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Diameter Credit Control Application MIB
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Status of this Memo

Copyright Notice

Abstract

Along with providing support for certain basic authentication, authorization and accounting functions, the Diameter base protocol is intended to provide a framework for AAA applications.

This document defines the Management Information Base (MIB) module which describes the minimum set of objects needed to manage an implementation of the Diameter Credit Control application.

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1. The Internet-Standard 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]. In particular, it describes managed objects used for managing the Diameter base protocol.

Discussion of this draft may be directed to the authors.

2. Requirements Language

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].

3. Overview

The base Diameter protocol [RFC3588] is never used alone; it is always extended for a particular application. Four standard Diameter applications have been defined to date: NASREQ [RFC4005], Mobile IP [RFC4004] [RFC3141], Credit Control [RFC4006] and EAP [RFC4072]; others may be defined in the future.

This MIB defines objects supporting the management of the Diameter Credit Control Application protocol as described in [RFC4006]. The MIB specification for the Diameter base protocol [BASEMIB] SHOULD be implemented prior to the implementation of this MIB.

4. Diameter Credit Control Application MIB Definitions

```
DIAMETER-CC-APPLICATION-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32,
```

```
       Counter32
           FROM SNMPv2-SMI -- [RFC2578]
       MODULE-COMPLIANCE,
       OBJECT-GROUP
           FROM SNMPv2-CONF -- [RFC2580]
       StorageType,
       RowStatus
           FROM SNMPv2-TC -- [RFC2579]
       InetAddressType,
       InetAddress
           FROM INET-ADDRESS-MIB -- [RFC4001]
       SnmpAdminString
           FROM SNMP-FRAMEWORK-MIB; -- [RFC3411]

   diameterCCAMIB MODULE-IDENTITY
         LAST-UPDATED "200903060000Z" -- 06 March 2009
         ORGANIZATION "IETF dime Working Group."
         CONTACT-INFO
             "Glen Zorn
              Network Zen
              1310 East Thomas Street
              Seattle, WA 98102
              USA
              Phone: +1 (206) 377 9035
              Email: gwz@net-zen.net"
          DESCRIPTION
              "The MIB module for entities implementing the
              Diameter Credit Control Application, RFC 4006.

              Copyright (C) The Internet Society (2009).  This initial
              version of this MIB module was published in RFC yyyy;
              for full legal notices see the RFC itself.  Supplementary
              information may be available on
              http://www.ietf.org/copyrights/ianamib.html."
   -- RFC Ed.: replace yyyy with actual RFC number and remove this note

         REVISION "200903060000Z" -- 06 March 2009
         DESCRIPTION "Initial version as published in RFC yyyy"
   -- RFC Ed.: replace yyyy with actual RFC number and remove this note
         ::= { mib-2 119 }  -- Experimental value assigned by IANA.

   -- Top-Level Components of this MIB.
   diameterCcAppMIB             OBJECT ::=
                                        { diameterMIB 2 }
   diameterCcAppTraps           OBJECT IDENTIFIER ::=
                                        { diameterCcAppMIB 0 }
   diameterCcAppObjects         OBJECT IDENTIFIER ::=
                                        { diameterCcAppMIB 1 }
```

```
   diameterCcAppConform         OBJECT IDENTIFIER ::=
                                        { diameterCcAppMIB 2 }

   dccaHostCfgs          OBJECT IDENTIFIER ::= { diameterCcAppObjects 1 }
   dccaPeerCfgs         OBJECT IDENTIFIER ::= { diameterCCAMIBObjects 2 }
   dccaPeerStats         OBJECT IDENTIFIER ::= { diameterCcAppObjects 3 }

   dccaHostID OBJECT-TYPE
          SYNTAX     SnmpAdminString
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "The implementation identification string for
                 the Diameter software in use on the system,
                 for example; 'diameterd'"
          ::= { dccaHostCfgs 1 }

   dccaHostIpAddrTable OBJECT-TYPE
          SYNTAX          SEQUENCE OF DccaHostIpAddrEntry
          MAX-ACCESS      not-accessible
          STATUS          current
