

V3Net for Windows Server 6.0
and AhnLab Policy Center 3.0
Certification Report

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This document is the certification report on V3Net for Windows Server 6.0 and AhnLab Policy Center 3.0 of AhnLab, Inc.

Certification Body

National Intelligence Service IT Security Certification Center

Evaluation Body

Korea Information Security Agency

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1. Executive Summary

This report documents the certification result of the EAL4 evaluation of V3Net for Windows Server 6.0 and AhnLab Policy Center 3.0 (Hereinafter referred to as V3Net) with regard to the Common Criteria for Information Technology Security Evaluation (Announcement No. 2005-25 by Ministry of Information and Communication; CC hereinafter). It presents the evaluation results, their validation, and the conformance results.

The Korea Information Security Agency (KISA) has finished the evaluation of V3Net on the 17th of Aug. 2007. This report is written based on the Evaluation Technical Report produced and provided by the KISA. The evaluation concludes that the TOE satisfies the CC part 2 and the EAL4 of the part 3 assurance requirements; thus, it is assigned the verdict 'pass' on the basis of the paragraph 175 of the CC part 1.

The TOE consists of V3Net for Windows Server 6.0 (Hereinafter referred to as V3), the anti-virus program that performs virus scan/repair function, and the V3 management server program, AhnLab Policy Center (Hereinafter referred to as APC). The APC consists of Policy Center Admin, Policy Server, and Policy Agent which is installed on the V3 installed system and transfers administrator's commands from the server to V3. V3, Policy Server, and Policy Agent are software installed and operated on the Windows 2003 Server, and Policy Center Admin is installed and operated on the Windows XP.

The management server, APC, provides centralized management for V3. APC transmits and enforces configurations for the scan/repair function to each V3.

The centralized management software, APC, manages V3 in 3-tiered architecture transmitting encrypted administrator's commands to V3.

Policy Center Admin is installed on the administrator's PC transmitting V3 scan/repair policies and Agent security management policies to Policy Server in a secure manner.

Policy Server stores V3 and Agent management policies in the LDAP, audit data from V3, APC, and administrator command history in DBMS. Policy Server forwards administrator's commands to Policy Agent, and handle requests from Policy Agent to send the policies to V3.

Policy Agent is installed on the V3 installed system and runs in active mode or passive mode. In active mode, Policy Agent requests V3 and Agent policies to Policy Server periodically, applies Agent policies to itself, and forwards V3 policies to V3. According to the audit data forwarding policy, Policy Agent forwards V3 audit data to Policy Server. In passive mode, Policy Agent operates only the administrator's commands from Policy Server.

The certification body has examined the evaluation activities and testing procedures of the evaluator; provided the guidance regarding the technical problems and evaluation procedures; reviewed each evaluation work package and the evaluation technical report.

The certification body has confirmed that the evaluation results assure that the TOE meets all of the security function requirements and assurance requirements described in the ST.

As a result, the certification body has certified that the observations and evaluation results by the evaluator are accurate and reasonable; and that each verdict on each work package of the evaluator is correct.

Certification Validity: The information in this report guarantees that V3Net obtained neither approval for use nor quality assurance from the Government Agency of the Republic of Korea.

2. TOE Identification

[Table 1] describes the information about the TOE identification.

[Table 1] TOE Identification

Evaluation Guidance	Korea IT Security Evaluation and Certification Guidance (2005. 5. 21) Korea IT Security Evaluation and Certification Scheme (2007. 4. 15)
TOE	V3Net for Windows Server 6.0 and AhnLab Policy Center 3.0
Protection Profile	None
Security Target	V3Net for Windows Server 6.0 and AhnLab Policy Center 3.0 ST V1.7
ETR	V3Net for Windows Server 6.0 and AhnLab Policy Center 3.0 ETR, V1.00
Conformance Result of the Evaluation	Conformance to the CC V2.3 part 2 Conformance to the CC V2.3 part 3
Evaluation Criteria	Common Criteria for Information Technology Security Evaluation (2006. 5. 21)
Evaluation Methodology	Common Methodology for Informations Technology Security Evaluation V2.3 (2005. 8)
Sponsor	AhnLab, Inc.
Developer	AhnLab, Inc.
Evaluators	KISA IT Security Evaluation Center, Evaluation Team 2 Kwonhyun Cho, Eunbyeong Yi, Sungjae Lee
Certification Body	IT Security Certification Center

[Table 2] describes the operating environment of the TOE.

