



# Certification Report

## Tanium Platform 6.2

Issued by:

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**Canadian Common Criteria Evaluation and Certification Scheme**

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**DISCLAIMER**

The Information Technology (IT) product identified in this certification report, and its associated certificate, has been evaluated at an approved evaluation facility – established under the Canadian Common Criteria Evaluation and Certification Scheme (CCS) – using the *Common Methodology for Information Technology Security Evaluation, Version 3.1 Revision 4*, for conformance to the *Common Criteria for Information Technology Security Evaluation, Version 3.1 Revision 4*. This certification report, and its associated certificate, applies only to the identified version and release of the product in its evaluated configuration. The evaluation has been conducted in accordance with the provisions of the CCS, and the conclusions of the evaluation facility in the evaluation report are consistent with the evidence adduced. This report, and its associated certificate, are not an endorsement of the IT product by the Communications Security Establishment, or any other organization that recognizes or gives effect to this report, and its associated certificate, and no warranty for the IT product by the Communications Security Establishment, or any other organization that recognizes or gives effect to this report, and its associated certificate, is either expressed or implied.

## FOREWORD

The Canadian Common Criteria Evaluation and Certification Scheme (CCS) provides a third-party evaluation service for determining the trustworthiness of Information Technology (IT) security products. Evaluations are performed by a commercial Common Criteria Evaluation Facility (CCEF) under the oversight of the CCS Certification Body, which is managed by the Communications Security Establishment.

A CCEF is a commercial facility that has been approved by the CCS Certification Body to perform Common Criteria evaluations; a significant requirement for such approval is accreditation to the requirements of *ISO/IEC 17025:2005, the General Requirements for the Competence of Testing and Calibration Laboratories*. Accreditation is performed under the Program for the Accreditation of Laboratories - Canada (PALCAN), administered by the Standards Council of Canada.

The CCEF that carried out this evaluation is EWA-Canada.

By awarding a Common Criteria certificate, the CCS Certification Body asserts that the product complies with the security requirements specified in the associated security target. A security target is a requirements specification document that defines the scope of the evaluation activities. The consumer of certified IT products should review the security target, in addition to this certification report, in order to gain an understanding of any assumptions made during the evaluation, the IT product's intended environment, the evaluated security functionality, and the testing and analysis conducted by the CCEF.

This certification report is associated with the certificate of product evaluation dated 29 September 2015, and the security target identified in Section 4 of this report.

The certification report, certificate of product evaluation and security target are posted on the CCS Certified Products list (CPL) and the Common Criteria portal (the official website of the Common Criteria Project).

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## Executive Summary

Tanium Platform 6.2, from Tanium Inc., is the Target of Evaluation. The results of this evaluation demonstrate that Tanium Platform 6.2 meets the requirements of Evaluation Assurance Level (EAL) 2 augmented for the evaluated security functionality.

Tanium Platform 6.2 is a software TOE comprised of the Tanium Server and the Tanium Client. Tanium Platform 6.2 provides knowledge on the state of an enterprise environment using peer-to-peer communication. It retrieves and distributes information on enterprise networks, monitors and manages patching levels, security policies and software compliance. In addition, Tanium Platform 6.2 allows information to be retrieved by asking questions in plain English. FIPS 140-2 validated cryptography is used to protect the transfer of messages between the server and the client, and between the server and the Administrator.

EWA-Canada is the CCEF that conducted the evaluation. This evaluation was completed on 29 September 2015 and was carried out in accordance with the rules of the Canadian Common Criteria Evaluation and Certification Scheme (CCS).

The scope of the evaluation is defined by the security target, which identifies assumptions made during the evaluation, the intended environment for Tanium Platform 6.2, and the security functional/assurance requirements. Consumers are advised to verify that their operating environment is consistent with that specified in the security target, and to give due consideration to the comments, observations and recommendations in this certification report.

Communications Security Establishment, as the CCS Certification Body, declares that the Tanium Platform 6.2 evaluation meets all the conditions of the *Arrangement on the Recognition of Common Criteria Certificates* and that the product will be listed on the CCS Certified Products list (CPL) and the Common Criteria portal (the official website of the Common Criteria Project).

