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CERTIFICATION REPORT No. CRP262

Citrix NetScaler Platinum Edition Load Balancer

Version 9.2

running on platforms MPX 5500, MPX 9700-FIPS, MPX 10500-FIPS,
MPX 12500-FIPS, MPX 15500-FIPS, MPX 7500, MPX 9500,
MPX 10500, MPX 12500, MPX 15500, MPX 17500, MPX 19500,
and VPX-10, VPX-200, VPX-1000, VPX-3000

Issue 1.1

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CESG Certification Body
IACS Delivery Office, CESG
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United Kingdom



CRP262 – Citrix NetScaler Platinum Edition Load Balancer 9.2

CERTIFICATION STATEMENT

The product detailed below has been evaluated under the terms of the UK IT Security Evaluation and Certification Scheme and has met the specified Common Criteria requirements. The scope of the evaluation and the assumed usage environment are specified in the body of this report.			
Sponsor:	Citrix Systems Inc.	Developer:	Citrix Systems Inc.
Product and Version:	Citrix NetScaler Platinum Edition Load Balancer Version 9.2		
Platform(s):	Citrix hardware platforms MPX 5500, MPX 9700-FIPS, MPX 10500-FIPS, MPX 12500-FIPS, MPX 15500-FIPS, MPX 7500, MPX 9500, MPX 10500, MPX 12500, MPX 15500, MPX 17500, MPX 19500 and virtualised platforms VPX-10, VPX-200, VPX-1000, VPX-3000.		
Description:	The NetScaler Platinum Edition Load Balancer Version 9.2 is a dedicated application performance accelerator incorporating a Secure Sockets Layer (SSL) Virtual Private Network (VPN) with policy-based access control and a Web Application Firewall.		
CC Version:	Version 3.1 release 3		
CC Part 2:	conformant	CC Part 3:	conformant
EAL:	EAL2 augmented by ALC_FLR.2		
PP Conformance:	none		
CLEF:	SiVenture		
CC Certificate:	CRP262	Date Certified:	14 February 2011
<p>The evaluation was performed in accordance with the requirements of the UK IT Security Evaluation and Certification Scheme as described in UK Scheme Publication 01 [UKSP01] and 02 [UKSP02P1], [UKSP02P2]. The Scheme has established the CESG Certification Body, which is managed by CESG on behalf of Her Majesty's Government.</p> <p>The purpose of the evaluation was to provide assurance about the effectiveness of the TOE in meeting its Security Target [ST], which prospective consumers are advised to read. To ensure that the Security Target gave an appropriate baseline for a CC evaluation, it was first itself evaluated. The TOE was then evaluated against this baseline. Both parts of the evaluation were performed in accordance with CC Part 1 [CC1] and 3 [CC3], the Common Evaluation Methodology [CEM] and relevant Interpretations.</p> <p>The issue of a Certification Report is a confirmation that the evaluation process has been performed properly and that no <i>exploitable</i> vulnerabilities have been found in the evaluated configuration of the TOE. It is not an endorsement of the product.</p>			

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The CESG Certification Body of the UK IT Security Evaluation and Certification Scheme is a member of the above Arrangement [CCRA] and, as such, this confirms that the Common Criteria certificate has been issued by or under the authority of a Party to this Arrangement and is the Party's claim that the certificate has been issued in accordance with the terms of this Arrangement.

The judgements¹ contained in the certificate and in this report are those of the Qualified Certification Body which issued them and of the Evaluation Facility which performed the evaluation. There is no implication of acceptance by other Members of the Arrangement Group of liability in respect of those judgements or for loss sustained as a result of reliance placed by a third party upon those judgements.

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The judgments¹ contained in the certificate and this Certification Report are those of the compliant Certification Body which issued them and of the Evaluation Facility which carried out the evaluation. Use of the logo does not imply acceptance by other Participants of liability in respect of those judgments or for loss sustained as a result of reliance placed upon those judgments by a third party.



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¹ All judgements contained in this Certification Report are covered by the CCRA [CCRA] and the MRA [MRA].