          DESCRIPTION
               "The table listing the Diameter
               Credit Control host's IP Addresses."
          ::= { dccaHostCfgs 2 }

   dccaHostIpAddrEntry OBJECT-TYPE
          SYNTAX          DccaHostIpAddrEntry
          MAX-ACCESS      not-accessible
          STATUS          current
          DESCRIPTION
               "A row entry representing a Diameter
               Credit Control host IP Address."
          INDEX           { dccaHostIpAddrIndex }
          ::= { dccaHostIpAddrTable 1 }

   DccaHostIpAddrEntry ::= SEQUENCE {
          dccaHostIpAddrIndex Unsigned32,
          dccaHostIpAddrType  InetAddressType,
          dccaHostIpAddress   InetAddress
   }

   dccaHostIpAddrIndex OBJECT-TYPE
          SYNTAX       Unsigned32 (1..4294967295 )
          MAX-ACCESS   not-accessible
          STATUS       current
          DESCRIPTION
               "A number uniquely identifying the number
```

```
               of IP Addresses supported by this Diameter
               Credit Control host."
          ::= { dccaHostIpAddrEntry 1 }

   dccaHostIpAddrType OBJECT-TYPE
          SYNTAX       InetAddressType
          MAX-ACCESS   read-only
          STATUS       current
          DESCRIPTION
               "The type of internet address stored
               in dccaHostIpAddress."
       ::= { dccaHostIpAddrEntry 2 }

   dccaHostIpAddress OBJECT-TYPE
          SYNTAX       InetAddress
          MAX-ACCESS   read-only
          STATUS       current
          DESCRIPTION
               "The IP-Address of the host, which is of the
               type specified in dccaHostIpAddrType."
       ::= { dccaHostIpAddrEntry 3 }

   dccaPeerTable OBJECT-TYPE
          SYNTAX     SEQUENCE OF DcaPeerEntry
          MAX-ACCESS not-accessible
          STATUS     current
          DESCRIPTION
                "The table listing information regarding
                 the discovered or configured Diameter
                 Credit Control peers."
          ::= { dccaPeerCfgs 1 }

   dccaPeerEntry OBJECT-TYPE
          SYNTAX     DcaPeerEntry
          MAX-ACCESS not-accessible
          STATUS     current
          DESCRIPTION
                "A row entry representing a discovered
                 or configured Diameter Credit Control
                 peer."
          INDEX      { dccaPeerIndex }
          ::= { dccaPeerTable 1 }

   DcaPeerEntry ::= SEQUENCE {
          dccaPeerIndex                Unsigned32,
          dccaPeerId                   SnmpAdminString,
          dccaPeerFirmwareRevision     Unsigned32,
          dccaPeerStorageType          StorageType,
```

```
          dccaPeerStatus             RowStatus }

   dccaPeerIndex OBJECT-TYPE
          SYNTAX     Unsigned32 (1..4294967295)
          MAX-ACCESS not-accessible
          STATUS     current
          DESCRIPTION
                "A number uniquely identifying each Diameter
                 Credit Control peer with which this host
                 communicates."
          ::= { dccaPeerEntry  1 }

   dccaPeerId OBJECT-TYPE
          SYNTAX     SnmpAdminString
          MAX-ACCESS read-create
          STATUS     current
          DESCRIPTION
                "The server identifier for the Diameter
                 Credit Control peer."
          ::= { dccaPeerEntry  2 }

   dccaPeerFirmwareRevision OBJECT-TYPE
          SYNTAX     Unsigned32 (1..4294967295)
          MAX-ACCESS read-create
          STATUS     current
          DESCRIPTION
                "Firmware revision of peer.  If no firmware
                 revision, the revision of the Diameter
                 Credit Control software
                 module may be reported instead."
          ::= { dccaPeerEntry 3 }

   dccaPeerStorageType OBJECT-TYPE
       SYNTAX        StorageType
       MAX-ACCESS    read-create
       STATUS        current
       DESCRIPTION
               "The storage type for this conceptual row. None
                of the columnar objects is writable when the
                conceptual row is permanent."
       REFERENCE
               "Textual Conventions for SMIv2, Section 2."
       DEFVAL        { nonVolatile }
       ::= { dccaPeerEntry 4 }

   dccaPeerStatus OBJECT-TYPE
          SYNTAX     RowStatus
          MAX-ACCESS read-create
```

```
          STATUS     current
          DESCRIPTION
       DESCRIPTION
               "The status of this conceptual row.

