

Windchill Extension Test Plan

Extension Platform Validation Plan

Details			
Generated	2025/01/31 13:08		
Group Id com.wincomplm			
Artifact Id	wex-platform-testplan-validation		
Name	Extension Platform Validation Plan		
Version	2.0		
Beta	No		
Windchill Version	13.1		
Description	The platform within Windchill that manages extensions		
System Extension	Yes		



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Description

Version **2.0.3**

Windchill Version 13.1

Click the link below to download the latest version of this test plan

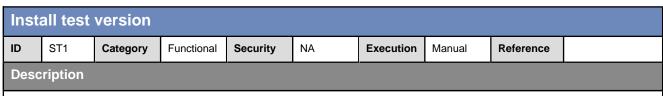
Testing for the new Wincom Extension Platform 2.0 features that will be included in Windchill.

This test plan is functional only and does not test security.

https://github.com/wincomplm/edk/raw/refs/heads/main/access/test-wexes/13.1/wex-platform-testplan-validation.release.testplan.pdf

Overview & Setup





Windchill will have the latest platform preinstalled but the latest version can be installed using the installer.

Actions

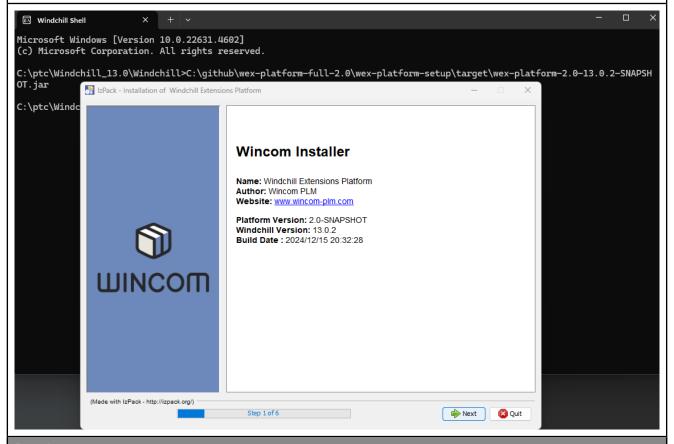
Download the installer and run it from a Windchill Shell

Click the link below to download the latest installer

Windows: java -jar wex-platform-xxxxx.jar Lunix (no GUI): java -jar wex-platform-xxxxx.jar -console

Click the link below to download the latest installer

https://github.com/wincomplm/edk/raw/refs/heads/main/access/test-wexes/13.1/wex-platform-2.0-13.1.0.0-SNAPSHOT.jar/linears/superscripts/superscrip



Result

Install complete

Set Windchill+ to be default

ID ST11 Category Functional Security NA Execution Manual Reference

Description

Set the WEX_WCPLUS environment variable to ensure WC plus is preset

Actions

Set the WEX_WCPLUS variable to true

USEKDOMAIN=AZUreAD

USERDOMAIN_ROAMINGPROFILE=AzureAD

USERNAME=SimonHeath

USERPROFILE=C:\Users\SimonHeath

WEX_WCPLUS=true

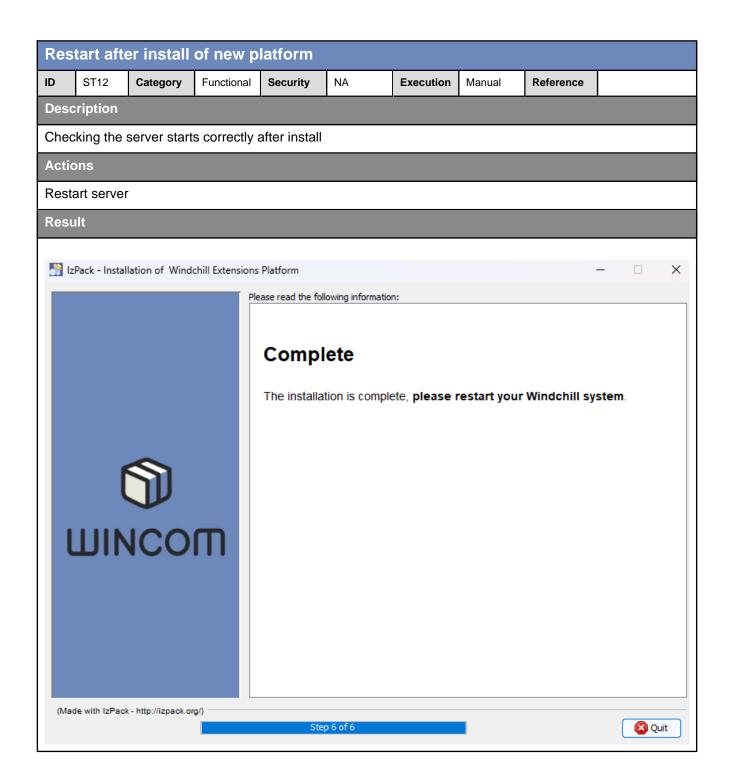
windir=C:\Windows

WT_HOME=C:\ptc\Windchill_13.0\Windchill

ZES_ENABLE_SYSMAN=1

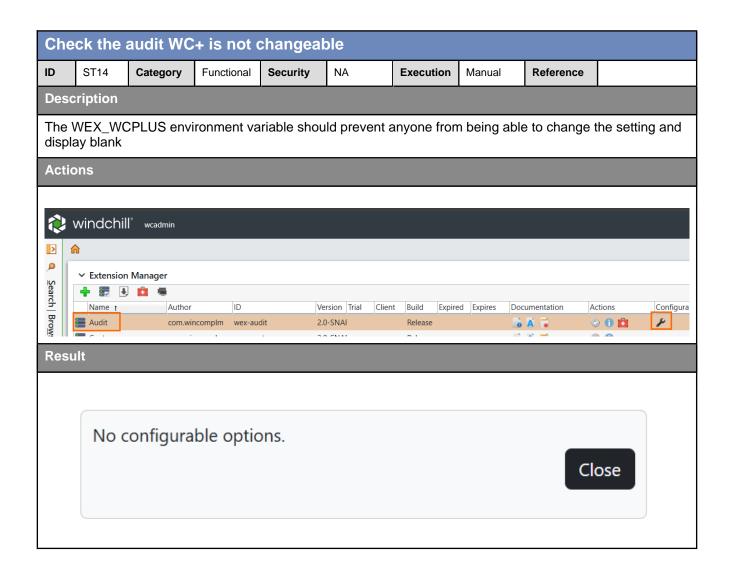
Result

Environment Variable is created



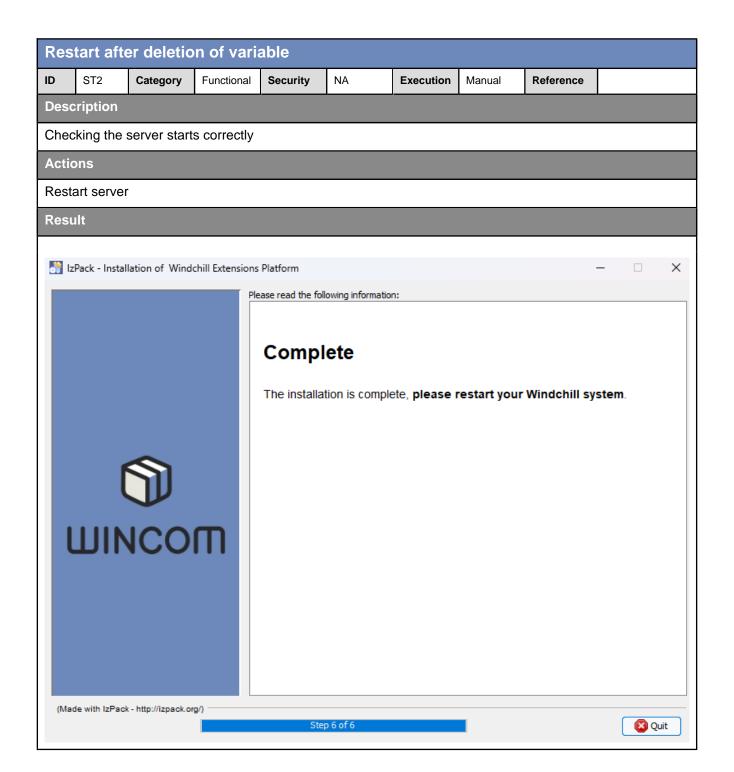
Check method server for output of environment variable									
ID	ST13	Category	Functional	Security	NA	Execution	Manual	Reference	
Description									
The WEX_WCPLUS environment variable should show up in method server									
Actions									
Review method server log for WEX_WCPLUS value is 'true'									
Result									
NFO: wt.system.err - 2025-44-30 13:44:21 INFO com.wincomplm.wex.kernel.impl.manager.WexKernelManagerDelegate - Your Kernel will expire in 178 day(s) NFO: wt.system.err - 2025-44-30 13:44:21 INFO com.wincomplm.wex.kernel.impl.manager.WexKernelManager - Initializing Wex Kernel NFO: wt.system.err - 2025-01-30 13:44:29 WARN com.wincomplm.wex-audit.WindchillPlusHelper - WEX_WCPLUS value is ''true''									



