# **National Information Assurance Partnership**

# Common Criteria Evaluation and Validation Scheme



# **Validation Report**

# Aruba, a Hewlett Packard Enterprise Company

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Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series

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#### **ACKNOWLEDGEMENTS**

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# 1 Executive Summary

This report documents the assessment of the National Information Assurance Partnership (NIAP) validation team of the evaluation of Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series solution provided by Hewlett Packard Enterprise Company. It presents the evaluation results, their justifications, and the conformance results. This Validation Report is not an endorsement of the Target of Evaluation by any agency of the U.S. government, and no warranty is either expressed or implied.

The evaluation was performed by the Gossamer Security Solutions (Gossamer) Common Criteria Testing Laboratory (CCTL) in Catonsville, MD, United States of America, and was completed in October 2018. The information in this report is largely derived from the proprietary Evaluation Technical Report (ETR) and associated test reports, all written by Gossamer Security Solutions and summarized in the publicly available Assurance Activity Report (AAR) for this evaluation. The evaluation determined that the product is both Common Criteria Part 2 Extended and Part 3 Conformant, and meets the assurance requirements of the collaborative Protection Profile for Network Devices, Version 2.0 + errata 20180314, 14 March 2018.

The Target of Evaluation (TOE) is the Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series running ArubaOS-CX version 10.01.

The Target of Evaluation (TOE) identified in this Validation Report has been evaluated at a NIAP approved Common Criteria Testing Laboratory using the Common Methodology for IT Security Evaluation (Version 3.1, Rev 4) for conformance to the Common Criteria for IT Security Evaluation (Version 3.1, Rev 4). This Validation Report applies only to the specific version of the TOE as evaluated. The evaluation has been conducted in accordance with the provisions of the NIAP Common Criteria Evaluation and Validation Scheme and the conclusions of the testing laboratory in the evaluation technical report are consistent with the evidence provided.

The validation team monitored the activities of the evaluation team, provided guidance on technical issues and evaluation processes, and reviewed the individual work units and successive versions of the ETR. The validation team found that the evaluation showed that the product satisfies all of the functional requirements and assurance requirements stated in the Security Target (ST). Therefore the validation team concludes that the testing laboratory's findings are accurate, the conclusions justified, and the conformance results are correct. The conclusions of the testing laboratory in the evaluation technical report are consistent with the evidence produced.

The technical information included in this report was obtained from the Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series (NDcPP20E) Security Target, Version 0.3, October 22, 2018 and analysis performed by the Validation Team.

#### 2 Identification

The CCEVS is a joint National Security Agency (NSA) and National Institute of Standards and Technology (NIST) effort to establish commercial facilities to perform trusted product

evaluations. Under this program, security evaluations are conducted by commercial testing laboratories called Common Criteria Testing Laboratories (CCTLs) using the Common Evaluation Methodology (CEM) in accordance with National Voluntary Laboratory Assessment Program (NVLAP) accreditation.

The NIAP Validation Body assigns validators to monitor the CCTLs to ensure quality and consistency across evaluations. Developers of information technology products desiring a security evaluation contract with a CCTL and pay a fee for their product's evaluation. Upon successful completion of the evaluation, the product is added to NIAP's Validated Products List.

Table 1 provides information needed to completely identify the product, including:

- The Target of Evaluation (TOE): the fully qualified identifier of the product as evaluated.
- The Security Target (ST), describing the security features, claims, and assurances of the product.
- The conformance result of the evaluation.
- The Protection Profile to which the product is conformant.
- The organizations and individuals participating in the evaluation.

**Table 1: Evaluation Identifiers** 

Table 1: Evaluation Identifiers				
Item	Identifier			
<b>Evaluation Scheme</b>	United States NIAP Common Criteria Evaluation and Validation Scheme			
TOE	Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series running ArubaOS-CX version 10.01 (Specific models identified in Section 3.1)			
<b>Protection Profile</b>	collaborative Protection Profile for Network Devices, Version 2.0 + errata 20180314, 14 March 2018			
ST	Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series (NDcPP20E) Security Target, Version 0.3, October 22, 2018			
Evaluation Technical Report	Evaluation Technical Report for Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series, Version 0.2, October 25, 2018			
CC Version	Common Criteria for Information Technology Security Evaluation, Version 3.1, rev 4			
<b>Conformance Result</b>	CC Part 2 extended, CC Part 3 conformant			
Sponsor	Aruba, a Hewlett Packard Enterprise Company			
Developer	Aruba, a Hewlett Packard Enterprise Company			
Common Criteria Testing Lab (CCTL)	Gossamer Security Solutions, Inc.			
<b>CCEVS Validators</b>	Meredith Hennan, Kenneth Stutterheim			

#### 3 Architectural Information

Note: The following architectural description is based on the description presented in the Security Target.

