

-- extracted from rfc2594.txt  
-- at Mon Nov 15 17:12:04 1999

WWW-MIB DEFINITIONS ::= BEGIN

**IMPORTS**

MODULE-IDENTITY,  
OBJECT-TYPE,  
mib-2,  
Counter32,  
Counter64,  
Integer32,  
Unsigned32,  
TimeTicks  
    **FROM** SNMPv2-SMI  
TEXTUAL-CONVENTION,  
DisplayString,  
DateAndTime,  
TimeInterval  
    **FROM** SNMPv2-TC  
MODULE-COMPLIANCE,  
OBJECT-GROUP  
    **FROM** SNMPv2-CONF  
Utf8String  
    **FROM** SYSAPPL-MIB;

**wwwMIB MODULE-IDENTITY**

**LAST-UPDATED** "9902251400Z"            -- Feb 25, 1999 2:00:00 PM  
**ORGANIZATION** "IETF Application MIB Working Group"  
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**DESCRIPTION**

    "This WWW service MIB module is applicable to services realized by a family of 'Document Transfer Protocols' (DTP). Examples of DTPs are HTTP and FTP."

**REVISION** "9902251400Z"            -- Feb 25, 1999 2:00:00 PM  
**DESCRIPTION**

```

        "Initial version, published as RFC2594."
-- 1.3.6.1.2.1.65 -- ::= { mib-2 65 }
--
-- Object Identifier Assignments
--
wwwMIBObjects OBJECT IDENTIFIER
-- 1.3.6.1.2.1.65.1 -- ::= { wwwMIB 1 }

wwwMIBConformance OBJECT IDENTIFIER
-- 1.3.6.1.2.1.65.2 -- ::= { wwwMIB 2 }
--
-- Textual Conventions
--

WwwRequestType ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "The WwwRequestType defines the textual identification of
        request types used by a document transfer protocol. For
        the proper values for a given DTP, refer to the protocol
        mappings for that DTP."
    SYNTAX      OCTET STRING (SIZE (1..40))

WwwResponseType ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "The WwwResponseType defines the different response values
        used by document transfer protocols. For the proper values
        for a given DTP, refer to the protocol mappings for that
        DTP."
    SYNTAX      Integer32 (0..2147483647)

WwwOperStatus ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "The operational status of a WWW service. 'down' indicates
        that the service is not available. 'running' indicates
        that the service is operational and available. 'halted'
        indicates that the service is operational but not
        available. 'congested' indicates that the service is
        operational but no additional inbound associations can be
        accommodated. 'restarting' indicates that the service is
        currently unavailable but is in the process of restarting
        and will be available soon."
    SYNTAX      INTEGER {
                down(1),
                running(2),
                halted(3),
                congested(4),
                restarting(5) }

WwwDocName ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "255a"
    STATUS      current
    DESCRIPTION
        "The server relative name of a document. If the URL were
        http://www.x.org/standards/search/search.cgi?string=test
        then the value of this textual convention would resolve
        to /standards/search/search.cgi. This textual convention
        uses the character set for URIs as defined in RFC 2396
        section 2."
    SYNTAX      OCTET STRING (SIZE (0..255))
-- The WWW Service Information Group
--
-- The WWW service information group contains information about
-- the WWW services known by the SNMP agent.

```

```

wwwService OBJECT IDENTIFIER

```

```

-- 1.3.6.1.2.1.65.1.1 -- ::= { wwwMIBObjects 1 }

wwwServiceTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF WwwServiceEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The table of the WWW services known by the SNMP agent."
-- 1.3.6.1.2.1.65.1.1.1 -- ::= { wwwService 1 }

wwwServiceEntry OBJECT-TYPE
    SYNTAX      WwwServiceEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Details about a particular WWW service."
    INDEX {
        wwwServiceIndex
    }
-- 1.3.6.1.2.1.65.1.1.1.1 -- ::= { wwwServiceTable 1 }

WwwServiceEntry ::= SEQUENCE {
    wwwServiceIndex      Unsigned32,
    wwwServiceDescription Utf8String,
    wwwServiceContact    Utf8String,
    wwwServiceProtocol   OBJECT IDENTIFIER,
    wwwServiceName       DisplayString,
    wwwServiceType       INTEGER,
    wwwServiceStartTime  DateAndTime,
    wwwServiceOperStatus WwwOperStatus,
    wwwServiceLastChange DateAndTime
}

wwwServiceIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..4294967295)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An integer used to uniquely identify a WWW service. The
        value must be the same as the corresponding value of the
        applSrvIndex defined in the Application Management MIB
        (APPLICATION-MIB) if the applSrvIndex object is available.
        It might be necessary to manually configure sub-agents in
        order to meet this requirement."
-- 1.3.6.1.2.1.65.1.1.1.1.1 -- ::= { wwwServiceEntry 1 }

wwwServiceDescription OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Textual description of the WWW service. This shall include
        at least the vendor and version number of the application
        realizing the WWW service. In a minimal case, this might
        be the Product Token (see RFC 2068) for the application."
-- 1.3.6.1.2.1.65.1.1.1.1.2 -- ::= { wwwServiceEntry 2 }

wwwServiceContact OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The textual identification of the contact person for this
        service, together with information on how to contact this
        person. For instance, this might be a string containing an
        email address, e.g. '<webmaster@domain.name>'."
-- 1.3.6.1.2.1.65.1.1.1.1.3 -- ::= { wwwServiceEntry 3 }

