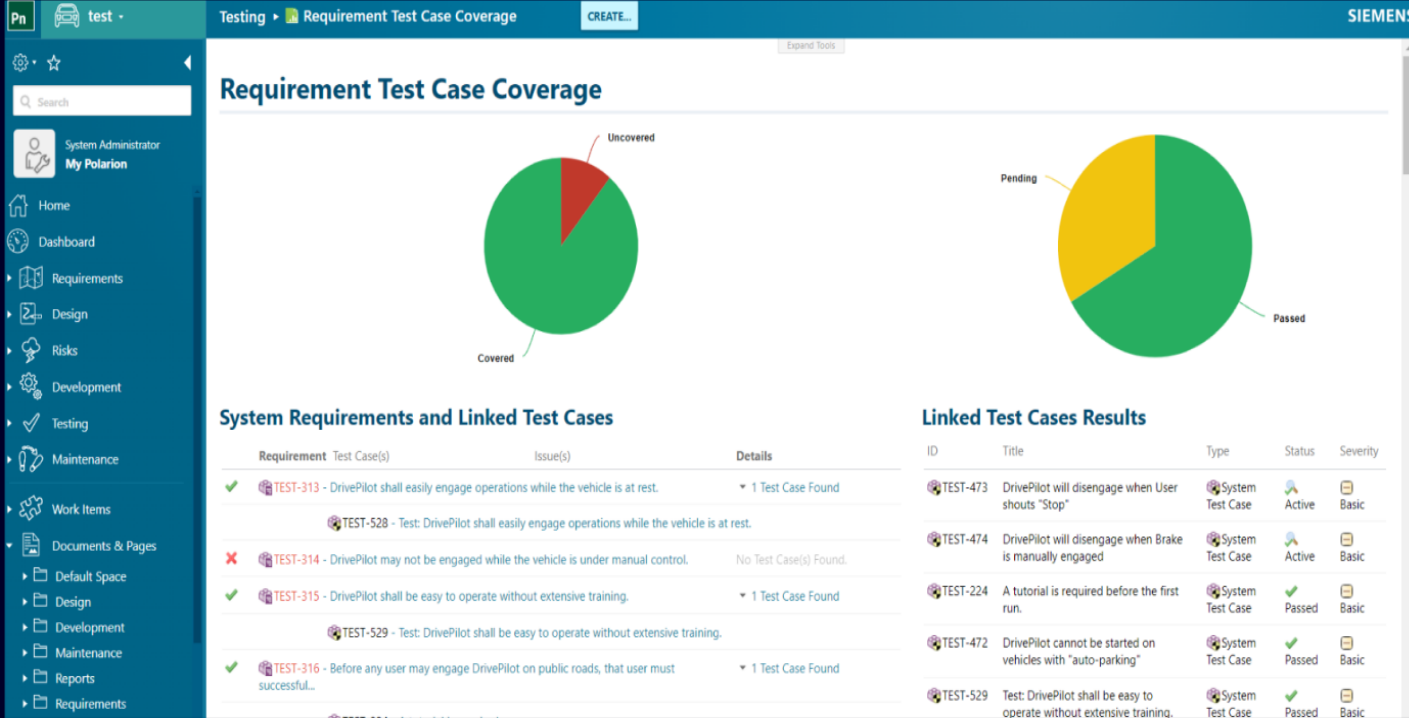
Parent Work Item	Child Work Item
TRAI-314 - DrivePilot may not be engaged while the vehicle is under manual control. provid...	TRAI-1015 - task
	TRAI-1024 - Task 1024
	TRAI-1025 - Task 1025
	TRAI-1026 - Task 1026
	TRAI-1027 - my title
TRAI-316 - Before any user may engage DrivePilot on public roads, that user must successful...	TRAI-224 - A tutorial is required before the first run.
	TRAI-697 - A tutorial is required before the first run.
TRAI-322 - DrivePilot controls accelerator/throttle with software-based control commands an...	TRAI-3250 - Test: DrivePilot controls accelerator/throttle with software-based control commands an...
	TRAI-3251 - Test: DrivePilot controls accelerator/throttle with software-based control commands an...
TRAI-323 - The DrivePilot user console shall have common views in the built-in displays, an...	
TRAI-332 - DrivePilot is NOT compatible with any vehicle that has "auto parking" capability...	TRAI-472 - DrivePilot cannot be started on vehicles with "auto-parking"
	TRAI-648 - DrivePilot cannot be started on vehicles with "auto-parking"
TRAI-336 - Embedded, wired Native Console	