The Target of Evaluation (TOE) is Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series running ArubaOS-CX version 10.01.

The TOE offers a comprehensive Layer 2 and Layer 3 feature set including BGP, OSPF, VRF, and IPv6 functionalities. The HPE Aruba 8320 and 8400 Switch Series provides security, scalability, and ease of use for enterprise edge deployments.

#### 3.1 TOE Evaluated Platforms

The evaluated configuration consists of the following models running ArubaOS-CX version 10.01:

Series Identifier	Hardware Models
Aruba 8320	JL479A – Aruba 8320 48p 10G SFP/SFP+ and 6p 40G QSFP+ Switch
Switch Series	JL579A - Aruba 8320 32p 40G QSFP+ Switch
	JL581A - Aruba 8320 48p 1G/10GBase-T and 6p 40G QSFP+ Switch
Aruba 8400	JL376A – Aruba 8400 Bundle includes:
Switch Series	<ul> <li>JL375A – Aruba 8400 8-slot chassis</li> </ul>
	<ul> <li>JL363A – Aruba 8400 32p 10G SFP+ MACsec</li> </ul>
	<ul> <li>JL365A – Aruba 8400 8p 40G QSFP+ Adv Module</li> </ul>
	<ul> <li>JL367A – Aruba 7.2Tbps Fabric Module</li> </ul>
	JL368A – Management Module
	JL366A – Aruba 8400 6p 40G/100G QFSP 28p Adv Module

#### 3.2 TOE Architecture

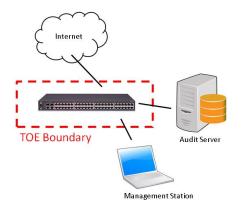
The underlying architecture of each TOE appliance consists of hardware that supports physical network connections, memory, processor and software that implements switching functions, configuration information and drivers. While hardware varies between different appliance models, the software code is shared across all platforms. It is in the software code that all the security functions claimed in this security target are enforced.

# 3.3 Physical Boundaries

Each TOE appliance runs a version of the ArubaOS-CX 10.01 software and has physical network connections to its environment to facilitate the switching of network traffic. The TOE appliance can also be the destination of network traffic, where it provides interfaces for its own management.

The TOE may be accessed and managed through a PC or terminal in the environment which can be remote from or directly connected to the TOE.

The TOE can be configured to forward its audit records to an external SYSLOG server in the network environment.



# 4 Security Policy

This section summaries the security functionality of the TOE:

- 1. Security audit
- 2. Cryptographic support
- 3. Identification and authentication
- 4. Security management
- 5. Protection of the TSF
- 6. TOE access
- 7. Trusted path/channels

### 4.1 Security audit

The TOE is able to generate logs for a wide range of security relevant events. The TOE can be configured to store the logs locally so they can be accessed by an administrator and also to send the logs to a designated log server using SSH to protect the logs while in transit on the network. Once configured to export audit records, the TOE attempts to transmit all logs in real-time, will temporarily maintain unsent records in the event of a disrupted syslog connection, and send those records when the remote audit server successfully reestablishes the connection.

# 4.2 Cryptographic support

The TOE provides CAVP certified cryptography in support of its SSHv2 protocol implementation. Cryptographic services include key management, random bit generation, encryption/decryption, digital signature and secure hashing.

#### 4.3 Identification and authentication

The TOE requires users to be identified and authenticated before they can use functions mediated by the TOE, with the exceptions of passing network traffic in accordance with its configured switching rules and the reading of the login banner. It provides the ability to assign attributes (user names, passwords and roles) and to authenticate users against those attributes.

#### 4.4 Security management

The TOE provides Command Line Interface (CLI) commands to access the wide range of security management functions to manage its security policies. All administrative activity and functions including security management commands are limited to authorized users (i.e., administrators) only after they have provided acceptable user identification and authentication data to the TOE. The security management functions are controlled through the use of roles that can be assigned to TOE users. The TOE supports the following roles: Administrators and Operators. The Administrators role can make changes to the TOE configuration while the Operators role is a read-only role.