```

```

wwwServiceProtocol OBJECT-TYPE
    SYNTAX      OBJECT IDENTIFIER
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "An identification of the primary protocol in use by this
        service. For Internet applications, the IANA maintains
        a registry of the OIDs which correspond to well-known
        application protocols. If the application protocol is not
        listed in the registry, an OID value of the form
        {applTCPProtoID port} or {applUDPProtoID port} are used for
        TCP-based and UDP-based protocols, respectively. In either
        case 'port' corresponds to the primary port number being
        used by the protocol."
    REFERENCE   "The OID values applTCPProtoID and applUDPProtoID are
        defined in the NETWORK-SERVICES-MIB (RFC 2248)."
-- 1.3.6.1.2.1.65.1.1.1.1.4 -- ::= { wwwServiceEntry 4 }

wwwServiceName OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The fully qualified domain name by which this service is
        known. This object must contain the virtual host name if
        the service is realized for a virtual host."
-- 1.3.6.1.2.1.65.1.1.1.1.5 -- ::= { wwwServiceEntry 5 }

wwwServiceType OBJECT-TYPE
    SYNTAX      INTEGER {
        wwwOther(1),
        wwwServer(2),
        wwwClient(3),
        wwwProxy(4),
        wwwCachingProxy(5) }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The application type using or realizing this WWW service."
-- 1.3.6.1.2.1.65.1.1.1.1.6 -- ::= { wwwServiceEntry 6 }

wwwServiceStartTime OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time when this WWW service was last started.
        The value SHALL be '0000000000000000'H if the last start
        time of this WWW service is not known."
-- 1.3.6.1.2.1.65.1.1.1.1.7 -- ::= { wwwServiceEntry 7 }

wwwServiceOperStatus OBJECT-TYPE
    SYNTAX      WwOperStatus
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Indicates the operational status of the WWW service."
-- 1.3.6.1.2.1.65.1.1.1.1.8 -- ::= { wwwServiceEntry 8 }

wwwServiceLastChange OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time when this WWW service entered its current
        operational state. The value SHALL be '0000000000000000'H if
        the time of the last state change is not known."
-- 1.3.6.1.2.1.65.1.1.1.1.9 -- ::= { wwwServiceEntry 9 }

```

```
-- The WWW Protocol Statistics Group
--
-- The WWW protocol statistics group contains statistics about
-- the DTP requests and responses sent or received.
```

**wwwProtocolStatistics OBJECT IDENTIFIER**

```
-- 1.3.6.1.2.1.65.1.2 -- ::= { wwwMIBObjects 2 }
```

**wwwSummaryTable OBJECT-TYPE**

**SYNTAX** SEQUENCE OF WwwSummaryEntry

**MAX-ACCESS** not-accessible

**STATUS** current

**DESCRIPTION**

*"The table providing overview statistics for the  
WWW services on this system."*

```
-- 1.3.6.1.2.1.65.1.2.1 -- ::= { wwwProtocolStatistics 1 }
```

**wwwSummaryEntry OBJECT-TYPE**

**SYNTAX** WwwSummaryEntry

**MAX-ACCESS** not-accessible

**STATUS** current

**DESCRIPTION**

*"Overview statistics for an individual service."*

**INDEX** {

wwwServiceIndex

}

```
-- 1.3.6.1.2.1.65.1.2.1.1 -- ::= { wwwSummaryTable 1 }
```

**WwwSummaryEntry ::= SEQUENCE** {

wwwSummaryInRequests Counter32,

wwwSummaryOutRequests Counter32,

wwwSummaryInResponses Counter32,

wwwSummaryOutResponses Counter32,

wwwSummaryInBytes Counter64,

wwwSummaryInLowBytes Counter32,

wwwSummaryOutBytes Counter64,

wwwSummaryOutLowBytes Counter32

}

**wwwSummaryInRequests OBJECT-TYPE**

**SYNTAX** Counter32

**MAX-ACCESS** read-only

**STATUS** current

**DESCRIPTION**

*"The number of requests successfully received."*

```
-- 1.3.6.1.2.1.65.1.2.1.1.1 -- ::= { wwwSummaryEntry 1 }
```

**wwwSummaryOutRequests OBJECT-TYPE**

**SYNTAX** Counter32

**MAX-ACCESS** read-only

**STATUS** current

**DESCRIPTION**

*"The number of requests generated."*

```
-- 1.3.6.1.2.1.65.1.2.1.1.2 -- ::= { wwwSummaryEntry 2 }
```

**wwwSummaryInResponses OBJECT-TYPE**

**SYNTAX** Counter32

**MAX-ACCESS** read-only

**STATUS** current

**DESCRIPTION**

*"The number of responses successfully received."*

```
-- 1.3.6.1.2.1.65.1.2.1.1.3 -- ::= { wwwSummaryEntry 3 }
```