Tablo Görünümü

Grafik Görünümü

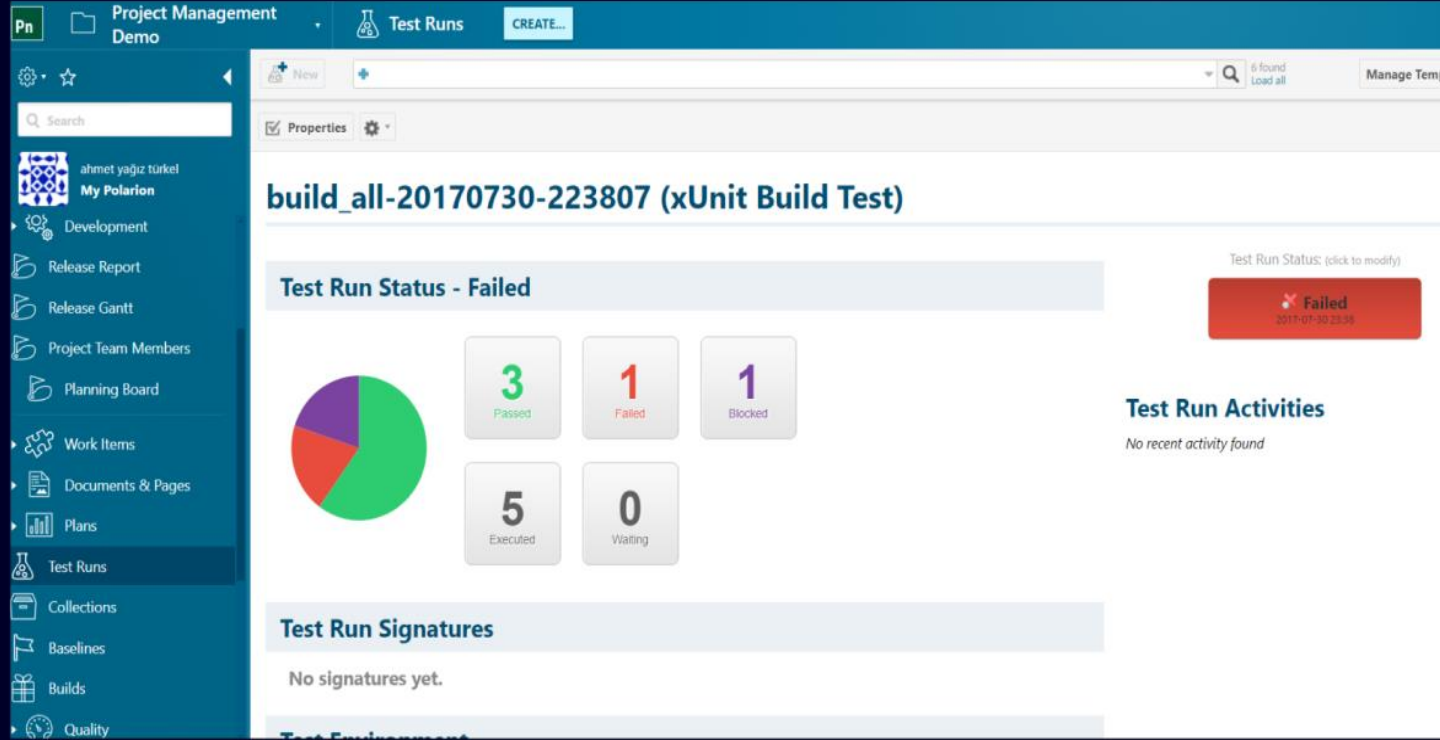


Test Yönetimi



- Gereksinimler ve testler arasındaki bağlantılar
- İş akışları ile testlerin yönetimi
- Checklist kullanımı
- Entegrasyonlar - Test vakalarının içe/dışa aktarımı