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I. EXECUTIVE SUMMARY

Introduction

1. This Certification Report states the outcome of the Common Criteria (CC) security evaluation of Citrix NetScaler Platinum Edition Load Balancer Version 9.2² to the Sponsor, Citrix Systems Inc., as summarised on page 2 ‘Certification Statement’ of this report, and is intended to assist prospective consumers when judging the suitability of the IT security of the product for their particular requirements.

2. Prospective consumers are advised to read this report in conjunction with the Security Target [ST], which specifies the functional, environmental and assurance requirements.

Evaluated Product and TOE Scope

3. The following product completed evaluation to CC **EAL2** augmented by ALC_FLR.2 on 28th January 2011:

- **Citrix NetScaler Platinum Edition Load Balancer Version 9.2 (Build 48.600102e.nc)³ running on Citrix hardware platforms MPX 5500, MPX 9700-FIPS, MPX 10500-FIPS, MPX 12500-FIPS, MPX 15500-FIPS, MPX 7500, MPX 9500, MPX 10500, MPX 12500, MPX 15500, MPX 17500, MPX 19500 and on virtualised platforms VPX-10, VPX-200, VPX-1000, VPX-3000.**

4. The Developer was Citrix Systems Inc.

5. The NetScaler appliance incorporates three software components (i.e. ‘the Load Balancer’, the ‘Access Gateway’, and the ‘Web Application Firewall’) that work together to provide secure access to web-based applications from an external network.

6. TOE administrators can access the TOE through a direct serial connection, which gives them access to the Command Line Interface (CLI).

7. The evaluated configuration of this product is described in this report as the Target of Evaluation (TOE). Details of the TOE Scope, its assumed environment and the evaluated configuration are given in Chapter III ‘Evaluated Configuration’ of this report.

8. The use of authentication servers and a syslog server are optional but, if used, they form part of the TOE environment.

9. It should be noted that use of Layer3 routing and management, using the NetScaler GUI Dashboard Command Center application and NetScaler XML-API interface, is excluded from the scope of the evaluation. A complete list of features excluded from the scope of evaluation is provided in the Security Target [ST]. Details of evaluated configuration requirements are provided in the Evaluated Configuration Guide [CCECG].

² Hereinafter referred to as ‘NetScaler’.

³ Hereinafter referred to as ‘Version 9.2’.

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10. An overview of the TOE and its product architecture can be found in Chapter IV ‘Product Architecture’ of this report. Configuration requirements are specified in Section 1 of the Security Target [ST].

Protection Profile Conformance

11. The Security Target [ST] does not claim conformance to any Protection Profile (PP).

Security Claims

12. The Security Target [ST] fully specifies the TOE’s Security Objectives, the Threats which these Objectives counter and the Security Functional Requirements (SFRs) and Security Functions that elaborate the Objectives. All of the SFRs are taken from CC Part 2 [CC2]; use of that standard facilitates comparison with other evaluated products.

13. The environmental assumptions related to the operating environment are detailed in Chapter III (in ‘Environmental Requirements’) of this report.

Evaluation Conduct

14. The TOE’s SFRs and the security environment, together with much of the supporting evaluation deliverables, remained mostly unchanged from that of Citrix NetScaler Platinum Edition Load Balancer Version 9.1, which had previously been certified [CR] by the UK IT Security Evaluation and Certification Scheme to the CC EAL2 assurance level (augmented with ALC_FLR.2). For the evaluation of Citrix NetScaler Platinum Edition Load Balancer Version 9.2, the Evaluators made some reuse of the previous evaluation results where appropriate.

15. The CESG Certification Body monitored the evaluation which was performed by the SiVenture Commercial Evaluation Facility (CLEF). The evaluation addressed the requirements specified in the Security Target [ST]. The results of this work, completed in January 2011, were reported in the Evaluation Technical Report ([ETR] and [ETRS]).

Conclusions and Recommendations

16. The conclusions of the CESG Certification Body are summarised on page 2 ‘Certification Statement’ of this report.

17. Prospective consumers of Citrix NetScaler Platinum Edition Load Balancer Version 9.2 should understand the specific scope of the certification by reading this report in conjunction with the Security Target [ST]. The TOE should be used in accordance with the environmental assumptions specified in [ST]. Prospective consumers are advised to check that the SFRs and the evaluated configuration match their identified requirements, and to give due consideration to the recommendations and caveats of this report.