**wwwSummaryOutResponses OBJECT-TYPE**

**SYNTAX** Counter32

**MAX-ACCESS** read-only

**STATUS** current

**DESCRIPTION**

```

        "The number of responses generated."
-- 1.3.6.1.2.1.65.1.2.1.1.4 -- ::= { wwwSummaryEntry 4 }

wwwSummaryInBytes OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of content bytes received."
-- 1.3.6.1.2.1.65.1.2.1.1.5 -- ::= { wwwSummaryEntry 5 }

wwwSummaryInLowBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The lowest thirty-two bits of wwwSummaryInBytes."
-- 1.3.6.1.2.1.65.1.2.1.1.6 -- ::= { wwwSummaryEntry 6 }

wwwSummaryOutBytes OBJECT-TYPE
    SYNTAX Counter64
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of content bytes transmitted."
-- 1.3.6.1.2.1.65.1.2.1.1.7 -- ::= { wwwSummaryEntry 7 }

wwwSummaryOutLowBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The lowest thirty-two bits of wwwSummaryOutBytes."
-- 1.3.6.1.2.1.65.1.2.1.1.8 -- ::= { wwwSummaryEntry 8 }
-- The WWW request tables contain detailed information about
-- requests send or received by WWW services.

wwwRequestInTable OBJECT-TYPE
    SYNTAX SEQUENCE OF WwwRequestInEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The table providing detailed statistics for requests
        received by WWW services on this system."
-- 1.3.6.1.2.1.65.1.2.2 -- ::= { wwwProtocolStatistics 2 }

wwwRequestInEntry OBJECT-TYPE
    SYNTAX WwwRequestInEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Request statistics for an individual service."
    INDEX {
        wwwServiceIndex,
        wwwRequestInIndex
    }
-- 1.3.6.1.2.1.65.1.2.2.1 -- ::= { wwwRequestInTable 1 }

WwwRequestInEntry ::= SEQUENCE {
    wwwRequestInIndex WwwRequestType,
    wwwRequestInRequests Counter32,
    wwwRequestInBytes Counter32,
    wwwRequestInLastTime DateAndTime
}

wwwRequestInIndex OBJECT-TYPE
    SYNTAX WwwRequestType
    MAX-ACCESS not-accessible

```

```

        STATUS      current
        DESCRIPTION
            "The particular request type the statistics apply to."
-- 1.3.6.1.2.1.65.1.2.2.1.1 -- ::= { wwwRequestInEntry 1 }

wwwRequestInRequests OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of requests of this type received by this
        WWW service."
-- 1.3.6.1.2.1.65.1.2.2.1.2 -- ::= { wwwRequestInEntry 2 }

wwwRequestInBytes OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of content bytes per request type received
        by this WWW service."
-- 1.3.6.1.2.1.65.1.2.2.1.3 -- ::= { wwwRequestInEntry 3 }

wwwRequestInLastTime OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time when the last byte of the last complete
        request of this type was received by this WWW service. The
        value SHALL be '0000000000000000'H if no request of this
        type has been received yet."
-- 1.3.6.1.2.1.65.1.2.2.1.4 -- ::= { wwwRequestInEntry 4 }

wwwRequestOutTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF WwwRequestOutEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The table providing detailed statistics for requests
        generated by the services on this system."
-- 1.3.6.1.2.1.65.1.2.3 -- ::= { wwwProtocolStatistics 3 }

wwwRequestOutEntry OBJECT-TYPE
    SYNTAX      WwwRequestOutEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Request statistics for an individual service."
    INDEX {
        wwwServiceIndex,
        wwwRequestOutIndex
    }
-- 1.3.6.1.2.1.65.1.2.3.1 -- ::= { wwwRequestOutTable 1 }

WwwRequestOutEntry ::= SEQUENCE {
    wwwRequestOutIndex      WwwRequestType,
    wwwRequestOutRequests  Counter32,
    wwwRequestOutBytes     Counter32,
    wwwRequestOutLastTime  DateAndTime
}

wwwRequestOutIndex OBJECT-TYPE
    SYNTAX      WwwRequestType
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The particular request type the statistics apply to."

```

```

-- 1.3.6.1.2.1.65.1.2.3.1.1 -- ::= { wwwRequestOutEntry 1 }

wwwRequestOutRequests OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of requests of this type generated by this
        WWW service."
-- 1.3.6.1.2.1.65.1.2.3.1.2 -- ::= { wwwRequestOutEntry 2 }

wwwRequestOutBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of content bytes per requests type generated
        by this WWW service."
-- 1.3.6.1.2.1.65.1.2.3.1.3 -- ::= { wwwRequestOutEntry 3 }

wwwRequestOutLastTime OBJECT-TYPE
    SYNTAX DateAndTime
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The date and time when the first byte of the last request
        of this type was send by this WWW service. The value SHALL
        be '0000000000000000'H if no request of this type has been
        send yet."
-- 1.3.6.1.2.1.65.1.2.3.1.4 -- ::= { wwwRequestOutEntry 4 }
-- The WWW response tables contain detailed information about
-- responses sent or received by WWW services.

wwwResponseInTable OBJECT-TYPE
    SYNTAX SEQUENCE OF WwwResponseInEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The table providing detailed statistics for responses
        received by WWW services on this system."
-- 1.3.6.1.2.1.65.1.2.4 -- ::= { wwwProtocolStatistics 4 }

wwwResponseInEntry OBJECT-TYPE
    SYNTAX WwwResponseInEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Response statistics for an individual service."
    INDEX {
        wwwServiceIndex,
        wwwResponseInIndex
    }
-- 1.3.6.1.2.1.65.1.2.4.1 -- ::= { wwwResponseInTable 1 }

WwwResponseInEntry ::= SEQUENCE {
    wwwResponseInIndex WwwResponseType,
    wwwResponseInResponses Counter32,
    wwwResponseInBytes Counter32,
    wwwResponseInLastTime DateAndTime
}

wwwResponseInIndex OBJECT-TYPE
    SYNTAX WwwResponseType
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The particular response type the statistics apply to."
-- 1.3.6.1.2.1.65.1.2.4.1.1 -- ::= { wwwResponseInEntry 1 }

