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NOWCOM SNIPER IPS V6.0.e Certification Report

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National Intelligence Service IT Security Certification Center

	Alteration/Amendment History				
No.	Alteration Date	Page	Description		
00	2007.12.21	_	First written		
01	2008. 2.18	_	Change in company name (Wins Technet. Co.,Ltd → Nowcom Co., Ltd.) Security Target Version altered (1.03→1.04)		
02	2008. 4.11	14p	Certification Validity Maintenance (Alteration approved) Added		

This document is the certification report for SNIPER IPS V6.0.e of the NOWCOM Co., Ltd.

Certification Committee

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Certification Body

National Intelligence Service IT Security Certification Center

Evaluation Body

Korean Information Security Agency

Table of Contents

1.	Overview	1
2.	TOE Identification	2
3.	Security Policy	4
4.	TOE Assumptions and Scope	4
5.	TOE Information	5
6.	Guidance	5
7.	TOE Test	8
8.	Evaluation Configuration	9
9.	Evaluation Result	.10
10.	Recommendations	.11
11.	Acronyms and Glossary	.12
12.	Reference	13

1. Overview

This report is for the certification body to describe the certification result, which inspects the result and the conformance of the EAL4 evaluation of SNIPER IPS V6.0.e with regard to the Common Criteria for Information and Technology Security Evaluation (May 21, 2005)(hereunder referred to as 'Common Criteria').

The Korea Information Security Agency (KISA) has finished the evaluation of the SNIPER IPS V6.0.e on Nov. 30, 2008. This report is written based on the Evaluation Technical Report (ETR) produced and provided by KISA. The evaluation concludes that the TOE satisfies the CC V2.2 part 2 and EAL4 of the CC V2.2 part 3 assurance requirements; thus, it is assigned the verdict "pass" on the basis of the paragraph 191 of the CC V2.2 part 1. In addition, the TOE satisfies the Network Intrusion Prevention System Protection Profile V1.1 (Dec. 21, 2005).

SNIPER IPS V6.0.e is a hardware integrated product developed by NOWCOM Co., Ltd. that provides intrusion detecting/blocking functions. The TOE is installed in an In-Line mode at the network section where it targets to protect, and is managed via the web-based Graphic User Interface (GUI).

The TOE provides the following security functions:

- Security Audit (WFAU)
- USER Data Protection (WFDP)
- Identification and Authentication (WFIA)
- Security Management (WFMT)
- TSF Protection (WFPT)

The certification body has examined the evaluation activities and testing procedures, provided the guidance regarding the technical problems and evaluation procedures, and reviewed each evaluation work package and evaluation technical report. In conclusion, the certification body has confirmed that the evaluation results gave assurance that the TOE meets all security functional requirements and assurance requirements described in the Security Target (ST). As a result, the certification body has certified that the evaluator's observations and evaluation results were accurate and reasonable, and his verdict on each package was correct.

Certification Validity: The information contained in this certification report does not mean that the use of SNIPER IPS V6.0.e is approved or its quality is guaranteed by government agency of the Republic of Korea.

2. TOE Identification

The following [Table 1] indicates the information of the TOE identification.

Evaluation GuideKorea IT Security Evaluation and Certification Guidance (May 21, 2005) Korea IT Security Evaluation and Certification Scheme (Apr. 15, 2007)TOESNIPER IPS V6.0.eProtection ProfileNetwork Intrusion Prevention System PP V1.1 (Dec. 21, 2005)Security TargetSecurity Target V1.04 (Jan. 16, 2008), NOWCOM Co., Ltd. ETREvaluation ResultSatisfies the CC part 2 Satisfies the CC part 3Evaluation CriteriaCommon Criteria for Information Technology Security Evaluation MethodologyEvaluation MethodologyCommon Methodology for Information Technology Security Evaluation V2.3 (Aug. 2005)					
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Evaluation Methodology Evaluation V2.3 (Aug. 2005)	Evaluation Criteria	Evaluation V2.3 (Aug. 2005)			
Evaluation V2.3 (Aug. 2005)	Evaluation Mathedalogy	Common Methodology for Information Technology Security			
Sponson NOWCOM Co. Ltd	Evaluation Methodology	Evaluation V2.3 (Aug. 2005)			
Sponsor NOWCOWICO., Ltd.	Sponsor	NOWCOM Co., Ltd.			
Developer NOWCOM Co., Ltd.	Developer	NOWCOM Co., Ltd.			
Evolution Team KISA Evaluation Center, Evaluation Team II	Evoluction Team	KISA Evaluation Center, Evaluation Team II			
Evaluation Team Yongsuk Oh, Hyunmi Park	Evaluation Team	Yongsuk Oh, Hyunmi Park			
Certification Body National Intelligence Service	Certification Body	National Intelligence Service			

[Table 1] TOE Identification

Underlying Hardware specifications are stated in the [Table 2].