#### 4.5 Protection of the TSF

The TOE implements measures to protect the integrity of its security features. The TOE protects stored passwords and cryptographic keys so they are not directly accessible in plaintext. The TOE also ensures that reliable time information is available for both log accountability and synchronization with the operating environment. The TOE employs both dedicated communication channels as well as cryptographic means to protect communication between itself and other components in the operation environment. The TOE performs self-tests to detect failure and protect itself from malicious updates.

#### 4.6 TOE access

The TOE can be configured to display a logon banner before and after (a post-login banner) a user session is established. The TOE also enforces inactivity timeouts for local and remote sessions.

# 4.7 Trusted path/channels

The TOE protects interactive communication with administrators using SSH to protect the CLI interface, ensuring integrity and preventing disclosure. If the negotiation of an encrypted session fails or if the user does not have authorization for remote administration, an attempted connection will not be established.

The TOE protects communication with network peers, such as a log server using SSH connections to prevent unintended disclosure or modification of logs.

# 5 Assumptions

The Security Problem Definition, including the assumptions, may be found in the following documents:

• collaborative Protection Profile for Network Devices, Version 2.0 + errata 20180314, 14 March 2018

That information has not been reproduced here and the NDcPP20E should be consulted if there is interest in that material.

The scope of this evaluation was limited to the functionality and assurances covered in the NDcPP20E as described for this TOE in the Security Target. Other functionality included in the product was not assessed as part of this evaluation. All other functionality provided by the devices needs to be assessed separately, and no further conclusions can be drawn about their effectiveness.

# 6 Clarification of Scope

All evaluations (and all products) have limitations, as well as potential misconceptions that need clarification. This text covers some of the more important limitations and clarifications of this evaluation. Note that:

- As with any evaluation, this evaluation only shows that the evaluated configuration meets the security claims made with a certain level of assurance (the assurance activities specified in the collaborative Protection Profile for Network Devices and performed by the evaluation team).
- This evaluation covers only the specific device models and software as identified in this document, and not any earlier or later versions released or in process.
- This evaluation did not specifically search for, nor attempt to exploit, vulnerabilities that were not "obvious" or vulnerabilities to objectives not claimed in the ST. The CEM defines an "obvious" vulnerability as one that is easily exploited with a minimum of understanding of the TOE, technical sophistication and resources.
- The functionality evaluated is scoped exclusively to the security functional requirements specified in the NDcPP20E and applicable Technical Decisions. Any additional security related functional capabilities of the TOE were not covered by this evaluation.

#### 7 **Documentation**

The following documents were available with the TOE for evaluation:

 Common Criteria Admin Guide Network Device Collaboration Protection Profile, Target of Evaluation: Aruba 8320 and 8400 Switch Series, Version 1.1, October 24, 2018

To use the product in the evaluated configuration, the product must be configured as specified in that guide. Any additional customer documentation provided with the product, or that which may be available online was not included in the scope of the evaluation and therefore should not be relied upon to configure or operate the device in its evaluated configuration. Consumers are encouraged to download the CC configuration guide from the NIAP website to ensure the device is configured as evaluated.

# 8 IT Product Testing

This section describes the testing efforts of the developer and the Evaluation Team. It is derived from information contained in the Assurance Activity Report (NDcPP20E) for Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series, version 0.2,

October 25, 2018 (AAR). The AAR shows the test configuration, provides the tested platforms and lists the test tools.

### 8.1 Developer Testing

No evidence of developer testing is required in the assurance activities for this product.

#### 8.2 Evaluation Team Independent Testing

The evaluation team verified the product according a Common Criteria Certification document and ran the tests specified in the NDcPP20E and the Supporting Document, Evaluation Activities for Network Device cPP Version 2.0 + Errata 20180314, March, 2018, including the tests associated with optional requirements.