```



```

wwwResponseInResponses OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of responses of this type received by this
        WWW service."
    -- 1.3.6.1.2.1.65.1.2.4.1.2 -- ::= { wwwResponseInEntry 2 }

wwwResponseInBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of content bytes per response type received
        by this WWW service."
    -- 1.3.6.1.2.1.65.1.2.4.1.3 -- ::= { wwwResponseInEntry 3 }

wwwResponseInLastTime OBJECT-TYPE
    SYNTAX DateAndTime
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The date and time when the last byte of the last complete
        response of this type was received by this WWW service. The
        value SHALL be '0000000000000000'H if no response of this
        type has been received yet."
    -- 1.3.6.1.2.1.65.1.2.4.1.4 -- ::= { wwwResponseInEntry 4 }

wwwResponseOutTable OBJECT-TYPE
    SYNTAX SEQUENCE OF WwwResponseOutEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The table providing detailed statistics for responses
        generated by services on this system."
    -- 1.3.6.1.2.1.65.1.2.5 -- ::= { wwwProtocolStatistics 5 }

wwwResponseOutEntry OBJECT-TYPE
    SYNTAX WwwResponseOutEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Response statistics for an individual service."
    INDEX {
        wwwServiceIndex,
        wwwResponseOutIndex
    }
    -- 1.3.6.1.2.1.65.1.2.5.1 -- ::= { wwwResponseOutTable 1 }

WwwResponseOutEntry ::= SEQUENCE {
    wwwResponseOutIndex WwwResponseType,
    wwwResponseOutResponses Counter32,
    wwwResponseOutBytes Counter32,
    wwwResponseOutLastTime DateAndTime
}

wwwResponseOutIndex OBJECT-TYPE
    SYNTAX WwwResponseType
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The particular response type the statistics apply to."
    -- 1.3.6.1.2.1.65.1.2.5.1.1 -- ::= { wwwResponseOutEntry 1 }

wwwResponseOutResponses OBJECT-TYPE
    SYNTAX Counter32

```

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of responses of this type generated by this
    WWW service."
-- 1.3.6.1.2.1.65.1.2.5.1.2 -- ::= { wwwResponseOutEntry 2 }

wwwResponseOutBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of content bytes per response type generated
    by this WWW service."
-- 1.3.6.1.2.1.65.1.2.5.1.3 -- ::= { wwwResponseOutEntry 3 }

wwwResponseOutLastTime OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The date and time when the first byte of the last response of
    this type was sent by this WWW service. The value SHALL be
    '0000000000000000'H if response of this type has been send
    yet."
-- 1.3.6.1.2.1.65.1.2.5.1.4 -- ::= { wwwResponseOutEntry 4 }
-- The WWW Document Statistics Group
--
-- The WWW document statistics group contains statistics about
-- document read attempts.

wwwDocumentStatistics OBJECT IDENTIFIER
-- 1.3.6.1.2.1.65.1.3 -- ::= { wwwMIBObjects 3 }

wwwDocCtrlTable OBJECT-TYPE
SYNTAX SEQUENCE OF WwwDocCtrlEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table which controls how the MIB implementation
    collects and maintains document statistics."
-- 1.3.6.1.2.1.65.1.3.1 -- ::= { wwwDocumentStatistics 1 }

wwwDocCtrlEntry OBJECT-TYPE
SYNTAX WwwDocCtrlEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An entry used to configure the wwwDocLastNTable,
    the wwwDocBucketTable, the wwwDocAccessTopNTable,
    and the wwwDocBytesTopNTable."

INDEX {
    wwwServiceIndex
}
-- 1.3.6.1.2.1.65.1.3.1.1 -- ::= { wwwDocCtrlTable 1 }

WwwDocCtrlEntry ::= SEQUENCE {
    wwwDocCtrlLastNSize Unsigned32,
    wwwDocCtrlLastNLock TimeTicks,
    wwwDocCtrlBuckets Unsigned32,
    wwwDocCtrlBucketTimeInterval TimeInterval,
    wwwDocCtrlTopNSize Unsigned32
}

