

Superseded

CableHome™ CDP MIB Specification

CH-SP-MIB-CDP-I02-020920

Issued

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Key to Document Status Codes:

- Work in Progress** An incomplete document, designed to guide discussion and generate feedback, that may include several alternative requirements for consideration.

- Draft** A document in specification format considered largely complete, but lacking review by Members and vendors. Drafts are susceptible to substantial change during the review process.

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- Closed** A static document, reviewed, tested, validated, and closed to further engineering change requests to the specification through CableLabs.

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1 SCOPE

This specification describes CableHome DHCP Portal (CDP) MIB requirement.

2 REFERENCES

2.1 Normative references

In order to claim compliance with this specification, it is necessary to conform to the following standards and other works as indicated, in addition to the other requirements of this specification. Notwithstanding, intellectual property rights may be required to use or implement such normative references.

[1] CableHome 1.0 Specification, CH-SP-I02-020920, September 20, 2002.

2.2 Reference Acquisition

CableLabs Specifications:

- Cable Television Laboratories, Inc <http://www.cablelabs.com/>

3 ACRONYMS

This specification uses the following abbreviations:

CAP	CableHome Addressing Portal
CDC	CableHome DHCP Client (component of CDP)
CDP	CableHome DHCP Portal
CDS	CableHome DHCP Server (component of CDP)
CMP	CableHome Management Portal
DHCP	Dynamic Host Configuration Protocol
NAPT	Network Address and Port Translation
NAT	Network Address Translation
PS	Portal Services

4 REQUIREMENTS

The CableHome™ CDP MIB MUST be implemented as defined below.

```

CABH-CDP-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
        Integer32,
        Unsigned32,
        TruthValue,
        TimeStamp,
        RowStatus,
    TEXTUAL-CONVENTION
        FROM SNMPv2-TC

    OBJECT-GROUP,
    MODULE-COMPLIANCE
        FROM SNMPv2-CONF

    InetAddressType,
    InetAddress,
    InetAddressIPv4,
    InetAddressIPv6
        FROM INET-ADDRESS-MIB

    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB -- RFC2571

    clabProjCableHome
        FROM CLAB-DEF-MIB;

```

```

-----
--
-- History:
--
-- Date          Modified by      Reason
-- 04/05/02      [redacted]         Issued I01
-- 09/20/02      [redacted]         Issued I02
--
-----

```

```

cabhCdpMib MODULE-IDENTITY
    LAST-UPDATED      "0209200000Z" -- September 20, 2002
    ORGANIZATION      "CableLabs Broadband Access Department"
    CONTACT-INFO
        "Kevin Luehrs
        Postal: Cable Television Laboratories, Inc.
            400 Centennial Parkway
            Louisville, Colorado 80027-1266
            U.S.A.
        Phone:  +1 303-661-9100
        Fax:    +1 303-661-9199
        E-mail: k.luehrs@cablelabs.com"
    DESCRIPTION
        "This MIB module supplies the basic management objects
        for the CableHome DHCP Portal (CDP) portion of the PS database.

```

```

Acknowledgements:
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Itay Sherman    - Texas Instruments