Test Yönetimi - Test Runs



Polarion'da Test Senaryolarını Yürütme

Test Yönetimi - Tablo Görünümü

System Requirements, Linked Test Cases and Test Results							
#	System Requirement	Status	Test Case	Status	Last Test Result	Issue	Status
1	DP-433 - DrivePilot cannot require more than 1 annual update to software or firmware.	Approved	DP-529 - Test: DrivePilot cannot require more than 1 annual update to software or firmware.	Draft	Failed	DP-536	Open
2	DP-432 - DrivePilot cannot cost more than US \$25,000 to install into any new or existing...	Reviewed					
3	DP-429 - DrivePilot shall contain sensors to monitor unusual vibrations from: * chassis *...	Approved	DP-530 - Test: DrivePilot shall contain sensors to monitor unusual vibrations from: * chassis *...	Active	Passed		
4	DP-428 - ABS Interface Sensor shall interface with existing ABS system to detect braking...	Approved	DP-531 - Test: ABS Interface Sensor shall interface with existing ABS system to detect braking...	Active	Passed		
5	DP-427 - DrivePilot will include a road condition sensor to detect friction coefficients...	Approved					
6	DP-426 - DrivePilot shall include forward, side, and rear radar sensors for the detection...	Approved	DP-532 - Test: DrivePilot shall include forward, side, and rear radar sensors for the detection...	Active	Failed	DP-535	Open
7	DP-425 - DrivePilot shall include forward, side, and rear infrared imaging sensors to det...	Approved					
8	DP-424 - DrivePilot shall include a sensor for independent application of braking control...	Approved					
9	DP-423 - DrivePilot shall include a sensor for independent application of braking control...	Approved					
10	DP-422 - DrivePilot will include a sensor for independent application of the throttle con...	Approved	DP-533 - Test: DrivePilot will include a sensor for independent application of the throttle con...	Active	Passed		
11	DP-420 - It shall mount directly to the brake pedal in all dash configurations.	Approved	DP-534 - Test: It shall mount directly to the brake pedal in all dash configurations.	Active	Blocked		
12	DP-419 - The SOS will have in-dash mount option.s	Approved					
13	DP-418 - The braking subcontroller will receive information from the BLC and disengage if...	Approved					
14	DP-417 - The Braking Software subcontroller shall interface with the DCC. It will provide...	Approved					

Değişiklik Yönetimi - Otomatik Sürüm Geçmişi

◀ Current revision Select 2 revisions and press Compare Compare ☐ Show only baselines			
☐ Revision	Updated By	Date	Actions
☐ 183 Project Baseline		2 minutes (2025-04-17 15:40)	Show
☐ 182 Version 2.0	System Administrator	2 minutes (2025-04-17 15:40)	Show
☐ 180 Requirement Specification v1.2	System Administrator	3 minutes (2025-04-17 15:39)	Show
☐ 178 Requirement Specification v1.1	System Administrator	3 minutes (2025-04-17 15:39)	Show
☐ 177	System Administrator	3 minutes (2025-04-17 15:39)	Show
☐ 175 Requirement Specification v1.0		3 weeks (2025-03-25 10:03)	Show
☐ 90	System Administrator	2 months (2025-01-29 10:45)	Show
☐ 89	System Administrator	2 months (2025-01-29 10:45)	Show
☐ 88	System Administrator	2 months (2025-01-29 10:44)	Show
☐ 87	System Administrator	2 months (2025-01-29 10:42)	Show
☐ 86	System Administrator	2 months (2025-01-29 10:42)	Show
☐ 85	System Administrator	2 months (2025-01-29 10:41)	Show

