Profile Requirements List for ISO 15784-2

# Introduction

## General

This document provides the Profile Requirements List (PRL) for implementations of ISO 15784-2:20xx. Implementers are encouraged to fill out the tables in this document to indicate the capabilities of their implementation and to ensure that they fully comply with the standard.

Users may use a filled out PRL to compare devices for interoperability and may additionally use the forms as a part of planning tests and within procurement specifications.

## Notation

Table 1 defines the meaning of symbols that are used to indicate the status of a feature within this standard.

**Table 1 – Meaning of Symbols**

|  |  |
| --- | --- |
| Symbol | Meaning |
| m | mandatory |
| o | optional |
| o.<n> | optional, but support of at least one of the group of options labelled by the same number <n> is required |
| <predicate>: | the status is conditional on the indicated <predicate>; the predicate is a reference to the index of another feature in the PRL |

# Implementation Identification

Every implementation of this document should provide the information identified in Table 2.

**Table 2 – Implementation Identification**

|  |  |  |
| --- | --- | --- |
| Ref | Question | Response |
| 1 | Supplier |  |
| 2 | Contact point for queries about the profile |  |
| 3 | Implementation name(s) and version(s) |  |
| 4 | Date of statement |  |
| 5 | Other information: machine name, operating system, system name |  |
| 6 | Amendments or revisions to the base standards or profiles that are applicable. |  |

# Global Statement of Conformance

Table 3 provides the global statement of conformance.

**Table 3 – Global Statement of Conformance**

| Ref | Standard | Response (circle those that apply) |
| --- | --- | --- |
| 1 | Which roles does the implementation support? | manager agent |

# Basic Requirements

Table 4 lists the major requirements and options for an implementation of this document. To claim conformance, an implementation shall satisfy the mandatory conformance requirements that are applicable. Implementers should use this table to indicate whether each feature identified is supported.