[Table 2] V3 Net Operating Environment

TOE	Software	Hardware (Recommended)
V3	Microsoft Windows XP Internet Explorer 6.0 or higher Winsock 2.0 or higher	CPU: Intel Pentium III or higher RAM: 256MB HDD: 200MB or more NIC: 10/100 Ethernet Card
A P C	Policy Agent	Microsoft Windows XP Winsock 2.0 or higher Internet Explorer 6.0 or higher RAM: 256MB HDD: 200MB or more NIC: 10/100 Ethernet Card
	Policy Server	Microsoft Windows 2003 Server MS SQL SERVER 2003 SP3 or higher OpenLDAP 2.0 or higher Winsock 2.0 or higher CPU: Intel Pentium 1GHz or higher RAM: 1GB or more HDD: 5GB or more NIC: 10/100 Ethernet Card
	Policy Center Admin	Microsoft Windows XP Winsock 2.0 or higher Internet Explorer 6.0 or higher CPU: Intel Pentium 1GHz or higher RAM: 256MB or more HDD: 200MB or more NIC: 10/100 Ethernet Card

3. Security Policy

The TOE operation conforms to the security policies as follows:

P.ROLES The TOE provides authorized security management roles to manage the TOE in a secure manner: server administrator, policy administrator, monitor center, authorized general user, and restricted general user. These roles shall be separated clearly from other users.

P.AUDIT To Trace responsibilities of all security-related behaviors, all security-related events shall be stored, maintained, and the record data shall be reviewed in a variety ways.

P.MANAGEUTIL Management tools are provided for authorized general users (V3) or authorized administrator (APC) to manage the TOE in a secure manner, and V3 policies set by authorized administrators has higher priority than by authorized general user.

P.ANTIHARMFULL The TOE shall scan key logger programs defined as harmful program by AhnLab, Inc.

P.STRENGTHENOS Authorized general users or authorized administrators shall review the vulnerabilities to guarantee the normal operation and stability by reinforcement of vulnerabilities of the operating system and applications which are necessary to run the TOE.

4. TOE Assumptions and Scope

4.1 Assumptions

The TOE installation and operation shall be conformance to the assumptions as follows:

A.NO_EVIL The authorized general users (V3) and authorized administrators (APC) of the TOE shall not have any malicious intention, receive proper training on TOE management, and follow the user (V3)/administrator (APC) guidelines.

A.PHYSICAL The policy server is installed in physically safe environment, and protected by un-authorized access.

A.SAFEITENTITY The update server for the TOE, administrator's computers for security management functions, and the NTP server are secure.

A.TIMESTAMP The time stamp referred to the NTP server or operating system is reliable.

A.CERT The certificate being used to verify engine/patch files from the update server are issued in a secure manner and stored/managed by AhnLab, Inc. To verify engine/patch files signed by the certificate, the reliable authentication agency of the Internet Explorer on the V3 or policy server installed system must be up-to-date.

A.GUARD The TOE is installed on the trusted network where is protected by network security devices (firewall). The trusted network is protected by the security policies of network security devices.

A.INTERNALENTITY IT entities connected to the trusted network and interoperate with the TOE are run with the same security level according to the security policies of network security devices.

A.AVCONFILICT The V3 installed system does not have any other anti-virus software, and software with POP3 real-time scan (monitoring), and spam mail filtering.

