PP-Module for Voice and Video over IP (VVoIP)



National Information Assurance Partnership

Revision History

| Version | Date | Comment |
|---------|------------|--|
| Round 1 | 2015-04-23 | First draft of version 1.0 for comment |
| 1.0 | 2015-08-14 | Release - first version released |

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1 Overview

The scope of this Protection Profile (PP) is to describe the security functionality of QQQQ products in terms of [CC] and to define functional and assurance requirements for such products. An operating system is software that manages computer hardware and software resources, and provides common services for application programs. The hardware it manages may be physical, virtual or imaginary.

Something

This is going to show some tests:

- Terms with abbrs like ASLR, or API, should be found a linked automatically.
- And components can be refered to by their name: FQQ_QQQ.1
- And so can requirements: FQQ_QQQ.1.1 or by their unique identifier: FQQ_QQQ.1.1
- · Or you can stop them ASLR
- This is how you do a picture:



Figure 1: Niap's Logo

- And this is how you reference it: Figure 1
- This is how you do an equation with an arbitrary counter:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

- And this is how you reference it: 1
- The following content should be included if:
 - "this" is selected from FQQ_QQQ.1.1

Some text

- The following content should be included if:
 - the TOE implements "Widget Thing"

Someting dependent on a feature

- And here's the audit event table for mandatory requirements.
- Test for an xref to section

And this is another sentence (or fragment). I added this sentence and deleted the next one. This uses the plural acronym OSes.

1.1 Terms

The following sections list Common Criteria and technology terms used in this document.

1.1.1 Common Criteria Terms

| Assurance | Grounds for confidence that a TOE meets the SFRs [CC]. |
|--|--|
| Base Protection Profile (Base- PP) | Protection Profile used as a basis to build aPP-Configuration. |
| Common Criteria (CC) | Common Criteria for Information Technology Security Evaluation (International Standard ISO/IEC 15408). |
| Common Criteria Testing Laboratory | Within the context of the Common Criteria Evaluation and Validation Scheme (CCEVS), an IT security evaluation facility, accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and approved by the NIAP Validation Body to conduct Common Criteria-based evaluations. |

| Common Evaluation Methodology (CEM) | Common Evaluation Methodology for Information Technology Security Evaluation. |
|--|--|
| Distributed TOE | A TOE composed of multiple components operating as a logical whole. |
| Operational Environment (OE) | Hardware and software that are outside the TOE boundary that support the TOE functionality and security policy. |
| Protection Profile (PP) | An implementation-independent set of security requirements for a category of products. |
| Protection Profile Configuration (PP- Configuration) | A comprehensive set of security requirements for a product type that consists of at least oneBase-PP and at least one PP-Module. |
| Protection Profile Module (PP-Module) | An implementation-independent statement of security needs for a TOE type complementary to one or more Base Protection Profiles. |
| Security Assurance Requirement (SAR) | A requirement to assure the security of theTOE. |
| Security Functional Requirement (SFR) | A requirement for security enforcement by the TOE. |
| Security Target (ST) | A set of implementation-dependent security requirements for a specific product. |
| TOE Security Functionality (TSF) | The security functionality of the product under evaluation. |
| TOE Summary Specification (TSS) | A description of how a TOE satisfies the SFRs in an ST. |
| Target of Evaluation (TOE) | The product under evaluation. |

1.1.2 Technical Terms

| Address Space Layout Randomization (ASLR) | An anti-exploitation feature which loads memory mappings into unpredictable locations. ASLR makes it more difficult for an attacker to redirect control to code that they have introduced into the address space of a process. |
|--|--|
| Administrator | An administrator is responsible for management activities, including setting policies that are applied by the enterprise on the operating system. This administrator could be acting remotely through a management server, from which the system receives configuration policies. An administrator can enforce settings on the system which cannot be overridden by non-administrator users. |
| Application (app) | Software that runs on a platform and performs tasks on behalf of the user or owner of the platform, as well as its supporting documentation. |
| Application Programming Interface (API) | A specification of routines, data structures, object classes, and variables that allows an application to make use of services provided by another software component, such as a library. APIs are often provided for a set of libraries included with the platform. |
| Credential | Data that establishes the identity of a user, e.g. a cryptographic key or password. |
| Critical Security Parameters | Information that is either user or system defined and is used to operate a cryptographic module in processing encryption functions including cryptographic keys and authentication data, such as passwords, the disclosure or modification of which can compromise the security of a cryptographic module or the |