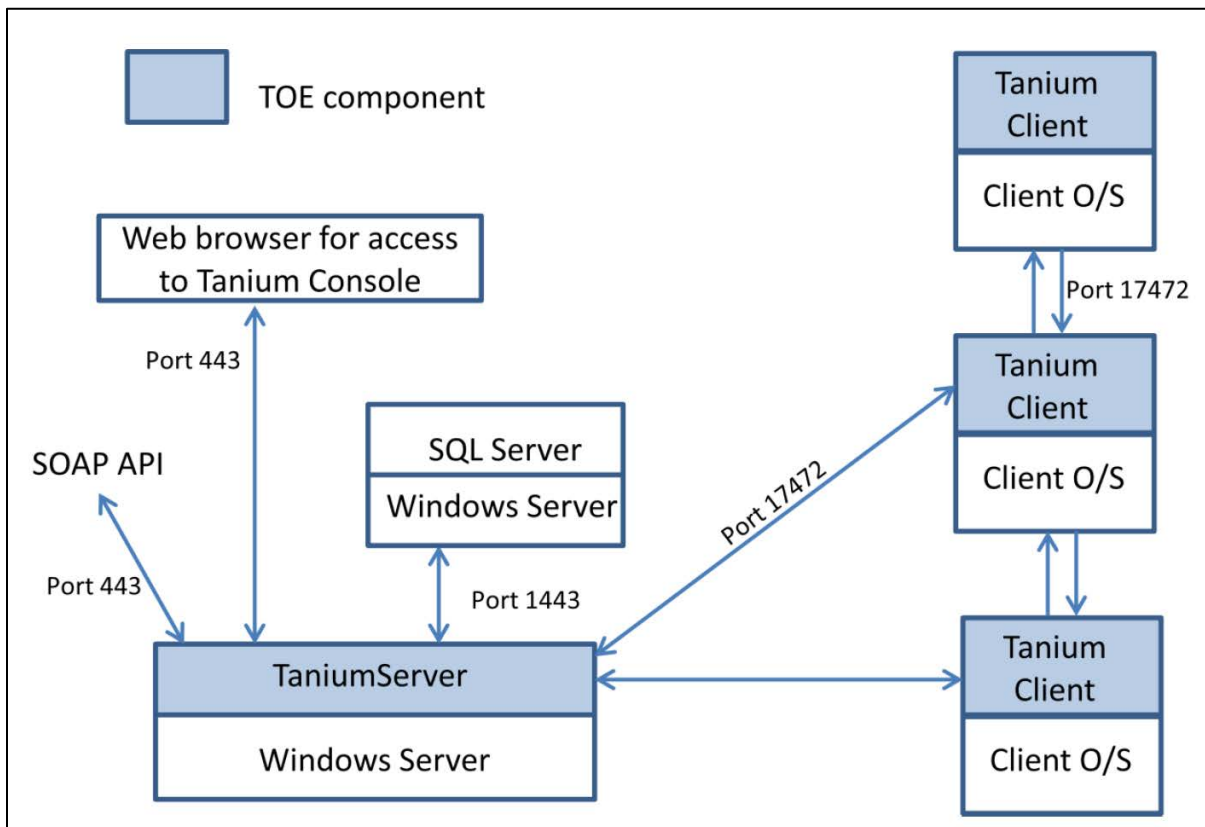
## 1 Identification of Target of Evaluation

The Target of Evaluation (TOE) for this EAL 2+ evaluation is Tanium Platform 6.2, from Tanium Inc..

## 2 TOE Description

Tanium Platform 6.2 is a software TOE comprised of the Tanium Server and the Tanium Client. Tanium Platform 6.2 provides knowledge on the state of an enterprise environment using peer-to-peer communication. It retrieves and distributes information on enterprise networks, monitors and manages patching levels, security policies and software compliance. In addition, Tanium Platform 6.2 allows information to be retrieved by asking questions in plain English. FIPS 140-2 validated cryptography is used to protect the transfer of messages between the server and the client, and between the server and the Administrator.

A diagram of the Tanium Platform 6.2 architecture is as follows:



## 3 Security Policy

Tanium Platform 6.2 implements a role-based access control policy to control administrative access to the system. In addition, Tanium Platform 6.2 implements policies pertaining to the following security functional classes:

- *Security Audit*
- *Cryptographic Support*
- *User Data Protection*
- *Security Management*
- *Identification and Authentication*
- *Resource Utilization*
- *Protection of the TOE Security Functionality*

The following cryptographic module was evaluated to the FIPS 140-2 standard:

<b>Cryptographic Module</b>	<b>Certificate</b>
Tanium Cryptographic Module Version 1.0 (TaniumCryptoLibrary.dll)	2736

## 4 Security Target

The ST associated with this Certification Report is identified below:

Tanium Platform (Tanium Server 6.2 and Tanium Client 6.0) Security Target, Version 1.0, September 17, 2015.