               To create a row in this table, a manager must
               set this object to either createAndGo(4) or
               createAndWait(5).

               Until instances of all corresponding columns
               are appropriately configured, the value of the
               corresponding instance of the
               dccaPeerRowStatus column is 'notReady'.

               In particular, a newly created row cannot be
               made active until the corresponding dccaPeerId
               has been set.

               dccaPeerId may not be modified while the
               value of this object is active(1):
               An attempt to set these objects while the value
               of dccaPeerRowStatus is active(1) will result
               in an inconsistentValue error.

               Entries in this table with dccaPeerRowStatus
               equal to active(1) remain in the table until
               destroyed.

               Entries in this table with dccaPeerRowStatus
               equal to values other than active(1) will be
               destroyed after timeout (5 minutes).

               If a dccaPeerId being created via SNMP already
               exists in another active dccaPeerEntry, then a
               newly created row
               cannot be made active until the original row
               with the dccaPeerId value is destroyed.

               Upon reload, dccaPeerIndex values may be
               changed."
          ::= { dccaPeerEntry 5 }

   dccaPeerVendorTable OBJECT-TYPE
       SYNTAX          SEQUENCE OF DccaPeerVendorEntry
       MAX-ACCESS      not-accessible
       STATUS          current
       DESCRIPTION
               "The table listing the Vendor IDs
```

```
                supported by the peer."
        ::= { dccaPeerCfgs 2 }

   dccaPeerVendorEntry OBJECT-TYPE
       SYNTAX          DccaPeerVendorEntry
       MAX-ACCESS      not-accessible
       STATUS          current
       DESCRIPTION
               "A row entry representing a
               Vendor ID supported by the peer."
       INDEX           {
                           dccaPeerIndex,
                           dccaPeerVendorIndex
                       }
       ::= { dccaPeerVendorTable 1 }

   DccaPeerVendorEntry ::= SEQUENCE {
           dccaPeerVendorIndex       Unsigned32,
           dccaPeerVendorId          Unsigned32,
           dccaPeerVendorStorageType StorageType,
           dccaPeerVendorRowStatus   RowStatus
   }

   dccaPeerVendorIndex OBJECT-TYPE
       SYNTAX          Unsigned32 (1..4294967295 )
       MAX-ACCESS      not-accessible
       STATUS          current
       DESCRIPTION
               "A number uniquely identifying the Vendor
               ID supported by the peer."
       ::= { dccaPeerVendorEntry 1 }

   dccaPeerVendorId OBJECT-TYPE
       SYNTAX          Unsigned32
       MAX-ACCESS      read-create
       STATUS          current
       DESCRIPTION
               "The active Vendor IDs used for peer
                connections."
       ::= { dccaPeerVendorEntry 2 }

   dccaPeerVendorStorageType OBJECT-TYPE
       SYNTAX          StorageType
       MAX-ACCESS      read-create
       STATUS          current
       DESCRIPTION
               "The storage type for this conceptual row.  An
                agent implementing the table must allow adding
```

```
                dccaPeerVendorId into the table. None of the
                columnar objects is writable
                when the conceptual row is permanent."
       REFERENCE
                "Textual Conventions for SMIv2, Section 2."
       DEFVAL          { nonVolatile }
       ::= { dccaPeerVendorEntry 3 }

   dccaPeerVendorRowStatus OBJECT-TYPE
       SYNTAX          RowStatus
       MAX-ACCESS      read-create
       STATUS          current
       DESCRIPTION
               "The status of this conceptual row.

                To create a row in this table, a manager must
                set this object to either createAndGo(4) or
                createAndWait(5).

                Until instances of all corresponding columns
                are appropriately configured, the value of the
                corresponding instance of the
                dccaPeerVendorRowStatus column is 'notReady'.

                In particular, a newly created row cannot be
                made active until the corresponding