#### **8.3** Test Software

- Ubuntu 16.04.3 LTS
- Openssh-client version 7.2p2
- Big Packet Putty version 6.2
- Nmap version 7.01
- Tcpdump version 4.9.2
- Libpcap version 1.7.4
- Openssl version 1.0.2g
- Rsyslog version 8.16.0
- Wireshark version 2.4.2
- Putty version 0.68 (used to connect to device console and Ubuntu environment)
- HxD (Hexeditor) version 1.7.7.0

#### **8.4** Test Environment

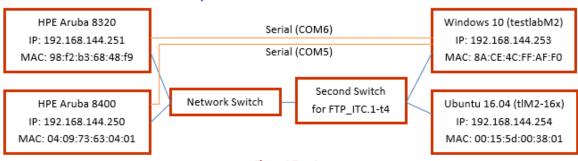


Figure 1 Test Setup

# 9 Evaluated Configuration

The evaluated configuration consists of the following series and models running ArubaOS-CX version 10.01:

Series Identifier	Hardware Models
Aruba 8320	JL479A – Aruba 8320 48p 10G SFP/SFP+ and 6p 40G QSFP+ Switch
Switch Series	JL579A - Aruba 8320 32p 40G QSFP+ Switch
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Aruba 8400	JL376A – Aruba 8400 Bundle includes:
Switch Series	<ul> <li>JL375A – Aruba 8400 8-slot chassis</li> </ul>
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	<ul> <li>JL368A – Management Module</li> </ul>
	JL366A - Aruba 8400 6p 40G/100G QFSP 28p Adv Module

#### 10 Results of the Evaluation

The results of the assurance requirements are generally described in this section and are presented in detail in the proprietary ETR as characterized in the publicly available Assurance Activity Report for this evaluation. The reader of this document can assume that all assurance activities and work units received a passing verdict.

A verdict for an assurance component is determined by the resulting verdicts assigned to the corresponding evaluator action elements. The evaluation was conducted based upon CC version 3.1 rev 4 and CEM version 3.1 rev 4. The evaluation determined the Aruba 8320 and 8400 Switch Series TOE to be Part 2 extended, and to meet the SARs contained in the NDcPP20E.

# 10.1 Evaluation of the Security Target (ASE)

The evaluation team applied each ASE CEM work unit. The ST evaluation ensured the ST contains a description of the environment in terms of policies and assumptions, a statement of security requirements claimed to be met by the Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series products that are consistent with the Common Criteria, and product security function descriptions that support the requirements.

The validators reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

# **10.2** Evaluation of the Development (ADV)

The evaluation team applied each ADV CEM work unit. The evaluation team assessed the design documentation and found it adequate to aid in understanding how the TSF provides the security functions. The design documentation consists of a functional specification

contained in the Security Target and Guidance documents. Additionally the evaluator performed the assurance activities specified in the NDcPP20E related to the examination of the information contained in the TSS.

The validators reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

#### **10.3 Evaluation of the Guidance Documents (AGD)**

The evaluation team applied each AGD CEM work unit. The evaluation team ensured the adequacy of the user guidance in describing how to use the operational TOE. Additionally, the evaluation team ensured the adequacy of the administrator guidance in describing how to securely administer the TOE. The guide was assessed during the design and testing phases of the evaluation to ensure it was complete.

The validators reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

#### 10.4 Evaluation of the Life Cycle Support Activities (ALC)

The evaluation team applied each ALC CEM work unit. The evaluation team found that the TOE was identified.

The validators reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

### 10.5 Evaluation of the Test Documentation and the Test Activity (ATE)

The evaluation team applied each ATE CEM work unit. The evaluation team ran the set of tests specified by the assurance activities in the NDcPP20E and Supporting Document (SD) and recorded the results in a proprietary Detailed Test Report, as summarized in the publicly available AAR.

The validators reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

# 10.6 Vulnerability Assessment Activity (VAN)

The evaluation team applied each AVA CEM work unit. The vulnerability analysis is in the Detailed Test Report (DTR) prepared by the evaluator. The vulnerability analysis includes

a public search for vulnerabilities. The public search conducted on September 18, 2018 for vulnerabilities did not uncover any residual vulnerability.