| (CSP) | security of the information protected by the module. |
|--|--|
| DAR Protection | Countermeasures that prevent attackers, even those with physical access, from extracting data from non-volatile storage. Common techniques include data encryption and wiping. |
| Data Execution Prevention (DEP) | An anti-exploitation feature of modern operating systems executing on modern computer hardware, which enforces a non-execute permission on pages of memory. DEP prevents pages of memory from containing both data and instructions, which makes it more difficult for an attacker to introduce and execute code. |
| Developer | An entity that writes OS software. For the purposes of this document, vendors and developers are the same. |
| General Purpose Operating System | A class of OSes designed to support a wide-variety of workloads consisting of many concurrent applications or services. Typical characteristics for OSes in this class include support for third-party applications, support for multiple users, and security separation between users and their respective resources. General Purpose Operating Systems also lack the real-time constraint that defines Real Time Operating Systems (RTOS). RTOSes typically power routers, switches, and embedded devices. |
| Host-based Firewall | A software-based firewall implementation running on the OS for filtering inbound and outbound network traffic to and from processes running on the OS. |
| Operating System (OS) | Software that manages physical and logical resources and provides services for applications. The terms <i>TOE</i> and <i>OS</i> are interchangeable in this document. |
| Personally Identifiable Information (PII) | Any information about an individual maintained by an agency, including, but not limited to, education, financial transactions, medical history, and criminal or employment history and information which can be used to distinguish or trace an individual's identity, such as their name, social security number, date and place of birth, mother's maiden name, biometric records, etc., including any other personal information which is linked or linkable to an individual.[OMB] |
| Sensitive Data | Sensitive data may include all user or enterprise data or may be specific application data such as PII, emails, messaging, documents, calendar items, and contacts. Sensitive data must minimally include credentials and keys. Sensitive data shall be identified in the OS's TSS by the ST author. |
| User | A user is subject to configuration policies applied to the operating system by administrators. On some systems under certain configurations, a normal user can temporarily elevate privileges to that of an administrator. At that time, such a user should be considered an administrator. |
| Virtual Machine (VM) | Blah Blah Blah |

2 Compliant Targets of Evaluation

2.1 TOE Boundary

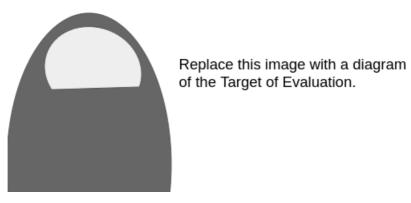


Figure 2: General TOE

2.2 TOE Platform

3 Use Cases

Requirements in this Protection Profile are designed to address the security problems in at least the following use cases. These use cases are intentionally very broad, as many specific use cases exist for an operating system. These use cases may also overlap with one another. An operating system's functionality may even be effectively extended by privileged applications installed onto it. However, these are out of scope of this PP.

[USE CASE 1] Elephant-own device

This is everything we need to describe in words about this use case.

For a the list of appropriate selections and acceptable assignment values for this configuration, see .

This PP-Module inherits exact conformance as required from the specified Base-PPs and as defined in the CC and CEM addenda for Exact Conformance, Selection-Based SFRs, and Optional SFRs (dated May 2017).

The following PPs and PP-Modules are allowed to be specified in aPP-Configuration with this PP-Module:

- PP-Module for MDM Agents, Version 1.0
- PP-Module for File Encryption Enterprise Management, Version 1.0
- PP-Module for File Encryption, Version 2.0

This PP-Module is conformant to Parts 2 (extended) and 3 (extended) of Common Criteria Version 3.1, Revision 5 [CC] when App PP, GPOS PP, or MDF is the Base-PP.

This PP-Module is conformant to Parts 2 (extended) and 3 (conformant) of Common Criteria Version 3.1, Revision 5 [CC] when MDM PP is the Base-PP.

This PP-Module does not claim conformance to any Protection Profile.

This PP-Module does not claim conformance to any packages.

The security problem is described in terms of the threats that the OS is expected to address, assumptions about the operational environment, and any organizational security policies that the OS is expected to enforce.