                dccaPeerVendorId has been set.

                dccaPeerVendorId may not be modified while the
                value of this object is active(1):
                An attempt to set these objects while the
                value of dccaPeerVendorRowStatus is active(1)
                will result in an inconsistentValue error.

                Entries in this table with
                dccaPeerVendorRowStatus equal to
                active(1) remain in the table until destroyed.

                Entries in this table with
                dccaPeerVendorRowStatus equal to
                values other than active(1) will be destroyed
                after timeout (5 minutes).

                If the peer vendor id being created via SNMP
                already exists
                in another active dccaPeerVendorEntry,
                then a newly
                created row cannot be made active until the
```

```
                original row with the peer vendor id value is
                destroyed.

                Upon reload, dccaPeerVendorIndex values may be
                changed."
       ::= { dccaPeerVendorEntry 4 }


   -- per-peer statistics

   dccaPerPeerStatsTable OBJECT-TYPE
          SYNTAX     SEQUENCE OF dccaPerPeerStatsEntry
          MAX-ACCESS not-accessible
          STATUS     current
          DESCRIPTION
                "The table listing the Diameter
                 Credit Control per-peer Statistics."
          ::= { dccaPeerStats 1 }

   dccaPerPeerStatsEntry OBJECT-TYPE
          SYNTAX     dccaPerPeerStatsEntry
          MAX-ACCESS not-accessible
          STATUS     current
          DESCRIPTION
                "A row entry representing a Diameter
                 Credit Control Peer."
          INDEX     { dccaPeerIndex }
          ::= { dccaPerPeerStatsTable 1 }

   dccaPerPeerStatsEntry ::= SEQUENCE {
          dccaPerPeerStatsCCRIn                      Counter32,
          dccaPerPeerStatsCCROut                     Counter32,
          dccaPerPeerStatsCCRDropped                 Counter32,
          dccaPerPeerStatsCCAIn                      Counter32,
          dccaPerPeerStatsCCAOut                     Counter32,
          dccaPerPeerStatsCCADropped                 Counter32,
          dccaPerPeerStatsRARIn                      Counter32,
          dccaPerPeerStatsRARDropped                 Counter32,
          dccaPerPeerStatsRAAOut                     Counter32,
          dccaPerPeerStatsRAADropped                 Counter32,
          dccaPerPeerStatsSTROut                     Counter32,
          dccaPerPeerStatsSTRDropped                 Counter32,
          dccaPerPeerStatsSTAIn                      Counter32,
          dccaPerPeerStatsSTADropped                 Counter32,
          dccaPerPeerStatsAAROut                     Counter32,
          dccaPerPeerStatsAARDropped                 Counter32,
          dccaPerPeerStatsAAAIn                      Counter32,
          dccaPerPeerStatsAAADropped                 Counter32,
```

```
        dccaPerPeerStatsASRIn                        Counter32,
        dccaPerPeerStatsASRDropped                   Counter32,
        dccaPerPeerStatsASAOut                       Counter32,
        dccaPerPeerStatsASADropped                   Counter32 }


   dccaPerPeerStatsCCRIn OBJECT-TYPE
        SYNTAX      Counter32
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
              "Number of Diameter Credit-Control-Request
              (CCR) messages received, per peer."
        ::= { dccaPerPeerStatsEntry 2 }

   dccaPerPeerStatsCCROut OBJECT-TYPE
        SYNTAX     Counter32
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
              "Number of Diameter Credit-Control-Request (CCR)
               messages sent, per peer."
        ::= { dccaPerPeerStatsEntry 3 }

   dccaPerPeerStatsCCRDropped OBJECT-TYPE
        SYNTAX     Counter32
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
              "Number of Diameter Credit-Control-Request (CCR)
               messages dropped, per peer."
        ::= { dccaPerPeerStatsEntry 4 }

   dccaPerPeerStatsCCAIn OBJECT-TYPE
        SYNTAX      Counter32
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
              "Number of Diameter Credit-Control-Answer (CCA)
               messages received, per peer."
        ::= { dccaPerPeerStatsEntry 5 }