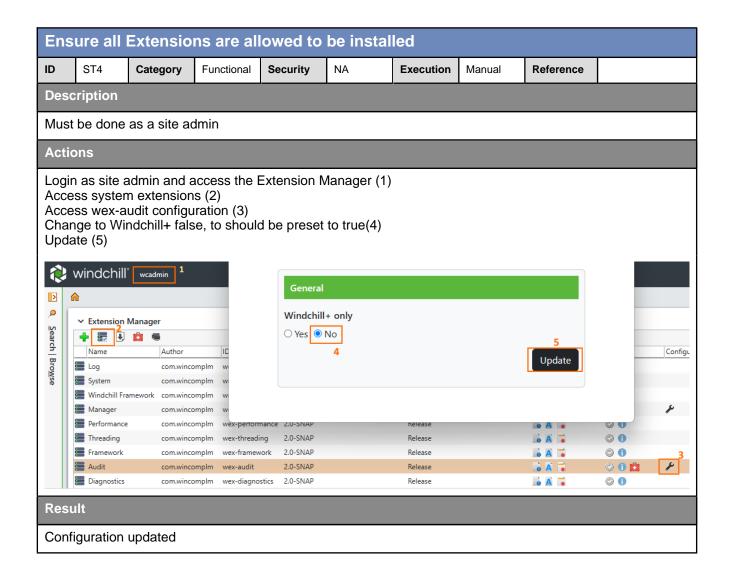


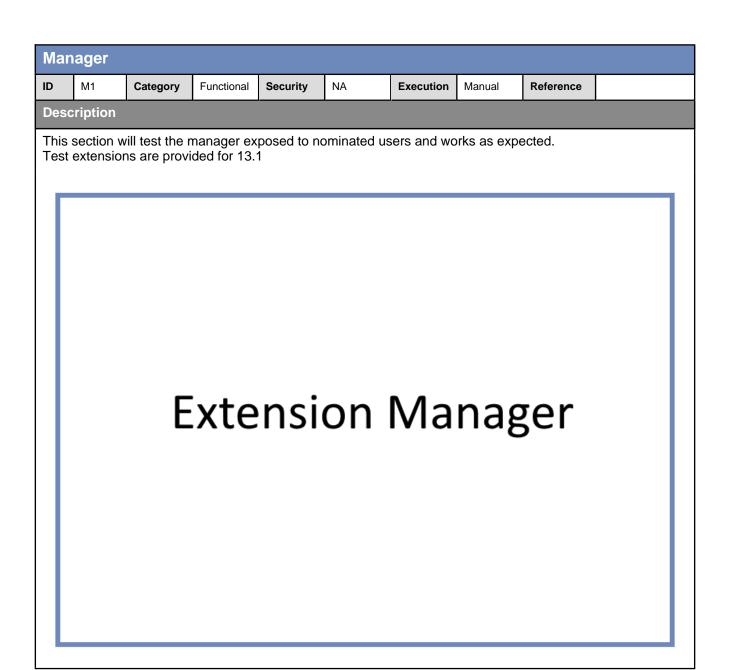
Remove Windchill+ environment variable									
ID	ST15	Category	Functional	Security	NA	Execution	Manual	Reference	
Description									
Removing the environment variable allows site admin to change Audit config for the tests ahead									
Actions									
Delete the WEX_WCPLUS from the environment variables									
Result									
Check the system settings									



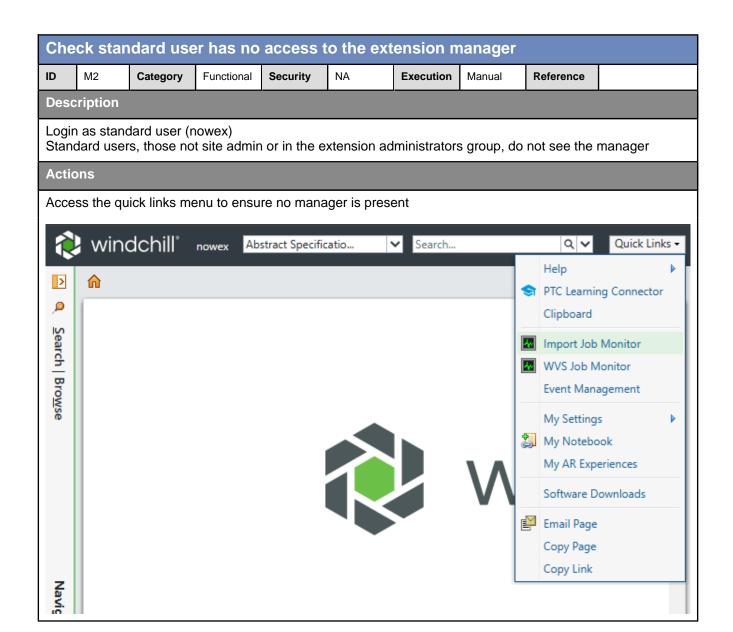


Create Wex Manager new user ST3 Category **Functional** Security NA Execution Manual Reference Description We will use three users during the testing + Site Admin - Will be able to perform all functions including system configuration (wcadmin) + Extension Admin - A user that can deploy and undeploy approved extensions (wex) + Standard User - A user with no special privilages (nowex) **Actions** Create a new user (wex) and add them to this group Create a new user (nowex) and do not add them to this group Result The Group Extension Administrators is present (does not need to be manually created) Q 🗸 windchill* Abstract Specificatio... ✓ Search. Quick Links • wcadmin **Site** Recently Accessed • > → Participant Administration (2 objects) Search | Browse 🗕 🖀 🦉 强 | Actions 🕶 Q 🖁 + 🕝 Search in table Name Status Description Organization ID **Extension Administrators** Can deploy, undeploy and configure extensions for the business (0 objects selected) Navigator