18. The TOE should be used in accordance with the supporting guidance documentation included in the evaluated configuration. Chapter II ‘TOE Security Guidance’ of this report includes a number of recommendations regarding the secure receipt, installation, configuration and operation of the TOE.

19. In addition, the Evaluators' comments and recommendations are as follows:

- a) TOE consumers should browse to the <https://www.citrix.com/> website to initiate download of [CCECG], rather than clicking on any URL link to the Citrix website that they receive, in order to ensure that they are not being redirected to a website that is masquerading as the Citrix site.
- b) TOE consumers should adhere closely to the administrative guidance, especially that provided in [CCECG], in order to maintain and operate the product securely in accordance with the evaluated configuration.

Disclaimers

20. This report is only valid for the evaluated TOE. This is specified in Chapter III 'Evaluated Configuration' of this report.

21. Certification is *not* a guarantee of freedom from security vulnerabilities. There remains a small probability (smaller with higher Evaluation Assurance Levels) that exploitable vulnerabilities may be discovered after an evaluation has been completed. This report reflects the CESG Certification Body's view at the time of certification.

22. Existing and prospective consumers should check regularly for themselves whether any security vulnerabilities have been discovered since the Evaluation Technical Report ([ETR] and [ETRS]) was issued and, if appropriate, should check with the Vendor to see if any patches exist for the product and whether those patches have further assurance.

23. The installation of patches for security vulnerabilities, whether or not those patches have further assurance, should improve the security of the TOE. However, note that unevaluated patching will invalidate the certification of the TOE, unless the TOE has undergone a formal re-certification or is covered under an approved Assurance Continuity process by a CCRA certificate-authorising Scheme.

24. All product or company names used in this report are for identification purposes only and may be trademarks of their respective owners.



II. TOE SECURITY GUIDANCE

Introduction

25. The following sections provide guidance of particular relevance to purchasers of the TOE.

Delivery

26. On receipt of the TOE, the consumer should check that the evaluated versions of its constituent components have been supplied, and should check that the security of the TOE has not been compromised during delivery.

27. The appliances are shipped directly from Citrix Systems Inc. to TOE consumers, using reputable carriers. Prior to shipment, Citrix attaches a shipping label identifying the exact product name, product part number, product serial number, and customer name to the outside of the shipping box. Citrix notifies the consumer of the tracking number, which can be used to track the shipment during delivery. Upon receipt, the consumer should verify that the delivery matches the details of the order placed and should verify that the listed serial number matches the actual serial number of the enclosed product. The consumer should also examine the appliance to verify that the tamper seals are not damaged.

28. The consumer should follow the guidance in the Evaluated Configuration Guide [CCECG] to download the certified version of software via the Citrix support website (<http://support.citrix.com/>). The customer is able to verify the integrity of the downloaded package by performing an MD5 hash of the software package and comparing it to the values in the checksum file relating to the software package posted on the secure area of the (<http://support.citrix.com/>) website detailed below and in [CCECG]:

a) Virtual Appliance: (provided in file “nsvpx-9.2-48.600102_e_nc.xva”)

MD5 checksum = 1e94e6cb4187acaab48ac0cabcd3f38a

b) Appliance Firmware: (provided in file “build-9.2-48.600102.e_nc.tgz”)

MD5 checksum = af1963e5e5ceb7d25c46eaaeed3c5c56

Installation and Guidance Documentation

29. The Installation and Secure Configuration documentation is as follows:

a) Evaluated Configuration Guide [CCECG];

b) Migration Guide [MG];

c) VPX Getting Started Guide [VPX-GS].

30. The Administration documentation is as follows:

a) Administration Guide [AG];



- b) Application Firewall Guide [AFG];
- c) Application Security Guide [ASG];
- d) Command Reference Guide [CRG];
- e) Networking Guide [NG];
- f) Policy Configuration and Reference Guide [PCRG].