Category			Specification		
		Model	E2000	E4000	
		CPU	Intel Xeon DP CPU	Intel Xeon DP CPU	
	Hardware	010	3.0GHz * 2	3.6GHz * 2	
	Thataware	Memory	2G DDR-II	2G DDR-II	
		HDD	SATA 200GB	3.5" 73GB(SCSI) * 2	
Server		DOM	512MB	512MB	
		No. of port	10/100/1000Mbps 1port	10/100/1000Mbps 1port	
	Port	HA	10/100/1000Mbps 1port	10/100/1000Mbps 1port	
	FOIL	L7 HA		10/100/1000Mbps 2port	
		Monitoring	1000 Mbps 4port	1000 Mbps 4port	
	Software	OS	SNIPER OS V1.0 (Proprietary OS)		
		CPU	Intel Pentium IV 1.8GHz or higher		
	H/W	Memory	512MB		
		HDD	40GB or more		
		No. of port	10/100 NIC 1 or more		
	S/W	OS	MS Windows XP professional		
Client	t Characteristics		Since the SNIPER Client is automatically installed		
			as downloading OCXs from the SNIPER Server,		
			the administrator PC needs to have IE 7.0 or higher		
			installed.		
			Also, the administrator PC needs to have 1024x768		
			and higher resolution, sound card, and speaker.		

[Table 2] SNIPER IPS V6.0.e Server and Client Specifications

3. Security Policy

The TOE operation conforms to the security policies stated below.

Name	Description
Audit	In order to trace responsibilities regarding all actions related to
	the security, security related events shall be recorded and
	maintained, and the recorded data shall be examined.
Secure manage	An authorized administrator shall manage the TOE in a secure
	manner.
SSL (Certificate	SNIPER shall securely generate the SSL Certificate and therefore
management	store, manage it.

4. TOE Assumptions and Scope

4.1 Assumptions

The TOE installation and operation should conform to the assumptions stated below.

Name	Description				
A.Physical security	The TOE shall locate in a physically secure environment where				
A.Filysical security	only authorized administrators are allowed to access.				
A.Security Maintenance	When the local network environment goes through any changes due to the alterations of the network structure, increase or decrease of hosts/services, the new changes are immediately noted and security policies are configured in accordance with the TOE operational				
	policy to maintain the same level of security as before.				
A.Trusted administrator	Trusted administrators ensure reliability and stability of the operation system by eliminating all services or means that are not necessary for the TOE and by providing the OS vulnerability patches.				
A.Hardened OS	The underlying OS of the TOE ensures the reliability and stabil by eliminating all services or means that are not necessary for the TOE and by providing the OS vulnerability patches.				
A.Single Connection Point	The TOE, when installed and operated in a network, separates the network into remote and local sections. All traffic between the remote and the local sections pass through the TOE.				
A.TIME	The IT environment of the TOE is provided with a reliable Timestamp from the NTP server which conforms to RFC 1305 or from the OS.				
A.TOE SSL Certificate	The TOE, when installing the certificate that is to be used for the SSL authentication, generates in advance and stores at the TOE. SSL Certificate of the TOE is safely generated and managed.				

4.2 Scope to Counter a Threat

The TOE provides a means to countermeasure the security threats including asset violation attempts of the TOE itself that is under protection. The TOE provides means to protect the local network from the attacks exploiting new vulnerabilities or the attacks capable to bypass the security. The TOE provides a countermeasure for the logical/physical attacks caused by the malicious user possessing low-level expertise, resources, and motivation.

All security objectives and security policies are described to provide a means to counter an identified security threat.

5. TOE Information

The TOE supports the security function of intrusion detection and firewall. Operation environment is illustrated in the following [Image 1], and the basic structure follows the [Image 2] below.



[Image 1] SNIPER IPS V6.0.e Operation network environment



[Image 2] SNIPER IPS V6.0.e Basic structure

The TOE consists of the following main subsystems.

• Audit (WFAU)

Security audit subsystem operates the function of audit data generation (WFAU_GEN) and audit data inquiry (WFAU_SAR). In order to check whether a system operates efficiently, by gathering, analyzing the record history, audit records generated through the audit detect/block intrusions to the computer system and are used for detecting the misuse for the system.