4.2 Threats

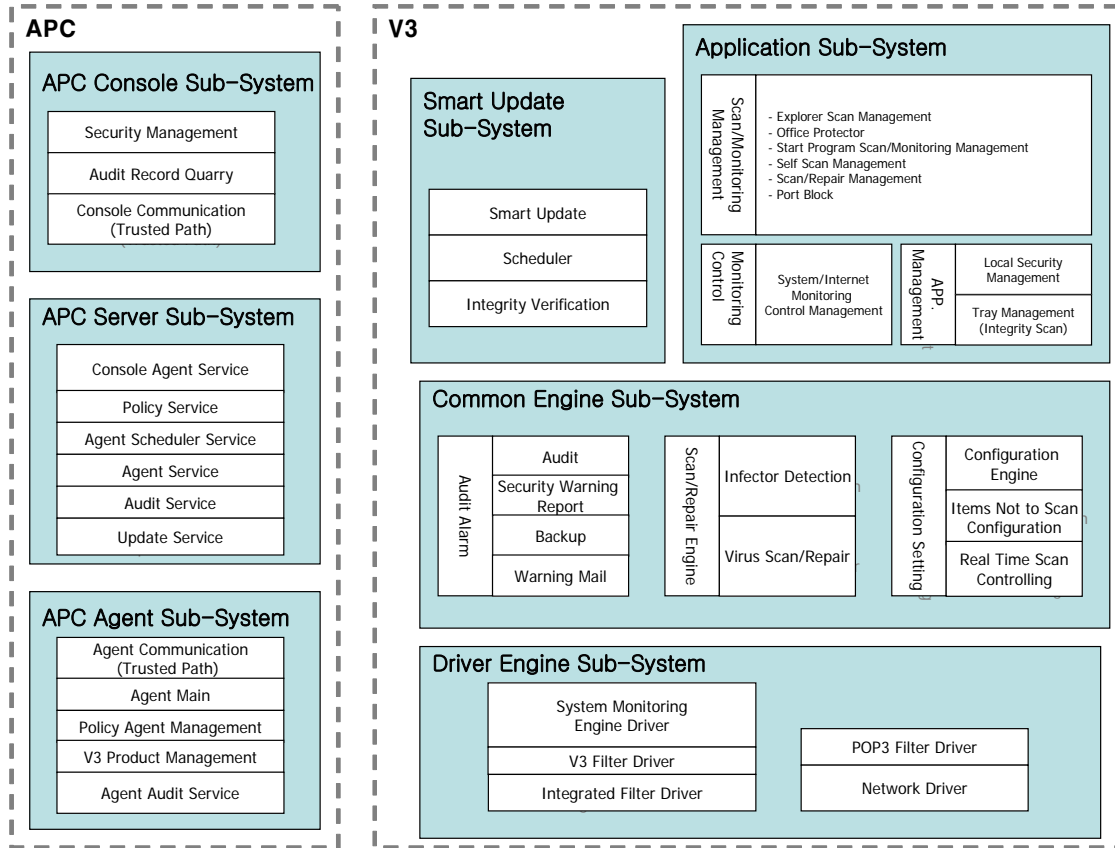
All security objectives and security policies are described to provide means to counter identified security threats.

Objective	Description
O.ADMIN_ROLE	The TOE shall provide security management roles to separate management behaviors.
O.MANAGE	The TOE shall provides secure means and management functions for authorized general users (V3) or authorized administrators (APC) to efficiently manage the TOE.
O.SELF_PROTECTION	The TOE shall provide protect TSF and TSF resource from unauthorized modification via TSFI.
O.VIRUS	The TOE shall identify and response for well-known viruses that come from removable media or network traffic.
O.AUDIT	The TOE shall provide store and maintain security-related events to trace responsibilities of security-related behaviors, and provide means for the authorized users to review the audit data.
O.ALARM	The TOE shall provide methods to alert authorized general users and authorized administrators for security threats.
O.TSFDATA_PROTECT	The TOE shall protect TSF data transmitted between separated TOEs from the exposure and modification.
O.INA	The TOE shall identify and authenticate authorized administrators (APC).
O.SECURE_UPDATE	The TOE shall store engine/patch files from the update server, check their integrity, and verify whether they are developed by AhnLab, Inc.
O.STRENGTHENOS	The TOE shall provides means to review if vulnerabilities to guarantee the normal operation and stability, and the reinforcement of vulnerabilities of the operating system and applications which are necessary to run the TOE.
OE.AUDIT_STORAGE	The IT environment shall provide means to store audit files of the TOE in a secure manner.
OE.NO_EVIL	The authorized general users (V3) and authorized administrators (APC) of the TOE shall not have any malicious intentions, receive proper training on the TOE management, and follow the user (V3)/administrator (APC) guidance.
OE.PHYSICAL	The TOE shall be located in a physically safe environment, and protected from the unauthorized access.