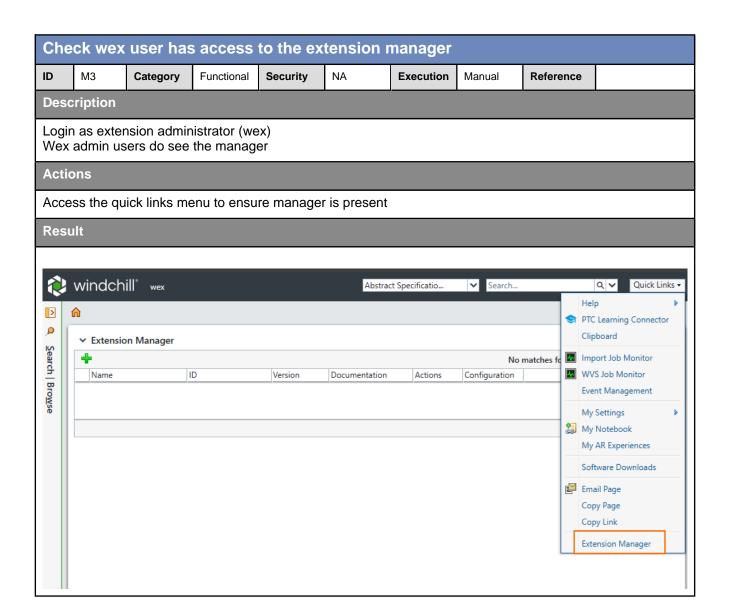




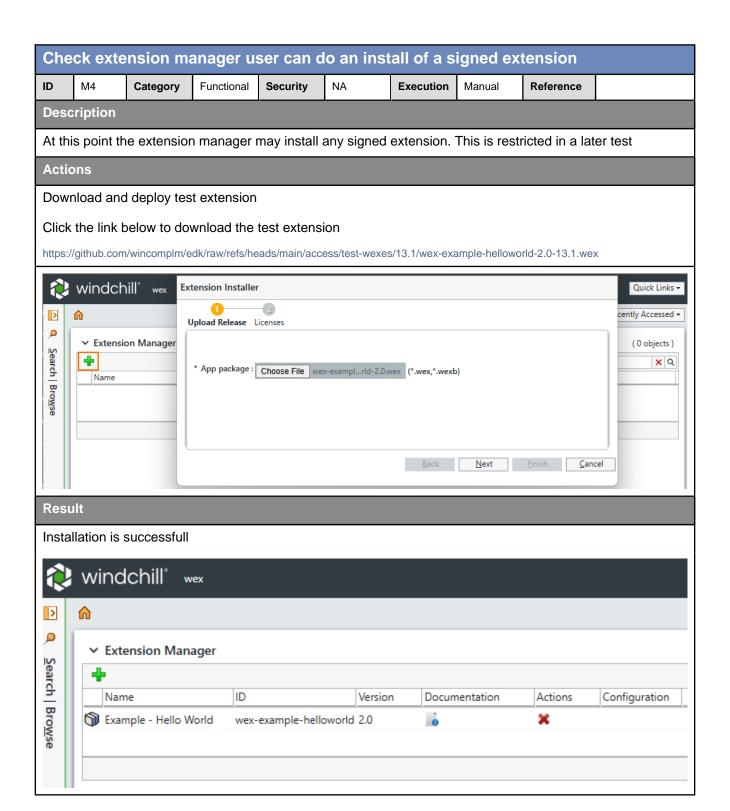


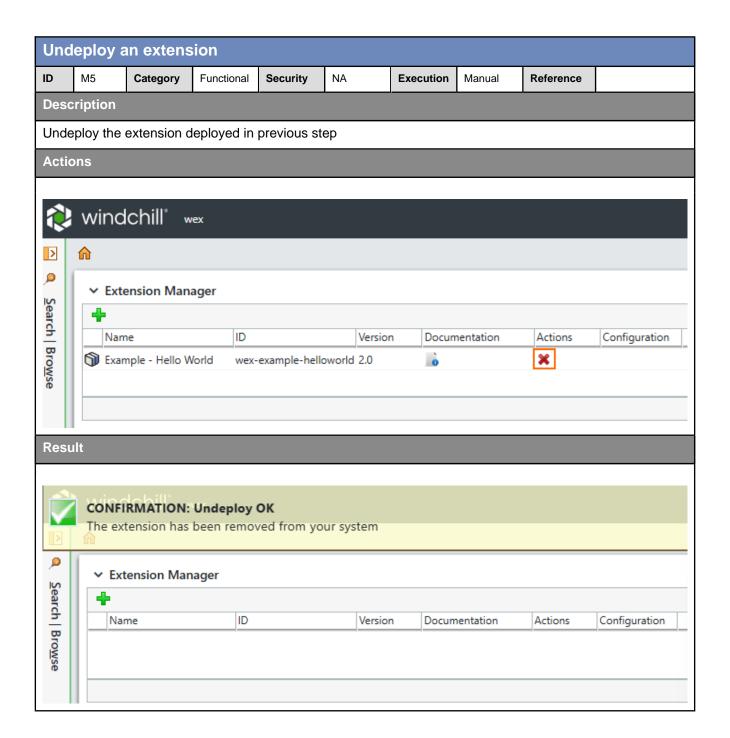


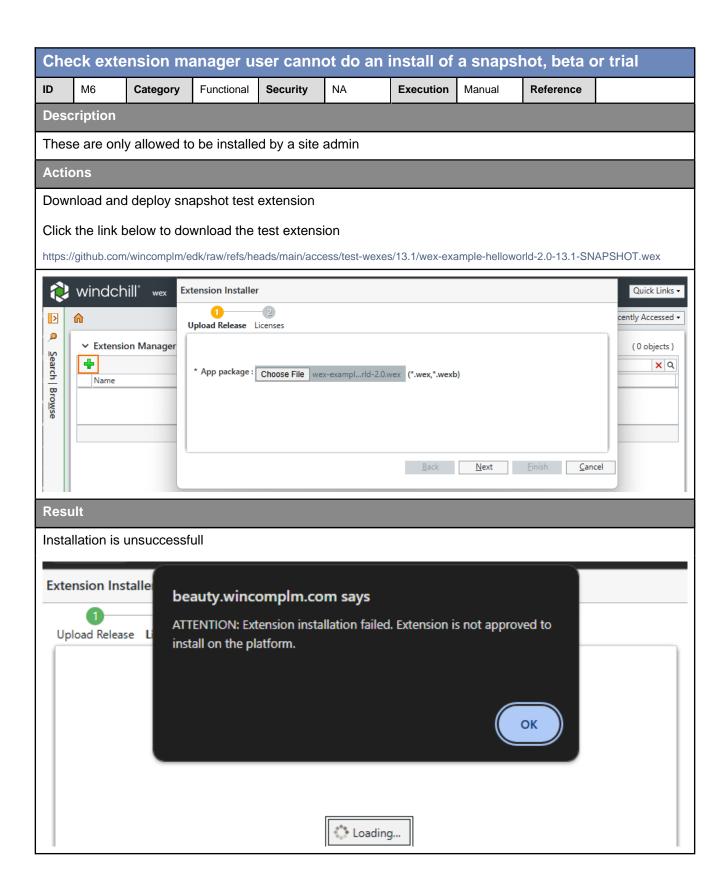


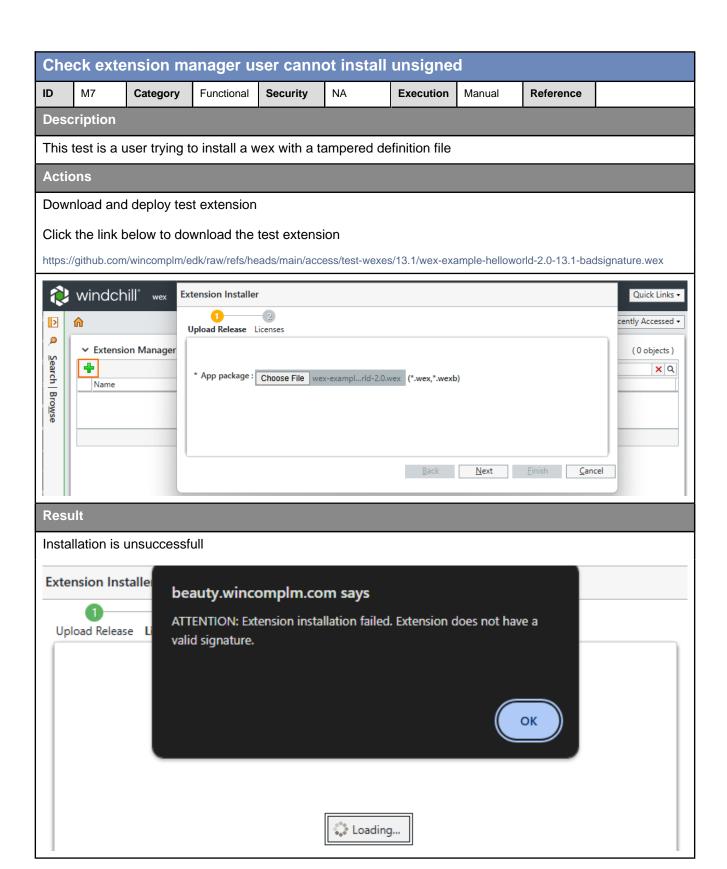


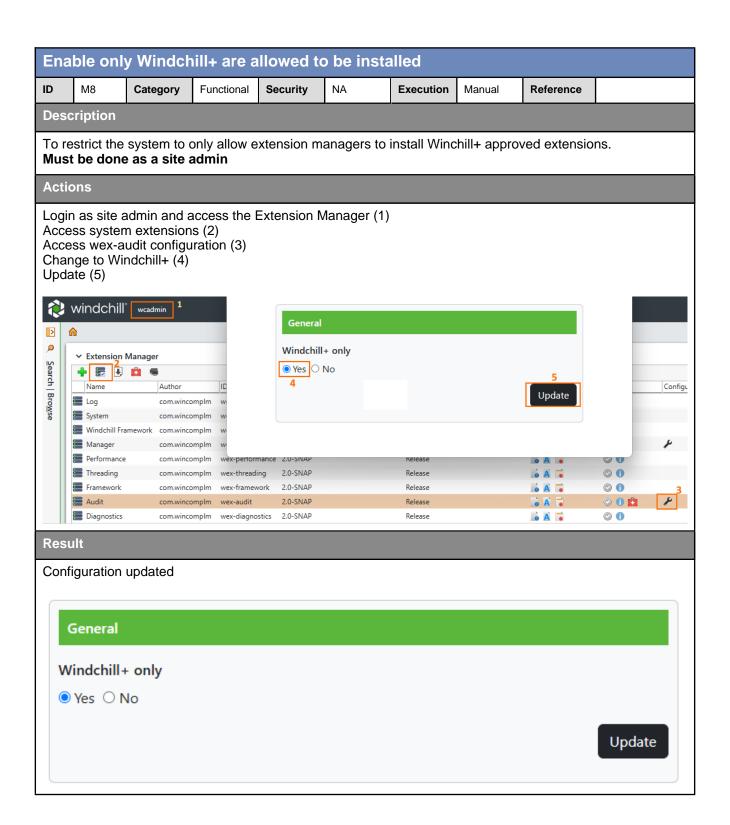


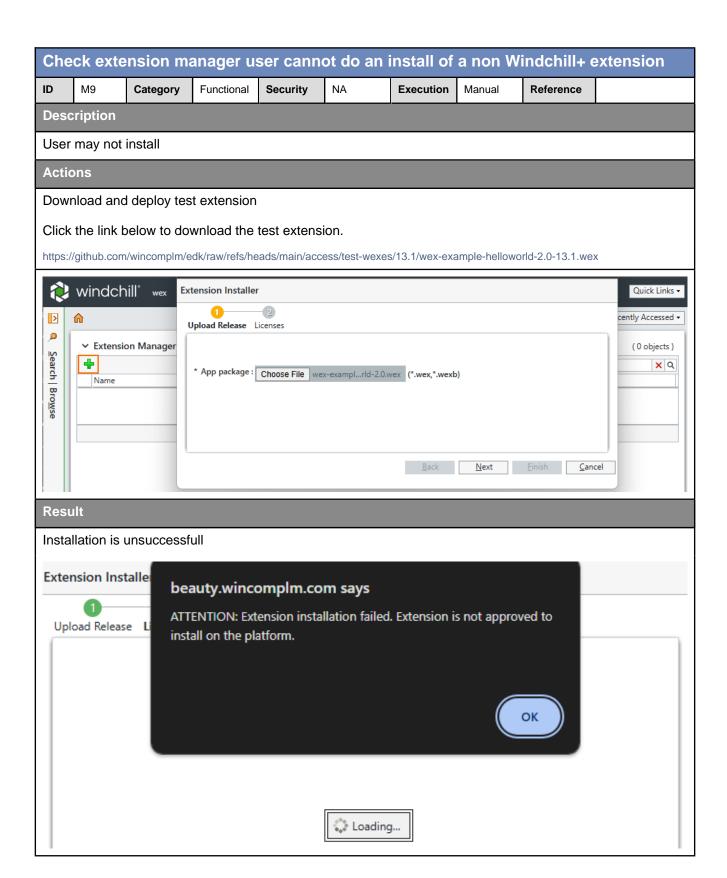


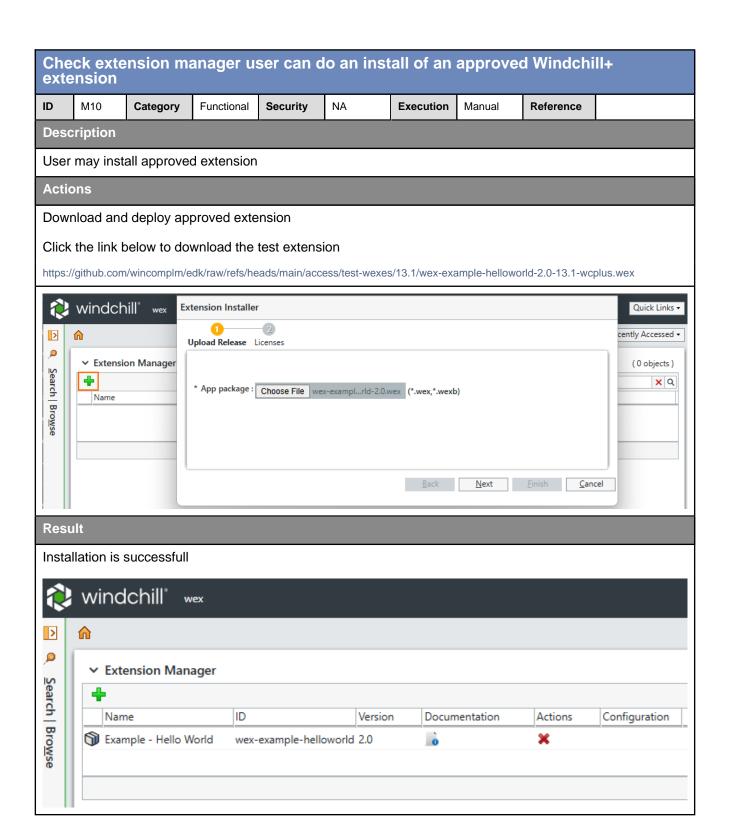


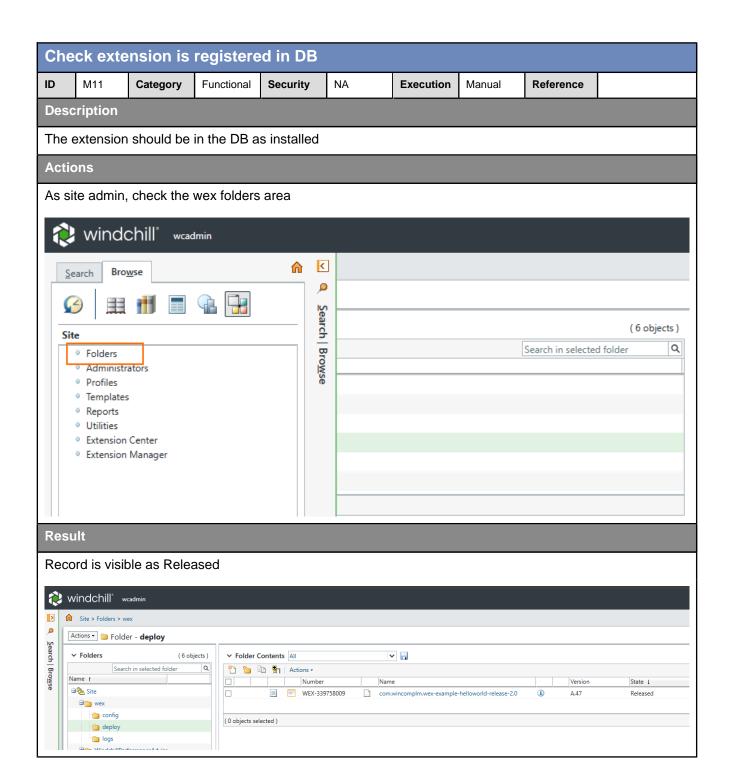