Risk Yönetimi

Temel ALM bileşenleri



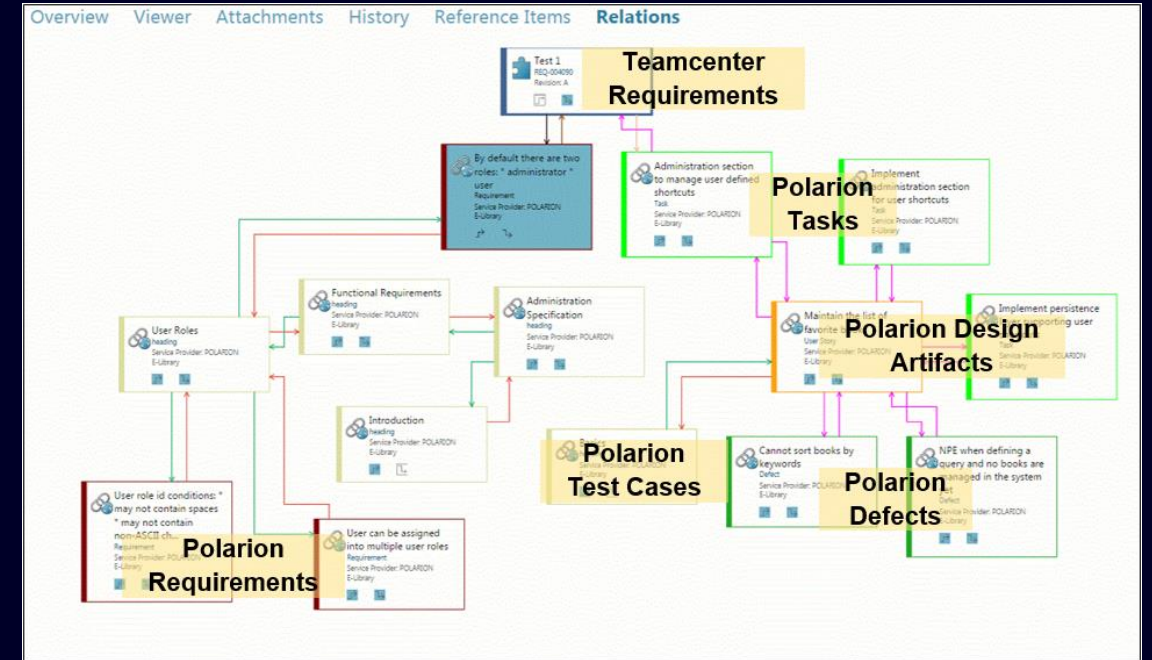
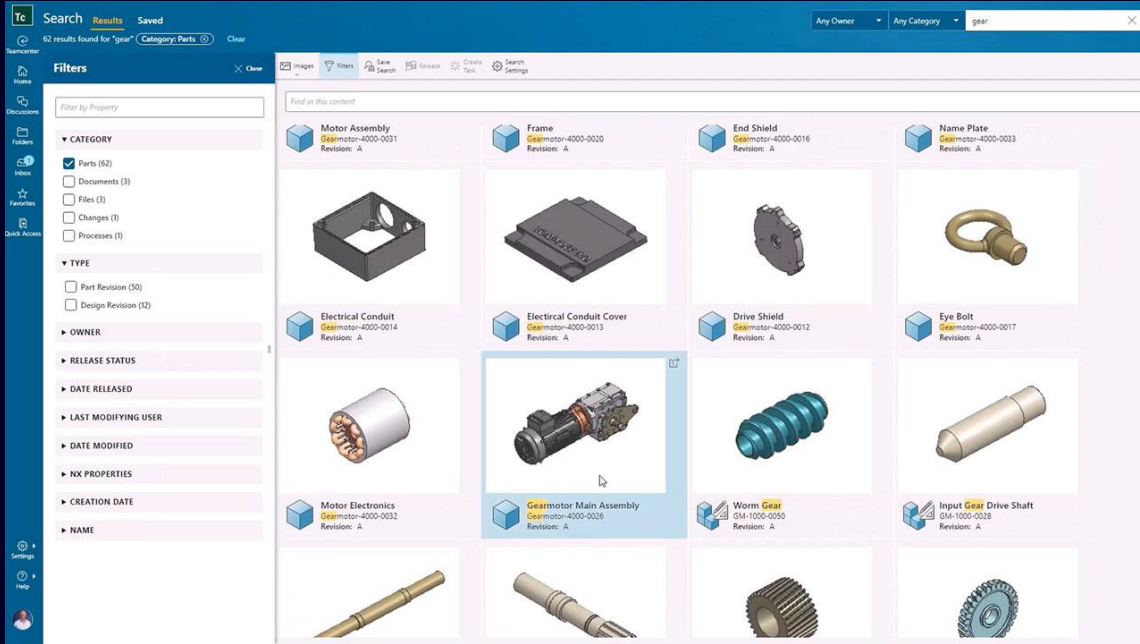
Opsiyonel bileşen