```

```

        Chris Zacker      -      Broadcom
        Rick Vetter      -      Consultant to CableLabs
        John Bevilacqua  -      YAS"
 ::= { clabProjCableHome 4 }

-- Textual conventions
CabhCdpLanTransDhcpClientId ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "LAN-Trans DHCP option61 information."
    SYNTAX OCTET STRING (SIZE (1..80))

cabhCdpObjects OBJECT IDENTIFIER ::= { cabhCdpMib 1 }
cabhCdpBase OBJECT IDENTIFIER ::= { cabhCdpObjects 1 }
cabhCdpAddr OBJECT IDENTIFIER ::= { cabhCdpObjects 2 }
cabhCdpServer OBJECT IDENTIFIER ::= { cabhCdpObjects 3 }
--
-- The following group describes the base objects in the Cable Home
-- DHCP Portal. The rest of this group deals addresses defined on
-- the LAN side.
--
cabhCdpSetToFactory OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to true(1) causes the DHCP default options to be
        returned back to factory defaults
        and all current mappings to use the factory default settings at the next
        lease renewal time. Reading this object
        always returns false(2). When cabhCdpSetToFactory is set to true, the
        following actions occur: 1. Reset all
        default CDS DHCP options to the factory defaults. 2. The CDS will offer
        the factory default DHCP options
        at the next lease renewal time.
        The objects set to factory defaults are:
        cabhCdpLanTransThreshold,
        cabhCdpLanTransAction,
        cabhCdpWanDataIpAddrCount,
        cabhCdpLanStartType,
        cabhCdpLanPoolStart,
        cabhCdpLanPoolEndType,
        cabhCdpLanPoolEnd,
        cabhCdpNetworkNumber,
        cabhCdpServerSubnetMaskType,
        cabhCdpServerSubnetMask,
        cabhCdpServerTimeOffset,
        cabhCdpServerRouterType,
        cabhCdpServerRouter,
        cabhCdpServerDnsAddressType,
        cabhCdpServerDnsAddress,
        cabhCdpServerSyslogAddressType,
        cabhCdpServerSyslogAddress,
        cabhCdpServerDomainName,
        cabhCdpServerTTL,
        cabhCdpServerInterfaceMTU,
        cabhCdpServerVendorSpecific,
        cabhCdpServerLeaseTime,
        cabhCdpServerDhcpAddressType,
        cabhCdpServerDhcpAddress"
REFERENCE

```

```

""
 ::= { cabhCdpBase 1 }

cabhCdpLanTransCurCount OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current number of LAN-Trans IP addresses for
        Translated addresses (NAT and NAPT Interconnects).
        This is a count of LAN side addresses."
    REFERENCE
        ""
    ::= { cabhCdpBase 2 }

cabhCdpLanTransThreshold OBJECT-TYPE
    SYNTAX      INTEGER (0..65533)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The threshold number of LAN-Trans IP addresses allocated or assigned above
        which the PS generates an alarm condition. Whenever an attempt is made to allocate
        a LAN-Trans IP address when cabhCdpLanTransCurCount is greater than or equal to
        cabhCdpLanTransThreshold, an event is generated. A value of 0 indicates that the
        CDP sets the threshold at the highest number of addresses in the LAN address pool."

    DEFVAL { 0 }
    ::= { cabhCdpBase 3 }

cabhCdpLanTransAction OBJECT-TYPE
    SYNTAX      INTEGER {
        normal      (1),
        noAssignment (2)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The action taken when the CDS assigns a LAN-Trans address
        and the number of LAN-Trans addresses assigned
        (cabhCdpLanTransCurCount) is greater than the threshold
        (cabhCdpLanTransThreshold) The actions are as follows:

                normal -      assign a LAN-Trans IP address and treat the
                               interconnection between the LAN and WAN as
                               would normally occur if the threshold was not
                               exceeded.

                noAssignment - do not assign a LAN-Trans IP address and do
                               not create an interconnection"

    REFERENCE
        ""
    DEFVAL { normal }
    ::= { cabhCdpBase 4 }

cabhCdpWanDataIpAddrCount OBJECT-TYPE
    SYNTAX      INTEGER ( 0..63 )
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION

```

"This is the number of WAN-Data IP addresses that the CDC needs to acquire via DHCP."

```

REFERENCE
    ""
    DEFVAL { 0 }
 ::= { cabhCdpBase 5 }

--
-- CDP Address Management Tables
--
=====
--
-- cabhCdpLanAddrTable (CDP LAN Address Table)
--
-- The cabhCdpLanAddrTable contains the DHCP parameters
-- for each IP address served to the LAN-Trans realm.
--
-- This table contains a list of entries for the LAN side CDP parameters. These
parameters can be set
-- either by the CDP or by the cable operator through the CMP.
--
=====

cabhCdpLanAddrTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF CabhCdpLanAddrEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table is a list of LAN-Trans realm parameters. This
        list has one entry for each allocated LAN-Trans IP
        address."
    ::= { cabhCdpAddr 1 }

cabhCdpLanAddrEntry OBJECT-TYPE
    SYNTAX      CabhCdpLanAddrEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of general parameter for CDP mappings."
    INDEX { cabhCdpLanAddrIpType, cabhCdpLanAddrIp }
    ::= { cabhCdpLanAddrTable 1 }

CabhCdpLanAddrEntry ::= SEQUENCE {
cabhCdpLanAddrIpType          InetAddressType,
    cabhCdpLanAddrIp          InetAddress,
    cabhCdpLanAddrClientID    CabhCdpLanTransDhcpClientId,
    cabhCdpLanAddrLeaseCreateTime  TimeStamp,
    cabhCdpLanAddrLeaseExpireTime  TimeStamp,
    cabhCdpLanAddrMethod        INTEGER,
    cabhCdpLanAddrHostName      SnmpAdminString,
    cabhCdpLanAddrRowStatus     RowStatus
}

cabhCdpLanAddrIpType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The address type assigned on the LAN side for the CDP Address Table."
    DEFVAL { ipv4 }
    ::= { cabhCdpLanAddrEntry 1 }

