                     Diameter Credit Control Application MIB
                   draft-ietf-dime-diameter-cc-appl-mib-03.txt

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.

Status of this Memo

   This Internet-Draft is submitted to IETF in full conformance with the
   provisions of BCP 78 and BCP 79.

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   This Internet-Draft will expire on July 19, 2010.

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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
   ([RFC2578], [RFC2579], [RFC2580]).  In particular, it describes
   managed objects used for managing the Diameter Credit Control
   Application [RFC4006].

   Discussion of this draft may be directed to the dime Working Group of
   the IETF (dime@ietf.org)..


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 RFC 2119 [RFC2119].


3.  Overview

   The base Diameter protocol [RFC3588] is never used alone; it is
   always extended for a particular application.

   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
   [I-D.ietf-dime-diameter-base-protocol-mib] 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,
        mib-2
            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 "201001150000Z" -- 15 January 2010
         ORGANIZATION "IETF dime Working Group."
         CONTACT-INFO
             "Subash Comerica
              Cisco Systems
              Global Development Centre, Prestige Waterford
              No. 9 Brunton Road
              BGL3/MZ/
              Bangalore, Karnataka  560025
              India
              Phone: +91 80 4103 6427
              Email: subashtc@cisco.com"
          DESCRIPTION
             "The MIB module for entities implementing the
              Diameter Credit Control Application, RFC 4006.

              Copyright (C) The Internet Society (2010).  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 "201001150000Z" -- 15 January 2010
         DESCRIPTION "Initial version as published in RFC yyyy"

   -- RFC Ed.: replace yyyy with actual RFC number and remove this note

         ::= { mib-2 XXX }
```

```
   -- RFC Ed.: replace XXX with value assigned by IANA
   --          and remove this note

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

   dccaHostCfgs        OBJECT IDENTIFIER ::= { diameterCcAppObjects 1 }
   dccaPeerCfgs        OBJECT IDENTIFIER ::= { diameterCcAppObjects 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 DccaPeerEntry
        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        DccaPeerEntry
        MAX-ACCESS not-accessible
        STATUS        current
        DESCRIPTION
            "A row entry representing a discovered
```

```
              or configured Diameter Credit Control
              peer."
        INDEX     { dccaPeerIndex }
        ::= { dccaPeerTable 1 }

DccaPeerEntry ::= SEQUENCE {
        dccaPeerIndex              Unsigned32,
        dccaPeerId                 SnmpAdminString,
        dccaPeerFirmwareRevision   Unsigned32,
        dccaPeerStorageType        StorageType,
        dccaPeerRowStatus            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 }

    dccaPeerRowStatus 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
                    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 {
                dccaHostIpAddrType,
                dccaHostIpAddress,
                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 {
                dccaPerPeerStatsCCRIn,
                dccaPerPeerStatsCCROut,
                dccaPerPeerStatsCCRDropped,
                dccaPerPeerStatsCCAIn,
                dccaPerPeerStatsCCAOut,
                dccaPerPeerStatsCCADropped,
                dccaPerPeerStatsRARIn,
                dccaPerPeerStatsRARDropped,
                dccaPerPeerStatsRAAOut,
                dccaPerPeerStatsRAADropped,
                dccaPerPeerStatsSTROut,
```

```
                dccaPerPeerStatsSTRDropped,
                dccaPerPeerStatsSTAIn,
                dccaPerPeerStatsSTADropped,
                dccaPerPeerStatsAAROut,
                dccaPerPeerStatsAARDropped,
                dccaPerPeerStatsAAAIn,
                dccaPerPeerStatsAAADropped,
                dccaPerPeerStatsASRIn,
                dccaPerPeerStatsASRDropped,
                dccaPerPeerStatsASAOut,
                dccaPerPeerStatsASADropped
        }
        STATUS    current
        DESCRIPTION
                "A collection of objects providing peer
                 statistics common to the server."
        ::= { dccaMIBGroups 3 }

    END
```

## 5.  IANA Considerations

The MIB module in this document uses the following IANA-assigned
OBJECT IDENTIFIER values recorded in the SMI Numbers registry:

```
            Descriptor           OBJECT IDENTIFIER value
            --------------       -----------------------
            diameterCCAMIB       { mib-2 XXX }
```

Editor's Note (to be removed prior to publication)  The IANA is
    requested to assign a value for "XXX" under the 'mib-2' subtree
    and to record the assignment in the SMI Numbers registry.  When
    the assignment has been made, the RFC Editor is asked to replace
    "XXX" (here and in the MIB module) with the assigned value and to
    remove this note.

## 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

   [RFC2119]  Bradner, S., "Key words for use in RFCs to Indicate
              Requirement Levels", BCP 14, RFC 2119, March 1997.

   [RFC2578]  McCloghrie, K., Ed., Perkins, D., Ed., and J.
              Schoenwaelder, Ed., "Structure of Management Information
              Version 2 (SMIv2)", STD 58, RFC 2578, April 1999.

   [RFC2579]  McCloghrie, K., Ed., Perkins, D., Ed., and J.
              Schoenwaelder, Ed., "Textual Conventions for SMIv2",
              STD 58, RFC 2579, April 1999.

   [RFC2580]  McCloghrie, K., Perkins, D., and J. Schoenwaelder,
              "Conformance Statements for SMIv2", STD 58, RFC 2580,
              April 1999.

   [RFC3411]  Harrington, D., Presuhn, R., and B. Wijnen, "An
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