The evaluator searched the following sources for vulnerabilities:

- National Vulnerability Database (https://web.nvd.nist.gov/vuln/search),
- Vulnerability Notes Database (http://www.kb.cert.org/vuls/),
- Rapid7 Vulnerability Database (https://www.rapid7.com/db/vulnerabilities),
- Tipping Point Zero Day Initiative (http://www.zerodayinitiative.com/advisories)
- Exploit / Vulnerability Search Engine (http://www.exploitsearch.net),
- SecurITeam Exploit Search (http://www.securiteam.com),
- Tenable Network Security (http://nessus.org/plugins/index.php?view=search),
- Offensive Security Exploit Database (https://www.exploit-db.com/)

Each site was searched using the following terms:

- TCP
- Yocto
- OpenSSL
- SSH
- Aruba 8320
- Aruba 8400

The validators reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

## **10.7 Summary of Evaluation Results**

The evaluation team's assessment of the evaluation evidence demonstrates that the claims in the ST are met. Additionally, the evaluation team's testing also demonstrated the accuracy of the claims in the ST.

The validation team's assessment of the evidence provided by the evaluation team is that it demonstrates that the evaluation team followed the procedures defined in the CEM, and correctly verified that the product meets the claims in the ST.

#### 11 Validator Comments/Recommendations

Administrators should take special note of the remote audit storage configuration. To comply with the evaluated configuration when logging with remote syslog server is required, the connection is secured using SSH reverse tunnel. Once configured to export audit records, the TOE attempts to transmit all logs in real-time, and will temporarily maintain unsent records in the event of a disrupted syslog connection, and send those records when the remote audit server successfully reestablishes the connection. Note that

the SSH reverse tunnel must be restarted from the audit server if the connection is unintentionally broken. There are three sources of audit on the switches. Administrators should ensure the configuration for audit meets the requirements imposed by their operational security requirements.

The switch includes a USB port to receive a flash drive for deploying, troubleshooting, backing up configurations, or updating switches. This port should be administratively disabled when not in use. The port can be temporarily enabled when needed and then immediately disabled after the required task is completed. Administrators should always disable the USB interface after use.

#### 12 Annexes

Not applicable

# 13 Security Target

The Security Target is identified as: Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series (NDcPP20E) Security Target, Version 0.3, October 22, 2018.

# 14 Glossary

The following definitions are used throughout this document:

- Common Criteria Testing Laboratory (CCTL). An IT security evaluation facility accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and approved by the CCEVS Validation Body to conduct Common Criteria-based evaluations.
- **Conformance**. The ability to demonstrate in an unambiguous way that a given implementation is correct with respect to the formal model.
- Evaluation. The assessment of an IT product against the Common Criteria using the Common Criteria Evaluation Methodology to determine whether or not the claims made are justified; or the assessment of a protection profile against the Common Criteria using the Common Evaluation Methodology to determine if the Profile is complete, consistent, technically sound and hence suitable for use as a statement of requirements for one or more TOEs that may be evaluated.
- **Evaluation Evidence**. Any tangible resource (information) required from the sponsor or developer by the evaluator to perform one or more evaluation activities.
- **Feature.** Part of a product that is either included with the product or can be ordered separately.
- **Target of Evaluation (TOE)**. A group of IT products configured as an IT system, or an IT product, and associated documentation that is the subject of a security evaluation under the CC.

- Validation. The process carried out by the CCEVS Validation Body leading to the issue of a Common Criteria certificate.
- Validation Body. A governmental organization responsible for carrying out validation and for overseeing the day-to-day operation of the NIAP Common Criteria Evaluation and Validation Scheme.

# 15 Bibliography

The Validation Team used the following documents to produce this Validation Report:

- [1] Common Criteria for Information Technology Security Evaluation: Part 1: Introduction and General Model, Version 3.1, Revision 4, September 2012.
- [2] Common Criteria for Information Technology Security Evaluation Part 2: Security functional components, Version 3.1, Revision 4, September 2012.
- [3] Common Criteria for Information Technology Security Evaluation Part 3: Security assurance components, Version 3.1 Revision 4, September 2102.
- [4] collaborative Protection Profile for Network Devices, Version 2.0 + errata 20180314, 14 March 2018.
- [5] Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series (NDcPP20E) Security Target, Version 0.3, October 22, 2018 (ST).
- [6] Assurance Activity Report (NDcPP20E) for Aruba, a Hewlett Packard Enterprise Company 8320 and 8400 Switch Series, Version 0.2, October 25, 2018 (AAR).
- [8] Common Criteria Admin Guide Network Device Collaboration Protection Profile, Target of Evaluation: Aruba 8320 and 8400 Switch Series, Version 1.1, October 24, 2018 (AGD)
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