4 Threats

T.NETWORK_ATTACK

An attacker is positioned on a communications channel or elsewhere on the network infrastructure. Attackers may engage in communications with applications and services running on or part of the OS with the intent of compromise. Engagement may consist of altering existing legitimate communications.

T.NETWORK_EAVESDROP

An attacker is positioned on a communications channel or elsewhere on the network infrastructure. Attackers may monitor and gain access to data exchanged between applications and services that are running on or part of the OS.

T.LOCAL ATTACK

An attacker may compromise applications running on the OS. The compromised application may provide maliciously formatted input to the OS through a variety of channels including unprivileged system calls and messaging via the file system.

T.LIMITED_PHYSICAL_ACCESS

An attacker may attempt to access data on the OS while having a limited amount of time with the physical device.

5 Assumptions

These assumptions are made on the Operational Environment in order to be able to ensure that the security functionality specified in the PP-Module can be provided by the TOE. If the TOE is placed in an Operational Environment that does not meet these assumptions, the TOE may no longer be able to provide all of its security functionality.

A.PLATFORM

The OS relies upon a trustworthy computing platform for its execution. This underlying platform is out of scope of this PP.

A.PROPER_USER

The user of the OS is not willfully negligent or hostile, and uses the software in compliance with the applied enterprise security policy. At the same time, malicious software could act as the user, so requirements which confine malicious subjects are still in scope.

A.PROPER_ADMIN

The administrator of the OS is not careless, willfully negligent or hostile, and administers the OS within compliance of the applied enterprise security policy.

6 Security Objectives for the TOE

O.ACCOUNTABILITY

Conformant OSes ensure that information exists that allows administrators to discover unintentional issues with the configuration and operation of the operating system and discover its cause. Gathering event information and immediately transmitting it to another system can also enable incident response in the event of system compromise.

O.INTEGRITY

Conformant OSes ensure the integrity of their update packages. OSes are seldom if ever shipped without errors, and the ability to deploy patches and updates with integrity is critical to enterprise network security. Conformant OSes provide execution environment-based mitigations that increase the cost to attackers by adding complexity to the task of compromising systems.

O.MANAGEMENT

To facilitate management by users and the enterprise, conformant OSes provide consistent and supported interfaces for their security-relevant configuration and maintenance. This includes the deployment of applications and application updates through the use of platform-supported deployment mechanisms and formats, as well as providing mechanisms for configuration and application execution control.

O.PROTECTED_STORAGE

To address the issue of loss of confidentiality of credentials in the event of loss of physical control of the storage medium, conformant OSes provide data-at-rest protection for credentials. Conformant OSes also provide access controls which allow users to keep their files private from other users of the same system.

O.PROTECTED COMMS

To address both passive (eavesdropping) and active (packet modification) network attack threats, conformant OSes provide mechanisms to create trusted channels for CSP and sensitive data. Both CSP and sensitive data should not be exposed outside of the platform.

7 Security Objectives for the Operational Environment

The Operational Environment of the TOE implements technical and procedural measures to assist the TOE in correctly providing its security functionality (which is defined by the security objectives for the TOE). The security objectives for the Operational Environment consist of a set of statements describing the goals that the Operational Environment should achieve. This section defines the security objectives that are to be addressed by the IT domain or by non-technical or procedural means. The assumptions identified in Section 3 are incorporated as security objectives for the environment. The following security objectives for the operational environment assist the OS in correctly providing its security functionality. These track with the assumptions about the environment.

OF PLATFORM

The OS relies on being installed on trusted hardware.

OE.PROPER USER

The user of the OS is not willfully negligent or hostile, and uses the software within compliance of the applied enterprise security policy. Standard user accounts are provisioned in accordance with the least privilege model. Users requiring higher levels of access should have a separate account dedicated for that use.

OE.PROPER_ADMIN

The administrator of the OS is not careless, willfully negligent or hostile, and administers the OS within compliance of the applied enterprise security policy.