User Data Protection (WFDP)

User Data Protection sub-system operates Firewall function (WFDP_FFU), Blackhole blocking (WFDP_BLK), QoS blocking (WFDP_QOS), Intrusion Detecting function (WFDP_DET), Intrusion Analyzing function (WFDP_ALS), and Intrusion Countermeasure function (WFDP_ACT). This function controls the flow of network data according to the permission or blocking rule to protect the target network that is to be protected from internal or external attackers. Also it collects information to detect intrusion and react to an intrusion in case it is identified, and stores the analysis result so that the administrator can check.

Identification and Authentication (WFIA)

Identification and Authentication sub-system operates user identification and authentication process (WFIA_ACCESS). Only authorized administrators are allowed to

access key functions that are essential to the regular operation of SNIPER such as changing, deleting and adding policies and retrieving log files. In order to control the access to SNIPER perfectly, every access attempt through an administrator interface are examined to identify and authentication appropriate administrator. The communication between SNIPER Client and the engine is encrypted using SSL and its integrity is verified through SHA-1 to prevent any modification or exposure of the data. Even with the access of an authorized administrator, if not operate for a certain period of time; protect the TOE during the inactive terms of an authorized administrator by locking up the interacting sessions.

Security Management (WFMT)

Security Management sub-system operates Security Audit Management(WFMT_AUDIT), OS Configuration(WFMT_CONFIG), Management of Security Violation List(WFMT_POLDET), Firewall function Management(WFMT_POLFW), Management of Interoperation between ESM and the Control Server regarding security violation events(WFMT_ESM), Update(WFMT_UPD), and QoS Policy(WFMT_POLQOS). Security Management function provides the rules for detection/prevention SNIPER performs and the managerial actions retrieving and modifying information related to the state and configuration of SNIPER.

TSF Protection (WFPT)

TSF Protection sub-system operates TSF stored data Integrity check(WFPT_INTSTDATA), TSF transmitting data Integrity check(WFPT_INTTRDATA), Prevention of audit data loss(WFPT_CHKDB), Abstract machine testing(WFPT_ATM), and IPS status information(WFPT_CHKSYS). TSF Protection provides a regular check function to assure that the security assumptions related to the underlying abstract machine are properly operating. It performs checking when initially started, periodically during normal operation, and upon request of an authorized user to decide whether the main components running on the TOE system are normally operating in order. It also preserves a secure state when failure occurred and ensures safe operation of the TOE by periodical monitoring. In cases where components of the TOE interact remotely through internal communication channels, Server and Client identify and authenticate the nodes of the other side to ensure safe channels between TSFs.

6. Guidance

The TOE includes following documents.

- SNIPER IPS V6.0.e Administrator Guidance V1.02, 2007. 10. 2
- SNIPER IPS V6.0.e Delivery documentation V1.01, 2007. 7. 18
- SNIPER IPS V6.0.e Installation Manual V1.1, 2007. 10. 5

7. TOE Test

Developer's Test

Testing Method

The developer produced the test considering the security function of the TOE. Each test is described in test documentation including the following items in detail.

- Test No./Tester: The identifier of the test and the developer who participated in testing
- Purpose of the test: Describes the purpose of the test including security function and security module to be tested.
- Test configuration: Detailed environment where the test is carried out
- Detailed test procedure: Detail procedure to test security functions.
- Expected result: Test result expected when performing the test procedure.
- Actual result: Test result acquired when the test is performed.
- Comparison of the expected result and the actual result:

The evaluator performed a thorough evaluation of the validity such as the test configuration, test procedure, test scope analysis, and the low-level design test. The evaluator verified that the developer's test and its results were adequate for the evaluation configuration.

Test configuration

The test configuration described in the test documentation includes the detailed configuration such as the organization of network for the test, the TOE, the internal/external network. In addition, it describes detailed test configuration such as test tools required to perform each test.

Test Scope Analysis/Low-level Design Test

The detailed evaluation results are described in the ATE_COV and ATE_DPT evaluation result.

Test Result

The test documentation describes the expected and the actual result of each test. The actual result is confirmed through the audit record as well as the GUI TOE.

Evaluator's Test

The evaluator installed the TOE using the evaluation configuration and evaluation tools identical to those of the developer test and performed testing for the overall tests provided by the developer. The evaluator confirmed that the actual result of every test was consistent with the expected result.

Moreover, the evaluator devised and performed additional evaluator's tests on the basis of the developer's test, and confirmed that the actual test result was consistent with the expected test result.

The evaluator carried out the vulnerability test and confirmed that there was no exploitable vulnerability in the evaluation configuration.