Ölçme ve Denetleme

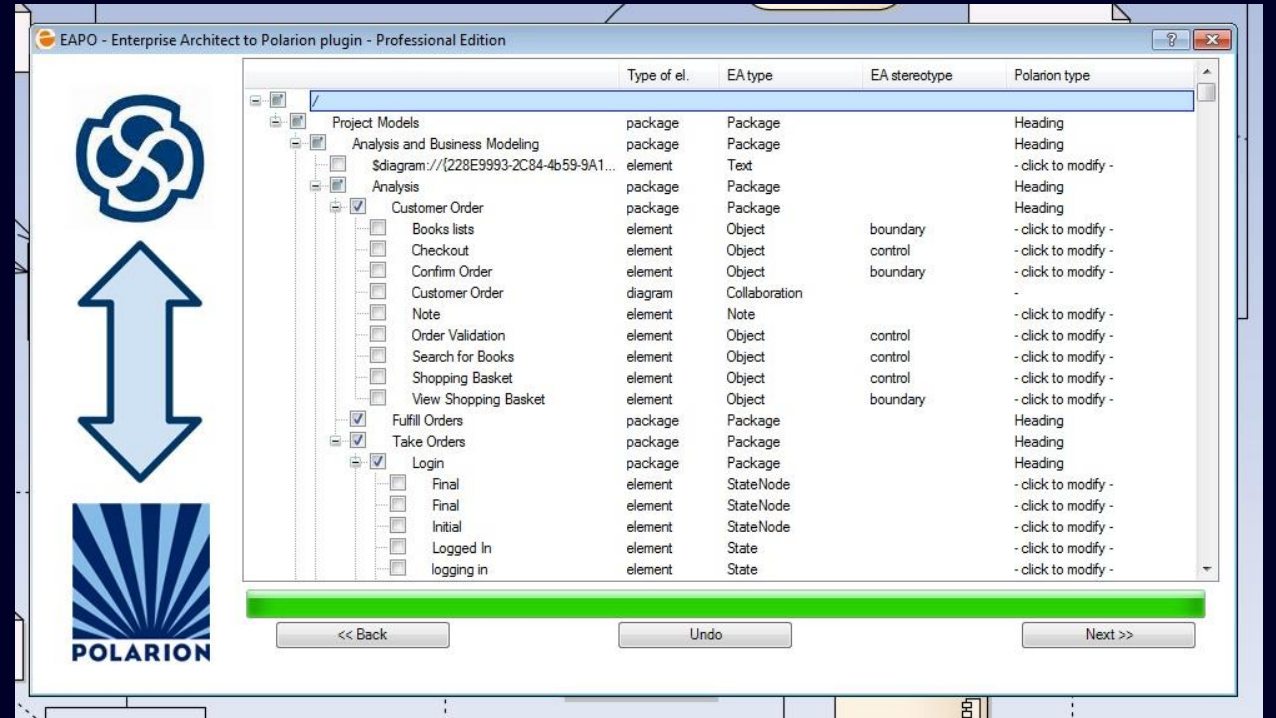
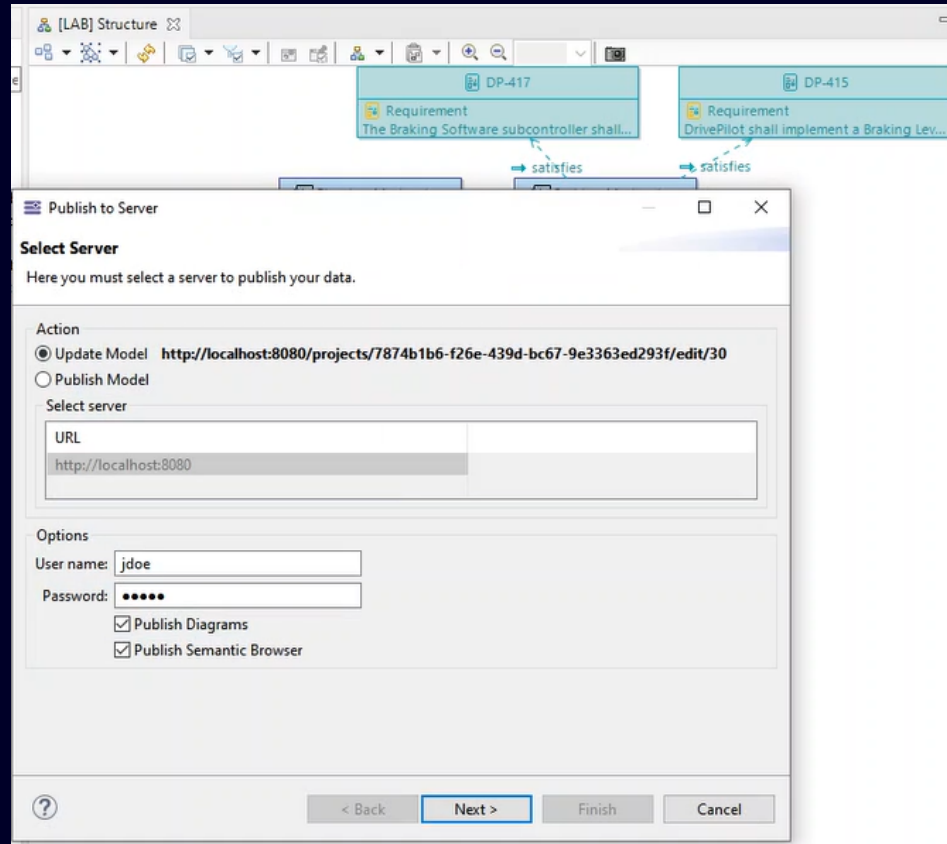