III. EVALUATED CONFIGURATION

TOE Identification

31. The TOE is Citrix NetScaler Platinum Edition Load Balancer Version 9.2, which consists of one of the following:

a) the software ‘build-9.2-48.600102.e_nc’ (which is downloaded in the file ‘build-9.2-48.600102.e_nc.tgz’), running on one of the following Citrix hardware platforms:

- i) MPX 5500;
- ii) MPX 9700-FIPS;
- iii) MPX 10500-FIPS;
- iv) MPX 12500-FIPS;
- v) MPX 15500-FIPS;
- vi) MPX 7500;
- vii) MPX 9500;
- viii) MPX 10500;
- ix) MPX 12500;
- x) MPX 15500;
- xi) MPX 17500;
- xii) MPX 19500.

b) the software ‘nsvpx-9.2-48.600102_e_nc’ (which is downloaded in the file ‘nsvpx-9.2-48.600102_e_nc.xva’), running on one of the following virtualised platforms:

- i) VPX-10;
- ii) VPX-200;
- iii) VPX-1000;
- iv) VPX-3000.

TOE Documentation

32. The relevant guidance documentation for the evaluated configuration is identified in Chapter II (in ‘Installation and Guidance Documentation’) of this report.

33. The relevant guidance documentation (except for the Evaluated Configuration Guide [CCECG]) is downloaded in the same manner as the firmware image, linked on the same webpage, as identified in Chapter II (in ‘Delivery’) of this report.

34. The Evaluated Configuration Guide [CCECG] is downloaded from the public area of the Citrix website, and should be accessed in accordance with the recommendation provided in Chapter I (in ‘Conclusions and Recommendations’) of this report.

TOE Scope

35. The TOE Scope is defined in the Security Target [ST] Sections 1.3 and 1.4. Functionality that is outside the TOE Scope is defined in [ST] Section 1.4.3 and is summarised as follows:

- a) Content Switching;
- b) Content Rewrite;
- c) Caching;
- d) Compression;
- e) Web Logging;
- f) Layer 3 Routing ⁴;
- g) Load Balancing between NetScaler appliances;
- h) NetScaler GUI Dashboard Command Center application and NetScaler XML-API interface ⁵.

TOE Configuration

36. The evaluated configuration of the TOE is defined in the Security Target [ST] Section 1.3 and in the Evaluated Configuration Guide [CCECG], and is reproduced in Figure 1 below.

⁴ Layer 3 routing (L3 mode) is out of scope as this enables IP forwarding, allowing traffic to be routed according to static routes in the routing table, rather than being routed via the virtual servers in accordance with the configured policies.

⁵ These are alternative methods of managing NetScaler. However, only the CLI method of management is included in the evaluated configuration.

