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## CERTIFICATION REPORT

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File: 2016-41 SolarWinds Orion Suite for Federal Government V2.0

Applicant: SolarWinds Worldwide, LLC

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References:

[EXT-3152] Certification request.

[EXT-3457] Evaluation Technical Report.

The product documentation referenced in the above documents.

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Certification report of the product SolarWinds Orion Suite for Federal Government V2.0, as requested in [EXT-3152] dated 15/09/2017, and evaluated by the laboratory Applus Laboratories, as detailed in the Evaluation Technical Report [EXT-3457] received on 20/06/2017.



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## **EXECUTIVE SUMMARY**

This document constitutes the Certification Report for the certification file of the product SolarWinds Orion Suite for Federal Government V2.0.

The SolarWinds Orion 2.0 suite is a set of software applications and services executing on one or more Windows servers. The applications monitor a configured set of network-attached devices and applications for status, performance and configuration settings. Depending on the size of the network, multiple instances of the applications may be deployed on different servers to provide adequate performance. For enhanced availability and robustness, a failover configuration may be deployed.

**Developer/manufacturer:** SolarWinds Worldwide, LLC.

**Sponsor:** SolarWinds Worldwide, LLC.

**Certification Body:** Centro Criptológico Nacional (CCN) del Centro Nacional de Inteligencia (CNI).

**ITSEF:** Applus Laboratories.

**Protection Profile:** None.

**Evaluation Level:** Common Criteria v3.1 R4 - EAL2+ALC\_FLR.2.

**Evaluation end date:** 16 June 2017.

All the assurance components required by the evaluation level EAL2 (augmented with ALC\_FLR.2) have been assigned a “PASS” verdict. Consequently, the laboratory Applus Laboratories assigns the “PASS” VERDICT to the whole evaluation due all the evaluator actions are satisfied for the EAL2+ALC\_FLR.2, as defined by the Common Criteria v3.1 R4 and the CEM v3.1 R4.

Considering the obtained evidences during the instruction of the certification request of the product SolarWinds Orion Suite for Federal Government V2.0, a positive resolution is proposed.

## **TOE SUMMARY**

The Orion 2.0 software suite acts as a monitoring and management tool for use by network managers. It maintains a list of the managed elements in the network, monitors their operation, and alerts the network managers to specified conditions. Managed elements are network devices (e.g. routers and switches), servers, storage devices or applications that can be monitored by standard mechanisms such as SNMP, ICMP, Syslog or WMI. NCM functionality may be used to track configuration changes on the network devices for products that are able to download a copy of their current configuration parameters.

Users interact with the TOE via multiple mechanisms. The EOC Web Console and Orion Web Console are provided for remote interaction with the EOC and Orion



functionality. Application programs to manage FoE (Failover Engine) operations may also be invoked from the Windows Start menu by authorized users.

## SECURITY ASSURANCE REQUIREMENTS

The product was evaluated with all the evidence required to fulfil the evaluation level EAL2 and the evidences required by the additional component ALC\_FLR.2, according to Common Criteria v3.1 R4.

ASE: Security Target Evaluation	ASE_INT.1. ST Introduction
	ASE.CCL.1. Conformance claims
	ASE_SPD.1. Security problem definition
	ASE_OBJ.2. Security objectives
	ASE_ECD.1. Extended component definition
	ASE_REQ.2. Derived security requirements
	ASE_TSS.1. TOE summary specification
ADV: Development	ADV_ARC.1. Security architecture
	ADV_FSP.2. Functional specification
	ADV_TDS.1. TOE design
AGC: Guidance documents	AGD_OPE.1. Operational user guidance
	AGD_PRE.1. Preparative procedures
ALC: Life cycle support	ALC_CMC.2. CM capabilities
	ALC_CMS.2. CM Scope
	ALC_DEL.1. Delivery
	ALC_FLR.2. Flaw remediation
ATE: Tests	ATE_COV.1. Coverage
	ATE_FUN.1. Functional tests
	ATE_IND.2. Independent testing
AVA: Vulnerability assessment	AVA_VAN.2. Vulnerability analysis