## 5 Common Criteria Conformance

The evaluation was conducted using the Common Methodology for Information Technology Security Evaluation, Version 3.1 Revision 4, for conformance to the Common Criteria for Information Technology Security Evaluation, Version 3.1 Revision 4.

Tanium Platform 6.2 is:

- a. EAL 2 augmented, containing all security assurance requirements listed, as well as the following:
  - ALC\_FLR.2 – Flaw Reporting Procedures
- b. Common Criteria Part 2 extended; with functional requirements based upon functional components in Part 2, except for the following explicitly stated requirements defined in the ST:
  - FDP\_SDC\_EXT - System Data Collection
  - FDP\_SAR\_EXT - System Action Request
  - FDP\_CRR\_EXT - System Data Collection
- c. Common Criteria Part 3 conformant, with security assurance requirements based only upon assurance components in Part 3.

## **6 Assumptions and Clarification of Scope**

Consumers of Tanium Platform 6.2 should consider assumptions about usage and environmental settings as requirements for the product's installation and its operating environment. This will ensure the proper and secure operation of the TOE.

### **6.1 Secure Usage Assumptions**

The following Secure Usage Assumption is listed in the ST:

- *Authorized administrators are appropriately trained and follow all appropriate guidance documentation.*

### **6.2 Environmental Assumptions**

The following Environmental Assumptions are listed in the ST:

- *Active Directory or Windows Server credentials are configured for administrators of the TOE.*
- *The IT Environment will provide reliable timestamps for use by the TOE.*



## 7 Evaluated Configuration

The evaluated configuration for Tanium Platform 6.2 comprises the following:

- Tanium Server version 6.2 (build 6.2.314.3328) running on Windows Server 2008 R2 SP1 and Windows Server 2012 R2 (64 bit)
- Tanium Client version 6.0 (build 6.0.314.1383) running on Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows 7 and Windows 8.

The TOE requires a Windows 2012 Active Directory domain controller and a Windows Server 2012 database server in the operational environment.

The publication entitled *Common Criteria Evaluated Configuration Guide, Tanium Platform (Tanium Server 6.2 and Tanium Client 6.0), version 0.2, May 2015* describes the procedures necessary to install and operate Tanium Platform 6.2 in its evaluated configuration.

## 8 Documentation

The Tanium Inc. documents provided to the consumer are as follows:

- a. Tanium Installation Guide, March 4, 2015;
- b. Tanium Console User Guide, March 4, 2015;
- c. Tanium Client User Guide, March 4, 2015;
- d. Tanium Server Guide User Guide, March 4, 2015; and
- e. Common Criteria Evaluated Configuration Guide, Tanium Platform (Tanium Server 6.2 and Tanium Client 6.0), version 0.2, 1 May 2015.

## 9 Evaluation Analysis Activities

The evaluation analysis activities involved a structured evaluation of Tanium Platform 6.2, including the following areas:

**Development:** The evaluators analyzed the Tanium Platform 6.2 functional specification and design documentation; they determined that the design completely and accurately describes the TOE security functionality (TSF) interfaces, the TSF subsystems and how the TSF implements the security functional requirements (SFRs). The evaluators analyzed the Tanium Platform 6.2 security architectural description and determined that the initialization process is secure, that the security functions are protected against tamper and bypass, and that security domains are maintained. The evaluators also independently verified that the correspondence mappings between the design documents are correct.

**Guidance Documents:** The evaluators examined the Tanium Platform 6.2 preparative user guidance and operational user guidance and determined that it sufficiently and unambiguously describes how to securely transform the TOE into its evaluated configuration and how to use and administer the product. The evaluators examined and tested the preparative and operational guidance, and determined that they are complete and sufficiently detailed to result in a secure configuration.

**Life-cycle support:** An analysis of the Tanium Platform 6.2 configuration management system and associated documentation was performed. The evaluators found that the Tanium Platform 6.2 configuration items were clearly marked.