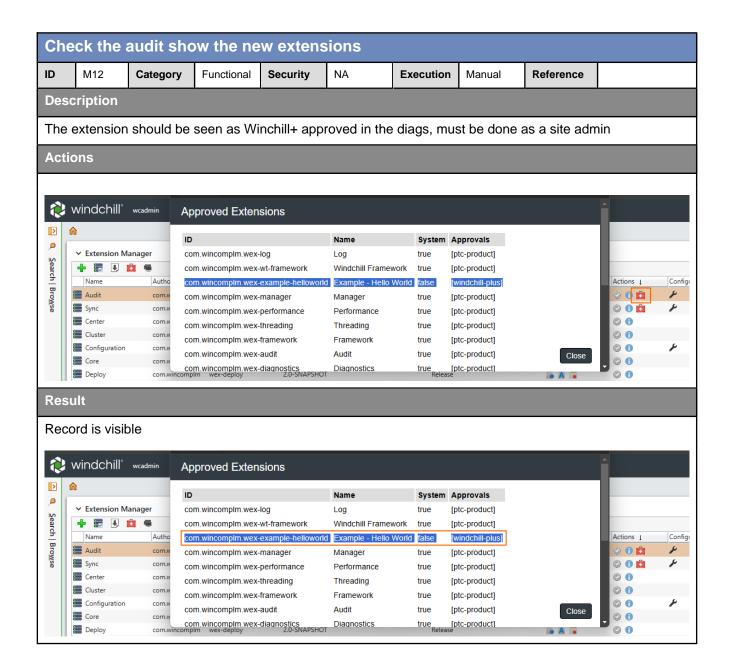


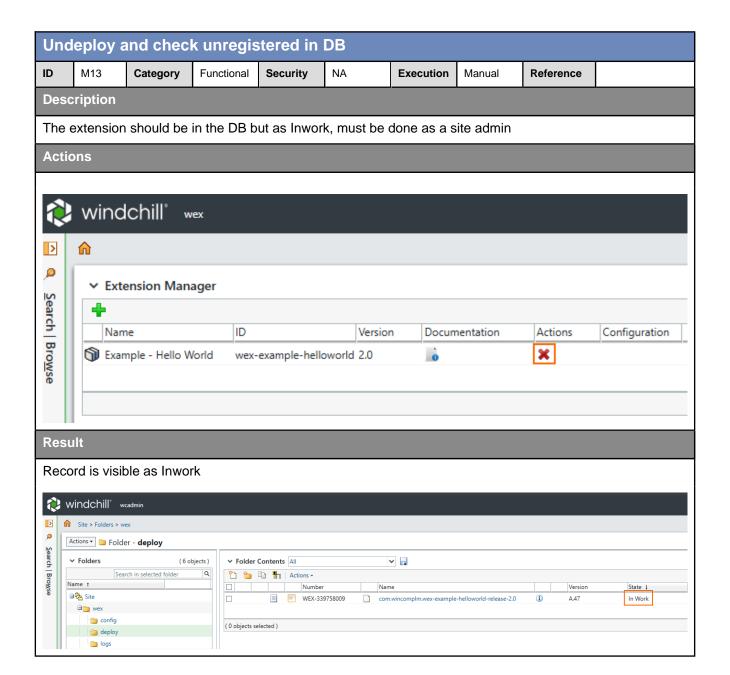




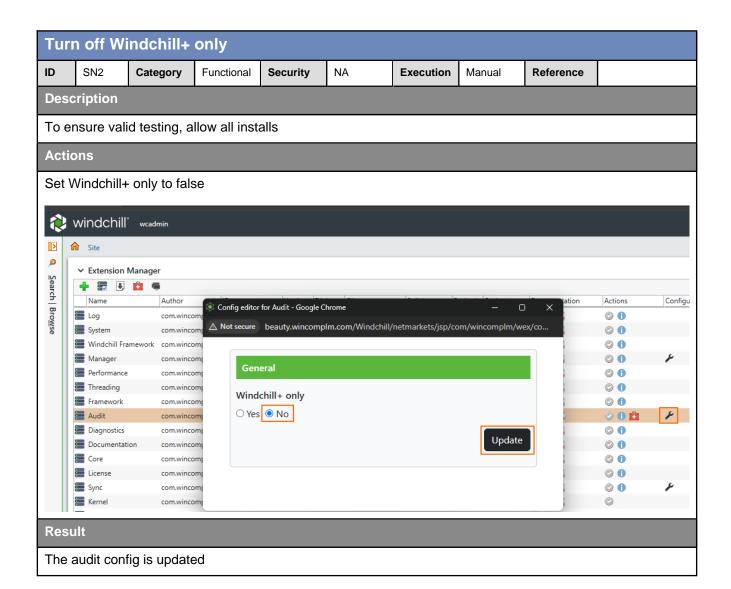


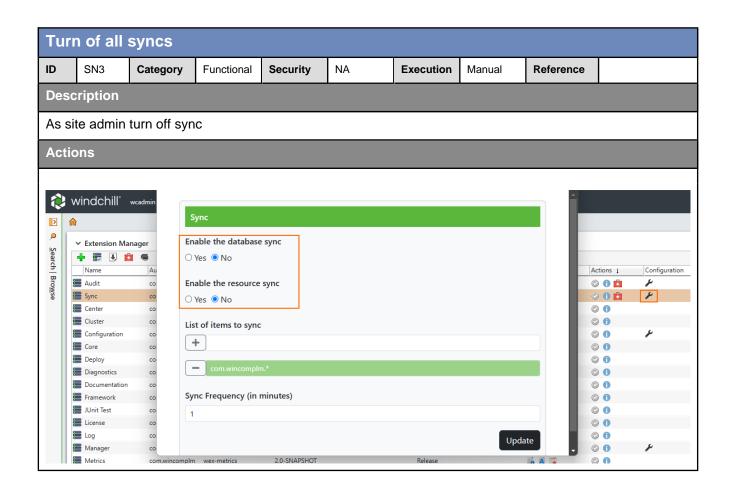




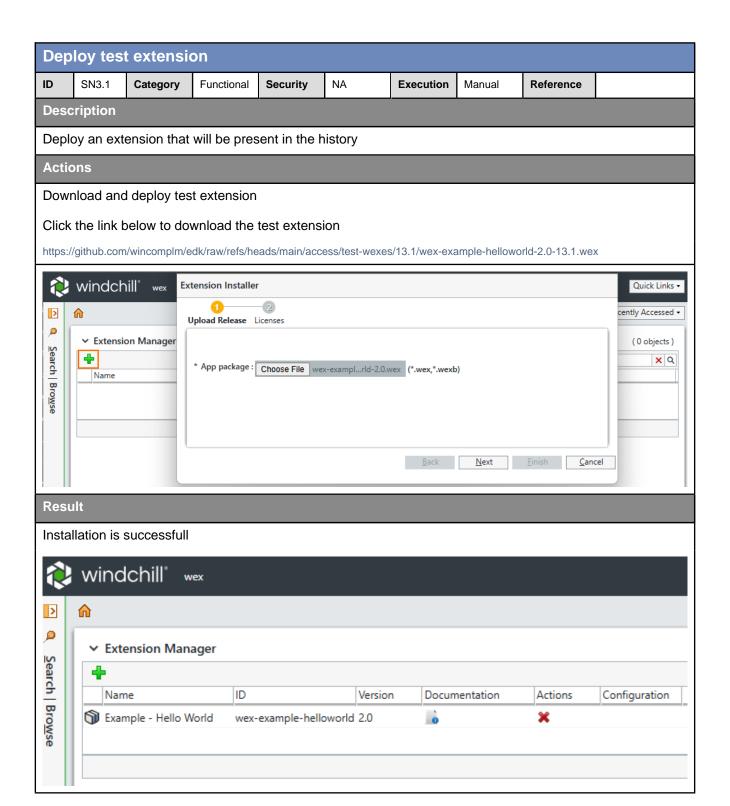


Sync SN1 Security Category Functional NA Execution Manual Reference Description Testing the way the platform syncs to the DB and new updates. All testing must be done as Site Admin. Sync