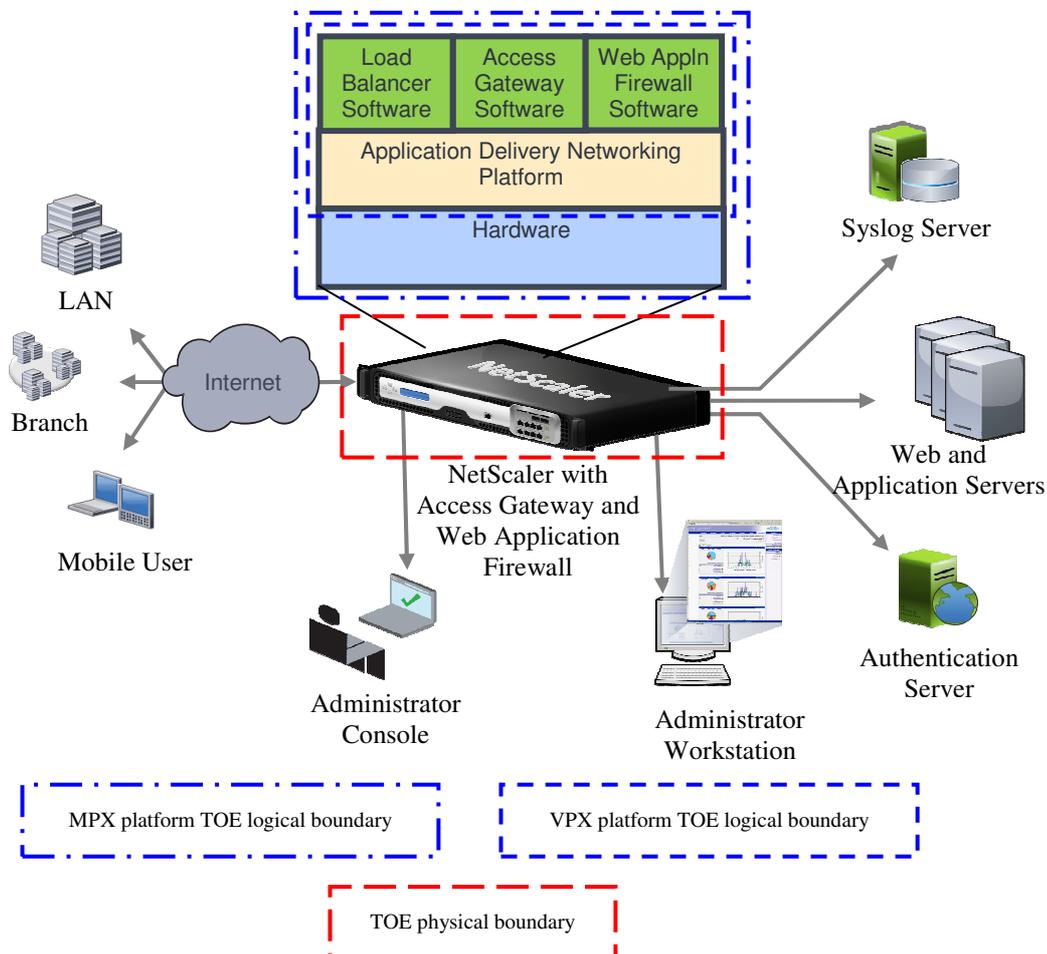


Figure 1 TOE Configuration

Environmental Requirements

37. Environmental assumptions for the TOE are stated in the Security Target [ST] Section 3.3.
38. The TOE was evaluated running on Citrix hardware platforms MPX 5500, MPX 9700-FIPS, MPX 10500-FIPS, MPX 12500-FIPS, MPX 15500-FIPS, MPX 7500, MPX 9500, MPX 10500, MPX 12500, MPX 15500, MPX 17500 and MPX 19500, and on virtualised platforms VPX-10, VPX-200, VPX-1000 and VPX-3000.
39. The environmental IT configuration is detailed in the Security Target [ST] Section 1.3.4.

Test Configuration

40. The Developer used configurations consistent with that depicted in Figure 1 above for their testing, and they performed their testing on each of the distinct hardware platforms in the section 'Environmental Requirements' above.



41. The Evaluators performed an analysis of the platform variations between the appliance models being evaluated, from which they determined that it was sufficient to perform the testing on a single platform. Citrix appliance models MPX 9500 and MPX 17500 were selected. The Evaluators also completed an installation of the virtual appliance VPX-1000. Those test platforms were agreed in advance with the CESG Certification Body. The test configuration used by the Evaluators was consistent with that depicted in Figure 1 above.

IV. PRODUCT ARCHITECTURE

Introduction

42. This Chapter gives an overview of the main TOE architectural features. Other details of the scope of evaluation are given in Chapter III ‘Evaluated Configuration’ of this report.

Product Description and Architecture

43. The architecture of the TOE incorporates three software components that work together to provide secure access to web-based applications. The three software components are:

- a) The ‘Load Balancer’ component manages the connections between clients and servers. Clients establish a connection with the NetScaler, rather than directly with a server. When the NetScaler receives an application request from a client, it establishes a connection with the appropriate application server.
- b) The ‘Access Gateway’ component is an SSL VPN which provides policy-based access control for network resources. The Access Gateway allows administrators to control access based on the identity of the user that is connecting and the device from which the user is connecting.
- c) The ‘Web Application Firewall’ component provides firewall protection against attacks at the Application Layer of the Open Systems Interconnection (OSI) Basic Reference Model. It implements a positive security model, which allows only traffic which adheres to industry standards and best coding practices. All other traffic is treated as malicious and is blocked.

44. The above three components run on top of the Application Delivery Networking Platform (ADNP) on the appliances. The ADNP is the specialised kernel and packet-processing engine, which coordinates the operations of the other software components, and it controls the network interfaces, memory management, and system timing.

TOE Design Subsystems

45. The TOE subsystems, and their security features/functionality, are as follows:

- a) Kernel Subsystem - coordinates the other subsystems and provides kernel level services.
- b) Authentication Subsystem - authenticates administrators and VPN users.
- c) Logging Subsystem - accepts and stores audit events.
- d) SSL VPN Subsystem - facilitates file-server access and provides access to other file services, such as print services.