- Ekibinizin aktivitelerini izleyin, iş yükünü yönetin
- Performans ve görev durumlarını takip edin
- Projelerinizi Agile ve Hybrid metodolojileri ile yönetin
- Sprint ve iterasyonlar için görevler oluşturun
- Endüstri standartlarına uyumu sürekli olarak sağlayın

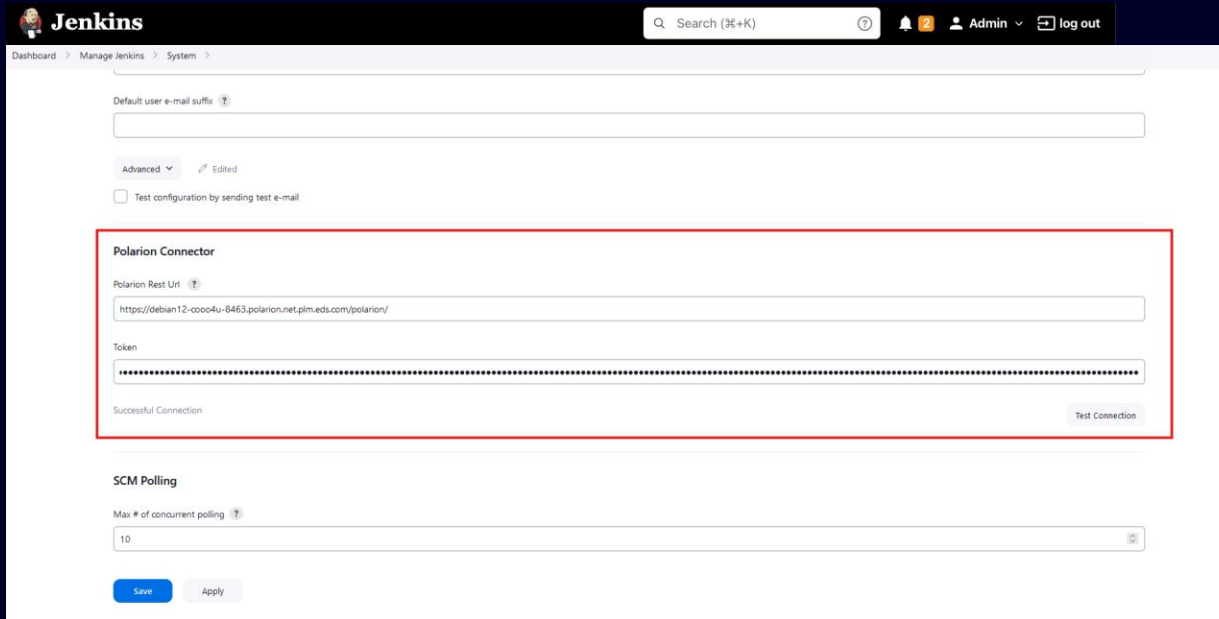
CAD Systems: Teamcenter – Polarion Entegrasyonu



MBSE: Capella, Enterprise Architect – Polarion Entegrasyonu



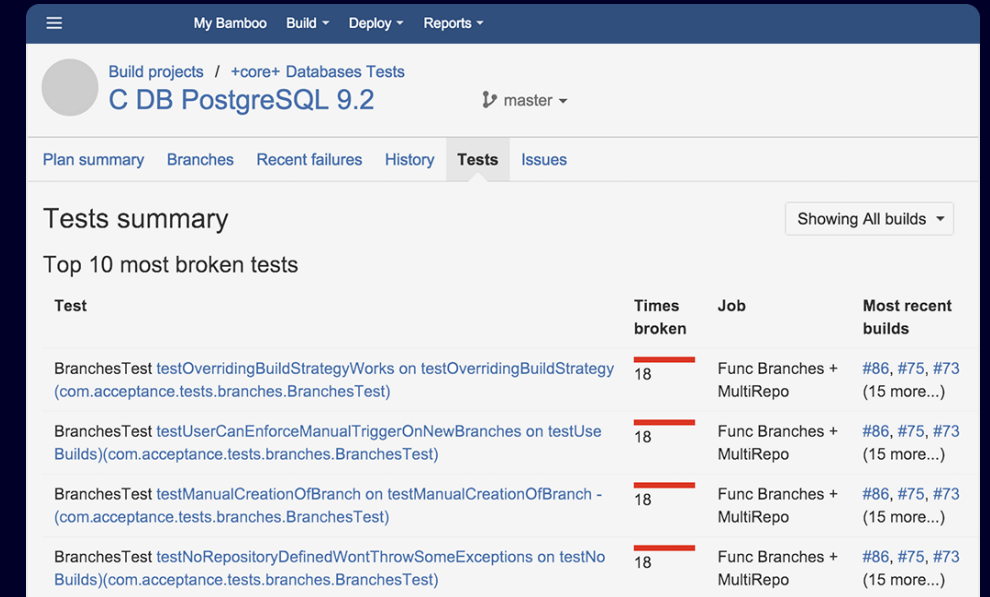
Build Systems: Bamboo, Jenkins – Polarion Entegrasyonu