Objective	Description
OE.CERT	The certificate being used to verify engine/patch files from the update server is issued in a secure manner and stored/managed by AhnLab, Inc. To verify engine/patch files signed by the certificate, the reliable authentication agency of the Internet Explorer on the V3 or policy server installed system must be up-to-date.
OE.SAFEIDENTITY	The update server for the TOE, administrator's computers for security management functions, and NTP server (or operating system providing the time stamp) shall secure.
OE.TIMESTAMP	The IT environment shall provide reliable time stamps from the NTP server or the operating system.
OE.TOE_ACCESS	The IT environment shall provide means to control logical access of users to the TOE.
OE.GUARD	The TOE is installed on the trusted network where is protected by network security devices (firewall). The trusted network is protected by the security policies of network security devices.
OE.INTERNALIDENTITY	IT entities connected to the trusted network and interoperate with the TOE are run with the same security level according to the security policies of network security devices.
OE.AVCONFLICT	The V3 installed system does not have any other anti-virus software, and software with POP3 real-time scan (monitoring), and spam mail filtering.
OE.AUDIT_SEARCH	The IT environment shall provide the search function for the audit records.
OE.RESIDUAL_INFO	The IT environment shall protect resources in the scope of control of the TOE from exposing them to users when re-allocating the memory.
OE.DOM_SEPARATION	The IT environment shall provide separated areas for executing of the TOE.
OE.NO_BYPASS	The IT environment shall not allow the bypass of the security mechanisms since the access authority to the TOE resource can be taken.

5. TOE Information

The TOE provides security functions such as virus scan/repair with the following subsystems.



[Figure 2] Subsystems of the TOE

TOE	Subsystem	Main Functions
V3	Smart Update Subsystem	<p>Scheduler: Registers scheduled/auto Update interval, and scheduled interval to the registry. At an interval, the scheduler transfers executable commands to the operating system to run update, scheduled scan, and auto restart of system scan.</p> <p>V3 Patch Update: Check whether the latest update files exist sending update requests through internet/shared folder according to the configuration by user/administrator. If update is necessary, the subsystem downloads the engine/patch files, and applies them to V3 after verifying the security of the files</p> <p>Integrity Verification: Verifies the code sign of the engine/patch files to modification or masquerade of the files, and verifies HAS-160 hash values</p>
	Application Subsystem	<p>APP Management: Initializes the security management function, requests self scan, get security management data from the user, and sends the data to the Common Engine subsystem. In case that the common engine subsystem or driver Engine subsystem is not able to repair an infected file, the virus sample will be</p>

		<p>sent to AhnLab, Inc.</p> <p>The APP management sends the on/off request of real-time scan to the common engine subsystem through tray, and the status of real-time scan is displayed on the tray.</p> <p>Virus Scan/Real-Time Scan Management: Sends the on/off request of system/Internet real-time scan to the driver engine subsystem, requests the operating system to register/start/stop the V3 filter driver and integrated filter driver to detect file I/O for system/internet real-time scan.</p> <p>This sends requests of manual scans: self scan, advanced scan, screen saver scan, explorer scan, manual scan via tray, and system scan, to the scan/repair engine in the common engine subsystem, and display the result of scan/repair on the screen.</p> <p>After registering scan targets to the registry for start program scan/real-time scan management, if modification of the targets is detected, it sends start program scan/real-time scan requests to the scan/repair engine in the common engine subsystem, and sends initialization/register/stop requests to the port filter driver. If viruses that exceeds the port block setting are detected or at a failure of system reboot, or of update, it sends a warning mail to the user.</p>
	<p>C o m m o n E n g i n e S u b s y s t e m</p>	<p>Audit Record and Security Warning : Generates, stores, backs up audit data, and overwrites when audit data storage is full. It also backs up infected files to quarantine area, checks the vulnerabilities of the platform at start-up of the operating system or a user's request, and sends the result to application subsystem to display on the user screen.</p> <p>Scan/Repair Engine: Loads virus scan/repair engine for manual scan, startup program scan/monitoring, and system scan. Scans a virus according to the specified location, PE_CRC, development, macro virus signature. In case of auto-repair, it repairs infected files according to the configuration from the application subsystem. In case of manual-repair, it sends the result of scan to the application subsystem, receives the repair method from the application subsystem and repair the file with the method. If the infector trace is enabled, it collects the access information to the shared folder from the network filter driver in the drive engine subsystem, and forwards it to the application subsystem.</p> <p>Configuration: Loads configurations from the application subsystem on the memory to apply them to V3, write them on the configuration file, and encrypt them. If the security lock is set, the password verification starts to limit the configuration authority.</p>
	<p>D r i v e E n g i n e S u b s y s t e m</p>	<p>Integrated Filter Driver: Runs real-time scan/repair for system/internet real-time scan, and scan/repair when the engine is loaded or system/internet file I/O is occurred.</p> <p>Network Driver: Hooks events of TCP/IP packets from the network, and sends to the port filter driver.</p> <p>Port Filter Driver: Receives packets from the network driver, and the packets are filtered according to the port filtering rules</p>
<p>A</p>	<p>P o l i c y A P C</p>	<p>Security Management: Examines the valid range of input data:</p>