## SECURITY FUNCTIONAL REQUIREMENTS

The product security functionality satisfies the following functional requirements, according to the Common Criteria v3.1 R4:

FAU: Security audit	FAU_GEN.1. Security audit data generation
	FAU_SAR.1. Security audit review
	FAU_SAR.2. Security audit review
FIA: Identification and authentication	FIA_ATD.1. User attribute definition
	FIA_UAU.2. User authentication
	FIA_UAU.7. User authentication
	FIA_UID.2. User identification
	FIA_USB.1. User-subject binding
FMT: Security management	FMT_MTD.1. Management of TSF data
	FMT_SMF.1. Specification of management functions
	FMT_SMR.1. Security management roles
FNM: Network management	FNM_MDC.1. Monitor Data Collection
	FNM_ANL.1. Monitor Analysis
	FNM_RCT.1. Management React
	FNM_RDR.1. Restricted Data Review
	FNM_STG.1. Guarantee of Monitor Data Availability
FPT: Protection of the TSF	FPT_FLS.1. Fail secure
FRU: Resource utilisation	FRU_FLT.2. Fault tolerance
FTA: TOE access	FTA_SSL.3. Session locking and termination

## IDENTIFICATION

**Product:** SolarWinds Orion Suite for Federal Government V2.0

**Security Target:** SolarWinds Orion Software Security Target, version 1.4, March 4, 2017.

**Protection Profile:** None.

**Evaluation Level:** Common Criteria v3.1 R4 - EAL2+ALC\_FLR.2.



## **SECURITY POLICIES**

The use of the product SolarWinds Orion Suite for Federal Government V2.0 shall implement a set of security policies assuring the fulfilment of different standards and security demands.

The detail of these policies is documented in the Security Target. In short, it establishes the need of implementing organisational policies related to the following aspects.

### **Policy 01: P.ACCACT**

Users of the TOE shall be accountable for their actions within the TOE.

### **Policy 02: P.ACCESS**

All data collected and produced by the TOE shall only be used for authorized purposes.

### **Policy 03: P.ANALYZ**

Analytical processes and information to derive conclusions about element or network problems must be applied to data received from managed elements and appropriate notification to users generated.

### **Policy 04: P.DBMONITOR**

The Administrator shall monitor disk space usage of the databases used by the TOE and take proactive steps to protect against data loss. The TOE will be configured to monitor the databases and alert the Administrator to high disk usage levels.

### **Policy 05: P.DISCLOSURE**

Credentials passed between the TOE and remote users will be protected from disclosure.

### **Policy 06: P.HIGHAVAIL**

The TOE shall be able to continue providing all of its functionality to authorized users in a secure manner in the event of a failure of a single TOE component.

### **Policy 07: P.INTGTY**

Data collected and produced by the TOE shall be protected from modification.

### **Policy 08: P.MANAGE**

The TOE shall only be managed by authorized users.

### **Policy 09: P.PASSWORDS**

Passwords for User Accounts defined in the TOE are only configured by Administrators.



## **ASSUMPTIONS AND OPERATIONAL ENVIRONMENT**

The following assumptions are constraints to the conditions used to assure the security properties and functionalities compiled by the security target. These assumptions have been applied during the evaluation in order to determine if the identified vulnerabilities can be exploited.

In order to assure the secure use of the TOE, it is necessary to start from these assumptions for its operational environment. If this is not possible and any of them could not be assumed, it would not be possible to assure the secure operation of the TOE.

### **Assumption 01: A.ACCESS**

The TOE has access to all the IT System data it needs to perform its functions.

### **Assumption 02: A.ASCOPE**

The TOE is appropriately scalable to the IT Systems the TOE monitors.

### **Assumption 03: A.DATABASE**

Access to the database used by the TOE via mechanisms outside the TOE boundary is restricted to use by authorized users.

### **Assumption 04: A.ENVIRON**

The TOE will be located in an environment that provides physical security, uninterruptible power, and temperature control required for reliable operation.

### **Assumption 05: A. INSTALL**

The Administrator will install and configure the TOE according to the administrator guidance.