The image shows the Jenkins 'System' configuration page. The 'Polarion Connector' section is highlighted with a red box. It contains the following fields:

- Default user e-mail suffix: (empty)
- Advanced: (dropdown menu)
- Edited: (icon)
- Test configuration by sending test e-mail: (checkbox, unchecked)
- Polarion Rest URL: `https://debian12-0004u-8463.polarion.net.plm.eds.com/polarion/`
- Token: (masked with asterisks)
- Successful Connection: (status message)
- Test Connection: (button)

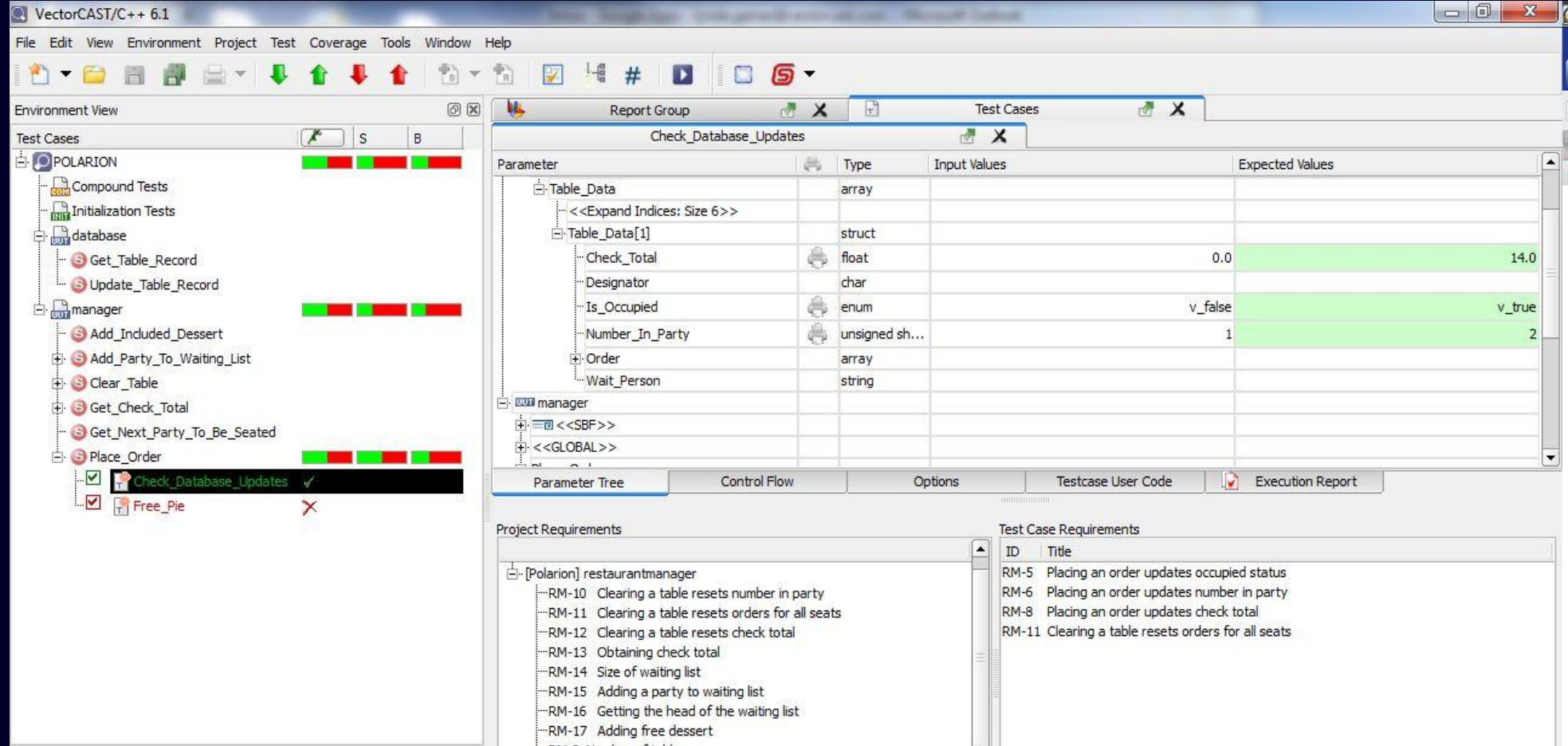
Below the Polarion Connector section is the 'SCM Polling' section with a 'Max # of concurrent polling' field set to 10. At the bottom are 'Save' and 'Apply' buttons.