wwwDocCtrlLastNSize OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current

```

**DESCRIPTION**

*"The maximum number of entries in the wwwDocLastNTable."*

**DEFVAL** { 25 }

-- 1.3.6.1.2.1.65.1.3.1.1.1 -- ::= { wwwDocCtrlEntry 1 }

**wwwDocCtrlLastNLock OBJECT-TYPE**

**SYNTAX** TimeTicks

**MAX-ACCESS** read-write

**STATUS** current

**DESCRIPTION**

*"This object allows a manager to lock the wwwDocLastNTable in order to retrieve the wwwDocLastNTable in a consistent state. The agent is expected to take a snapshot of the wwwDocLastNTable when it is locked and to continue updating the real wwwDocLastNTable table so that recent information is available as soon as the wwwDocLastNTable is unlocked again."*

*Setting this object to a value greater than 0 will lock the table. The timer ticks backwards until it reaches 0. The table unlocks automatically once the timer reaches 0 and the timer stops ticking.*

*A manager can increase the timer to request more time to read the table. However, any attempt to decrease the timer will fail with an inconsistentValue error. This rule ensures that multiple managers can simultaneously lock and retrieve the wwwDocLastNTable. Note that managers must cooperate in using wwwDocCtrlLastNLock. In particular, a manager MUST not keep the wwwDocLastNTable locked when it is not necessary to finish a retrieval operation."*

-- 1.3.6.1.2.1.65.1.3.1.1.2 -- ::= { wwwDocCtrlEntry 2 }

**wwwDocCtrlBuckets OBJECT-TYPE**

**SYNTAX** Unsigned32

**MAX-ACCESS** read-write

**STATUS** current

**DESCRIPTION**

*"The maximum number of buckets maintained by the agent before the oldest bucket is deleted. The buckets are used to populate the wwwDocAccessTopNTable and the wwwDocBytesTopNTable. The time interval captured in each bucket can be configured by setting the wwwDocCtrlBucketTimeInterval object."*

**DEFVAL** { 4 }

-- 1.3.6.1.2.1.65.1.3.1.1.3 -- ::= { wwwDocCtrlEntry 3 }

**wwwDocCtrlBucketTimeInterval OBJECT-TYPE**

**SYNTAX** TimeInterval

**MAX-ACCESS** read-write

**STATUS** current

**DESCRIPTION**

*"The time interval after which a new bucket is created. Changing this object has no effect on existing buckets."*

**DEFVAL** { 90000 }

-- 1.3.6.1.2.1.65.1.3.1.1.4 -- ::= { wwwDocCtrlEntry 4 }

**wwwDocCtrlTopNSize OBJECT-TYPE**

**SYNTAX** Unsigned32

**MAX-ACCESS** read-write

**STATUS** current

**DESCRIPTION**

*"The maximum number of entries shown in the wwwDocAccessTopNTable and the wwwDocBytesTopNTable. Changing this object has no effect on existing buckets."*

**DEFVAL** { 25 }

-- 1.3.6.1.2.1.65.1.3.1.1.5 -- ::= { wwwDocCtrlEntry 5 }

**wwwDocLastNTable OBJECT-TYPE**

**SYNTAX** SEQUENCE OF WwwDocLastNEntry

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The table which logs the last N access attempts."
-- 1.3.6.1.2.1.65.1.3.2 -- ::= { wwwDocumentStatistics 2 }

wwwDocLastNEntry OBJECT-TYPE
SYNTAX WwwDocLastNEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An entry which describes a recent access attempt."
INDEX {
    wwwServiceIndex,
    wwwDocLastNIndex
}
-- 1.3.6.1.2.1.65.1.3.2.1 -- ::= { wwwDocLastNTable 1 }

WwwDocLastNEntry ::= SEQUENCE {
    wwwDocLastNIndex Unsigned32,
    wwwDocLastNName WwwDocName,
    wwwDocLastNTimeStamp DateAndTime,
    wwwDocLastNRequestType WwwRequestType,
    wwwDocLastNResponseType WwwResponseType,
    wwwDocLastNStatusMsg Utf8String,
    wwwDocLastNBytes Unsigned32
}

wwwDocLastNIndex OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An arbitrary monotonically increasing integer number used
    for indexing the wwwDocLastNTable. The first document
    accessed appears in the table with this index value equal
    to one. Each subsequent document is indexed with the next
    sequential index value. The Nth document accessed will be
    indexed by N. This table presents a sliding window of the
    last wwwDocCtrlLastNSize documents accessed. Thus, entries
    in this table will be indexed by N-wwwDocCtrlLastNSize
    thru N if N > wwwDocCtrlLastNSize and 1 thru N if
    N <= wwwDocCtrlLastNSize.

    The wwwDocCtrlLastNLock attribute can be used to lock
    this table to allow the manager to read its contents."
-- 1.3.6.1.2.1.65.1.3.2.1.1 -- ::= { wwwDocLastNEntry 1 }

wwwDocLastNName OBJECT-TYPE
SYNTAX WwwDocName
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name of the document for which access was attempted."
-- 1.3.6.1.2.1.65.1.3.2.1.2 -- ::= { wwwDocLastNEntry 2 }

wwwDocLastNTimeStamp OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The date and time of the last attempt to access this
    document."
-- 1.3.6.1.2.1.65.1.3.2.1.3 -- ::= { wwwDocLastNEntry 3 }

wwwDocLastNRequestType OBJECT-TYPE
SYNTAX WwwRequestType
MAX-ACCESS read-only