P C	Center Admin	Console Subsystem	<p>Domain management/server management/policy management/policy file management that the administrator entered in the security management screen, sends the data to Policy Server. In case the administrator requests the security management, it confirms the authority of the administrator, and the session is terminated at the administrator's logout request or after the idle time.</p> <p>Viewing Log: Requests View/Search of APC or V3 log</p> <p>Communication: Encrypts and sends administrator's commands from the security management function to the server.</p>
	Policy Server	APC Server Subsystem	<p>Console Agent Service: Handles security management commands from the APC console subsystem. If the command is a xml-formatted policy file, the service forwards it to the policy service.</p> <p>Policy Service: Stores xml-formatted policy files to LDAP, and sends a encryption policy command to DB to sends xml formatted policy files to the agent or V3. After that, it notifies the agent scheduler service the command. Then it notifies the agent scheduler service to send a command.</p> <p>Agent Scheduler Service: If a policy service put a new policy in the Job Queue and generates an event to send it to Policy Agent, agent scheduler service detects and forwards it to the agent main function in the APC agent subsystem.</p> <p>Agent Service: handles the request commands of Policy Agent and returns the result.</p> <p>Log Service: Receives and filters audit data from Policy Agent or V3 according to the filtering policy, and stores them in DBMS.</p> <p>Update Service: Updates patch/engine files from the update server, generates and stores audit records in DBMS.</p>
	Policy Agent	APC Agent Subsystem	<p>Agent Communication: Encrypted communication between Policy Agent and Policy Server.</p> <p>Agent Main Function: Forwards policy commands from Policy Server to the policy agent management function or V3 product management function.</p> <p>It requests policy transmission to the agent service in the APC server subsystem, and forwards policy configuration files from Policy Server to the policy agent management function or V3 product management function.</p> <p>Policy Agent Management: Applies the agent configuration files from Policy Server to Policy Agent, or executes direct commands.</p> <p>V3 Product Management : Applies the V3 configuration files from Policy Server to V3, or executes direct commands.</p> <p>Agent Log Service: Sends V3 audit data to Policy Server.</p>

6. Guidance

The TOE provides the following guidances:

- V3Net for Windows Server 6.0 User Guide V6.0.10
- AhnLab Policy Center 3.0 User Guide V3.0 3.0.11

7. TOE Test

7.1 Developer Testing

- **Test Method**

The developer produced the test cases, considering the security function of the TOE. Each test case is described in test documentation. Each test case described in the test documentation includes the following items in detail:

- Test No./Tester : The identifier of the test and the developer who participated in testing
- Test Purpose : Describe the purpose of the test including security function or modules of the test
- Test Configuration : Detailed test configuration to carry out the testing
- Test Procedure : Detailed procedure to test the security function
- Expected Result : The expected test result when carrying out the test procedure
- Actual Result : The test result when carrying out the test procedure
- Comparison: The result of comparison between the expected and the actual result

The evaluator evaluated the validity of the test reviewing the test configuration, test procedure, test scope analysis of the test documentation and testing low-level design. The evaluator also assured that the developer's test and test results are 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, PCs, application servers (web server and mail server), and evaluation tools.

- **Test Scope Analysis/Low-level Design Test**

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

- **Test Result**

The test documentation describes the expected and actual result of each test. The actual result can be verified using not only GUI of the TOE but also the audit record.