### **Assumption 06: A.NETWORK**

There will be a network that supports communication between distributed components of the TOE. This network functions properly.

### **Assumption 07: A.NOEVILADMIN**

Administrators are non-hostile and follow the administrator guidance when using the TOE. Administration is competent and on-going.

## **CLARIFICATIONS ON NON-COVERED THREATS**

The following threats do not suppose a risk for the product SolarWinds Orion Suite for Federal Government V2.0, although the agents implementing attacks have the attack potential according to the basic attack potential of EAL2+ALC\_FLR.2 and always fulfilling the usage assumptions and the proper security policies satisfaction.



For any other threat not included in this list, the evaluation results of the product security properties and the associated certificate, do not guarantee any resistance.

The threats covered by the security properties of the TOE are categorized below.

### **Threat 01: T.INTERCEPT**

An unauthorized network entity may intercept data exchanged between distributed TOE components to compromise the operation of the TOE or gain unauthorized access to TSF data.

### **Threat 02: T.MASQUERADE**

A user or process may masquerade as another entity in order to gain unauthorized access to data or TOE resources.

### **Threat 03: T.TSF\_COMPROMISE**

A user or process may cause, through an unsophisticated attack, TSF data to be modified.

### **Threat 04: T.UNIDENT\_ACTIONS**

The administrator may not have the ability to notice potential security violations such as attempts by users to gain unauthorized access to the TOE, thus limiting the administrator's ability to identify and take action against a possible security breach.

## **OPERATIONAL ENVIRONMENT FUNCTIONALITY**

The product requires the cooperation from its operational environment to fulfil some of the objectives of the defined security problem.

The security objectives declared for the TOE operational environment are categorized below.

### **Environment objective 01: OE.COMM**

The Operational Environment will protect communication between the TOE and systems outside the TOE boundary from disclosure.

### **Environment objective 02: OE.CRYPTO**

The Operational Environment will provide cryptographic functionality needed to provide confidentiality with the protocols used for communication with remote IT Systems.

### **Environment objective 03: OE.DATABASE**

Those responsible for the TOE must ensure that access to the TOE database via mechanisms outside the TOE boundary (e.g., DBMS) is restricted to authorized users only.

### **Environment objective 04: OE.DBMONITOR**





The Administrator shall monitor disk space usage of the databases used by the TOE and take proactive steps to protect against data loss. The TOE will be configured to monitor the databases and alert the Administrator to high disk usage levels.

#### **Environment objective 05: OE.ENVIRON**

The Administrator will install the TOE in an environment that provides physical security, uninterruptible power, and temperature control required for reliable operation.

#### **Environment objective 06: OE.INSTALL**

The Administrator will install and configure the TOE according to the administrator guidance.

#### **Environment objective 07: OE.INTROP**

The TOE is interoperable with the IT Systems it monitors.

#### **Environment objective 08: OE.NETWOKR**

The Administrator will install and configure a network that supports communication between the distributed TOE components. The administrator will ensure that this network functions properly.

#### **Environment objective 09: OE.NOEVILADMIN**

Administrators are non-hostile and follow the administrator guidance when using the TOE. Administration is competent and on-going.

#### **Environment objective 10: OE.SSL**

The Operational Environment will require incoming connections to the Orion Web Console and EOC Web Console to use SSL/TLS.

#### **Environment objective 11: OE.TIME**

The Operational Environment will provide reliable timestamps.

#### **Environment objective 12: OE.WINDOWSACCESS**

Users invoking the Orion Server functionality via Windows application programs must successfully perform identification and authentication functions with Windows first, and access to the applications that invoke ORION Server functionality must be limited to users authorized to invoke TOE management functionality.

The details of the product operational environment (assumptions, threats and organisational security policies) and the TOE security requirements are included in the associated security target.