7.1 Security Objectives Rationale

This section describes how the assumptions, threats, and organization security policies map to the security objectives.

| Threat, Assumption, or OSP | Security Objectives | Rationale |
|----------------------------|---------------------|--|
| T.NETWORK_ATTACK | O.PROTECTED_COMMS | The threat T.NETWORK_ATTACK is countered by O.PROTECTED_COMMS as this provides for integrity of transmitted data. |
| | O.INTEGRITY | The threat T.NETWORK_ATTACK is countered by O.INTEGRITY as this provides for integrity of software that is installed onto the system from the network. |
| | O.MANAGEMENT | The threat T.NETWORK_ATTACK is countered by O.MANAGEMENT as this provides for the ability to configure the OS to defend against network attack. |
| | O.ACCOUNTABILITY | The threat T.NETWORK_ATTACK is countered by O.ACCOUNTABILITY as this provides a mechanism for the OS to report behavior that may indicate a network attack has occurred. |
| T.NETWORK_EAVESDROP | O.PROTECTED_COMMS | The threat T.NETWORK_EAVESDROP is countered by O.PROTECTED_COMMS as this provides for confidentiality of transmitted data. |
| | O.MANAGEMENT | The threat T.NETWORK_EAVESDROP is countered by O.MANAGEMENT as this provides for the ability to configure the OS to protect the confidentiality of its transmitted data. |
| T.LOCAL_ATTACK | O.INTEGRITY | The objective O.INTEGRITY protects against the use of mechanisms that weaken the TOE with regard to attack by other software on the platform. |
| | O.ACCOUNTABILITY | The objective O.ACCOUNTABILITY protects against local attacks by providing a mechanism to report behavior that may indicate a local attack is occurring or has occurred. |
| T.LIMITED_PHYSICAL_ACCESS | O.PROTECTED_STORAGE | The objective O.PROTECTED_STORAGE protects against unauthorized attempts to access physical storage used by the TOE. |
| A.PLATFORM | OE.PLATFORM | The operational environment objective OE.PLATFORM is realized through A.PLATFORM. |
| | | 11 |

| A.PROPER_USER | OE.PROPER_USER | The operational environment objective OE.PROPER_USER is realized through A.PROPER_USER. |
|----------------|-----------------|---|
| A.PROPER_ADMIN | OE.PROPER_ADMIN | The operational environment objective OE.PROPER_ADMIN is realized through A.PROPER_ADMIN. |

8 Security Requirements

This chapter describes the security requirements which have to be fulfilled by the product under evaluation. Those requirements comprise functional components from Part 2 and assurance components from Part 3 of [CC]. The following conventions are used for the completion of operations:

- Refinement operation (denoted by **bold text** or strikethrough text): is used to add details to a requirement (including replacing an assignment with a more restrictive selection) or to remove part of the requirement that is made irrelevant through the completion of another operation, and thus further restricts a requirement.
- Selection (denoted by italicized text): is used to select one or more options provided by the [CC] in stating a requirement.
- Assignment operation (denoted by *italicized text*): is used to assign a specific value to an unspecified parameter, such as the length of a password. Showing the value in square brackets indicates assignment.
- Iteration operation: is indicated by appending the SFR name with a slash and unique identifier suggesting the purpose of the operation, e.g. "/EXAMPLE1."

8.1 TOE Security Functional Requirements

This PP-Module does not define any mandatory SFRs.

8.2 TOE Security Functional Requirements Rationale

The following rationale provides justification for each security objective for the TOE, showing that the SFRs are suitable to meet and achieve the security objectives:

| | OBJECTIVE | ADDRESSED BY | RATIONALE |
|-------------------|-----------|-----------------------------------|-----------|
| FAU_GEN.1 | | 'cause FAU_GEN.1 is awesome | |
| FTP_ITC_EXT.1 | | Cause FTP reasons | |
| FPT_SBOP_EXT.1 | | For reasons | |
| FPT_ASLR_EXT.1 | | ASLR For reasons | |
| FPT_TUD_EXT.1 | | For reasons | |
| FPT_TUD_EXT.2 | | For reasons | |
| FCS_COP.1/HASH | | For reasons | |
| FCS_COP.1/SIGN | | For reasons | |
| FCS_COP.1/KEYHMAC | | For reasons | |
| FPT_ACF_EXT.1 | | For reasons | |
| FPT_SRP_EXT.1 | | For reasons | |
| FIA_X509_EXT.1 | | For reasons | |
| FPT_TST_EXT.1 | | For reasons | |
| FTP_ITC_EXT.1 | | For reasons | |
| FPT_W^X_EXT.1 | | For reasons | |
| FIA_AFL.1 | | For reasons | |
| FIA_UAU.5 | | For reasons | |
| FMT_MOF_EXT.1 | | For reasons | |
| FMT_SMF_EXT.1 | | For reasons | |
| FTA_TAB.1 | | For reasons | |