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- e) Application Firewall (AppFW) Learning Subsystem - provides dynamic data firewalling functionality to protect internal networks from attack.
- f) NSDynamic Routing Subsystem - stores and processes routing information for routing protocols, such as RIP, BGP, and OSPF.
- g) NS CRL Subsystem - maintains and updates Certificate Revocation Lists (CRLs).
- h) Read-Write Subsystem - stores data in and retrieves data from the Flash Memory Subsystem and handles the configuration file (ns.conf) and SSL certificate keys.
- i) Access Control Subsystem - controls the actions of administrators. All management functions must pass through the Access Control Subsystem, which has the ability to stop unauthorized or unsafe actions.
- j) Management Subsystem - provides the administrator interfaces and translates administrator commands.
- k) Hard Disk Drive (HDD) Subsystem - provides persistent storage for statistics, audit data, and application firewall data.
- l) Flash Memory Subsystem - provides storage for the configuration file and SSL certificate keys.

46. Figure 2 below shows the high-level design subsystems, and their internal and external interfaces.

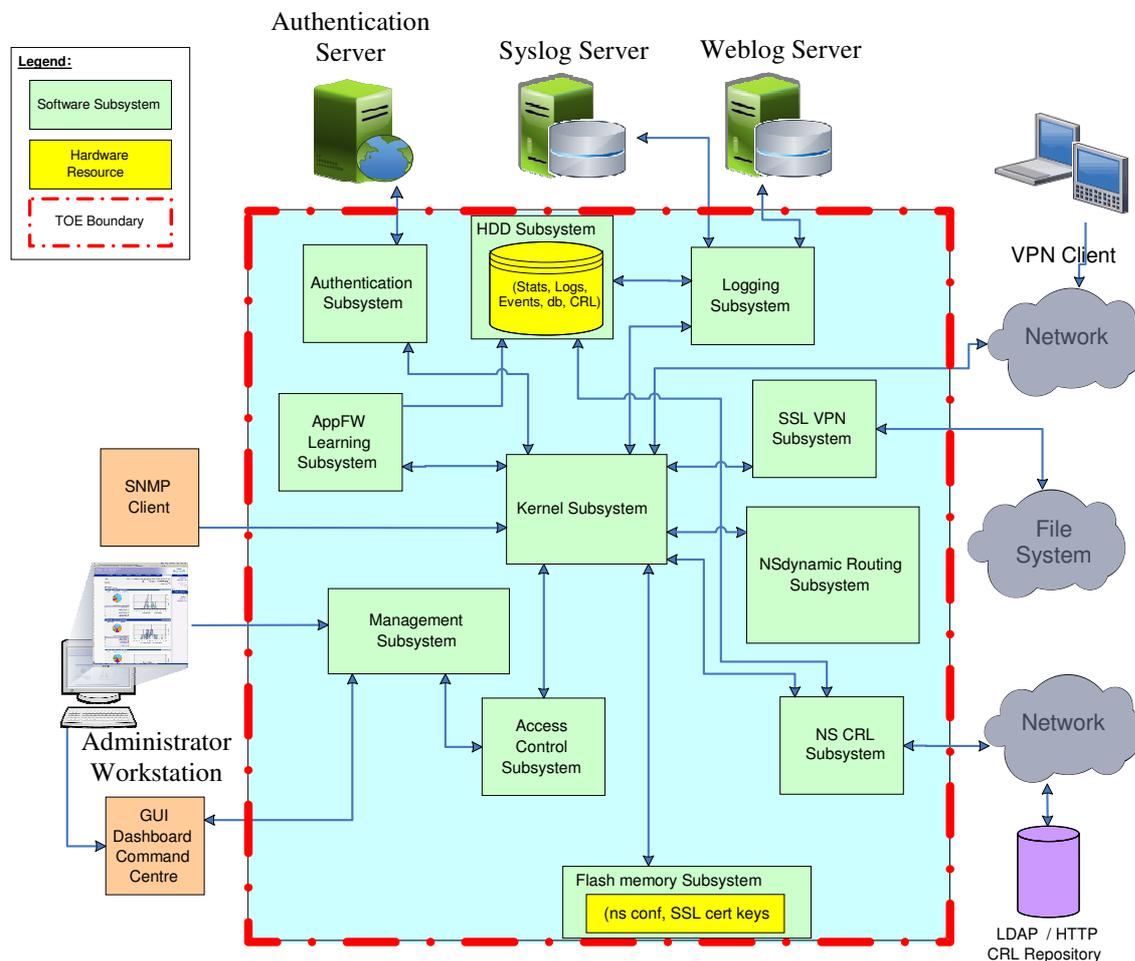


Figure 2 TOE Subsystems

TOE Dependencies

47. The TOE dependencies are identified in Chapter III (in ‘Environmental Requirements’) of this report.

TOE Interfaces

48. The external TOE Security Functions Interface (TSFI), as shown in Figure 2 above, is described as follows:

- a) Network Interface – used as the connection point for VPN clients and general network traffic (e.g. LDAP/HTTP CRL repository).
- b) Authentication Interface – used for connection to authentication servers.
- c) External Logging Interface – used for connection to external weblog servers (use of which is excluded from evaluated configuration) and external syslog servers.



- d) File Services Interface – used for connection to backend (Samba) servers.
- e) Command Line Interface (SSH, Telnet) – used for management.
- f) SNMP Interface – used to provide status information to monitoring IP devices on the network.

49. The external interfaces of the TOE shown in Figure 2 above, which are not available in the evaluated configuration, are:

- a) GUI Dashboard Command Centre Interface – used for management.
- b) Apache Interface – used for management (using XML-API).

V. TOE TESTING

TOE Testing

50. The Developer's tests covered:

- a) all SFRs;
- b) all TOE high-level subsystems, as identified in Chapter IV (in 'TOE Design Subsystems') of this report;
- c) all Security Functions (SFs);
- d) the TSFI, as identified in Chapter IV (in 'TOE Interfaces') of this report.

51. The majority of MPX models share hardware with other MPX models; the only distinction between the models being the available throughput, which is controlled by licensing. The grouping of distinct physical hardware (i.e. the same hardware can be used to install each model listed in the group) is as follows:

- a) MPX 5500.
- b) MPX 9700-FIPS, MPX 10500-FIPS, MPX 12500-FIPS and MPX 15500-FIPS.
- c) MPX 7500 and MPX 9500.
- d) MPX 10500, MPX 12500 and MPX 15500.
- e) MPX 17500 and MPX 19500.

52. The Developer's tests were performed on each distinct physical hardware platform and also on the VPX-3000 virtualised platform.

53. The Evaluators devised and ran a total of 18 independent functional tests, different from those performed by the Developer. These tests included penetration tests to address potential vulnerabilities considered during the evaluation. No anomalies, exploitable vulnerabilities or errors were detected.

54. The Evaluators' tests were performed on appliance models MPX 9500 and MPX 17500, and on virtualised platform VPX-1000, as discussed in Chapter III (in 'Test Configuration') of this report.

55. The Evaluators finished running their penetration tests on 21st December 2010.

Vulnerability Analysis

56. The Evaluators' vulnerability analysis, which preceded penetration testing and was reported in the Evaluation Technical Report ([ETR] and [ETRS]), was based on public domain



sources and the visibility of the TOE provided by the evaluation deliverables, in particular the Developer's security architecture design evidence.

Platform Issues

57. The Citrix NetScaler platforms, which are included within the scope of the TOE, are listed in Chapter III (in 'TOE Identification') of this report. No platform issues were identified.

VI. REFERENCES

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Citrix Systems Inc.,
Document Code: November 24 2010 11:30:07, 24 November 2010.
- [AFG] Citrix Application Firewall Guide – Citrix® NetScaler® 9.2.e,
Citrix Systems Inc.,
Document Code: January 21 2011 07:15:54, 21 January 2011.
- [ASG] Citrix NetScaler Application Security Guide – Citrix® NetScaler® 9.2.e,
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Document code: July 7 2010 08:47:18, 7 July 2010.
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Part 1, Introduction and General Model,
Common Criteria Maintenance Board,
CCMB-2009-07-001, Version 3.1 R3, July 2009.
- [CC2] Common Criteria for Information Technology Security Evaluation,
Part 2, Security Functional Components,
Common Criteria Maintenance Board,
CCMB-2009-07-002, Version 3.1 R3, July 2009.
- [CC3] Common Criteria for Information Technology Security Evaluation,
Part 3, Security Assurance Components,
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CCMB-2009-07-003, Version 3.1 R3, July 2009.
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- [CCRA] Arrangement on the Recognition of Common Criteria Certificates in the Field
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- [CEM] Common Methodology for Information Technology Security Evaluation,
Evaluation Methodology,
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CCMB-2009-07-004, Version 3.1 R3, July 2009.