```

```

cabhCdpLanAddrIp OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The address assigned on the LAN side for the CDP Address Table. This parameter is
        entered by the CDP
        when the CDS grants a lease to a LAN IP Device in the LAN-Trans realm and creates a
        row in this table.
        Alternatively, this parameter can be created by the NMS through the CMP, when the NMS
        creates a new
        DHCP address reservation by accessing the cabhCdpLanAddrRowStatus object with an index
        comprised of
        a new cabhCdpLanAddrIp and its Type."

```

```
 ::= { cabhCdpLanAddrEntry 2 }
```

```

cabhCdpLanAddrClientID OBJECT-TYPE
    SYNTAX      CabhCdpLanTransDhcpClientId
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The client ID as indicated in Option 61 of the DHCP Discover. There is a
        one-to-one relationship between the Client ID and the assigned LAN address.
        This parameter is entered by the CDP when the CDS grants a lease to a LAN IP
        Device in the LANpTrans realm and creates a row in this table. Alternatively,
        this parameter can be created by the NMS through the CMP, when the NMS creates
        a new DHCP address reservation by accessing the cabhCdpLanDataAddrRowStatus
        object with an index comprised of a new cabhCdpLanAddrIp and a new
        cabhCdpLanAddrClientID."

```

```
 ::= { cabhCdpLanAddrEntry 3 }
```

```

cabhCdpLanAddrLeaseCreateTime OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The time the LAN side of the CDP LAN Table was created.
        This entry is only set the cabhCdpLanAddrTable
        entry is created and the entry does not already exist. In
        other words, this value is not overwritten at lease renewal
        time."

```

```
 ::= { cabhCdpLanAddrEntry 4 }
```

```

cabhCdpLanAddrLeaseExpireTime OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This is the time that the LAN side lease expires. When
        the lease expires this entry will be deleted from the table."

```

```
 ::= { cabhCdpLanAddrEntry 5 }
```

```

cabhCdpLanAddrMethod OBJECT-TYPE
    SYNTAX      INTEGER {
        cmp (1),
        cdp (2)
    }
    MAX-ACCESS  read-only
    STATUS      current

```

DESCRIPTION

"The method that created this Address Entry. cmp indicates that configuration through the CMP established this row (entry). cdp indicates that a DHCP discover established this row (entry)."

```
::= { cabhCdpLanAddrEntry 6 }
```

cabhCdpLanAddrHostName OBJECT-TYPE

```
SYNTAX      SnmpAdminString(SIZE(0..80))
```

```
MAX-ACCESS  read-only
```

```
STATUS      current
```

DESCRIPTION

"This is the Host Name of the LAN IP address, based on DHCP option 12."

```
::= { cabhCdpLanAddrEntry 7 }
```

cabhCdpLanAddrRowStatus OBJECT-TYPE

```
SYNTAX      RowStatus
```

```
MAX-ACCESS  read-create
```

```
STATUS      current
```

DESCRIPTION

"The RowStatus interlock for creation and deletion."

```
::= { cabhCdpLanAddrEntry 8 }
```

```
-----
--
--      cabhCdpWanDataAddrTable (CDP WAN-Data Address Table)
--
--      The cabhCdpWanDataAddrTable contains the configuration or DHCP parameters
--      for each IP address mapping per WAN-Data IP Address.
--
--
-----
```

cabhCdpWanDataAddrTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF CabhCdpWanDataAddrEntry
```

```
MAX-ACCESS  not-accessible
```

```
STATUS      current
```

DESCRIPTION

"This table contains WAN-Data address realm information."