| FTP_TRP.1 | For reasons |
|---|---------------------------|
| FCS_STO_EXT.1, FCS_RBG_EXT.1, FCS_COP.1/ENCRYPT, FDP_ACF_EXT.1 | Rationale for a big chunk |
| FCS_RBG_EXT.1, FCS_CKM.1, FCS_CKM.2, FCS_CKM_EXT.4, FCS_COP.1/ENCRYPT, FCS_COP.1/HASH, FCS_COP.1/SIGN, FCS_COP.1/HMAC, FDP_IFC_EXT.1, FIA_X509_EXT.1, FIA_X509_EXT.2, FTP_ITC_EXT.1 | Rationale for a big chunk |

9 Consistency Rationale

Appendix A - Optional SFRs

A.1 Strictly Optional Requirements

This PP-Module does not define any Optional SFRs.

A.2 Objective Requirements

This PP-Module does not define any Objective SFRs.

A.3 Objective Requirements

This PP-Module does not define any Objective SFRs.

Appendix B - Selection-based SFRs

This PP-Module does not define any selection-based SFRs.

Appendix C - Extended Component Definitions

This appendix contains the definitions for the extended requirements that are used in the PP-Module including those used in Appendices A through C.

C.1 Background and Scope

This appendix provides a definition for all of the extended components introduced in this PP-Module. These components are identified in the following table:

Functional Class Functional Components

C.2 Extended Component Definitions

Appendix D - Inherently Satisfied Requirements

This appendix lists requirements that should be considered satisfied by products successfully evaluated against this Protection Profile. However, these requirements are not featured explicitly as SFRs and should not be included in the ST. They are not included as standalone SFRs because it would increase the time, cost, and complexity of evaluation. This approach is permitted by [CC] Part 1, 8.2 Dependencies between components.

This information benefits systems engineering activities which call for inclusion of particular security controls. Evaluation against the Protection Profile provides evidence that these controls are present and have been evaluated.

| Requirement | Rationale for Satisfaction |
|---|--|
| FIA_UAU.1 - Timing of authentication | FIA_AFL.1 implicitly requires that the OS perform all necessary actions, including those on behalf of the user who has not been authenticated, in order to authenticate; therefore it is duplicative to include these actions as a separate assignment and test. |
| FIA_UID.1 - Timing of identification | FIA_AFL.1 implicitly requires that the OS perform all necessary actions, including those on behalf of the user who has not been identified, in order to authenticate; therefore it is duplicative to include these actions as a separate assignment and test. |
| FMT_SMR.1 - Security roles | FMT_MOF_EXT.1 specifies role-based management functions that implicitly defines user and privileged accounts; therefore, it is duplicative to include separate role requirements. |
| FPT_STM.1 - Reliable time stamps | FAU_GEN.1.2 explicitly requires that the OS associate timestamps with audit records; therefore it is duplicative to include a separate timestamp requirement. |
| FTA_SSL.1 - TSF-initiated session locking | FMT_MOF_EXT.1 defines requirements for managing session locking; therefore, it is duplicative to include a separate session locking requirement. |
| FTA_SSL.2 - User-initiated locking | FMT_MOF_EXT.1 defines requirements for user-initiated session locking; therefore, it is duplicative to include a separate session locking requirement. |
| FAU_STG.1 - Protected audit trail storage | FPT_ACF_EXT.1 defines a requirement to protect audit logs; therefore, it is duplicative to include a separate protection of audit trail requirements. |
| FAU_GEN.2 - User identity association | FAU_GEN.1.2 explicitly requires that the OS record any user account associated with each event; therefore, it is duplicative to include a separate requirement to associate a user account with each event. |
| FAU_SAR.1 - Audit review | FPT_ACF_EXT.1.2 requires that audit logs (and other objects) are protected from reading by unprivileged users; therefore, it is duplicative to include a separate requirement to protect only the audit information. |