The evaluator's test result assured that the TOE worked normally as described in the design documentation.

8. Evaluation Configuration

For testing, the evaluator composed the following test configuration that corresponds to the environment structure specified on the Security Target.



[Image 3] TOE test configuration

9. Evaluation Result

The evaluation is on the basis of the Common Criteria for Information Technology Security Evaluation, Common Methodology for Information Technology Security Evaluation. It concludes that the TOE satisfies the CC part 2 and EAL4 of the CC part 3 assurance requirements. The detailed information regarding the evaluation is described in the ETR.

• ST Evaluation (ASE)

The evaluator applied the ASE sub-activities described in the CEM V2.2 to the evaluation of the ST of the TOE. The ST provides a logical description of the TOE; that it is internally consistent and consistent with other parts of the ST. The TOE security environment provides definition of the consistent, complete security issues that are induced from the TOE and the TOE security environment. The security objectives are also described completely and consistently. The security objectives counter the identified threats, achieve the organizational security policies, and satisfy the stated assumptions. The TOE security requirements and the security requirements for the IT environment are

described completely and consistently and provide an adequate basis for the development of a TOE that will achieve its security objectives.

TOE summary specification provides security function and assurance standard with an accurate and consistent superior level definition, satisfies described TOE security requirements. Also, it accurately substantializes Protection Profile that the Security Target accepts.

• Configuration Management Evaluation (ACM)

The evaluator applied the ACM sub-activities described in the CEM V2.2 to the evaluation of the configuration management of the TOE. The evaluator verified that the configuration management specifies the configuration list, configuration identification, version endowment, configuration modification control and that all development documentations and source files were developed applying the configuration management system. He also confirmed that the generation and modification of the configuration items are achieved through the configuration management organization and the configuration management system.

Delivery and Operation Evaluation (ADO)

The evaluator applied the ACM sub activities described in the CEM V2.2 to the evaluation of the development of the TOE. The Delivery and Operation describes measures and procedures of the secure delivery, installation, and operation. Thus, it ensures that the security is not being damaged while the TOE is transmitted, installed, operated, and it verifies that the contents of the document are being actually applied according to the results of inspections.

Development Evaluation (ADV)

The evaluator applied the ADV sub-activities described in the CEM V2.2 to the evaluation of the development of the TOE.

Development evaluation defines as it specifies the TOE security functional requirements from the TOE summary specification to the actual implementation stage, using functional specification, high-level design, low-level design, and implementation representation.

The security policy modeling clearly and consistently describes the rules and characteristics of the security policies; this description corresponds with the security functions described in the functional specification.

Guidance Evaluation (AGD)

The evaluator applied the AGD sub-activities in the CEM V2.2 to the evaluation of the guidance of the TOE. The administrator guidance describes the method of how the administrator may access to the security management interface. It also describes the guidelines and rules regarding the each provided menu by giving examples. The administrator guidance has verified that the contents described are being accurately operated. Also, as the TOE does not request the user guidance for security requirements, it is impossible to apply user guidance evaluation.

Life Cycle Support Evaluation (ALC)

The evaluator applied the ALC sub-activities described in the CEM V2.2 to the evaluation of the life cycle support of the TOE. The life cycle support evaluation clearly describes that it protects the development environment using security measures, such as procedures, policies, tools and methods regarding the every stage of the TOE development. Through the actual inspection process of the institutions, it verified that the above statements were actually being applied.

Tests Evaluation (ATE)

The evaluator applied the ATE sub-activities described in the CEM V2.2 to the evaluation of the test of the TOE. The test documentation predicts the result and describes the objectives of the test, progressive test procedures, and the test results regarding the security functions specified on the ST. By performing module test and the provided development functional test repeatedly, the evaluator verified that the contents of the test described in the test documentation was accurate and that the security functional actions implemented during the development were consistent. Also, by performing independent testing, the evaluator confirmed accuracy of the developmer's test.

Vulnerability Assessment Evaluation (AVA)

The evaluator applied the AVA sub-activities described in the CEM V2.2 to the evaluation of the vulnerability assessment of the TOE. The vulnerability analysis document reasonably and specifically describes the identified vulnerabilities of the TOE and appropriate countermeasures, analysis and countermeasures of the misuse. Also, by conducting independent vulnerability analysis, the evaluator confirmed the accuracy of the vulnerability analysis. Also, the strength of TOE security function analysis describes that the strength of TOE security function satisfies the functional strength permit level defined at the PP/ST.