## **ARCHITECTURE**

### **LOGICAL ARCHITECTURE**

The TOE subsystems fall into one of three categories:



1. Orion monitoring and management subsystems (consisting of the subsystems associated with NPM, SAM, NCM, NTA, IPAM, VNQM, UDT, SRM, and WPM).
2. The FoE subsystem for monitoring and synchronizing of EOC and/or Orion applications and servers
3. EOC subsystems for aggregation of information from multiple Orion Servers

## PHYSICAL ARCHITECTURE

The TOE consists of the SolarWinds Orion 2.0 software identified in the previous section executing on multiple dedicated Windows servers:

1. EOC Server - EOC installed on a dedicated server.
2. Orion Server - Orion Suite components (other than EOC) installed on a dedicated server. Any combination of components may be installed with each instance. Any combination is generically referred to as an Orion Server.
3. Failover Server – FoE components are installed on a dedicated secondary server(s) as well as on primary EOC Servers or Orion Servers. The passive server monitors the health of the active EOC Server or Orion Server, and the passive server automatically assumes the active role of any failed server. The components on the active EOC Server or Orion Server ensure that data files required by the passive EOC Server or Orion Server are supplied to the passive server for replication.

The physical architecture of the TOE is depicted in the figure below, with TOE components shaded. The operating systems (including the network protocol stacks and cryptographic functionality), web servers and DBMS are outside the TOE boundary.



Orion Server	EOC Server	DBMS Server
NPM, SAM, NCM, NTA, IPAM, VNQM, UDT, WPM, SRM, FoE	EOC, FoE	DBMS
IIS and network protocol services	IIS and network protocol services	Network protocol services
Windows OS	Windows OS	Windows OS
Server Hardware	Server Hardware	Server Hardware

## DOCUMENTS

The product includes the last version of the following documents that shall be distributed and made available together to the users of the evaluated version.

1. SolarWinds® Enterprise Operations Console Administrator Guide (OrionEOCAdministratorGuide.pdf)
2. SolarWinds® Orion® Common Components Version 2016.1 Administrator Guide (OrionCoreAdministratorGuide.pdf)
3. SolarWinds® Orion® Network Performance Monitor Version 12.0.1 Administrator Guide (OrionNPMAdministratorGuide.pdf)
4. SolarWinds® Server & Application Monitor Version 6.3 Administrator Guide (SAMAdminGuide.pdf)
5. SolarWinds® Network Configuration Manager Administrator Guide 7.5.1 (OrionNCMAdministratorGuide.pdf)
6. SolarWinds® IP Address Manager Version 4.3.2 Administrator Guide (OrionIPAMAdministratorGuide.pdf)
7. SolarWinds® NetFlow Traffic Analyzer Version 4.2.1 Administrator Guide (NetFlowAdministratorGuide.pdf)
8. SolarWinds® User Device Tracker Version 3.2.4 Administrator Guide (UDTAdministratorGuide.pdf)
9. SolarWinds® Orion® VoIP and Network Quality Manager Administrator Guide (VNQMAdministratorGuide.pdf)



10. SolarWinds® Web Performance Monitor Administrator Guide (WPMAAdminGuide.pdf)
11. SolarWinds Storage Resource Monitor User Guide Version 6.3 (SRM\_UserGuide\_6.3.pdf)
12. SolarWinds® Failover Engine v6.7 Administrator Guide (OrionFailoverEngineAdministratorGuide.pdf)
13. SolarWinds® Technical Reference Orion® Failover Installation Walkthrough (Failoverinstallwalkthrough.pdf)
14. SolarWinds® Technical Reference Preparing an Orion® Failover Engine Installation (PreparingOrionFailoverEngineInstallation.pdf)
15. SolarWinds® Orion® Suite for Federal Government Version 2.0 Common Criteria Supplement (OrionCommonCriteriaSupplement.pdf)
16. 16. SolarWinds® Server & Application Monitor Version 6.3 Getting Started Guide Part 1 of 2: Get Started (SAM\_6.3\_Getting\_Started\_1\_and\_2\_Get\_Started.pdf)
17. SolarWinds Failover Engine v6.7 Installation on Windows server 2012 When the Secondary Server is Virtual (SW-FoE-v6-7-WS12-Virtual-Sec.pdf)

All guidance documentation is distributed as PDF files. Core product guidance documentation (items 1 through 12 above) is distributed within the component download files listed above. Technical References (items 13 and 14 above) are downloaded from the Knowledgebase of the SolarWinds Customer Portal.