```

```

STATUS      current
DESCRIPTION
    "The protocol request type which was received by the
    server when this document access was attempted."
-- 1.3.6.1.2.1.65.1.3.2.1.4 -- ::= { wwwDocLastNEntry 4 }

wwwDocLastNResponseType OBJECT-TYPE
SYNTAX      WwwResponseType
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The protocol response type which was sent to the client
    as a result of this attempt to access a document. This
    object contains the type of the primary response if
    there were multiple responses to a single request."
-- 1.3.6.1.2.1.65.1.3.2.1.5 -- ::= { wwwDocLastNEntry 5 }

wwwDocLastNStatusMsg OBJECT-TYPE
SYNTAX      Utf8String
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object contains a human readable description of the
    reason why the wwwDocLastNResponseType was returned to the
    client. This object defines the implementation-specific
    reason if the value of wwwDocLastNResponseType indicates
    an error. For example, this object can indicate that the
    requested document could not be transferred due to a
    timeout condition or the document could not be transferred
    because a 'soft link' pointing to the document could not be
    resolved."
-- 1.3.6.1.2.1.65.1.3.2.1.6 -- ::= { wwwDocLastNEntry 6 }

wwwDocLastNBytes OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The number of content bytes that were returned as a
    result of this attempt to access a document."
-- 1.3.6.1.2.1.65.1.3.2.1.7 -- ::= { wwwDocLastNEntry 7 }

wwwDocBucketTable OBJECT-TYPE
SYNTAX      SEQUENCE OF WwwDocBucketEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table provides administrative summary information for
    the buckets maintained per WWW service."
-- 1.3.6.1.2.1.65.1.3.3 -- ::= { wwwDocumentStatistics 3 }

wwwDocBucketEntry OBJECT-TYPE
SYNTAX      WwwDocBucketEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An entry which describes the parameters associated with a
    particular bucket."
INDEX {
    wwwServiceIndex,
    wwwDocBucketIndex
}
-- 1.3.6.1.2.1.65.1.3.3.1 -- ::= { wwwDocBucketTable 1 }

WwwDocBucketEntry ::= SEQUENCE {
    wwwDocBucketIndex      Unsigned32,
    wwwDocBucketTimeStamp DateAndTime,
    wwwDocBucketAccesses  Unsigned32,
    wwwDocBucketDocuments Unsigned32,

```

```
        wwwDocBucketBytes      Unsigned32
    }
```

**wwwDocBucketIndex OBJECT-TYPE**

```
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

*"An arbitrary monotonically increasing integer number used for indexing the wwwDocBucketTable. The index number wraps to 1 whenever the maximum value is reached."*

```
-- 1.3.6.1.2.1.65.1.3.3.1.1 -- ::= { wwwDocBucketEntry 1 }
```

**wwwDocBucketTimeStamp OBJECT-TYPE**

```
SYNTAX      DateAndTime
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

*"The date and time when the bucket was made available."*

```
-- 1.3.6.1.2.1.65.1.3.3.1.2 -- ::= { wwwDocBucketEntry 2 }
```

**wwwDocBucketAccesses OBJECT-TYPE**

```
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

*"The total number of access attempts for any document provided by this WWW service during the time interval over which this bucket was created."*

```
-- 1.3.6.1.2.1.65.1.3.3.1.3 -- ::= { wwwDocBucketEntry 3 }
```

**wwwDocBucketDocuments OBJECT-TYPE**

```
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

*"The total number of different documents for which access was attempted this this WWW service during the time interval over which this bucket was created."*

```
-- 1.3.6.1.2.1.65.1.3.3.1.4 -- ::= { wwwDocBucketEntry 4 }
```

**wwwDocBucketBytes OBJECT-TYPE**

```
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

*"The total number of content bytes which were transferred from this WWW service during the time interval over which this bucket was created."*

```
-- 1.3.6.1.2.1.65.1.3.3.1.5 -- ::= { wwwDocBucketEntry 5 }
```

**wwwDocAccessTopNTable OBJECT-TYPE**

```
SYNTAX      SEQUENCE OF WwwDocAccessTopNEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

*"The table of the most frequently accessed documents in a given bucket. This table is sorted by the column wwwDocAccessTopNAccesses. Entries having the same number of accesses are secondarily sorted by wwwDocAccessTopNBytes. Entries with the same number of accesses and the same number of bytes will have an arbitrary order."*

```
-- 1.3.6.1.2.1.65.1.3.4 -- ::= { wwwDocumentStatistics 4 }
```

**wwwDocAccessTopNEntry OBJECT-TYPE**

```
SYNTAX      WwwDocAccessTopNEntry
MAX-ACCESS  not-accessible
STATUS      current
```

```

DESCRIPTION
    "An entry in the top N table sorted by document accesses."
INDEX {
    wwwServiceIndex,
    wwwDocBucketIndex,
    wwwDocAccessTopNIndex
}
-- 1.3.6.1.2.1.65.1.3.4.1 -- ::= { wwwDocAccessTopNTable 1 }

WwwDocAccessTopNEntry ::= SEQUENCE {
    wwwDocAccessTopNIndex          Unsigned32,
    wwwDocAccessTopNName          WwwDocName,
    wwwDocAccessTopNAccesses      Unsigned32,
    wwwDocAccessTopNBytes         Unsigned32,
    wwwDocAccessTopNLastResponseType WwwResponseType
}

wwwDocAccessTopNIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..4294967295)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An arbitrary monotonically increasing integer number
        used for indexing the wwwDocAccessTopNTable. The index is
        inversely correlated to the sorting order of the table. The
        document with the highest access count will get the index
        value 1."
-- 1.3.6.1.2.1.65.1.3.4.1.1 -- ::= { wwwDocAccessTopNEntry 1 }

wwwDocAccessTopNName OBJECT-TYPE
    SYNTAX      WwwDocName
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The name of the document for which access was attempted."
-- 1.3.6.1.2.1.65.1.3.4.1.2 -- ::= { wwwDocAccessTopNEntry 2 }

wwwDocAccessTopNAccesses OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total number of access attempts for this document."
-- 1.3.6.1.2.1.65.1.3.4.1.3 -- ::= { wwwDocAccessTopNEntry 3 }

wwwDocAccessTopNBytes OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total number of content bytes that were transmitted
        as a result of attempts to access this document."
-- 1.3.6.1.2.1.65.1.3.4.1.4 -- ::= { wwwDocAccessTopNEntry 4 }

wwwDocAccessTopNLastResponseType OBJECT-TYPE
    SYNTAX      WwwResponseType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The protocol response type which was sent to the client
        as a result of the last attempt to access this document.
        This object contains the type of the primary response if
        there were multiple responses to a single request."
-- 1.3.6.1.2.1.65.1.3.4.1.5 -- ::= { wwwDocAccessTopNEntry 5 }

wwwDocBytesTopNTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF WwwDocBytesTopNEntry
    MAX-ACCESS  not-accessible