   dccaPerPeerStatsCCAOut OBJECT-TYPE
        SYNTAX     Counter32
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
              "Number of Diameter Credit-Control-Answer (CCA)
```

```
                 messages sent, per peer."
          ::= { dccaPerPeerStatsEntry 6 }

   dccaPerPeerStatsCCADropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter Credit-Control-Answer (CCA)
                 messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 7 }

   dccaPerPeerStatsRARIn OBJECT-TYPE
          SYNTAX      Counter32
          MAX-ACCESS  read-only
          STATUS      current
          DESCRIPTION
                "Number of Diameter Re-Auth-Request (RAR)
                 messages received, per peer."
          ::= { dccaPerPeerStatsEntry 8 }

   dccaPerPeerStatsRARDropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter Re-Auth-Request (RAR)
                 messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 9 }

   dccaPerPeerStatsRAAOut OBJECT-TYPE
          SYNTAX      Counter32
          MAX-ACCESS  read-only
          STATUS      current
          DESCRIPTION
                "Number of Diameter Re-Auth-Answer (RAA)
                 messages transmitted, per peer."
          ::= { dccaPerPeerStatsEntry 10 }

   dccaPerPeerStatsRAADropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter Re-Auth-Answer (RAA)
                 messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 11 }
```

```
dccaPerPeerStatsSTROut OBJECT-TYPE
       SYNTAX      Counter32
       MAX-ACCESS  read-only
       STATUS      current
       DESCRIPTION
             "Number of Diameter
              Session-Termination-Request (STR)
              messages transmitted, per peer."
       ::= { dccaPerPeerStatsEntry 12 }

dccaPerPeerStatsSTRDropped OBJECT-TYPE
       SYNTAX     Counter32
       MAX-ACCESS read-only
       STATUS     current
       DESCRIPTION
             "Number of Diameter
              Session-Termination-Request (STR)
              messages dropped, per peer."
       ::= { dccaPerPeerStatsEntry 13 }

dccaPerPeerStatsSTAIn OBJECT-TYPE
       SYNTAX      Counter32
       MAX-ACCESS  read-only
       STATUS      current
       DESCRIPTION
             "Number of Diameter
              Session-Termination-Answer (STA)
              messages received, per peer."
       ::= { dccaPerPeerStatsEntry 14 }

dccaPerPeerStatsSTADropped OBJECT-TYPE
       SYNTAX     Counter32
       MAX-ACCESS read-only
       STATUS     current
       DESCRIPTION
             "Number of Diameter
              Session-Termination-Answer (STA)
              messages dropped, per peer."
       ::= { dccaPerPeerStatsEntry 15 }

dccaPerPeerStatsAAROut OBJECT-TYPE
       SYNTAX      Counter32
       MAX-ACCESS  read-only
       STATUS      current
       DESCRIPTION
             "Number of Diameter AA-Request (AAR)
              messages transmitted, per peer."
       ::= { dccaPerPeerStatsEntry 16 }
```

```
   dccaPerPeerStatsAARDropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter AA-Request (AAR)
                 messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 17 }

   dccaPerPeerStatsAAAIn OBJECT-TYPE
          SYNTAX      Counter32
          MAX-ACCESS  read-only
          STATUS      current
          DESCRIPTION
                "Number of Diameter AA-Answer (AAA)
                 messages received, per peer."
          ::= { dccaPerPeerStatsEntry 18 }

   dccaPerPeerStatsAAADropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter AA-Answer (AAA)
                 messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 19 }

   dccaPerPeerStatsASRIn OBJECT-TYPE
          SYNTAX      Counter32
          MAX-ACCESS  read-only
          STATUS      current
          DESCRIPTION
                "Number of Diameter Abort-Session-Request
                 (ASR) messages received, per peer."
          ::= { dccaPerPeerStatsEntry 20 }

   dccaPerPeerStatsASRDropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter Abort-Session-Request
                 (ASR) messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 21 }

   dccaPerPeerStatsASAOut OBJECT-TYPE
          SYNTAX      Counter32
          MAX-ACCESS  read-only
```

```
          STATUS      current
          DESCRIPTION
                "Number of Diameter Abort-Session-Answer
                 (ASA) messages transmitted, per peer."
          ::= { dccaPerPeerStatsEntry 22 }