10. Recommendation

- In order for the SNIPER Client to operate under a normal condition, administrator pc shall be installed with the Windows Explorer 7.0 or higher version. Furthermore, even though not included in the evaluation scope, administrator pc needs to have Crystal Report, Tee Chart, Quick Report, Microsoft Excel installed to make the full use out of the security functions that the SNIPER Client provides.
- In this evaluation report, SNIPER IPS V6.0.e has performed a thorough evaluation on the 2 models, E2000 and E4000. E4000 includes an additional HA function, which enables transmission of the sessions to the backup device, allowing continuous active operation of the network protection.
- A1000, A2000, and A4000 models are the prototypes of the current E-series. All Aseries support the SPAN mode, an IPS function that allows bypassing the inline mode. SNIPER IPS V6.0.e does not support the SPAN mode.
- Since the malicious traffic can inbound due to the incorrectly configured threshold value, it is crucial that the administrator configure the threshold value most suitable for the network environment.

- SNIPER provides live update function for updating the latest attack patterns. Administrator needs to perform periodical pattern updates to maintain
- SNIPER automatically alarms the administrator if the traffic exceeds the threshold value. However, we highly recommend that the administrator shall periodically check the status of the storage space and make sure whether it has enough room for saving audit records.

11. Acronyms and Glossary

The following acronyms are used in this certification report.

(1) Acronyms

- CC Common Criteria
- EAL Evaluation Assurance Level
- PP Protection Profile
- SOF Strength of Function
- ST Security Target
- TOE Target of Evaluation
- TSC TSF Scope of Control
- TSF TOE Security Functions
- TSP TOE Security Policy

(2) Glossary

TOE

An IT product or system and its associated guidance documentation that is the subject of evaluation.

Audit record Audit data to save an auditable event relevant to the security of the TOE.

User

Any entity (either human or external IT entity) outside the TOE that interacts with the TOE

Authorized administrator Authorized user that can manage the TOE in accordance with the TSP

Authorized user

User that can run functions of the TOE in accordance with the TSP

Identity

A representation uniquely identifying an authorized user

Authentication data

Information used to verify the claimed identity of a user

External IT entity

Any IT product or system, either trusted or untrusted, outside the TOE that interacts with the TOE

Assets

Information and resources to be protected by the security measures of the TOE

Intrusion Prevention System

IT product to detect and block an attack from outside so the network to be protected (i.e. internal network) can be safe from attack

NTP

Protocol used for synchronizing time

12. Reference

The certification body has used the following documents to produce this certification report;

[1] Common Criteria for Information Technology Security Evaluation (May 21, 2005)

[2] Common Methodology for Information Technology Security Evaluation V2.3

[3] Network Intrusion Prevention System Protection Profile V1.1 (Dec. 21, 2005)

[5] Korea IT Security Evaluation and Certification Guidance (May 21, 2005)

[6] Korea IT Security Evaluation and Certification scheme (Jan. 1, 2007)

[7] NOWCOM SNIPER IPS V6.0.e Security Target V1.04 (Jan. 16, 2008)

[8] NOWCOM SNIPER IPS V6.0.e Certification Report, release V1.0 (Nov. 30, 2007)

* Certification Validity Maintenance History

1. SNIPER IPS V6.0.e Alteration Authentication (Apr. 11, 2008)

Alteration History

Category		Certified Products		Alteration Authenticated Products		
	Model E2000		E4000	E1000	E2000(Y11/K	E4000(Y11/K
					11)	11)
	CPU	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
		DP CPU	DP CPU	Quad Core	Dual Core 2.0	Dual Core 3.0
		3.0 GHz x	3.6 GHz x	1.6	x 2	x 2
		2	2			
	Main	2GB DDR-	2GB DDR-	2GB DDR-	4GB DDR-II	4GB DDR-II
	Memo	II	II	II		
Serv	ry					
er	HDD	200GB	73GB(SCS	250GB	250GB	250GBx2
CI			I) x 2			
	DOM	512MB	512MB	1GB	1GB	1GB
	NIC	6 ports	8 ports	4 ports	6 ports	8 ports
		(Managem	(Managem	(Managem	(Management	(Management
		ent 1, HA	ent 1, HA	ent 1, HA	1, HA 1,	1, HA 1, L7
		1,	1, L7 HA	1,	Monitoring 4)	HA 2,
		Monitoring	2,	Monitoring		Monitoring 4)
		4)	Monitoring	2)		
			4)			

Review Result

As a result of the test regarding SNIPER IPS V6.0.e performed after the alterations of the H/W requirements (CPU, Memory, NIC, and etc.), it was verified that the alterations had no affects on the security functions and assurance scope of the TOE.