## **PRODUCT TESTING**

The developer established a testing approach in order to test the main functionalities of the most important subsystems and security mechanisms of TOE. In doing so, the test performed covered all TSFIs but two (Orion Report Writer and Netflow) and all the SFRs except for FTA\_SSL.3. However, these TSFIs and SFRs have been tested as part the independent testing plan done by the evaluator.

All the tests have been performed by the developer in its premises, with a satisfactory result. During the evaluation process it has been verified each unit test checking that the security functionality that covers is identified and also that the kind of test is appropriate to the function that is intended to test.

All the tests were developed using the testing scenario appropriate to the architecture defined in the security target. It has also been checked that the obtained results during the tests fit or correspond to the previously estimated results.

The evaluator has executed a set of test over a sampling of the developer's testing plan by considering the following factors:



- SFRs.
- TSFIs.
- Subsystems.
- Specially complex or critical interfaces.
- Interfaces on which there are doubts about its operation.
- Developer testing effort.

In terms of security, the approach taken has been to prioritize the coverage of SFRs that have not been tested or that have a big implication in the overall security of the TSF data.

It has been checked that the obtained results conform to the expected results.

## **EVALUATED CONFIGURATION**

The software and hardware requirements, as well as the referenced options are indicated below. Therefore, for the operation of the product SolarWinds Orion Suite for Federal Government V2.0 v it is necessary the disposition of the following software components:

- SolarWindsOrion Platform V2016.2.100
- Orion Network Performance Monitor v12.0.1 with NPM-v12.0.1-CCC-HotFix.
- Orion Server & Application Monitor v6.3.0.
- Orion Network Configuration Manager v7.5.1.
- Orion NetFlow Traffic Analyzer v4.2.1.
- Orion IP Address Manager v4.3.2.
- Orion Voice & Network Quality Manager v4.2.4.
- Orion User Device Tracker v3.2.4.
- Orion Web Performance Monitor v2.2.1.
- Orion Storage Resource Monitor v6.3.0.
- Orion Enterprise Operations Console v1.6.3.
- Orion Failover Engine v6.7.0.

Regarding the non-TOE hardware components, the only requirement is that they shall support the software elements previously detailed.

Among all the possibilities offered by these software and hardware requirements, the configuration selected for the evaluation is the following:

1. One instance of the EOC, installed on a dedicated Windows server.
2. One or more instances of the Orion Server, each installed on a dedicated Windows server. Each Orion Server has NPM, SAM, NCM, NTA, IPAM, UDT, SRM, WPM and VNQM installed. FoE is installed, therefore the Orion Servers must be installed in redundant pairs. Note that SRM consists of the SRM Orion Module and the SRM Profiler Module. Only the Orion Module is included in the evaluation; the Profiler Module is used for integration with a separate product (Storage Manager) that is not included in the evaluation.



3. For each instance of the Orion Server, a database (and DBMS) is installed on a separate dedicated Windows server.

The following installation and configuration options must be used:

1. IIS on all the dedicated Windows servers hosting TOE components is configured to accept HTTPS connections only.
2. The SolarWinds Toolset optional component is not installed.
3. Session timeouts are not disabled for user accounts, and the Session Timeout for web users is configured as a non-zero value.
4. Windows Account Login is not enabled for the Orion Web Console.
5. Enable Audit Trails is selected.
6. Access to the Windows applications to invoke the TOE is restricted in Windows to users authorized to perform those functions, in particular: backup and restore the database, manage TOE Alerts, manage FoE functionality, and manage Report configuration settings.
7. The Customize option is not configured for any menu bars for the Orion Web Console.
8. External web sites are not added to Orion Web Console views.
9. The "Check for product updates" function is disabled. Installing updates may update the component to a version that has not been evaluated.
10. Custom device pollers are not configured or evaluated. Pollers supplied with the TOE are included in the evaluation.
11. Custom component monitors are not configured or evaluated. Component monitors supplied with the TOE are included in the evaluation.
12. Custom property functionality is not configured or evaluated. Built-in properties are included in the evaluation and may be used to configure View limitations.
13. Advanced Alerts are not configured or evaluated. Basic Alerts are included in the evaluation.
14. Customized Views are not configured on the Orion Web Console.
15. View Limitations are not configured.
16. Custom account limitations are not configured.
17. The functionality to remotely manage interfaces in Network Devices is not evaluated.
18. Custom IPAM roles are not defined; the built-in IPAM roles are used exclusively.
19. Properties of IPAM-specific entities are not used to delegate access.



