

Microsoft Updates Compatibility Test Results

zenon version 10.0 Build 100998

zenon Version 11.0 Build 101682

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zenon

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Content

1. GENERAL INFORMATION	2
2. COMPATIBILITY TEST SETUP & DEFINITIONS	3
3. TEST RESULTS & COMPATIBILITY LIST	5

1. General Information

The following statement is dealing with the topic of the compatibility of Microsoft Updates in combination with a dedicated version of the zenon software platform. No 3rd party products or technologies are covered by this statement. Please take note of the general "System Requirements" and the "Release Notes" delivered with each zenon version before applying the information of this statement. Additional information and considerations about the proper patching of system including zenon components can be found inside the zenon security guide.

In principle, it is recommended that the operating system is always kept current and that security updates are considered as soon as they become available. At a minimum, a risk assessment should be made for the vulnerabilities addressed in the corresponding updates in order to establish if and how these vulnerabilities apply to the overall system. As no environment, no zenon project and no configuration is the same, we strongly recommend verification of the system function of zenon, zenon logic and the zenon report engine, in a realistic test environment, after the installation of updates. Installation of updates in production environments should be planned carefully and contingency plans with rollback options should be in place, in case of any unforeseen issues.

Check in time to see what it means for the systems in your company if an operating system is discontinued and consequently no more security updates are provided by the manufacturer. Plan operating system upgrades for systems carefully and check the systems in a test environment. The current version of zenon always supports the operating systems available at the time of release and allows the conversion of older zenon projects to the respective current version. Systems that cannot be updated may need to be isolated to mitigate the risk of known security vulnerabilities and further measures may need to be taken to increase the security of such systems.

2. Compatibility Test Setup & Definitions

The main target of this security related QA activity is to automatically test the compatibility for a dedicated zenon software platform version after the release of Microsoft security or functional updates. In the actual definition of the scenario the following Microsoft® products are considered for the impact testing:

- Windows Operating System
- Microsoft® SQL Server (in the version delivered with the zenon software platform setup)

The QA Team therefore maintains a set of Virtual Machines with various base OS versions. These systems are automatically updated after the official release of a Windows Patch Release by Microsoft. Additionally, the latest zenon build version is deployed to this set of virtual machines. The software deployment is performed by the standard zenon platform setup routine in silent mode. This statement therefore covers the following zenon Version:

zenon 10.0 Build 100998

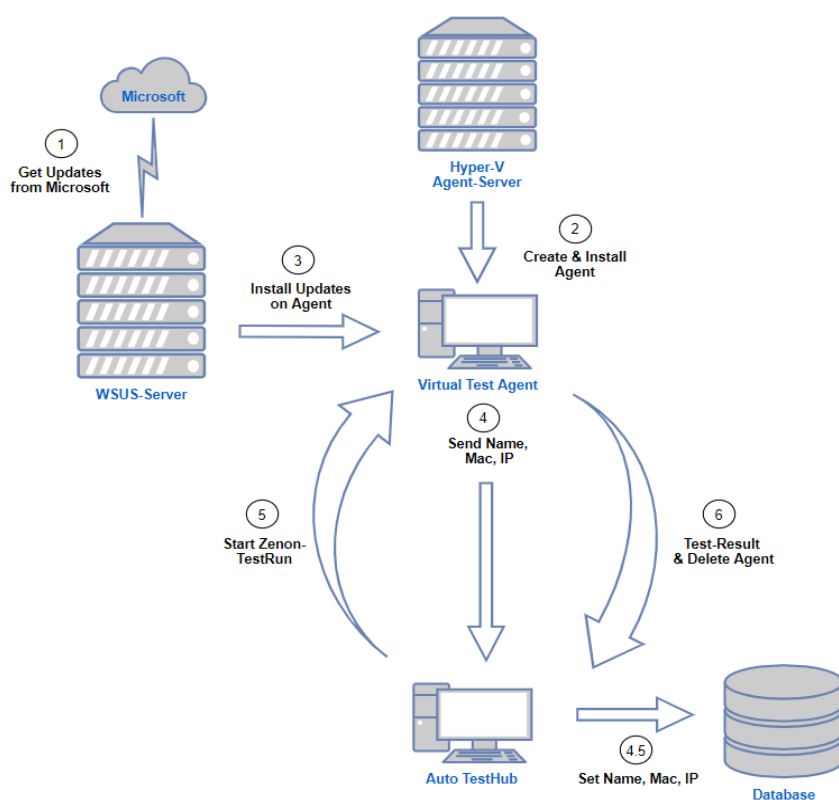
zenon 11.0 Build 101682

A typical impact test is running through three major stages:

1. The first part consists of the automatic deployment of Windows & zenon Patches as described above. Typically, this operation is supported using a dedicated WSUS Server and additional PowerShell scripts.
2. In a second step, virtual test agents are automatically deployed, configured and executed. A predefined standardized test procedure is executed, validating the proper operation of the core zenon software platform components.
3. Finally, based on the results of the test agents, a standardized documentation based on the requirements of the IEC 62443-2-3 Annex A is automatically generated. The result file is

automatically sent by e-mail to the Security Management Team at COPA-DATA for further distribution.

The following illustrations gives an overview of the described Security related QA process:



3. Test Results & Compatibility List

Test Date	Microsoft OS	Test Version	KB Version	CD product	zenon version	Test result
13.07.2022	Microsoft Windows 10 Pro for Workstations	2004 19041.1415	KB5008212 KB5007289 KB5007273 KB5007115 KB5006120 KB4577586 KB4557968 KB4545706 KB4537759 KB4534170	zenon	10.0 Build 100998 11.0 Build 101682	Passed
13.07.2022	Microsoft Windows 10 Pro for Workstations	20H2 19042.1706	KB5014032 KB5013942 KB5013624 KB5005716 KB5001405 KB4593175 KB4580325 KB4577586 KB4570334 KB4562830 KB 5015807	zenon	10.0 Build 100998 11.0 Build 101682	Passed
13.07.2022	Microsoft Windows 10 Pro for Workstations	21H2 19044.1706	KB5014699 KB5014035 KB5014032 KB5013887 KB5011651 KB5005716 KB5003791 KB5001405 KB4593175 KB4580325 KB4577586 KB4570334 KB4562830 KB 5015807	zenon	10.0 Build 100998 11.0 Build 101682	Passed
13.07.2022	Microsoft Windows 11 Pro	21H2 22000.739	KB5014697 KB5014034 KB5013889 KB5010690 KB5008295 KB5007040 KB5015814	zenon	10.0 Build 100998 11.0 Build 101682	Passed
13.07.2022	Microsoft Windows Server 2019 Standard	1809 17763.3046	KB5014692 KB5014031 KB5013892 KB5012675 KB5011574	zenon	10.0 Build 100998 11.0 Build 101682	Passed

			KB4589208 KB4577586 KB4535680 KB4486153 KB5015811			
13.07.2022	Microsoft Windows Server 2016 Standard	1607 14393.5192	KB5014702 KB5014026 KB5011570 KB4589210 KB4535680 KB4486129 KB4054590 KB4049065	zenon	10.0 Build 100998 11.0 Build 101682	Passed
13.07.2022	Microsoft Windows Server 2022 Standard	21H2 20348.768	KB5014678 KB5014030 KB5013890 KB5015827	zenon	10.0 Build 100998 11.0 Build 101682	Passed



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