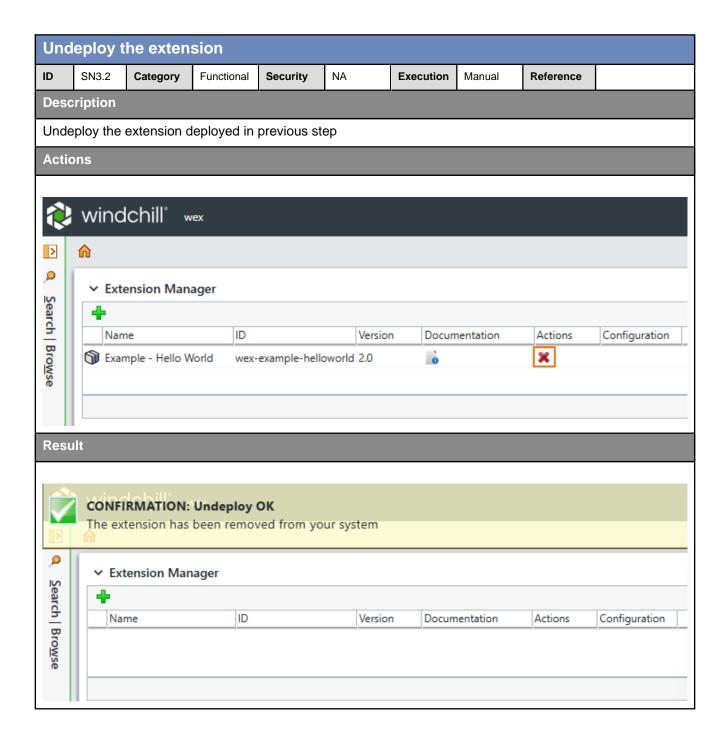


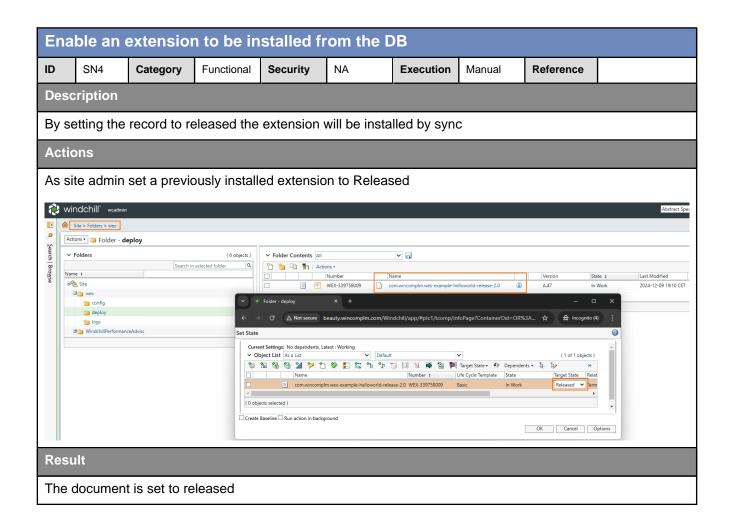




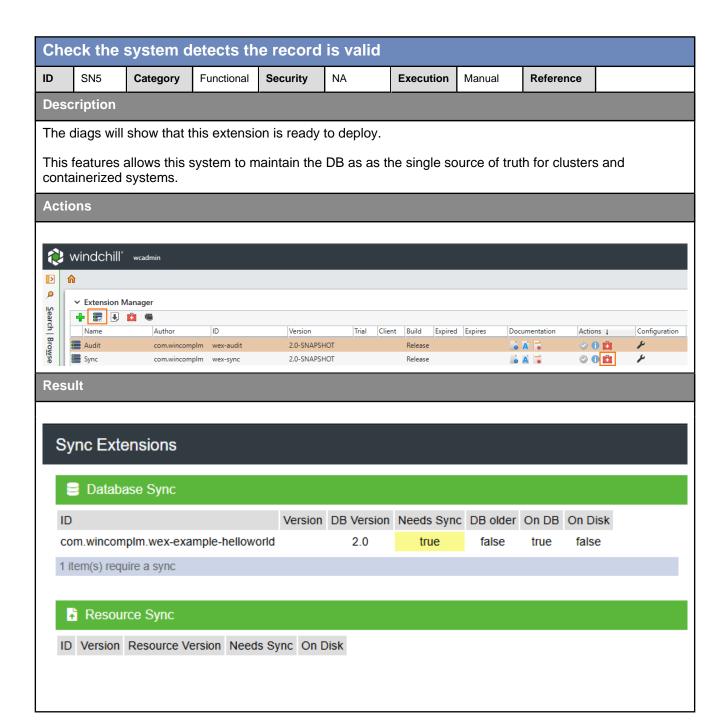


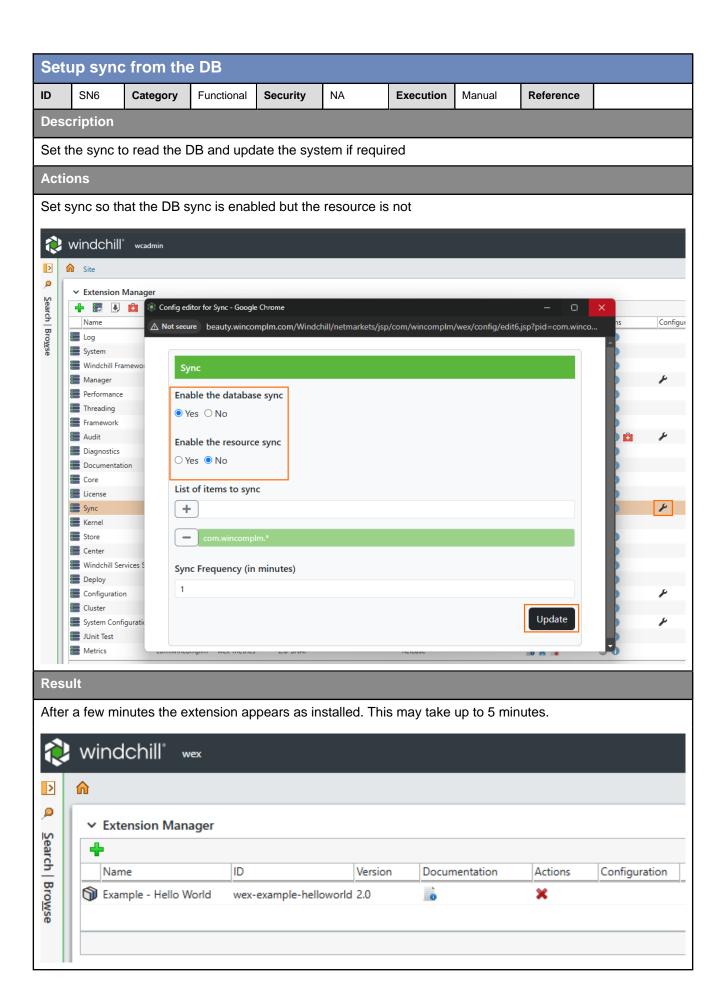
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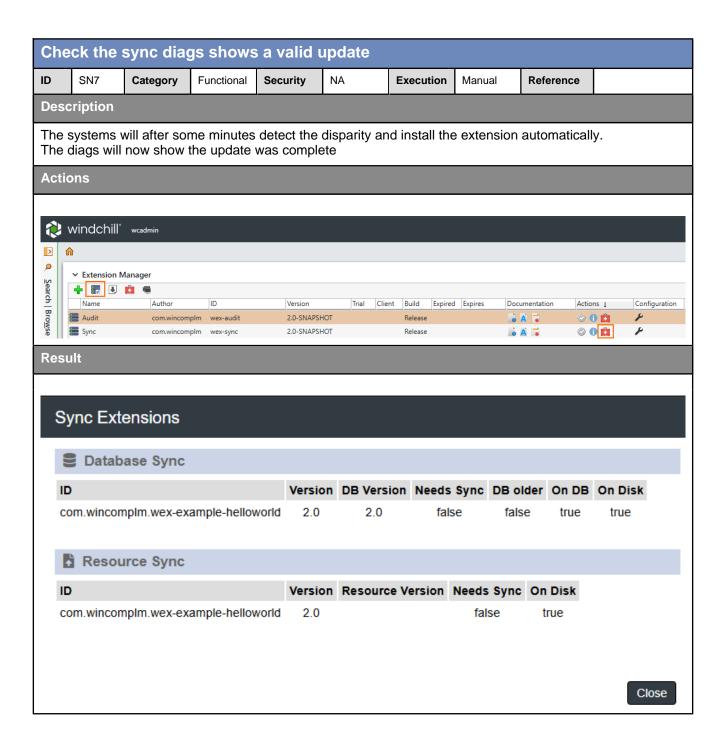