**Table 4 – Protocol Requirements List**

| Index | Feature | Base Standard | Profile Clause | Profile Status[[1]](#footnote-1) | Support |
| --- | --- | --- | --- | --- | --- |
| snmpv3 | Does the implementation claim to support the SNMPv3 message processing model? | RFC 3412, Section 6 | 7.3 | m | Yes |
| manager | Does the implementation claim to be a manager? | RFC 3411, Section 3.1.3.1 | 7.4.1 | o.1 | Yes / No |
| agent | Does the implementation claim to be an agent? | RFC 3411, Section 3.1.3.2 | 7.4.1 | o.1 | Yes / No |
| cg | Does the implementation support a command generator application? | RFC 3413, Section 3.1 | 7.4.2 | manager:m  agent: o | Yes / No |
| cr | Does the implementation support a command responder application? | RFC 3413, Section 3.2 | 7.4.3 | manager:o  agent: m | Yes / No |
| no | Does the implementation support a notification originator application? | RFC 3411,  Section 3.3 | 7.4.4 | o | Yes / No |
| no-mgmt | Does the implementation manage the notification originator per ISO 26048-1? | ISO 26048-1 | 7.4.4 | no: m | Yes / NA |
| nr | Does the implementation support a notification receiver application? | RFC 3411, Section 3.4 | 7.4.5 | o | Yes / No |
| pf | Does the implementation support a proxy forwarder application? | RFC 3411, Section 3.5 | 7.4.6 | o | Yes / No |
| usm | Does the implementation support the User-based Security Model? | RFC 3414 | 7.5.1.1 | m | Yes |
| sha2 | Does the implementation support the SHA-2 authentication algorithm with USM? | RFC 7860 | 7.5.1.2 | m | Yes |
| aes | Does the implementation support the AES Encryption algorithm? | RFC 3826 | 7.5.1.3 | m | Yes |
| tsm | Does the implementation support the Transport Security Model (TSM)? | RFC 5591 | 7.5.2 | m | Yes |
| tlstm | Does the implementation support the TLS Transport Model (TSM) for SNMP? | RFC 6353 tlstm-update | 7.5.2 | m | Yes |
| vacm | Does the implementation support the View-based Access Control Model? | RFC 3415 | 7.6 | m | Yes |
| oper | Does the implementation support all required protocol operations for SNMPv3? | RFC 3416 | 7.7.1 | m | Yes |
| req-id | Does the implementation vary the request-id between requests? | — | 7.7.2 | manager:m | Yes / NA |
| w-port | Can the implementation use the well-known port numbers of 161 and 162? | IANA Port Number Registry | 7.8.1 | o | Yes / No |
| p-port | Can the implementation use private port numbers? | IANA Port Number Registry | 7.8.1 | o | Yes / No |
| udp4 | Does the implementation support UDP over IPv4? | RFC 3417  RFC 6353  RFC 9147 | 7.8.2 | m | Yes |
| udp6 | Does the implementation support UDP over IPv6? | RFC 3417  RFC 6353  RFC 9147 | 7.8.3 | o | Yes / No |
| tcp4 | Does the implementation support TCP over IPv4? | RFC 3430  RFC 6353  RFC 8446 | 7.8.4 | o | Yes / No |
| tcp6 | Does the implementation support TCP over IPv6? | RFC 3430  RFC 6353  RFC 8446 | 7.8.5 | o | Yes / No |
| pkt484 | Does the implementation support packet sizes of at least 484 octets? | RFC 3417  RFC 3430 | 7.8.3.1 | m | Yes |
| pkt1472 | Does the implementation support packet sizes of at least 1472 octets? | RFC 3417  RFC 3430 | 7.8.3.2 | o | Yes / No |
| dtls | Does the implementation support DTLS v1.3? | RFC 9147 | 7.8.6.1 | m | Yes |
| tls | Does the implementation support TLS v1.3? | RFC 8446 | 7.8.6.2 | tcp4:m  tcp6:m | Yes / NA |
| aes-gcm | Does the implementation support the TLS\_AES\_128\_GCM\_SHA256 cipher suite? | RFC 8446 | 7.8.6.3 | m | Yes |
| framework-mib | Does the implementation support the SNMP-FRAMEWORK-MIB? | RFC 3411 | 7.9.1 | agent: m | Yes / NA |
| mpd-mib | Does the implementation support the SNMP-MPD-MIB? | RFC 3412 | 7.9.1 | agent:m | Yes / NA |
| usm-mib | Does the implementation support the SNMP-USER-BASED-SM-MIB? | RFC 3414 | 7.9.1 | agent:m | Yes / NA |
| usm-aes-mib | Does the implementation support the SNMP-USM-AES-MIB? | RFC 3826 | 7.9.1 | agent:m | Yes / NA |
| vacm-mib | Does the implementation support the SNMP-VIEW-BASED-ACM-MIB? | RFC 3415 | 7.9.1 | agent:m | Yes / NA |
| snmpv2-mib | Does the implementation support the SNMPv2-MIB? | RFC 3418 | 7.9.1 | agent:m | Yes / NA |
| tsm-mib | Does the implementation support the SNMP-TSM-MIB? | RFC 5591 | 7.9.1 | agent:m | Yes / NA |
| tlstm-mib | Does the implementation support the SNMP-TLS-TM-MIB? | RFC 6353 | 7.9.1 | agent:m | Yes / NA |
| firewall-mib | Does the implementation support the ISO15784-2-Firewall MIB? | [[2]](#footnote-2) | 7.9.1 | agent:m | Yes / NA |
| target-mib | Does the implementation support the SNMP-TARGET-MIB? | RFC 3413 Section 4.1 | 7.9.2 7.9.3 | no:m pf:m | Yes / NA |
| snmp-notify-mib | Does the implementation support the SNMP-NOTIFICATION-MIB? | RFC 3413 Section 4.2 | 7.9.2 | no:m | Yes / NA |
| notify-mib | Does the implementation support the ISO26048-1-Notification MIB? | ISO 26048-1 | 7.9.2 | no:m | Yes / NA |
| proxy-mib | Does the implementation support the SNMP-PROXY-MIB? | RFC 3413 Section 4.3 | 7.9.3 | pf:m | Yes / NA |
| mibs | Are all supported SNMP objects instances of object types defined in a MIB module conforming to RFC 2578? | RFC 2578 | 7.9.4 | m | Yes |
| engine-id | Does the implementation support context engineID discovery | RFC 5343 | 7.10 | Manager: o | Yes / No / NA |
| resptime | Does the implementation respond to all messages within 100 ms (except when otherwise specified)? | — | 8.2 | agent: m | Yes |

1. See Clause 1.2 for a complete description of the values in this column. [↑](#footnote-ref-1)
2. The firewall MIB is available at <https://standards.iso.org/iso/15784/-2/ed-2/en/ISO15784-2-Firewall.mib> [↑](#footnote-ref-2)