

Superseded

CableHome™ CDP MIB Specification

CH-SP-MIB-CDP-I01-020405

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.
Issued	A stable document, which has undergone rigorous member and vendor review and is suitable for product design and development, cross-vendor interoperability, and for certification testing.
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1 SCOPE

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

2 REFERENCES

The following references contain provisions that, though not necessarily textually verbatim, constitute a recommendation. It is the intent of the authors that the references cited herein be subject to revision, unless otherwise stated. The references are intended to indicate the source of the information and to apply the most recent edition of the references listed below.

2.1 NORMATIVE REFERENCE

- [1] “CableHome 1.0 Specification,” CH-SP-I01-020405, Cable Television Laboratories, Inc., April 5, 2002. <http://www.CableLabs.com/CableHome>

2.2 INFORMATIVE REFERENCE

There are no informative references required for this document.

3 ABBREVIATIONS

There are no abbreviations used in this document.

4 REQUIREMENTS

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

CABH-CDP-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,
OBJECT-TYPE,
Integer32,
Unsigned32

FROM SNMPv2-SMI

TruthValue,
TimeStamp,
DisplayString,

RowStatus,
TEXTUAL-CONVENTION

FROM SNMPv2-TC

OBJECT-GROUP,
MODULE-COMPLIANCE

FROM SNMPv2-CONF

InetAddressType,
InetAddress,
InetAddressIPv4,
InetAddressIPv6

FROM INET-ADDRESS-MIB

clabProjCableHome

FROM CLAB-DEF-MIB;

```

=====
--
-- History:
--
-- Date          Modified by      Reason
-- 09/26/01      Roy Spitzer      Initial Version
-- 10/05/01      Roy Spitzer      Incorporated comments from Mike Mannette and
--                                     NMP team
-- 10/12/01      Roy Spitzer      Incorporated DHCP protocol options table
-- 10/15/01      Roy Spitzer      Moved lease time definition to cabhCdpMapTable
-- 10/24/01      Roy Spitzer      Incorporate new CAP tables
-- 10/25/01      Roy Spitzer      Added DHCP Relay Agent Option Code (topology
--                                     information), reworked CMP Route Template
-- 11/02/01      Roy Spitzer      Added WAN side parameters, Delete Template
--                                     Route Type Parameters, changed
--                                     cabhCapRouteElapsedTime to
--                                     cabhCapRouteExpirationTime based on October
--                                     26, 2001 review.
-- 11/26/01      Roy Spitzer      Updated to reflect NAT and CDP/DHCP discussions
-- 11/27/01      Roy Spitzer      Incorporated default interconnect options
-- 12/03/01      Roy Spitzer      Bring into alignment with Provisioning Tools
--                                     Section (CDP) of CableHome Specification
-- 12/04/01      Roy Spitzer      Incorporate changes discussed in 12/03/01
--                                     Conference Call (Mike Mannette, Rick Vetter,
--                                     Kevin Luehrs, Chris Zacker)
-- 12/07/01      Roy Spitzer      Incorporate changes discussed in 12/06/01

```

```

--                                     Conference Call (Mike Mannette, Rick Vetter,
--                                     Kevin Luehrs, Chris Zacker, John Bevilacqua).
--                                     Split into cdp.mi2 and cap.mi2.
--      12/10/01      Roy Spitzer      Change Default Time to Live as per Jeff Mandin.
--      12/17/01      Roy Spitzer      Incorporate comments since December 10, 2001.
--      12/19/01      Roy Spitzer      Incorporate comments since December 17, 2001.
--      12/21/01      Roy Spitzer      Incorporate comments since December 19, 2001.
--      01/03/02      Chris Zacker      Incorporate John Bevilacqua's changes
--      01/23/02      Chris Zacker      Incorporate more spec changes
--      03/21/02      Kevin Luehrs      Incorporate changes from CableHome 1.0 D01
--                                     specification vendor review
--      04/05/02      Issued
--

```

```

-----
cabhCdpMib MODULE-IDENTITY

```

```

  LAST-UPDATED "0203210000Z" -- March 21, 2002

```

```

  ORGANIZATION "CableLabs Broadband Access Department"

```

```

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```

```

  DESCRIPTION

```

```

    "This MIB module supplies the basic management objects
    for the CDP and the CAP portions of the PS database.

```