```
::= { cabhCdpAddr 2 }
```

cabhCdpWanDataAddrEntry OBJECT-TYPE

```
SYNTAX      CabhCdpWanDataAddrEntry
```

```
MAX-ACCESS  not-accessible
```

```
STATUS      current
```

DESCRIPTION

"List of general parameter for CDP WAN-Data address realm."

```
INDEX { cabhCdpWanDataAddrIndex }
```

```
::= { cabhCdpWanDataAddrTable 1 }
```

CabhCdpWanDataAddrEntry ::= SEQUENCE {

```
  cabhCdpWanDataAddrIndex      INTEGER,
  cabhCdpWanDataAddrClientId   OCTET STRING,
  cabhCdpWanDataAddrIpType     InetAddressType,
  cabhCdpWanDataAddrIp         InetAddress,
  cabhCdpWanDataAddrRenewalTime Integer32,
  cabhCdpWanDataAddrRowStatus  RowStatus
}
```

cabhCdpWanDataAddrIndex OBJECT-TYPE

```
SYNTAX      INTEGER (1..65535)
```

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "Index into table."
 ::= { cabhCdpWanDataAddrEntry 1 }

cabhCdpWanDataAddrClientId OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..80))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
  "A unique WAN-Data ClientID used when attempting to acquire a WAN-Data IP
Address via DHCP."
 ::= { cabhCdpWanDataAddrEntry 2 }

cabhCdpWanDataAddrIpType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The address type assigned on the WAN-Data side."
DEFVAL { ipv4 }
 ::= { cabhCdpWanDataAddrEntry 3 }

cabhCdpWanDataAddrIp OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The address assigned on the WAN-Data side."
 ::= { cabhCdpWanDataAddrEntry 4 }

cabhCdpWanDataAddrRenewalTime OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This is the time remaining before the lease expires.
This is based on DHCP Option 51."
 ::= { cabhCdpWanDataAddrEntry 5 }

cabhCdpWanDataAddrRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
  "The RowStatus interlock for creation and deletion."
 ::= { cabhCdpWanDataAddrEntry 6 }

-----
--
-- cabhCdpWanDataAddrServerTable (CDP WAN-Data DNS Server Table)
--
-- The cabhCdpWanDataAddrServerTable contains a table of referral DNS Servers.
--
-----

cabhCdpWanDataAddrServerTable OBJECT-TYPE
SYNTAX SEQUENCE OF CabhCdpWanDataAddrServerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "This contains the IP addresses used for the WAN-Data DNS hosts

```

```

        obtained via the DHCP option 6 during the WAN-Data process."
 ::= { cabhCdpAddr 3 }

cabhCdpWanDataAddrServerEntry OBJECT-TYPE
    SYNTAX      CabhCdpWanDataAddrServerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of WAN-Data DNS Hosts."
    INDEX { cabhCdpWanDataAddrDnsIpType, cabhCdpWanDataAddrDnsIp }
    ::= { cabhCdpWanDataAddrServerTable 1 }

CabhCdpWanDataAddrServerEntry ::= SEQUENCE {
    cabhCdpWanDataAddrDnsIpType  InetAddressType,
    cabhCdpWanDataAddrDnsIp      InetAddress,
    cabhCdpWanDataAddrDnsRowStatus  RowStatus
}

cabhCdpWanDataAddrDnsIpType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This parameter indicates the IP address type of a DNS server."
    DEFVAL { ipv4 }
    ::= { cabhCdpWanDataAddrServerEntry 1 }

cabhCdpWanDataAddrDnsIp OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This parameter indicates the IP address of a DNS server."
    ::= { cabhCdpWanDataAddrServerEntry 2 }

cabhCdpWanDataAddrDnsRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The RowStatus interlock for creation and deletion."
    ::= { cabhCdpWanDataAddrServerEntry 3 }

--
--      DHCP Server Side (CDS) Option Values for the LAN-Trans realm
--
cabhCdpLanPoolStartType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The Address type of the start of range LAN Trans IP Addresses."
    DEFVAL { ipv4 }
    ::= { cabhCdpServer 1 }

cabhCdpLanPoolStart OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION

```

```

    "The start of range LAN Trans IP Addresses."
    DEFVAL { 'c0a8000a'h }      -- 192.168.0.10
    -- 192.168.0.0 is the network number
    -- 192.168.0.255 is broadcast
    -- address and 192.168.0.1
    -- is reserved for the router
    ::= { cabhCdpServer 2 }

cabhCdpLanPoolEndType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The Address type of the end of range LAN Trans IP Addresses."
    DEFVAL { ipv4 }
    ::= { cabhCdpServer 3 }

cabhCdpLanPoolEnd OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The end of range for LAN-Trans IP Addresses."
    DEFVAL { 'c0a800fe'h }      -- 192.168.0.254
    ::= { cabhCdpServer 4 }

cabhCdpServerNetworkNumberType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The IP address type of the LAN-Trans network number."
    DEFVAL { ipv4 }
    ::= { cabhCdpServer 5 }

cabhCdpServerNetworkNumber OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The LAN-Trans network number."
    DEFVAL { 'c0a80000'h }
    ::= { cabhCdpServer 6 }

cabhCdpServerSubnetMaskType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Type of LAN-Trans Subnet Mask."
    DEFVAL { ipv4 }
    ::= { cabhCdpServer 7 }

cabhCdpServerSubnetMask OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 1 - Value of LAN-Trans Subnet Mask."
    DEFVAL { 'ffffff00'h }      -- 255.255.255.0
    ::= { cabhCdpServer 8 }

```

```

cabhCdpServerTimeOffset OBJECT-TYPE
    SYNTAX      Integer32 (-86400..86400)  -- 0 to 24 hours (in seconds)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 2 - Value of LAN-Trans Time Offset from
        Coordinated Universal Time (UTC)."
```

DEFVAL { 0 } -- UTC

```
 ::= { cabhCdpServer 9 }
```

```

cabhCdpServerRouterType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Type of Address, Router for the LAN-Trans
        address realm."
```

DEFVAL { ipv4 }

```
 ::= { cabhCdpServer 10 }
```

```

cabhCdpServerRouter OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 3 - Router for the LAN-Trans
        address realm."
```

DEFVAL { 'c0a80001'h } -- 192.168.0.1

```
 ::= { cabhCdpServer 11 }
```

```

cabhCdpServerDnsAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The Type of IP Addresses of the LAN-Trans address realm
        DNS servers."
```

DEFVAL { ipv4 }

```
 ::= { cabhCdpServer 12 }
```

```

cabhCdpServerDnsAddress OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The IP Addresses of the LAN-Trans address realm
        DNS servers. As a default there is only one DNS
        server and it is the address specified in Option
        Value 3 - cabhCdpServerRouter. Only one address
        is specified."
```

DEFVAL { 'c0a80001'h } -- 192.168.0.1

```
 ::= { cabhCdpServer 13 }
```

```

cabhCdpServerSyslogAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The Type of IP Address of the LAN-Trans SYSLOG servers."
```

DEFVAL { ipv4 }

```
 ::= { cabhCdpServer 14 }
```

```

cabhCdpServerSyslogAddress OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The IP Addresses of the LAN-Trans SYSLOG servers.
        As a default there are no SYSLOG Servers.
        The factory defaults contains the indication of
        no Syslog Server value equals (0.0.0.0)."
```

```

    DEFVAL { '00000000'h }      -- 0.0.0.0
    ::= { cabhCdpServer 15 }
```

```

cabhCdpServerDomainName OBJECT-TYPE
    SYNTAX      SnmpAdminString(SIZE(0..128))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 15 - Domain name of LAN-Trans address realm."
    DEFVAL { "" }
    ::= { cabhCdpServer 16 }
```

```

cabhCdpServerTTL OBJECT-TYPE
    SYNTAX      INTEGER (0..255)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 23 - LAN-Trans Time to Live."
    DEFVAL { 64 }
    ::= { cabhCdpServer 17 }
```

```

cabhCdpServerInterfaceMTU OBJECT-TYPE
    SYNTAX      INTEGER (68..4096)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 26 - LAN-Trans Interface MTU."
    ::= { cabhCdpServer 18 }
```

```

cabhCdpServerVendorSpecific OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..255))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 43 - Vendor Specific Options."
    DEFVAL { ''h }
    ::= { cabhCdpServer 19 }
```

```

cabhCdpServerLeaseTime OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 51 -Lease Time for LAN IP Devices in the LAN-Trans realm
        (seconds)."
```

```

    DEFVAL { 3600 }

    ::= { cabhCdpServer 20 }
```

```

cabhCdpServerDhcpAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
```

```

STATUS      current
DESCRIPTION
    "Option value 54 - Type of LAN-Trans DHCP server IP address."
    DEFWAL { ipv4 }
    ::= { cabhCdpServer 21 }

cabhCdpServerDhcpAddress OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Option value 54 - LAN-Trans DHCP server IP
        address. It defaults to the router address as
        specified in cabhCdpServerRouter. Alternatively
        a vendor may want to separate CDS address from
        router address."
    DEFWAL { 'c0a80001'h }          --      192.168.0.1
    ::= { cabhCdpServer 22 }

--
-- notification group is for future extension.
--

cabhCdpNotification OBJECT IDENTIFIER ::= { cabhCdpMib 2 0 }
cabhCdpConformance OBJECT IDENTIFIER ::= { cabhCdpMib 3 }
cabhCdpCompliances OBJECT IDENTIFIER ::= { cabhCdpConformance 1 }
cabhCdpGroups OBJECT IDENTIFIER ::= { cabhCdpConformance 2 }

--
--      Notification Group
--

-- compliance statements

cabhCdpBasicCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for devices that implement
        MTA feature."
    MODULE      --cabhCdpMib

-- unconditionally mandatory groups

    MANDATORY-GROUPS {
        cabhCdpGroup
    }

::= { cabhCdpCompliances 3 }

cabhCdpGroup OBJECT-GROUP

    OBJECTS {

cabhCdpSetToFactory,
cabhCdpLanTransCurCount,