```

```

STATUS      current
DESCRIPTION
    "The table of the documents which caused most network
    traffic in a given bucket. This table is sorted by the
    column wwwDocBytesTopNBytes. Entries having the same number
    bytes are secondarily sorted by wwwDocBytesTopNAccesses.
    Entries with the same number of accesses and the same
    number of bytes will have an arbitrary order."
-- 1.3.6.1.2.1.65.1.3.5 -- ::= { wwwDocumentStatistics 5 }

wwwDocBytesTopNEntry OBJECT-TYPE
SYNTAX      WwwDocBytesTopNEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An entry in the top N table sorted by network traffic."
INDEX {
    wwwServiceIndex,
    wwwDocBucketIndex,
    wwwDocBytesTopNIndex
}
-- 1.3.6.1.2.1.65.1.3.5.1 -- ::= { wwwDocBytesTopNTable 1 }

WwwDocBytesTopNEntry ::= SEQUENCE {
    wwwDocBytesTopNIndex      Unsigned32,
    wwwDocBytesTopNName      WwwDocName,
    wwwDocBytesTopNAccesses  Unsigned32,
    wwwDocBytesTopNBytes     Unsigned32,
    wwwDocBytesTopNLastResponseType WwwResponseType
}

wwwDocBytesTopNIndex OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An arbitrary monotonically increasing integer number
    used for indexing the wwwDocBytesTopNTable. The index is
    inversely correlated to the sorting order of the table. The
    document with the highest byte count will get the index
    value 1."
-- 1.3.6.1.2.1.65.1.3.5.1.1 -- ::= { wwwDocBytesTopNEntry 1 }

wwwDocBytesTopNName OBJECT-TYPE
SYNTAX      WwwDocName
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The name of the document for which access was attempted."
-- 1.3.6.1.2.1.65.1.3.5.1.2 -- ::= { wwwDocBytesTopNEntry 2 }

wwwDocBytesTopNAccesses OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The total number of access attempts for this document."
-- 1.3.6.1.2.1.65.1.3.5.1.3 -- ::= { wwwDocBytesTopNEntry 3 }

wwwDocBytesTopNBytes OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The total number of content bytes that were transmitted
    as a result of attempts to access this document."
-- 1.3.6.1.2.1.65.1.3.5.1.4 -- ::= { wwwDocBytesTopNEntry 4 }

```



```

wwwDocBytesTopNLastResponseType OBJECT-TYPE
    SYNTAX      WwwResponseType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The protocol response type which was sent to the client
        as a result of the last attempt to access this document.
        This object contains the type of the primary response if
        there were multiple responses to a single request."
    -- 1.3.6.1.2.1.65.1.3.5.1.5 -- ::= { wwwDocBytesTopNEntry 5 }
--
-- Conformance Definitions
--

wwwMIBCompliances OBJECT IDENTIFIER
-- 1.3.6.1.2.1.65.2.1 -- ::= { wwwMIBConformance 1 }

wwwMIBGroups OBJECT IDENTIFIER
-- 1.3.6.1.2.1.65.2.2 -- ::= { wwwMIBConformance 2 }

wwwMinimalCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for SNMP agents which implement
        the minimal subset of the WWW-MIB. Implementors might
        choose this subset for high-performance server where
        full compliance might be to expensive."
    MODULE
    MANDATORY-GROUPS {
        wwwServiceGroup,
        wwwSummaryGroup
    }
    OBJECT      wwwSummaryOutRequests
        DESCRIPTION
            "Instances of wwwSummaryOutRequests do not exist on pure
            WWW server implementations."
    OBJECT      wwwSummaryInResponses
        DESCRIPTION
            "Instances of wwwSummaryOutRequests do not exist on pure
            WWW server implementations."
    OBJECT      wwwSummaryInRequests
        DESCRIPTION
            "Instances of wwwSummaryInRequests do not exist on pure
            WWW client implementations."
    OBJECT      wwwSummaryOutResponses
        DESCRIPTION
            "Instances of wwwSummaryOutResponses do not exist on pure
            WWW client implementations."
    -- 1.3.6.1.2.1.65.2.1.1 -- ::= { wwwMIBCompliances 1 }

wwwFullCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for SNMP agents which implement
        the full WWW-MIB."
    MODULE
    MANDATORY-GROUPS {
        wwwServiceGroup,
        wwwSummaryGroup
    }
    VARIATION   wwwRequestInGroup
        DESCRIPTION
            "The wwwRequestInGroup is mandatory only for WWW server
            or proxy server implementations."
    VARIATION   wwwResponseOutGroup
        DESCRIPTION
            "The wwwResponseOutGroup is mandatory only for WWW server
            or proxy server implementations."