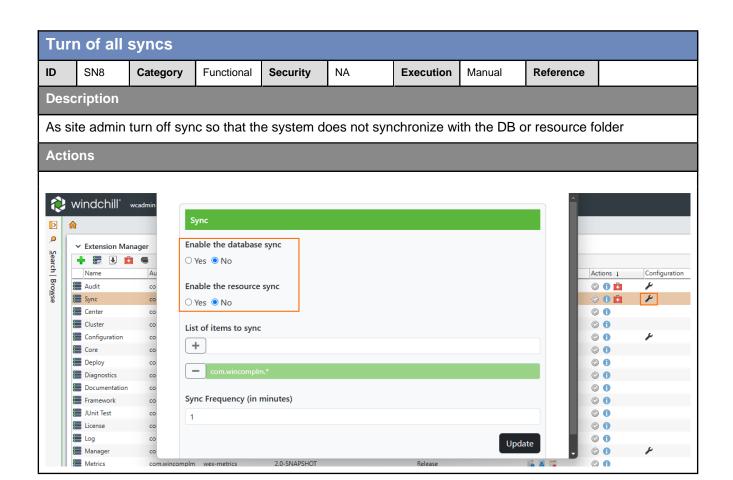




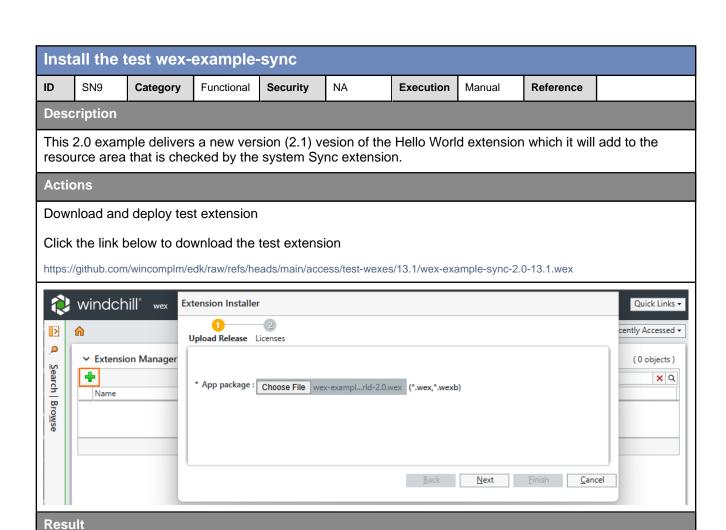




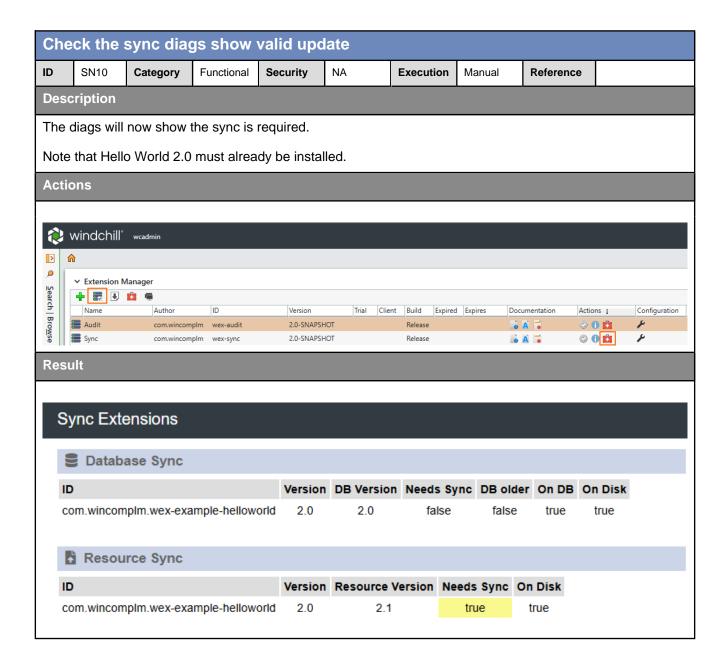


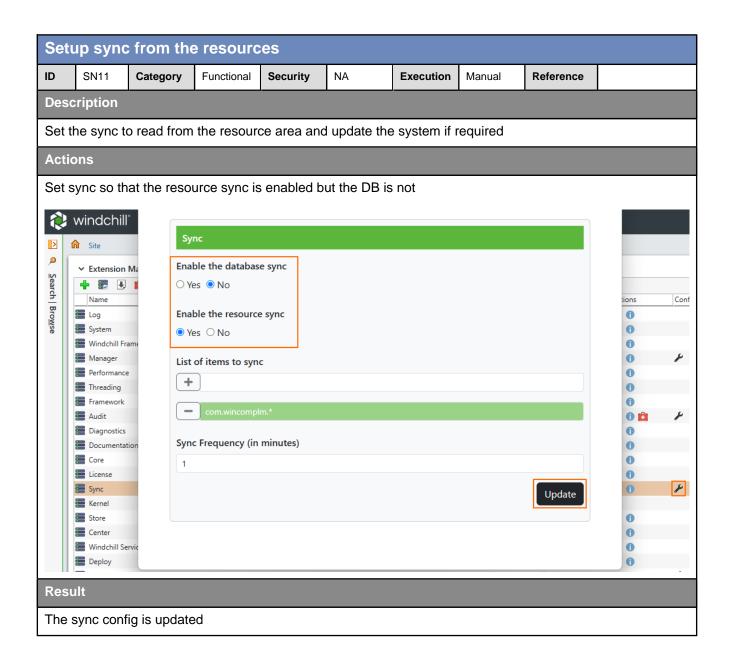


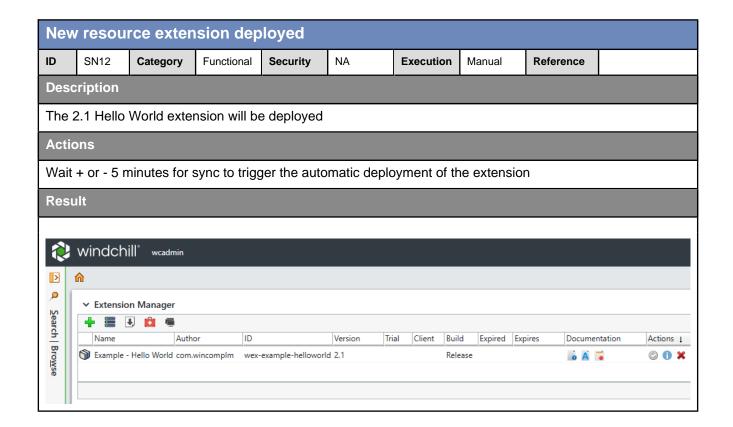




Extension deployed







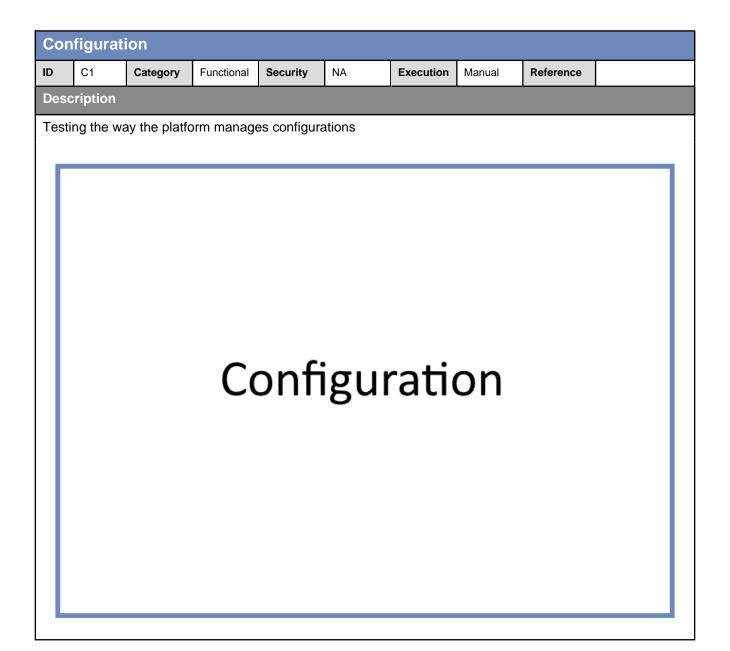


Turn off Resource Sync										
ID	SN13	Category	Functional	Security	NA	Execution	Manual	Reference		
Description										
Turn off the Sync that reads from resource area										
Actions										
Set the sync so that the resource sync is disabled and the DB is also disabled										
Result										
The sync config is updated										

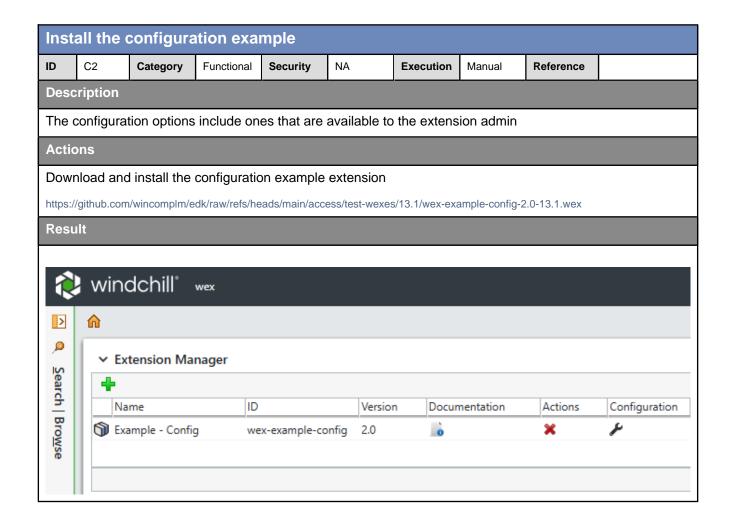


Undeploy all test Extensions										
ID	SN14	Category	Functional	Security	NA	Execution	Manual	Reference		
Description										
Ensuring that all extensions used for Sync testing are removed										
Actions										
Undeploy Hello World Example and Sync Example										
Result										
Extensions are undeployed										











Check the security report of the example shows the correct information

ID C3 Category Functional Security NA Execution Manual Reference

Description

The security reports will show which options are made visible to the Extension Admins

Actions

No action, this is for information only

Result

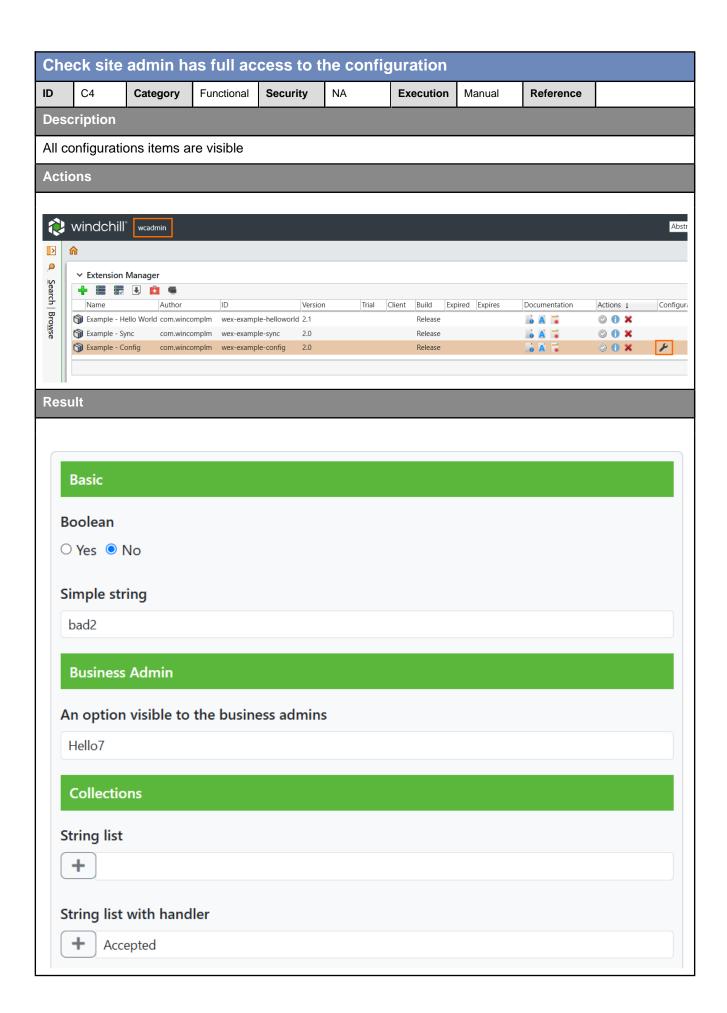
Configuration

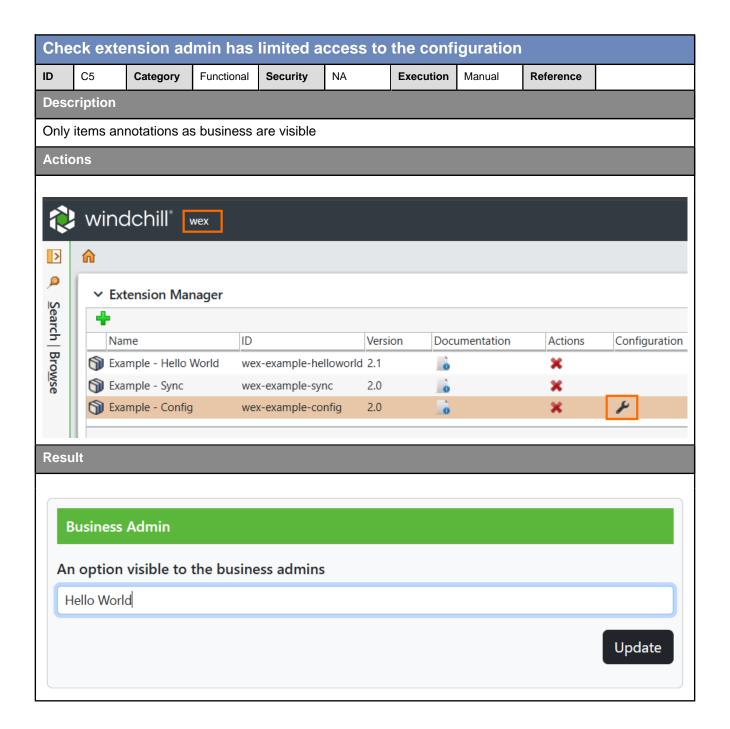
The configuration options for both Site Admin and Extension Business Configuration

Business Manager Options								
Category	Name	Туре	Description	Required				
Business Admin	businessString	String	An option visible to the business admins	false				

Admin Options								
Category	Name	Туре	Description	Required				
Basic	exampleString	String	Simple string	false				
Basic	exampleBoolean	boolean	Boolean	false				
Collections	exampleList	List	String list	false				
Collections	exampleMap	Мар	String map	false				
Collections	exampleStateList	List	String list with handler	false				
Security	examplePassword	String	Password	false				