```

```

cabhCdpLanTransThreshold,
cabhCdpLanTransAction,
cabhCdpWanDataIpAddrCount,

cabhCdpLanAddrClientId,
cabhCdpLanAddrLeaseCreateTime,
cabhCdpLanAddrLeaseExpireTime,
cabhCdpLanAddrMethod,
cabhCdpLanAddrHostName,
cabhCdpLanAddrRowStatus,

cabhCdpWanDataAddrClientId,
cabhCdpWanDataAddrIp,
cabhCdpWanDataAddrRenewalTime,
cabhCdpWanDataAddrRowStatus,

cabhCdpWanDataAddrDnsRowStatus,

cabhCdpLanPoolStartType,
cabhCdpLanPoolStart,
cabhCdpLanPoolEndType,
cabhCdpLanPoolEnd,
cabhCdpServerNetworkNumberType,
cabhCdpServerNetworkNumber,
cabhCdpServerSubnetMaskType,
cabhCdpServerSubnetMask,
cabhCdpServerTimeOffset,

cabhCdpServerRouterType,
cabhCdpServerRouterType,
cabhCdpServerRouter,
cabhCdpServerDnsAddressType,
cabhCdpServerDnsAddress,
cabhCdpServerSyslogAddressType,
cabhCdpServerSyslogAddress,
cabhCdpServerDomainName,
cabhCdpServerTTL,
cabhCdpServerInterfaceMTU,
cabhCdpServerVendorSpecific,
cabhCdpServerLeaseTime,
cabhCdpServerDhcpAddressType,
cabhCdpServerDhcpAddress
    }
    STATUS      current
    DESCRIPTION
        "Group of objects for CableHome CDP MIB."
    ::= { cabhCdpGroups 1 }

END

```

Appendix I Revision History

The following Engineering Change Notices were incorporated into CH-SP-MIB-CDP-I02-020920:

ECN Number	ECN Date	Summary
CH1-N-02005	8/15/02	No events defined for the exhaustion of the CDS IP address pool. Other clarifications and typo corrections.
CH1-N-02009	6/20/02	<ol style="list-style-type: none"> 1. Specify default value of IPv4 for all IP address types 2. Move the description for CDP LAN Address Type to CDP LAN Address 3. Correct the reference to cabhCdpWanDataAddrRowStatus in the description for cabhCdpLanAddrClientID 4. Change the default value of the CDP Server (CDS) lease time from 60 seconds to 3600 seconds 5. Correct the specified range for the WAN Data IP Address Count 6. Change the default value for LAN Trans Threshold to be consistent with the default LAN address pool start and end values. 7. Add Network Number as another CDP Server object 8. Replace each instance of DisplayString with SnmpAdminString 9. Correct MIB description: remove reference to CAP. 10. Correct description for object cabhCdpSetToFactory
CH1-N-02013	8/15/02	Change CDC parameters from read-create to read-only