The evaluators examined the delivery documentation and determined that it described all of the procedures required to maintain the integrity of Tanium Platform 6.2 during distribution to the consumer.

The evaluators reviewed the flaw remediation procedures used by developer for the Tanium Platform 6.2. During a site visit, the evaluators also examined the evidence generated by adherence to the procedures. The evaluators concluded that the procedures are adequate to track and correct security flaws, and distribute the flaw information and corrections to consumers of the product.

All these evaluation activities resulted in **PASS** verdicts.

## 10 ITS Product Testing

Testing consists of the following three steps: assessing developer tests, performing independent functional tests, and performing penetration tests.

### 10.1 Assessment of Developer Tests

The evaluators verified that the developer has met their testing responsibilities by examining their test evidence, and reviewing their test results, as documented in the ETR<sup>1</sup>.

The evaluators analyzed the developer's test coverage analysis and found it to be complete and accurate. The correspondence between the tests identified in the developer's test documentation and the functional specification was complete.

### 10.2 Independent Functional Testing

During this evaluation, the evaluator developed independent functional tests by examining design and guidance documentation.

All testing was planned and documented to a sufficient level of detail to allow repeatability of the testing procedures and results. Resulting from this test coverage approach is the following list of test goals:

- a. Repeat of Developer's Tests: The objective of this test goal is to repeat a subset of the developer's tests;
- b. Security Audit: The objective of this test goal is to confirm that audit records can be viewed and that they cannot be deleted unless authorized;
- c. Identification and Authentication: The objective of this test goal is to confirm that administrators must be identified and authenticated before actions can be performed on the Tanium console;
- d. User Data Protection: The objective of this test goal is to confirm that traffic between the Tanium server, client, and console is protected; and
- e. Security Management: The objective of this test goal is to confirm that a user without the action approver privilege cannot approve actions and a read only user's privileges are limited.

### 10.3 Independent Penetration Testing

Subsequent to the independent review of public domain vulnerability databases and all evaluation deliverables, limited independent evaluator penetration testing was conducted. The penetration tests focused on:

- a. Use of automated vulnerability scanning tools to discover potential network, platform and application layer vulnerabilities.

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<sup>1</sup> The ETR is a CCS document that contains information proprietary to the developer and/or the evaluator, and is not releasable for public review.

The independent penetration testing did not uncover any exploitable vulnerabilities in the intended operating environment.

#### **10.4 Conduct of Testing**

Tanium Platform 6.2 was subjected to a comprehensive suite of formally documented, independent functional and penetration tests. The detailed testing activities, including configurations, procedures, test cases, expected results and observed results are documented in a separate Test Results document.

#### **10.5 Testing Results**

The developer's tests and the independent functional tests yielded the expected results, providing assurance that Tanium Platform 6.2 behaves as specified in its ST and functional specification.

### **11 Results of the Evaluation**

This evaluation has provided the basis for a EAL 2+ level of assurance. The overall verdict for the evaluation is **PASS**. These results are supported by evidence in the ETR.

## 12 Acronyms, Abbreviations and Initializations

<u>Acronym/Abbreviation/Initialization</u>	<u>Description</u>
API	Application Programming Interface
CCEF	Common Criteria Evaluation Facility
CCS	Canadian Common Criteria Evaluation and Certification Scheme
CPL	Certified Products list
CM	Configuration Management
EAL	Evaluation Assurance Level
ETR	Evaluation Technical Report
IT	Information Technology
ITSET	Information Technology Security Evaluation and Testing
PALCAN	Program for the Accreditation of Laboratories - Canada
SFR	Security Functional Requirement
SOAP	Simple Object Access Protocol
ST	Security Target
TOE	Target of Evaluation
TSF	TOE Security Function

## 13 References

This section lists all documentation used as source material for this report:

- a. CCS Publication #4, Technical Oversight, Version 1.8, October 2010.
- b. Common Criteria for Information Technology Security Evaluation, Version 3.1 Revision 4, September 2012.
- c. Common Methodology for Information Technology Security Evaluation, CEM, Version 3.1 Revision 4, September 2012.
- d. Tanium Platform (Tanium Server 6.2 and Tanium Client 6.0) Security Target, Version 1.0, September 17, 2015.
- e. Evaluation Technical Report for EAL 2+ Evaluation of Tanium, Inc., Tanium Platform (Tanium Server 6.2 and Tanium Client 6.0), Version 0.2, 29 September 2015.