```

  Acknowledgements:

```

```

    Roy Spitzer      -      Consultant to CableLabs

```

```

    Mike Mannette   -      Consultant to CableLabs

```

```

    Randy Dunton    -      Intel

```

```

    Dmitrii Loukianov - Intel

```

```

    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 cabhCdpDhcpReset 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,

cabhCdpLanPoolStart,
 cabhCdpLanPoolEnd,
 cabhCdpServerSubnetMask,
 cabhCdpServerTimeOffset,
 cabhCdpServerRouter,
 cabhCdpServerDnsAddress,
 cabhCdpServerSyslogAddress,
 cabhCdpServerDomainName,
 cabhCdpServerTTL,
 cabhCdpServerInterfaceMTU,
 cabhCdpServerVendorSpecific,
 cabhCdpServerLeaseTime,
 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 (1..65533)


```
--      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      DisplayString,
  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. 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 cabhCdpWanDataAddrRowStatus
    object with an index comprised of a new cabhCdpLanAddrIp and a new cabhCdpLanAddrClientID."
  ::= { 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."

::= { 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 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 cabhCdpWanDataAddrRowStatus 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 DisplayString(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-create

STATUS current

DESCRIPTION

"The address type assigned on the WAN-Data side."

::= { cabhCdpWanDataAddrEntry 3 }

cabhCdpWanDataAddrIp OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The address assigned on the WAN-Data side."

::= { cabhCdpWanDataAddrEntry 4 }

cabhCdpWanDataAddrRenewalTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

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."
  ::= { 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 }

cabhCdpServerSubnetMaskType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Type of LAN-Trans Subnet Mask."
        DEFVAL { ipv4 }
    ::= { cabhCdpServer 5 }

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

```
"Option value 1 - Value of LAN-Trans Subnet Mask."
  DEFVAL { 'fffff00'h } -- 255.255.255.0
 ::= { cabhCdpServer 6 }

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 7 }

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 8 }

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 9 }

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 10 }

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 11 }

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 12 }

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 13 }

cabhCdpServerDomainName OBJECT-TYPE

SYNTAX DisplayString(SIZE(0..128))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Option value 15 - Domain name of LAN-Trans address realm."

DEFVAL { "" }

::= { cabhCdpServer 14 }

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 15 }

cabhCdpServerInterfaceMTU OBJECT-TYPE

SYNTAX INTEGER (68..4096)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Option value 26 - LAN-Trans Interface MTU."

DEFVAL { 1500 }

::= { cabhCdpServer 16 }

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 17 }

cabhCdpServerLeaseTime OBJECT-TYPE
    SYNTAX Unsigned32
    UNITS "seconds"
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Option value 51 - LAN-Trans default Lease Time (seconds)."
```

```

    DEFVAL { 60 }
    ::= { cabhCdpServer 18 }

cabhCdpServerDhcpAddressType OBJECT-TYPE
    SYNTAX InetAddressType
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Option value 54 - Type of LAN-Trans DHCP server IP address."
    DEFVAL { ipv4 }
    ::= { cabhCdpServer 19 }

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."
    DEFVAL { 'c0a80001'h } -- 192.168.0.1
    ::= { cabhCdpServer 20 }

--
-- 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,

--    cabhCdpLanAddrIpType,
--    cabhCdpLanAddrIp,
--    cabhCdpLanAddrClientID,
--    cabhCdpLanAddrLeaseCreateTime,
--    cabhCdpLanAddrLeaseExpireTime,
--    cabhCdpLanAddrMethod,
--    cabhCdpLanAddrHostName,
--    cabhCdpLanAddrRowStatus,

--    cabhCdpWanDataAddrIndex,
--    cabhCdpWanDataAddrClientID,
--    cabhCdpWanDataAddrIp,
--    cabhCdpWanDataAddrRenewalTime,
--    cabhCdpWanDataAddrRowStatus,

--    cabhCdpWanDataAddrDnsIpType,
--    cabhCdpWanDataAddrDnsIp,
--    cabhCdpWanDataAddrDnsRowStatus,

    cabhCdpLanPoolStartType,
    cabhCdpLanPoolStart,
    cabhCdpLanPoolEndType,
    cabhCdpLanPoolEnd,
    cabhCdpServerSubnetMaskType,
    cabhCdpServerSubnetMask,
    cabhCdpServerTimeOffset,
    cabhCdpServerRouterType,
    cabhCdpServerRouter,
    cabhCdpServerDnsAddressType,
    cabhCdpServerDnsAddress,
```

```
cabhCdpServerSyslogAddressType,  
cabhCdpServerSyslogAddress,  
cabhCdpServerDomainName,  
cabhCdpServerTTL,  
cabhCdpServerInterfaceMTU,  
cabhCdpServerVendorSpecific,  
cabhCdpServerLeaseTime,  
cabhCdpServerDhcpAddressType,  
cabhCdpServerDhcpAddress  
}
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Group of objects for CableHome CDB MIB."
```

```
::= { cabhCdpGroups 1 }
```

```
END
```

The following Engineering Change Notices were incorporated into CH-SP-MIB-CDP-I01-020405:

ECN Number	ECN Date	Summary