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- [CRG] Citrix NetScaler Command Reference Guide – Citrix® NetScaler® 9.2.e,
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Document Code: January 21 2011 07:50:54, 21 January 2011.
- [CR] Common Criteria Certification Report No. CRP253,
UK IT Security Evaluation and Certification Scheme,
CRP253, Issue 1.0, April 2010.
- [ETR] Citrix NetScaler Platinum Edition Load Balancer Version 9.2 Evaluation
Technical Report,
SiVenture CLEF,
CIN6-TR-0001, Version 1-0, January 2011.
- [ETRS] Review Form (supplement to [ETR]), CESG Certification Body,
CB/110208/LFV/T012, 8 February 2012 (resolved 14 February 2011).
- [MG] Citrix NetScaler Migration Guide – Citrix® NetScaler® 9.2.e
Citrix Systems Inc.,
Document Code: September 29 2010 05:07:25, 29 September 2010.
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Evaluation Certificates,
Management Committee,
Senior Officials Group – Information Systems Security (SOGIS),
Version 3.0, 8 January 2010 (effective April 2010).
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Citrix Systems Inc.,
Document Code: January 21 2011 00:27:09, 21 January 2011.
- [PCRG] Citrix NetScaler Policy Configuration and Reference Guide –
Citrix® NetScaler® 9.2.e,
Citrix Systems Inc.,
Document Code: January 21 2011 10:03:22, 21 January 2011.
- [ST] Common Criteria Security Target for NetScaler Platinum Edition Load
Balancer Version 9.2,
Citrix Systems Inc.,
CIN6-ST-0001, Version 1-1, 3 August 2011.
- [UKSP00] Abbreviations and References,
UK IT Security Evaluation and Certification Scheme,
UKSP 00, Issue 1.6, December 2009.
- [UKSP01] Description of the Scheme,
UK IT Security Evaluation and Certification Scheme,
UKSP 01, Issue 6.3, December 2009.

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- [UKSP02P1] CLEF Requirements - Startup and Operations,
UK IT Security Evaluation and Certification Scheme,
UKSP 02: Part I, Issue 4.2, December 2009.
- [UKSP02P2] CLEF Requirements - Conduct of an Evaluation,
UK IT Security Evaluation and Certification Scheme,
UKSP 02: Part II, Issue 2.4, December 2009.
- [VPX-GS] Citrix NetScaler VPX Getting Started Guide – Citrix® NetScaler®
VPX™ 9.2.e,
Citrix Systems Inc.,
Document code: December 20 2010 07:06:30, 20 December 2010.



VII. ABBREVIATIONS

This list of abbreviations is specific to the TOE. It therefore excludes: general IT abbreviations (e.g. GUI, HTML, LAN, PC); standard CC abbreviations (e.g. TOE, TSF) covered in CC Part 1 [CC1]; and UK Scheme abbreviations (e.g. CESG, CLEF) covered in [UKSP00].

ADNP	Application Delivery Networking Platform
API	Application Program Interface
AppFW	Application Firewall
CLI	Command Line Interface
CRL	Certificate Revocation List
HDD	Hard Disk Drive
HTTP	Hypertext Transfer Protocol
MD5	Message Digest 5 (a one-way hash function)
FIPS	Federal Information Processing Standard
LDAP	Lightweight Directory Access Protocol
MPX	NetScaler physical hardware platform
NS	NetScaler (platform)
OSI	Open Systems Interconnection
SNMP	Simple Network Management Protocol
SSH	Secure Shell
SSL	Secure Sockets Layer
VPN	Virtual Private Network
VPX	NetScaler virtual platform
XML	Extensible Markup Language