7.2 Evaluator Testing

The evaluator installed the TOE by using the evaluation configuration and tools identical to the developer testing, and tested all of test cases provided by the developer. The evaluator assured that the actual test result was identical to the expected result.

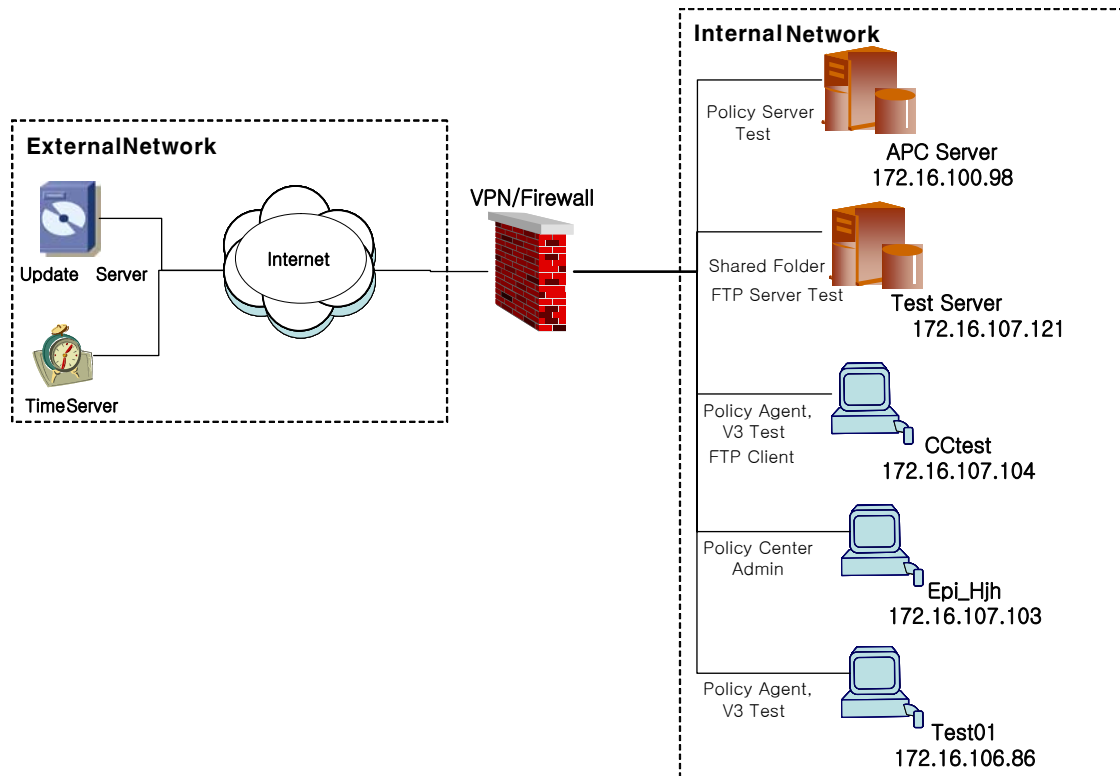
In addition, the evaluator created additional evaluator test cases on the basis of developer test, and verified that the actual test result was identical to the expected one.

The evaluator carried out the vulnerability test, and verified no vulnerability for malicious use in the evaluation configuration found.

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

8. Evaluated Configuration

The network configuration for the evaluation is separated into the external and internal network. The following hardware is used for the evaluation configuration;



All security functions provided by the TOE are included in the evaluation scope, and the evaluation configuration is based on the detailed security attributes and configuration of each security function.

9. Evaluation Result

The latest the Common Criteria for Information Technology Security Evaluation and Common Methodology for Informations Technology Security Evaluation are applied to the evaluation (June 2006). It concludes that the TOE satisfies the CC V2.2 part 2 and EAL4 of the CC V2.2 part3 assurance requirements. The detailed information regarding the evaluation result is described in the ETR.

- **ST Evaluation (ASE)**

The evaluator applied the ASE sub-activities described in the CC to the ST evaluation.

The introduction of the ST is completed, consistent with other parts of the ST, and identified the ST accurately. The TOE description is coherent and consistent internally and with the other parts of the ST.

