

Superseded

CableOffice

Commercial Services Annex 1.0 MIB Specification

CH-SP-CO-MIB-CSA-I01-040324

Issued

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Document Status Sheet

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Work in Progress	An incomplete document, designed to guide discussion and generate feedback, which may include several alternative requirements for consideration.
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1 SCOPE

This specification defines the CableOffice Commercial Services Annex MIB requirements.

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] CableOffice Commercial Services Annex 1.0 Specification, CH-SP-CO-CSA-I01-040324, March 24, 2004, CableLabs, www.cablelabs.com.
- [2] CableLabs® Definition MIB Specification, CL-SP-MIB-CLABDEF-I03-040113, January 13, 2004.

2.2 Reference Acquisition

CableLabs Specifications:

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

3 ACRONYMS

This specification uses the following acronyms:

CDS	CableHome DHCP Server
CSA	Commercial Services Annex
DHCP	Dynamic Host Configuration Protocol
IP	Internet Protocol
LAN	Local Area Network
MIB	Management Information Base
RIP	Routing Information Protocol

4 REQUIREMENTS

The CableOffice CSA MIBs MUST be implemented as defined below.

```

CABH-PS-CSA-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32                FROM SNMPv2-SMI

    TruthValue                FROM SNMPv2-TC

    OBJECT-GROUP,
    MODULE-COMPLIANCE        FROM SNMPv2-CONF

    rip2IfStatEntry          FROM RIPv2-MIB

    clabProjCableHome        FROM CLAB-DEF-MIB;

cabhPsCsaMib MODULE-IDENTITY

    LAST-UPDATED      "200403240000Z" -- March 24, 2004
    ORGANIZATION      "CableLabs Broadband Access Department"
    CONTACT-INFO
        "Stuart Hoggan
        Postal: Cable Television Laboratories, Inc.
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        E-mail: s.hoggan@cablelabs.com; mibs@cablelabs.com"
    DESCRIPTION
        "This MIB module supplies the additional management
        objects, for the Portal Services logical element of a
        CableOffice(TM) Commercial Services Annex compliant
        Commercial Gateway device. These management objects are
        in addition to the required CableHome management objects."
    ::= { clabProjCableHome 7 }

-- Textual Conventions

cabhPsCsaNotifications OBJECT IDENTIFIER ::= { cabhPsCsaMib 0 }
cabhPsCsaMibObjects     OBJECT IDENTIFIER ::= { cabhPsCsaMib 1 }
cabhPsCsaConformance   OBJECT IDENTIFIER ::= { cabhPsCsaMib 2 }
cabhPsCsaCompliances   OBJECT IDENTIFIER ::= { cabhPsCsaConformance 1 }
cabhPsCsaGroups        OBJECT IDENTIFIER ::= { cabhPsCsaConformance 2 }

cabhPsDevCsaObjects     OBJECT IDENTIFIER ::= { cabhPsCsaMibObjects 1 }
-- cabhSecCsaObjects     OBJECT IDENTIFIER ::= { cabhPsCsaMibObjects 2 }
-- cabhCapCsaObjects     OBJECT IDENTIFIER ::= { cabhPsCsaMibObjects 3 }
cabhCdpCsaObjects       OBJECT IDENTIFIER ::= { cabhPsCsaMibObjects 4 }
-- cabhCtpCsaObjects     OBJECT IDENTIFIER ::= { cabhPsCsaMibObjects 5 }

```

```

-- cabhQosCsaObjects    OBJECT IDENTIFIER ::= { cabhPsCsaMibObjects 6 }

cabhPsDevCsaRipExtension OBJECT IDENTIFIER ::= { cabhPsDevCsa 1 }

cabhCdpCsaServer        OBJECT IDENTIFIER ::= { cabhCdpCsa 1 }

-----
--
-- CSA - Commercial Service Annex RIP 2 Extension MIB Object
--
-----

cabhPsDevCsaRip2IfConfExtTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CabhPsDevCsaRip2IfConfExtEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table contains the RIPv2 Key ID used to authenticate
        the CSA device routing information with the next upstream
        router. This table augments the rip2IfConfTable with the
        authentication Key ID value."
    REFERENCE
        "RFC 1724, RIP Version 2 MIB Extension."
    ::= { cabhPsDevCsaRipExtension 1 }

cabhPsDevCsaRip2IfConfExtEntry OBJECT-TYPE
    SYNTAX CabhPsDevCsaRip2IfConfExtEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Contains the Key ID of the authentication key in an
        interface."
    AUGMENTS { rip2IfStatEntry }
    ::= { cabhPsDevCsaRip2IfConfExtTable 1 }

CabhPsDevCsaRip2IfConfExtEntry ::= SEQUENCE {
    cabhPsDevCsaRip2IfConfAuthKeyId Unsigned32
}

cabhPsDevCsaRip2IfConfAuthKeyId OBJECT-TYPE
    SYNTAX Unsigned32 (0..255)
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "Used to identify the key value in the rip2IfConfAuthKey
        MIB object that is used to create authentication data for
        RIP 2 messages. This value has no meaning if rip2IfAuthType
        is 'none' or 'simplePassword'."
    DEFVAL { 0 }
    ::= { cabhPsDevCsaRip2IfConfExtEntry 1 }

-----
--
-- CSA - Commercial Service Annex CDP Server MIB Object
--
-----

```

```
cabhCdpCsaServerEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Setting this object to true enables the CableHome DHCP
        Server (CDS). If properly configured and activated, an
        enabled CDS responds to DHCP client messages from LAN
        IP devices. Setting this object to false disables the CDS.
        When disabled, the CDS must not respond to DHCP client
        messages."
    DEFVAL { true }
    ::= { cabhCdpCsaObjects 1 }

cabhPsCsaCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for devices that implement the
        CableHome Portal Services logical element and Commercial
        Service Annex."
    MODULE     -- cabhPsCsaMib

-- unconditionally mandatory groups

MANDATORY-GROUPS {
    cabhPSDevCsaGroup
}
::= { cabhPsCsaCompliances 1 }

cabhPsCsaGroup OBJECT-GROUP
    OBJECTS {
        cabhPsDevCsaRip2IfConfAuthKeyId,
        cabhCdpCsaServerEnable
    }
    STATUS      current
    DESCRIPTION
        "Group of additional objects for CableHome Portal Services
        that supports Commercial Service Annex."
    ::= { cabhPsCsaGroups 1 }

END
```

Appendix I Acknowledgements

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