Appendix E - References

Appendix F - Bibliography

| Identifier | Title |
|------------|---|
| [CC] | Common Criteria for Information Technology Security Evaluation - • Part 1: Introduction and General Model, CCMB-2017-04-001, Version 3.1, Revision 5, April 2017. • Part 2: Security Functional Components, CCMB-2017-04-002, Version 3.1, Revision 5, April 2017. • Part 3: Security Assurance Components, CCMB-2017-04-003, Version 3.1, Revision 5, April 2017. |
| [CEM] | Common Evaluation Methodology for Information Technology Security - Evaluation Methodology, CCMB-2012-09-004, Version 3.1, Revision 4, September 2012. |
| [CESG] | CESG - End User Devices Security and Configuration Guidance |
| [CSA] | Computer Security Act of 1987, H.R. 145, June 11, 1987. |
| [OMB] | Reporting Incidents Involving Personally Identifiable Information and Incorporating the Cost for Security in Agency Information Technology Investments, OMB M-06-19, July 12, 2006. |

Appendix G - Acronyms

| Acronym | Meaning |
|---------|--|
| AES | Advanced Encryption Standard |
| API | Application Programming Interface |
| API | Application Programming Interface |
| ASLR | Address Space Layout Randomization |
| Base-PP | Base Protection Profile |
| CC | Common Criteria |
| CEM | Common Evaluation Methodology |
| CESG | Communications-Electronics Security Group |
| CMC | Certificate Management over CMS |
| CMS | Cryptographic Message Syntax |
| CN | Common Names |
| CRL | Certificate Revocation List |
| CSA | Computer Security Act |
| CSP | Critical Security Parameters |
| DAR | Data At Rest |
| DEP | Data Execution Prevention |
| DES | Data Encryption Standard |
| DHE | Diffie-Hellman Ephemeral |
| DNS | Domain Name System |
| DRBG | Deterministic Random Bit Generator |
| DSS | Digital Signature Standard |
| DSS | Digital Signature Standard |
| DT | Date/Time Vector |
| DTLS | Datagram Transport Layer Security |
| EAP | Extensible Authentication Protocol |
| ECDHE | Elliptic Curve Diffie-Hellman Ephemeral |
| ECDSA | Elliptic Curve Digital Signature Algorithm |
| EST | Enrollment over Secure Transport |
| FIPS | Federal Information Processing Standards |
| НМАС | Hash-based Message Authentication Code |
| HTTP | Hypertext Transfer Protocol |
| HTTPS | Hypertext Transfer Protocol Secure |
| IETF | Internet Engineering Task Force |
| IP | Internet Protocol |
| ISO | International Organization for Standardization |
| | |

| IT | Information Technology |
|--|--|
| ITSEF | Information Technology Security Evaluation Facility |
| NIAP | National Information Assurance Partnership |
| NIST | National Institute of Standards and Technology |
| OCSP | Online Certificate Status Protocol |
| OE | Operational Environment |
| OID | Object Identifier |
| OMB | Office of Management and Budget |
| os | Operating System |
| PII | Personally Identifiable Information |
| PKI | Public Key Infrastructure |
| PP | Protection Profile |
| PP | Protection Profile |
| PP-Configuration | Protection Profile Configuration |
| PP-Module | Protection Profile Module |
| RBG | Random Bit Generator |
| RFC | Request for Comment |
| RNG | Random Number Generator |
| RNGVS | Random Number Generator Validation System |
| S/MIME | Secure/Multi-purpose Internet Mail Extensions |
| SAN | Cultipat Altamatina Nama |
| SAN | Subject Alternative Name |
| SAR | Security Assurance Requirement |
| | · |
| SAR | Security Assurance Requirement |
| SAR SFR | Security Assurance Requirement Security Functional Requirement |
| SAR SFR SHA | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm |
| SAR SFR SHA SIP | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol |
| SAR SFR SHA SIP ST | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target |
| SAR SFR SHA SIP ST SWID | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification |
| SAR SFR SHA SIP ST SWID TLS | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security |
| SAR SFR SHA SIP ST SWID TLS TOE | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation |
| SAR SFR SHA SIP ST SWID TLS TOE TSF | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality |
| SAR SFR SHA SIP ST SWID TLS TOE TSF | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS URI | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification Uniform Resource Identifier |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS URI URL | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification Uniform Resource Identifier Uniform Resource Locator |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS URI URL USB | Security Assurance Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification Uniform Resource Identifier Uniform Resource Locator Universal Serial Bus |