The statement of TOE security environment provides a clear and consistent definition of the security problem as assumptions, threats, and organizational security policies and describes them completely and consistently. The security objectives counter the identified threats, achieve the identified organizational security policies and are consistent with the stated assumptions.

The security requirements for the IT environment are described completely and consistently, and they provide an adequate basis for development of a TOE that will achieve its security objectives. The TOE summary specification provides a clear and consistent definition of the security functions and assurance measures, and that these satisfy the specified TOE security requirements. The ST is a correct instantiation of PPs for which compliance is being claimed.

The ST is completed, consistent and appropriate in a technical way. Consequently, it is adequate for TOE evaluation to use the ST as the fundamental material.

- **Configuration Management Evaluation (ACM)**

The evaluator applied the ACM sub-activities described in the CC to configuration management evaluation of the TOE. It is confirmed that developers use an automated tool for controlling the modification of the implementation representation in the configuration management documentation. Developers identified the TOE and configuration list for the TOE accurately, and the ability to modify them was controlled adequately in the configuration management documentation. The configuration management documentation described that configuration management was performed for TOE implementation representations, evaluation evidences which are requested by assurance components of the ST, and security faults.

Consequently, the configuration management documentation allows consumers to identify the evaluated TOE, guarantees that the configurations are identified uniquely, and the procedure used to control and trace the TOE modification is appropriate.

- **Delivery and Operation Evaluation (ADO)**

The evaluator applied the ADO sub-activities described in the CC to the delivery and operation evaluation. The delivery documentation describes all procedures used to maintain security and detect modification or substitution of the TOE when distributing the TOE to the user's site. The documentation included secure installation, initialization, generation, and start-up procedures of the TOE, and as a result, the TOE confirmed the establishment of the secure environment.

Consequently, the documentation is adequate to ensure that the TOE is installed, generated, and started in the same way the developer intended it to be and it is delivered without modification.

- **Development Evaluation (ADV)**

The evaluator applied the ADV sub-activities described in the CC to the development evaluation. The functional specification provides an adequate description of TOE security functions which are sufficient to satisfy the security functional requirements of the ST. This also provides an adequate description of the TOE external interfaces. The security policy model describes the rules and characteristics of the security policies clearly, and consistently, mapping them into security functions in the functional specification.

High-level design provides a description of the TSF in terms of major structure units, subsystems, and of the interfaces to these structural units, and correct realization of the functional specification. Low-level design provides a description of the internal operation of the TOE security functions with interrelationships and dependencies on the other modules. The low-level design is sufficient to satisfy the functional requirement of the ST, and is a correct and effective refinement of the high-level design.

The implementation representation is sufficient to satisfy the functional requirements of the ST, and is a correct realization of the low-level design. The representation correspondence shows that the developer has correctly and completely implemented the requirements of the ST, functional specification, high-level design, and low-level design in the implementation representation.

Consequently, functional specification describing TOE external interfaces, high-level design describing TOE in terms of subsystems, low-level design describing the TOE structure in terms of internal modules, implementation

representation which is the description of the source code level, and the representation correspondence ensuring the consistency of these TOE representation methods are adequate to understand how the TOE security functions are provided.

- **Guidance Evaluation (AGD)**

The evaluator applied the AGD sub-activities described in the CC to the guidance evaluation. The administrator guidance provides a description of management of the TOE in a secure manner. Consequently, the user guidance describe how to use the TOE which is managed by the administrator.

- **Life Cycle Support Evaluation (ALC)**

The evaluator applied the ALC sub-activities described in the CC to the life cycle support evaluation. It was ensured that the developer's security controls on the development environment were adequate to provide the confidentiality and integrity of the TOE design and implementation. The developer used the documented TOE life cycle model and well-defined development tools to yield consistent and predictable results.

Consequently, documentations related to life cycle support describe procedures the developer uses during the development and maintenance of the TOE adequately including the security procedures and tools used throughout TOE development.

- **Tests Evaluation (ATE)**

The evaluator applied the ATE sub-activities described in the CC to the test evaluation. Tests were sufficient to demonstrate that TOE security functions are performed as specified in the functional specification on the tests. It was confirmed that the developer performed TOE security function tests for the high-level design. The test documentation of the developer was sufficient to ensure that the security functions were performed as specified. The evaluator confirmed that the TOE operated as specified by performing independent tests, and gained reasonable confidence from the developer testing by performing routine tests.