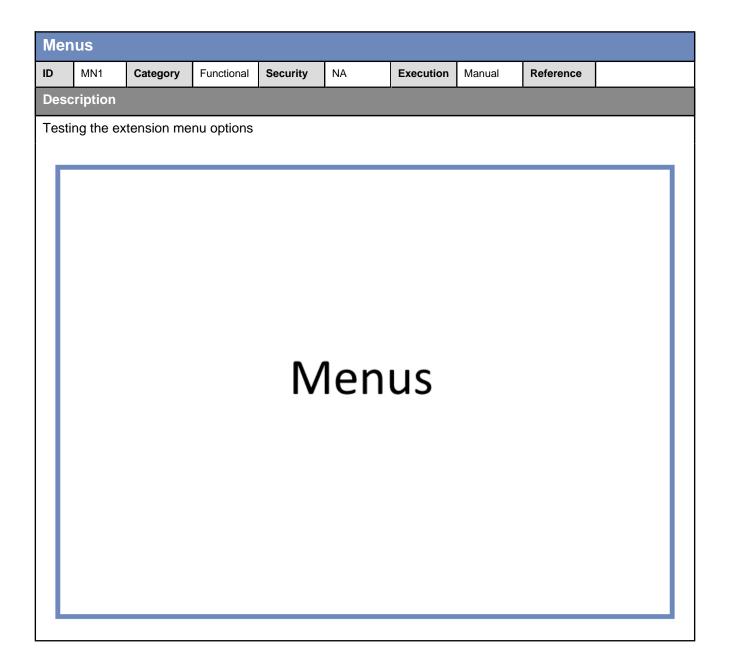




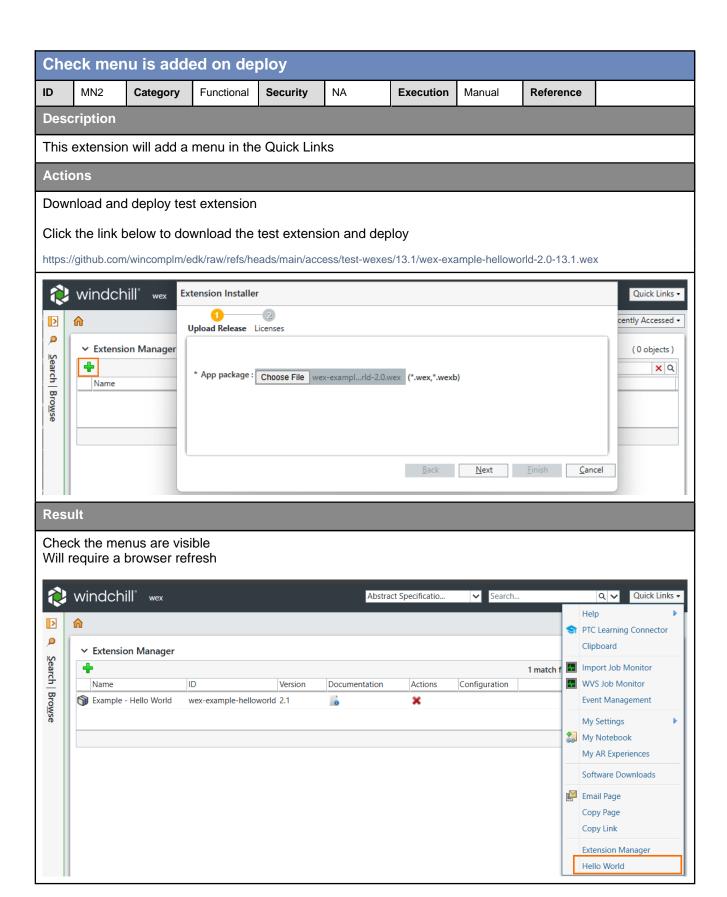


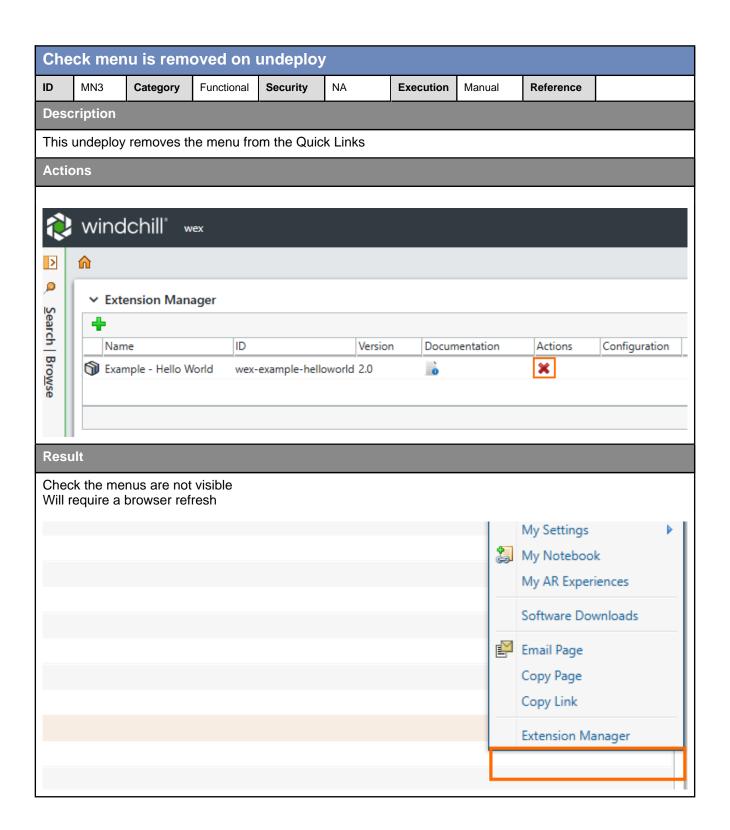
Check configuration can be changed										
ID	C6	Category	Functional	Security	NA	Execution	Manual	Reference		
Description										
Ensure configuration is updated for an Extension										
Actions										
Show System Extensions, go to Audit and change the configurationAfter updating check Method Server for any errors										
Result										
Configuration for Audit should be changed and saved										