The image shows the Bamboo 'Tests' page for a build named 'C DB PostgreSQL 9.2'. The page displays a 'Tests summary' and a table of the 'Top 10 most broken tests'.

Test	Times broken	Job	Most recent builds
BranchesTest testOverridingBuildStrategyWorks on testOverridingBuildStrategy (com.acceptance.tests.branches.BranchesTest)	18	Func Branches + MultiRepo	#86, #75, #73 (15 more...)
BranchesTest testUserCanEnforceManualTriggerOnNewBranches on testUse Builds)(com.acceptance.tests.branches.BranchesTest)	18	Func Branches + MultiRepo	#86, #75, #73 (15 more...)
BranchesTest testManualCreationOfBranch on testManualCreationOfBranch - (com.acceptance.tests.branches.BranchesTest)	18	Func Branches + MultiRepo	#86, #75, #73 (15 more...)
BranchesTest testNoRepositoryDefinedWontThrowSomeExceptions on testNo Builds)(com.acceptance.tests.branches.BranchesTest)	18	Func Branches + MultiRepo	#86, #75, #73 (15 more...)

Diğer Entegrasyonlar: VectorCAST – Polarion Entegrasyonu



The screenshot displays the VectorCAST/C++ 6.1 software interface, which is integrated with Polarion. The interface is divided into several panes:

- Environment View:** Shows the test case hierarchy. The 'POLARION' test case is expanded, showing sub-cases like 'Compound Tests', 'Initialization Tests', 'database', 'manager', and 'Add_Included_Dessert'. The 'Check_Database_Updates' test case is highlighted with a green bar.
- Test Cases:** A list of test cases with status indicators (green, red, yellow).
- Report Group:** A tabbed interface showing the details of the selected test case, 'Check_Database_Updates'. It includes a table of parameters and expected values.
- Project Requirements:** A list of requirements for the project, including 'RM-10 Clearing a table resets number in party' and 'RM-11 Clearing a table resets orders for all seats'.
- Test Case Requirements:** A list of requirements for the test case, including 'RM-5 Placing an order updates occupied status' and 'RM-6 Placing an order updates number in party'.

The 'Check_Database_Updates' test case details are shown in the 'Report Group' tab. The table below lists the parameters and their expected values:

Parameter	Type	Input Values	Expected Values
Table_Data	array		
Table_Data[1]	struct		
Check_Total	float	0.0	14.0
Designator	char		
Is_Occupied	enum	v_false	v_true
Number_In_Party	unsigned sh...	1	2
Order	array		
Wait_Person	string		

Rest API

Documents			▼
GET	/projects/{projectId}/spaces/{spaceId}/documents/{documentName}	Returns the specified instance.	🔒
PATCH	/projects/{projectId}/spaces/{spaceId}/documents/{documentName}	Updates the specified instance.	🔒
POST	/projects/{projectId}/spaces/{spaceId}/documents/{documentName}/actions/branch	Creates a branch of the document.	🔒
POST	/projects/{projectId}/spaces/{spaceId}/documents/{documentName}/actions/copy	Creates a copy of the document.	🔒
Linked Work Items			▼
DELETE	/projects/{projectId}/workitems/{workItemId}/linkedworkitems	Deletes a list of instances.	🔒
DELETE	/projects/{projectId}/workitems/{workItemId}/linkedworkitems/{roleId}/ /{targetProjectId}/{linkedWorkItemId}	Deletes the specified instance.	🔒
GET	/projects/{projectId}/workitems/{workItemId}/linkedworkitems	Returns a list of instances.	🔒
GET	/projects/{projectId}/workitems/{workItemId}/linkedworkitems/{roleId}/ /{targetProjectId}/{linkedWorkItemId}	Returns the specified instance.	🔒
PATCH	/projects/{projectId}/workitems/{workItemId}/linkedworkitems/{roleId}/ /{targetProjectId}/{linkedWorkItemId}	Updates the specified instance.	🔒
POST	/projects/{projectId}/workitems/{workItemId}/linkedworkitems	Creates a list of instances.	🔒
Page Attachments			▼
GET	/projects/{projectId}/spaces/{spaceId}/pages/{pageName}/attachments/ /{attachmentId}/content	Downloads the file content for a specified attachment.	🔒

Teşekkürler.

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