Consequently, independent testing of parts of TOE security functions verified TOE security functions run as specified in the design documentations and TOE security functional requirements in the ST.

- **Vulnerability Evaluation (AVA)**

The evaluator applied the AVA sub-activities described in the CC to the vulnerability evaluation. The misuse analysis of the guidance verified that the guidance is not misleading, unreasonable or conflicting, whether secure procedures for all modes of operation have been addressed, whether use of the guidance will facilitate prevention and detection of insecure TOE states. Strength of function claimed for all probabilistic or permutational mechanism in the ST, and developer's SOF claim made in the ST is supported by an analysis that is correct.

The vulnerability analysis documentation describes the measures appropriately by implementing the measures of the obvious vulnerabilities of the TOE or specifying the operating environment in the guidances. The evaluator verified the correctness of the vulnerability analysis by independent vulnerability analysis. The vulnerability analysis verified that the TOE, in its intended environment, has no vulnerabilities exploitable by attackers possessing low attack potential.

Consequently, the vulnerability analysis by the developer or evaluator or penetration testing by the evaluator verified that vulnerabilities exploitable by attackers possessing low attack potential do not exist.

10. Recommendations

- ① The authorized general users (V3) and authorized administrators (APC Server) of the TOE shall not have any malicious intention, receive proper training on TOE management, and follow the user (V3)/administrator (APC) guidelines.
- ② The policy server is installed in physically safe environment, and protected by un-authorized access.
- ③ The update server for the TOE, administrator's computers for security management functions, and the NTP server are secure.
- ④ The time stamp referred to the NTP server or operating system is reliable.
- ⑤ The TOE is installed on the trusted network where is protected by network security devices (firewall). The trusted network is protected by the security policies of network security devices.
- ⑥ IT entities connected to the trusted network and interoperate with the TOE are run with the same security level according to the security policies of network security devices.
- ⑦ The certificate being used to verify engine/patch files from the update server are issued in a secure manner and stored/managed by AhnLab, Inc. To verify engine/patch files signed by the certificate, the reliable authentication agency of the Internet Explorer on the V3 or policy server installed system must be up-to-date.
- ⑧ The V3Pro2004 installed system should not have any other anti-virus software, and software with port filtering to run the TOE normally.
- ⑨ Policy Agent runs in active or passive mode. In active mode, Policy Agent requests V3 and Agent policies to Policy Server periodically, applies Agent policies to itself, and forwards V3 policies to V3. According to the audit data forwarding policy, Policy Agent forwards V3 audit data to Policy Server. In passive mode, Policy Agent operates only the administrator's commands from Policy Server. If the administrator does not set the V3 security lock with Policy Agent in passive mode, it is out of scope of the evaluation because it is not enterprise environment, the TOE operating environment. Therefore, the administrator must run Policy Agent in active mode or passive mode with setting V3Pro2004 security lock.

- ⑩ The operating system provides identification and authentication because the general user of V3Pro2004 is a system account user. Therefore, the user on the V3 installed Windows system must use the secure password and manage it in a secure way.

11. Acronyms and Glossary

The following acronyms are used in the certification report.

CR	Certification Report
EAL	Evaluation Assurance Level
IT	Information Technology
KECS	Korea IT security Evaluation and Certification Scheme
TOE	Target of Evaluation

The following glossary are used in the certification report.

TOE	An IT product or system and its associated guidance documentation that is the subject of an evaluation
Audit Record	Audit data to save an auditable event relevant to the TOE security
User	Any entity (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, untrusted or trusted, outside of the TOE that interacts with the TOE
Asset	Information and resources to be protected by the countermeasures of a TOE
Daemon	A process that runs in the background and respond periodical service requests

12. References

The certification body has used the following documents to produce the certification report:

- [1] Common Criteria for Information Technology Security Evaluation (May. 21, 2005.)
- [2] Common Methodology for Information Technology Security Evaluation V2.3
- [3] Korea IT Security Evaluation and Certification Guidance (May. 21, 2005)
- [4] Korea IT Security Evaluation and Certification Scheme (April. 15, 2007)