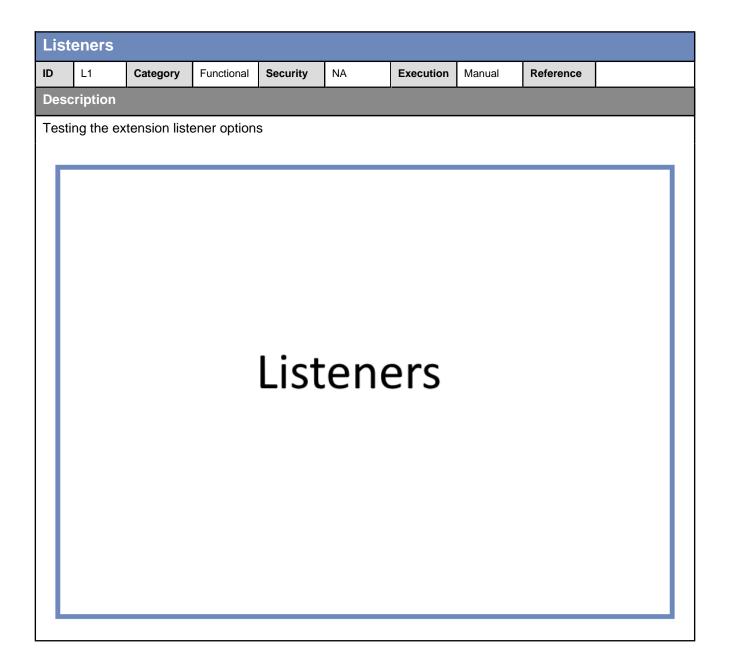


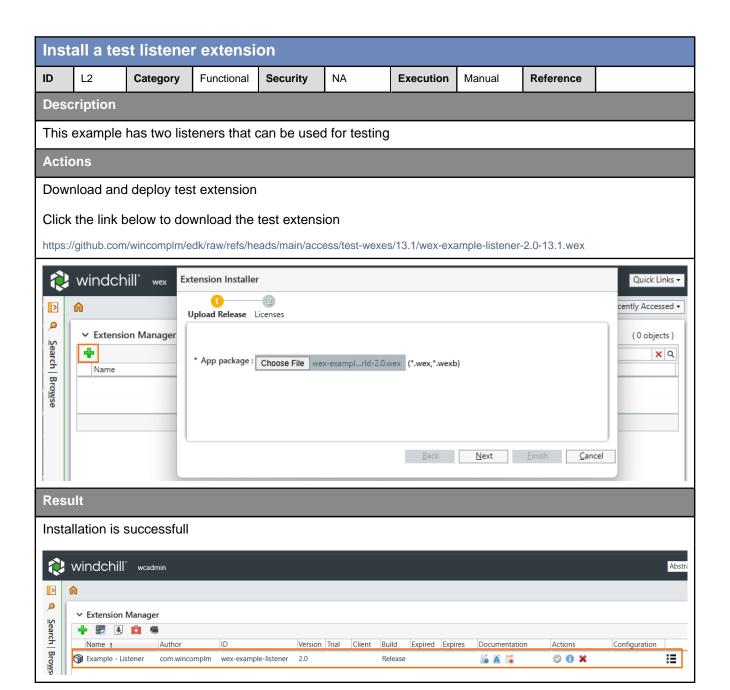


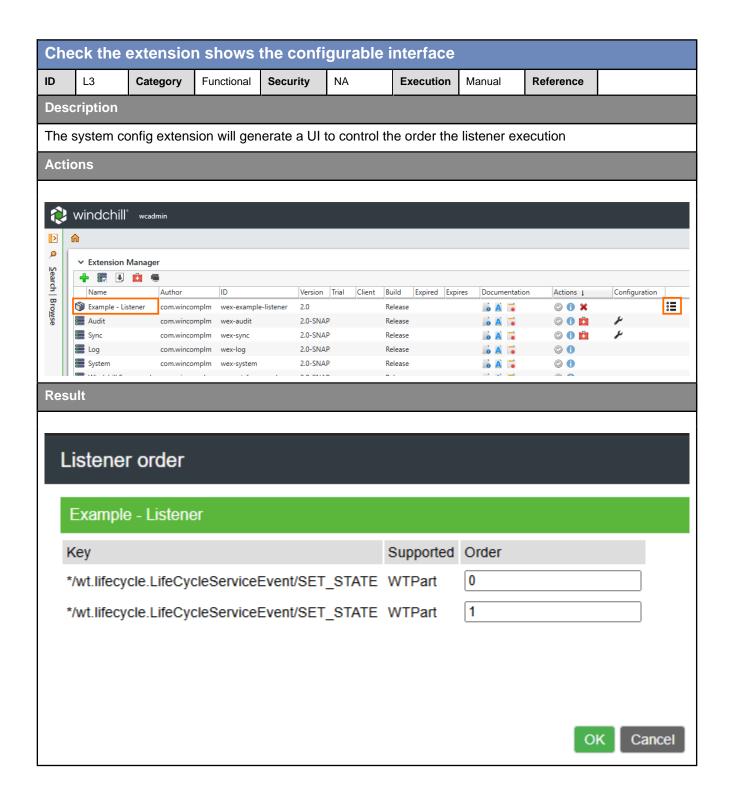


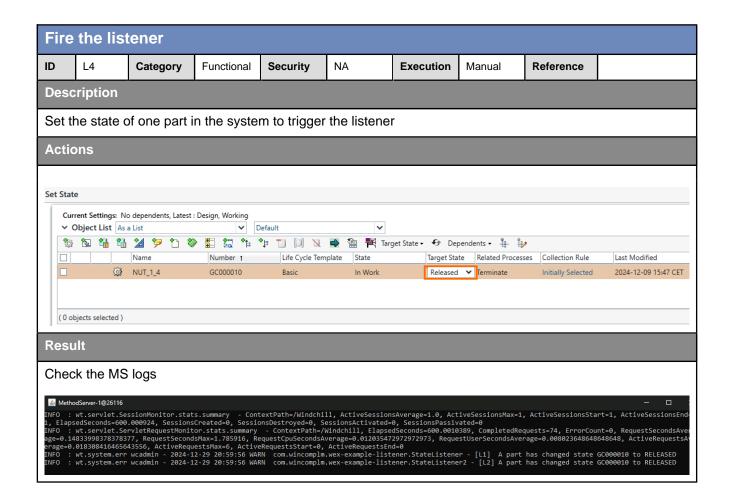


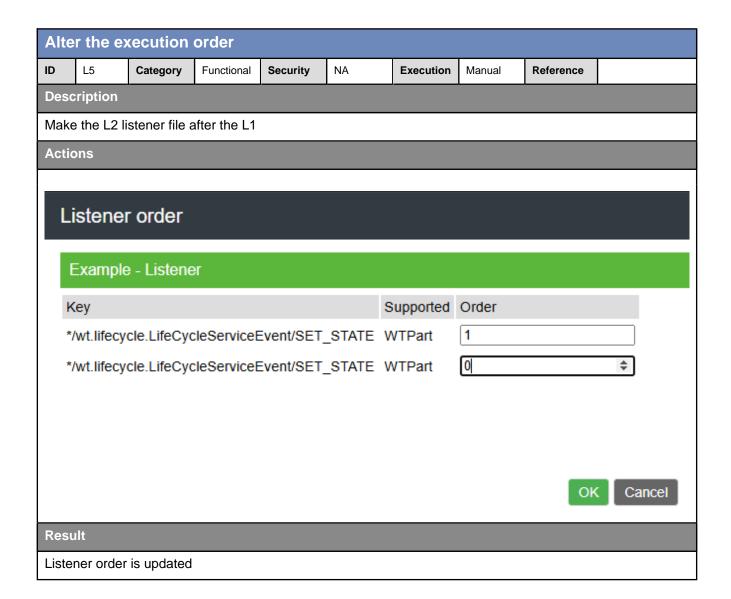


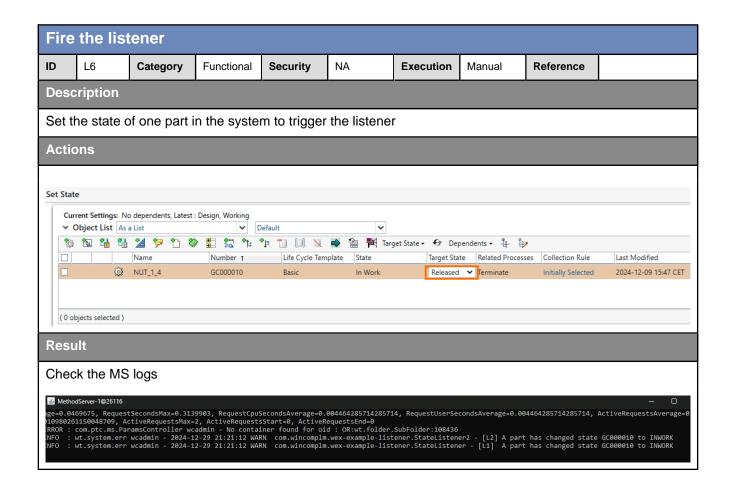




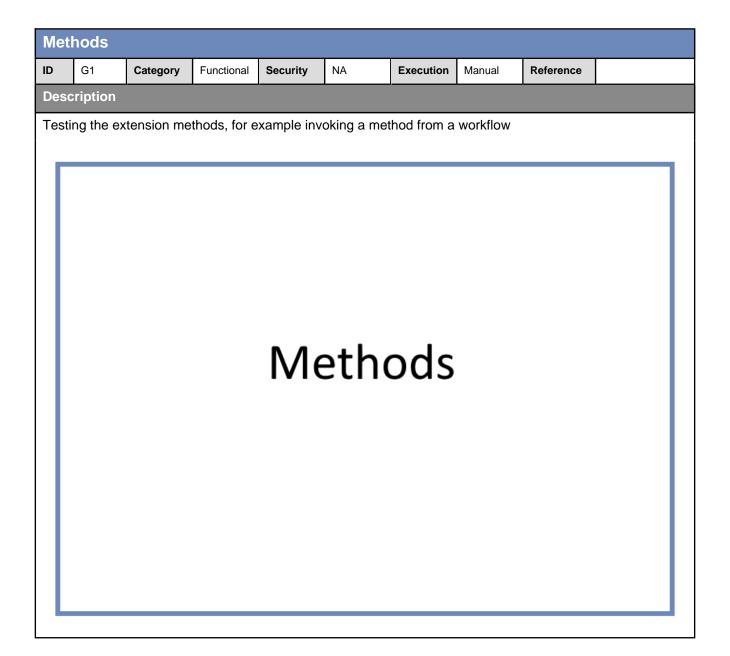




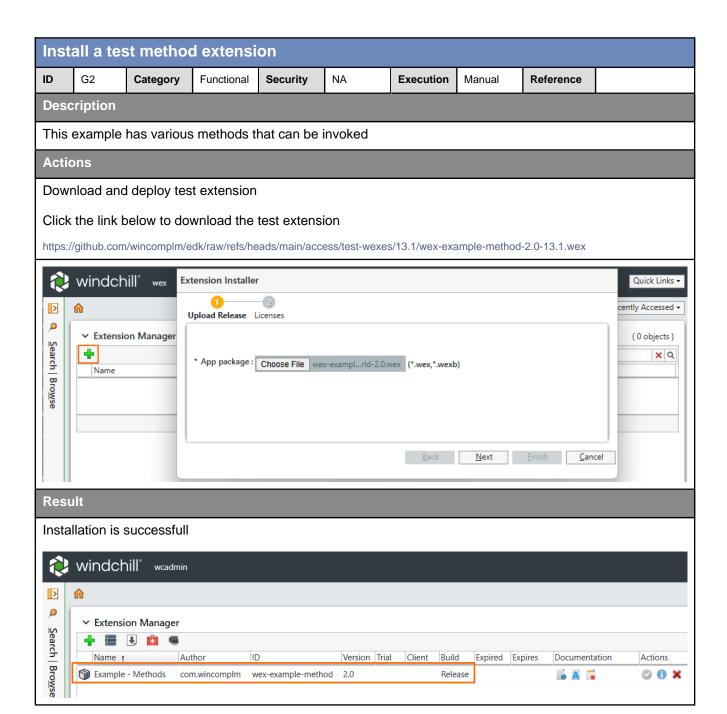


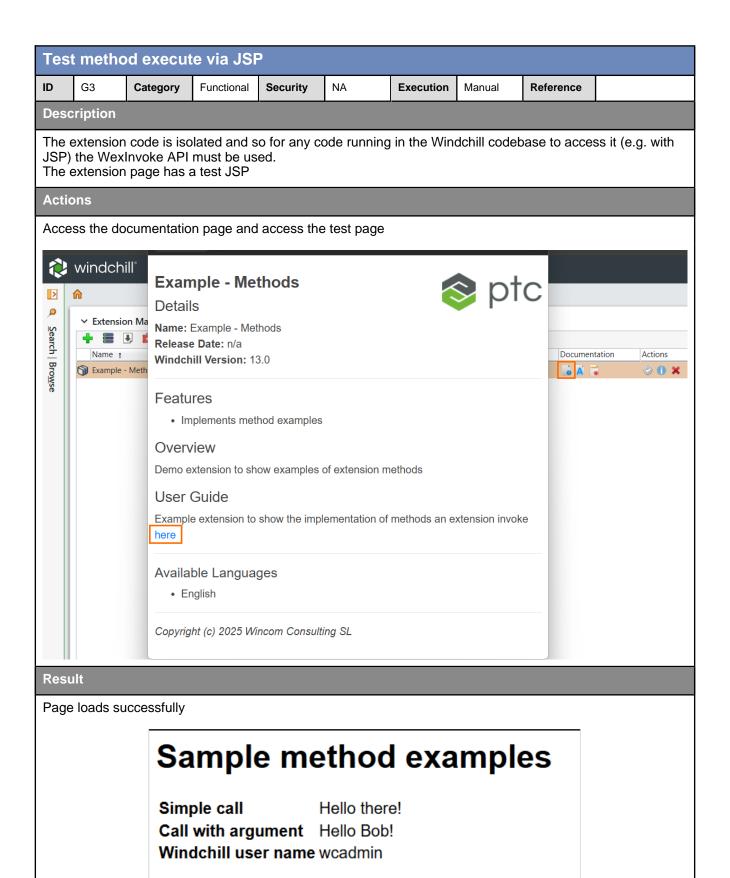












Create a workflow to execute a WexInvoke G4 Category Functional NA Security Execution Manual Reference **Description** Like a JSP the workflow code runs in the Windchill codebase and the wex code is hidden and must be accessed by an invoke **Actions** Create the new workflow as site admin using the Workflow Templates from the site. The execution robot should have the following code String wexresult = com.wincomplm.wex.kernel.api.invoke.WexInvoker.invoke("com.wincomplm.wexexample-method", "methods.argName", "Hello Wex"); System.out.println("The wex returned " + wexresult); windchill* wcadmin Abstract Specificatio... > Site Type and Attribute Management Manage type definitions, attribute definitions, measurement systems, and qua Search permissions can create, modify, or remove types or attributes. Additionally, us attribute definitions with type definitions, and constrain the values of those at **Text Tailoring** Customize the text in the user interface, such as string messages, buttons, and Browse View Administration Create and manage a network of available product structure views. Visualization Configuration Administration Manage WVS configurations including Creo View preferences, watermarks, pr **Workflow Template Administration** Create and manage workflow templates used for automating processes, in wh participants, within the context of specific business objects. Search for workflow processes and view activity and task level details. Restart Workflow Process Administration **WVS Job Monitor** View the status of WVS Jobs. WVS Job Scheduler Administration Create and execute WVS jobs. Result