20. The SAM and WPM components allow for separately-configurable roles. The evaluated configuration requires the SAM and WPM component-specific roles to be configured the same as the Orion role (Administrator or User).
21. The NTA Database Maintenance option is enabled in order to have the TOE automatically compress and purge data according to the configured periods.
22. When importing User Accounts into the TOE, only individual accounts are imported. Windows Group Accounts are not imported.
23. Only Administrators assign passwords for User Accounts defined in the TOE. Non-Administrators are not permitted to change their own passwords.
24. The Orion Server Browser Integration parameter is not enabled for User Accounts, since the operations performed via this integration are outside the control of the TOE.
25. Reports are managed via the Orion Web Console rather than the Report Writer Windows application (legacy).
26. Custom NCM device templates are not configured or evaluated. The default device templates supplied with the TOE are included in the evaluation.
27. Custom Configuration Change Templates are not configured or evaluated. The default configuration change templates supplied with the TOE are included in the evaluation.
28. Real-time config change notification is not enabled in NCM since it is dependent on additional software beyond the scope of the evaluated components.
29. Per-device credentials are used rather than per-user device credentials.
30. The Allow User To Personalize Their Pages permission is not set for any EOC user accounts. Therefore, only the default page views are included in the evaluation.
31. If TFTP is used to exchange configuration files with Nodes, the TFTP service is restricted to requests from authorized Nodes.

## **EVALUATION RESULTS**

The product SolarWinds Orion Suite for Federal Government V2.0 has been evaluated against the Security Target SolarWinds Orion Software Security Target, version 1.4, March 15, 2017.

All the assurance components required by the evaluation level EAL2+ALC\_FLR.2 have been assigned a “PASS” verdict. Consequently, the laboratory Applus Laboratories assigns the “**PASS**” **VERDICT** to the whole evaluation due all the evaluator actions are satisfied for the evaluation level EAL2+ALC\_FLR.2, as defined by the Common Criteria v3.1 R4 and the CEM v3.1 R4.



## **COMMENTS & RECOMMENDATIONS FROM THE EVALUATION TEAM**

Next, recommendations regarding the secure usage of the TOE are provided. These have been collected along the evaluation process and are detailed to be considered when using the product.

The fulfilment of the assumptions indicated in the security target is a key point as it implies TOE environment configurations that leave some potential vulnerabilities out of the scope.

### **CERTIFIER RECOMMENDATIONS**

Considering the obtained evidences during the instruction of the certification request of the product SolarWinds Orion Suite for Federal Government V2.0, a positive resolution is proposed.

### **GLOSSARY**

CCN	Centro Criptológico Nacional
CNI	Centro Nacional de Inteligencia
EAL	Evaluation Assurance Level
ETR	Evaluation Technical Report
OC	Organismo de Certificación
TOE	Target Of Evaluation

### **BIBLIOGRAPHY**

The following standards and documents have been used for the evaluation of the product:

[CC\_P1] Common Criteria for Information Technology Security Evaluation Part 1: Introduction and general model, Version 3.1, R4 Final, September 2012.

[CC\_P2] Common Criteria for Information Technology Security Evaluation Part 2: Security functional components, Version 3.1, R4 Final, September 2012.

[CC\_P3] Common Criteria for Information Technology Security Evaluation Part 3: Security assurance components, Version 3.1, R4 Final, September 2012.

[CEM] Common Methodology for Information Technology Security Evaluation: Version 3.1, R4 Final, September 2012.





## SECURITY TARGET

Along with this certification report, the complete security target of the evaluation is available in the Certification Body: SolarWinds Orion Software Security Target, version 1.4, March 15, 2017.

There isn't an available Security Target lite version of this evaluation.