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| Identifier | Title |
|------------|---|
| [CC] | Common Criteria for Information Technology Security Evaluation - Part 1: Introduction and General Model, CCMB-2017-04-001, Version 3.1, Revision 5, April 2017. Part 2: Security Functional Components, CCMB-2017-04-002, Version 3.1, Revision 5, April 2017. Part 3: Security Assurance Components, CCMB-2017-04-003, Version 3.1, Revision 5, April 2017. |
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| Acronym | Meaning |
|---------|--|
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| ASLR | Address Space Layout Randomization |
| Base-PP | Base Protection Profile |
| СС | Common Criteria |
| CEM | Common Evaluation Methodology |
| CESG | Communications-Electronics Security Group |
| CMC | Certificate Management over CMS |
| CMS | Cryptographic Message Syntax |
| CN | Common Names |
| CRL | Certificate Revocation List |
| CSA | Computer Security Act |
| CSP | Critical Security Parameters |
| DAR | Data At Rest |
| DEP | Data Execution Prevention |
| DES | Data Encryption Standard |
| DHE | Diffie-Hellman Ephemeral |
| DNS | Domain Name System |
| DRBG | Deterministic Random Bit Generator |
| DSS | Digital Signature Standard |
| DSS | Digital Signature Standard |
| DT | Date/Time Vector |
| DTLS | Datagram Transport Layer Security |
| EAP | Extensible Authentication Protocol |
| ECDHE | Elliptic Curve Diffie-Hellman Ephemeral |
| ECDSA | Elliptic Curve Digital Signature Algorithm |
| EST | Enrollment over Secure Transport |
| FIPS | Federal Information Processing Standards |
| НМАС | Hash-based Message Authentication Code |
| HTTP | Hypertext Transfer Protocol |
| HTTPS | Hypertext Transfer Protocol Secure |
| IETF | Internet Engineering Task Force |
| IP | Internet Protocol |
| ISO | International Organization for Standardization |
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| IT | Information Technology |
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| ITSEF | Information Technology Security Evaluation Facility |
| NIAP | National Information Assurance Partnership |
| NIST | National Institute of Standards and Technology |
| OCSP | Online Certificate Status Protocol |
| OE | Operational Environment |
| OID | Object Identifier |
| OMB | Office of Management and Budget |
| os | Operating System |
| PII | Personally Identifiable Information |
| PKI | Public Key Infrastructure |
| PP | Protection Profile |
| PP | Protection Profile |
| PP-Configuration | Protection Profile Configuration |
| PP-Module | Protection Profile Module |
| RBG | Random Bit Generator |
| RFC | Request for Comment |
| RNG | Random Number Generator |
| RNGVS | Random Number Generator Validation System |
| S/MIME | Secure/Multi-purpose Internet Mail Extensions |
| SAN | Cultipat Altamatina Nama |
| SAN | Subject Alternative Name |
| SAR | Security Assurance Requirement |
| | · |
| SAR | Security Assurance Requirement |
| SAR SFR | Security Assurance Requirement Security Functional Requirement |
| SAR SFR SHA | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm |
| SAR SFR SHA SIP | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol |
| SAR SFR SHA SIP ST | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target |
| SAR SFR SHA SIP ST SWID | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification |
| SAR SFR SHA SIP ST SWID TLS | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security |
| SAR SFR SHA SIP ST SWID TLS TOE | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation |
| SAR SFR SHA SIP ST SWID TLS TOE TSF | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality |
| SAR SFR SHA SIP ST SWID TLS TOE TSF | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS URI | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification Uniform Resource Identifier |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS URI URL | Security Assurance Requirement Security Functional Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification Uniform Resource Identifier Uniform Resource Locator |
| SAR SFR SHA SIP ST SWID TLS TOE TSF TSFI TSS URI URL USB | Security Assurance Requirement Secure Hash Algorithm Session Initiation Protocol Security Target Software Identification Transport Layer Security Target of Evaluation TOE Security Functionality TSF Interface TOE Summary Specification Uniform Resource Identifier Uniform Resource Locator Universal Serial Bus |