

The Marway Structure of Management Information (SMI) MIB

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Abstract

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in The Internet community.

In particular, it defines the top level structure of management information and administrative registrations within the Marway private enterprise namespace.

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1. Introduction

This memo defines the top level structure of management information and administrative registrations within the Marway private enterprise namespace.

2. The Internet-Standard SNMP Management Framework

For a detailed overview of the documents that describe the current Internet-Standard Management Framework, please refer to section 7 of RFC 3410 [RFC3410].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. MIB objects are generally accessed through the Simple Network Management Protocol (SNMP).

Objects in the MIB are defined using the mechanisms defined in the Structure of Management Information (SMI). This memo specifies a MIB module that is compliant to the SMIV2, which is described in STD 58, RFC 2578 [RFC2578], STD 58, RFC 2579 [RFC2579] and STD 58, RFC 2580 [RFC2580].

3. Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

4. The Marway Structure of Management Information

Marway enterprise MIB modules are consistent with and extend as appropriate, management objects defined within IETF standards track MIB modules.

The Internet Assigned Numbers Authority (IANA) has assigned Marway the private enterprise number 41936. An up-to-date list of private enterprise number assignments is maintained by IANA at <http://www.iana.org/assignments/enterprise-numbers>.

The organization of the marway(41936) subtree follows:

agentIdents(1)

The agentIdents subtree provides an area for OBJECT-IDENTITY definitions used for the identification of Marway SNMP agents.

Definitions occur within the MARWAY-AGENT-CAPS MIB module.

agentCaps(2)

The agentCaps subtree provides an area AGENT-CAPABILITIES statements used to indicate the capabilities of Marway SNMP agents.

Definitions occur within the MARWAY-AGENT-CAPS MIB module.

marwayMibs(3)

The marwayMibs subtree provides an area for MODULE-IDENTITY definitions with Marway MIB modules.

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, MODULE-COMPLIANCE, OBJECT-GROUP and NOTIFICATION-GROUP definitions occur within the respective Marway MIB module.

Additions and deprecations to assignments within the top level of the Marway private enterprise name space may occur from time to time as documented in revisions to this memo.

5. Definitions

```
MARWAY-SMI-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-IDENTITY, enterprises
        FROM SNMPv2-SMI;          -- [RFC2578]

marwaySmiMib MODULE-IDENTITY
    LAST-UPDATED "201704100000Z"    -- 10 April 2017, midnight
    ORGANIZATION "Marway Power Solutions"
    CONTACT-INFO
        "Marway Power Solutions
        1721 S. Grand Avenue
        Santa Ana, California 92705
        USA

        Telephone:  +1 714 917 6200
        EMail:       support@marway.com
        URL:         http://www.marway.com

        Send comments to <support@marway.com>
        "
    DESCRIPTION
        "The top level organization of the Marway private
        enterprise name space.

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        The MARWAY-SMI-MIB module is part of Marway
        publication, `The Marway SMI MIB', April 2017.

        See the publication itself for full legal notices.
        "

-- Revision log
    REVISION      "201704100000Z"    -- 10 April 2017, midnight
    DESCRIPTION
        "Initial version, as part of Marway publication `The
        Marway SMI MIB', April 2017.
        "
    ::= { marwayMibs 1 }
```

```
marway OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION
    "The private enterprise number assigned to Marway by
    the Internet Assigned Numbers Authority (IANA).
    "
  ::= { enterprises 41936 }

agentIds OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION
    "The agentIds subtree provides an area for OID
    assignments used to identify Marway managed systems.

    Marway agent identity values are exposed by the
    sysObjectID object.

    Definitions occur within the MARWAY-AGENT-CAPS MIB
    module.
    "
  ::= { marway 1 }

agentCaps OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION
    "The agentCaps subtree provides an area for OID
    assignments as used in Marway AGENT-CAPABILITIES
    macros.

    Definitions occur within the MARWAY-AGENT-CAPS MIB
    module.
    "
  ::= { marway 2 }

marwayMibs OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION
    "The marwayMibs subtree contains assignments as used
    in MODULE-IDENTITY macros in Marway MIB modules.

    MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
    MODULE-COMPLIANCE, OBJECT-GROUP and NOTIFICATION-
    GROUP definitions occur within the respective Marway
    MIB module.
    "
  ::= { marway 3 }
```

```
-- The following list tracks assignments known as of this
-- revision of the MARWAY-SMI-MIB.
--
-- marwaySmiMib           { marwayMibs 1 }
-- (reserved)           { marwayMibs 2 }
-- marwayAgentCapsMib    { marwayMibs 3 }
-- marwayChassisMib      ( marwayMibs 4 }
-- marwaySensorMib       ( marwayMibs 5 }
-- marwayPowerMib        ( marwayMibs 6 }
```

END

6. Acknowledgments

The production and maintenance of this memo is a group effort of the Marway development team.

7. Security Considerations

This module does not define any management objects. Instead, it defines the top level assignments within the Marway enterprise name space.

Meaningful security considerations can only be written in MIB modules that define management objects. Therefore, this module does not present any known security concerns.

8. References

8.1 Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.
- [RFC2578] McCloghrie, K., Perkins, D., Schoenwaelder, J., Case, J., Rose, M., and S. Waldbusser, "Structure of Management Information Version 2 (SMIV2)", STD 58, RFC 2578, April 1999.
- [RFC2579] McCloghrie, K., Perkins, D., Schoenwaelder, J., Case, J., Rose, M., and S. Waldbusser, "Textual Conventions for SMIV2", STD 58, RFC 2579, April 1999.
- [RFC2580] McCloghrie, K., Perkins, D., Schoenwaelder, J., Case, J., Rose, M., and S. Waldbusser, "Conformance Statements for SMIV2", STD 58, RFC 2580, April 1999.

8.2 Informative References

- [RFC3410] Case, J., Mundy, R., Partain, D., and B. Stewart, "Introduction and Applicability Statements for Internet-Standard Network Management Framework", RFC 3410, December, 2002.

Change Log

Changes introduced in revision "20170410000Z", 10 April 2017
- initial version

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