   dccaPerPeerStatsASADropped OBJECT-TYPE
          SYNTAX     Counter32
          MAX-ACCESS read-only
          STATUS     current
          DESCRIPTION
                "Number of Diameter Abort-Session-Answer
                 (ASA) messages dropped, per peer."
          ::= { dccaPerPeerStatsEntry 23 }


   -- -- Conformance -- dccaMIBCompliances

   dccaMIBCompliances
     OBJECT IDENTIFIER ::= { diameterCcAppConform 1 } dccaMIBGroups
     OBJECT IDENTIFIER ::= { diameterCcAppConform 2 }

   -- -- Compliance Statements --

   dccaMIBCompliance MODULE-COMPLIANCE
          STATUS     current
          DESCRIPTION
               "The compliance statement for Diameter Credit
                Control application entities."
          MODULE -- this module
          MANDATORY-GROUPS { dccaPeerStatsGroup }

          GROUP
               dccaHostCfgGroup
          DESCRIPTION
               "This group is only mandatory for a system that
               supports Local DCCA Host configuration."

          GROUP
               dccaPeerCfgGroup
          DESCRIPTION
               "This group is only mandatory for a system that
               supports DCCA Peer configuration."

          ::= { dccaMIBCompliances 1 }

   -- -- Units of Conformance --
```

```
   dccaHostCfgGroup OBJECT-GROUP
         OBJECTS {
                 dccaHostAddressType,
                 dccaHostAddress,
                 dccaHostId
         }
         STATUS  current
         DESCRIPTION
               "A collection of objects providing
                configuration common to the server."
         ::= { dccaMIBGroups 1 }

   dccaPeerCfgGroup OBJECT-GROUP
         OBJECTS {
                 dccaPeerId,
                 dccaPeerVendorId,
                 dccaPeerStorageType,
                 dccaPeerVendorStorageType,
                 dccaPeerFirmwareRevision,
                 dccaPeerRowStatus,
                 dccaPeerVendorRowStatus
         }
         STATUS  current
         DESCRIPTION
               "A collection of objects providing peer
                configuration common to the server."
       ::= { dccaMIBGroups 2 }

   dccaPeerStatsGroup OBJECT-GROUP
         OBJECTS {
                 dccaPeerStatsCCRIn,
                 dccaPeerStatsCCROut,
                 dccaPeerStatsCCRDropped,
                 dccaPeerStatsCCAIn,
                 dccaPeerStatsCCAOut,
                 dccaPeerStatsCCADropped,
                 dccaPeerStatsRARIn,
                 dccaPeerStatsRARDropped,
                 dccaPeerStatsRAAOut,
                 dccaPeerStatsRAADropped,
                 dccaPeerStatsSTROut,
                 dccaPeerStatsSTRDropped,
                 dccaPeerStatsSTAIn,
                 dccaPeerStatsSTADropped,
                 dccaPeerStatsAAROut,
                 dccaPeerStatsAARDropped,
                 dccaPeerStatsAAAIn,
                 dccaPeerStatsAAADropped,
```

```
                dccaPeerStatsASRIn,
                dccaPeerStatsASRDropped,
                dccaPeerStatsASAOut,
                dccaPeerStatsASADropped
      }
      STATUS    current
      DESCRIPTION
              "A collection of objects providing peer
               statistics common to the server."
      ::= { dccaMIBGroups 3 }

   END
```

5. IANA Considerations

IANA is requested to assign an OID under mib-2.

6. Security Considerations

SNMPv1 by itself is not a secure environment. Even if the network itself is secure (for example by using IPSec), there is no control as to who on the secure network is allowed to access and GET (read) the objects in this MIB.

It is recommended that the implementers consider the security features as provided by the SNMPv3 framework. Specifically, the use of the User-based Security Model [RFC3414] and the View-based Access Control Model [RFC3415] is recommended.

It is then a customer/user responsibility to ensure that the SNMP entity giving access to an instance of this MIB, is properly configured to give access to the objects only to those principals (users) that have legitimate rights to indeed GET or SET (change/create/delete) them.

7. Acknowledgements

Thanks to Sumanth Mithra and Biswaranjan Panda for helpful suggestions and feedback.

8. References

8.1. Normative References

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8.2. Informative References

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