```

```

VARIATION      wwwRequestOutGroup
DESCRIPTION
    "The wwwRequestOutGroup is mandatory only for WWW client
    or proxy server implementations."
VARIATION      wwwResponseInGroup
DESCRIPTION
    "The wwwRequestOutGroup is mandatory only for WWW client
    or proxy server implementations."
VARIATION      wwwDocumentGroup
DESCRIPTION
    "The wwwDocumentGroup is mandatory only for WWW server
    or proxy server implementations."
OBJECT         wwwSummaryOutRequests
DESCRIPTION
    "Instances of wwwSummaryOutRequests do not exist on pure
    WWW server implementations."
OBJECT         wwwSummaryInResponses
DESCRIPTION
    "Instances of wwwSummaryOutRequests do not exist on pure
    WWW server implementations."
OBJECT         wwwSummaryInRequests
DESCRIPTION
    "Instances of wwwSummaryInRequests do not exist on pure
    WWW client implementations."
OBJECT         wwwSummaryOutResponses
DESCRIPTION
    "Instances of wwwSummaryOutResponses do not exist on pure
    WWW client implementations."
-- 1.3.6.1.2.1.65.2.1.2 -- ::= { wwwMIBCompliances 2 }

wwwServiceGroup OBJECT-GROUP
OBJECTS {
    wwwServiceDescription,
    wwwServiceContact,
    wwwServiceProtocol,
    wwwServiceName,
    wwwServiceType,
    wwwServiceStartTime,
    wwwServiceOperStatus,
    wwwServiceLastChange
}
STATUS      current
DESCRIPTION
    "A collection of objects providing information about
    the WWW services known by the SNMP agent."
-- 1.3.6.1.2.1.65.2.2.1 -- ::= { wwwMIBGroups 1 }

wwwSummaryGroup OBJECT-GROUP
OBJECTS {
    wwwSummaryInRequests,
    wwwSummaryOutRequests,
    wwwSummaryInResponses,
    wwwSummaryOutResponses,
    wwwSummaryInBytes,
    wwwSummaryInLowBytes,
    wwwSummaryOutBytes,
    wwwSummaryOutLowBytes
}
STATUS      current
DESCRIPTION
    "A collection of objects providing summary statistics
    about requests and responses generated and received
    by a WWW service."
-- 1.3.6.1.2.1.65.2.2.2 -- ::= { wwwMIBGroups 2 }

wwwRequestInGroup OBJECT-GROUP
OBJECTS {
    wwwRequestInRequests,
    wwwRequestInBytes,

```

```

        wwwRequestInLastTime
    }
    STATUS          current
    DESCRIPTION
        "A collection of objects providing detailed statistics
        about requests received by a WWW service."
-- 1.3.6.1.2.1.65.2.2.3 -- ::= { wwwMIBGroups 3 }

wwwRequestOutGroup OBJECT-GROUP
    OBJECTS {
        wwwRequestOutRequests,
        wwwRequestOutBytes,
        wwwRequestOutLastTime
    }
    STATUS          current
    DESCRIPTION
        "A collection of objects providing detailed statistics
        about requests generated by a WWW service."
-- 1.3.6.1.2.1.65.2.2.4 -- ::= { wwwMIBGroups 4 }

wwwResponseInGroup OBJECT-GROUP
    OBJECTS {
        wwwResponseInResponses,
        wwwResponseInBytes,
        wwwResponseInLastTime
    }
    STATUS          current
    DESCRIPTION
        "A collection of objects providing detailed statistics
        about responses received by a WWW service."
-- 1.3.6.1.2.1.65.2.2.5 -- ::= { wwwMIBGroups 5 }

wwwResponseOutGroup OBJECT-GROUP
    OBJECTS {
        wwwResponseOutResponses,
        wwwResponseOutBytes,
        wwwResponseOutLastTime
    }
    STATUS          current
    DESCRIPTION
        "A collection of objects providing detailed statistics
        about responses generated by a WWW service."
-- 1.3.6.1.2.1.65.2.2.6 -- ::= { wwwMIBGroups 6 }

wwwDocumentGroup OBJECT-GROUP
    OBJECTS {
        wwwDocCtrlLastNSize,
        wwwDocCtrlLastNLock,
        wwwDocCtrlBuckets,
        wwwDocCtrlBucketTimeInterval,
        wwwDocCtrlTopNSize,
        wwwDocLastNName,
        wwwDocLastNTimeStamp,
        wwwDocLastNRequestType,
        wwwDocLastNResponseType,
        wwwDocLastNStatusMsg,
        wwwDocLastNBytes,
        wwwDocBucketTimeStamp,
        wwwDocBucketAccesses,
        wwwDocBucketDocuments,
        wwwDocBucketBytes,
        wwwDocAccessTopNName,
        wwwDocAccessTopNAccesses,
        wwwDocAccessTopNBytes,
        wwwDocAccessTopNLastResponseType,
        wwwDocBytesTopNName,
        wwwDocBytesTopNAccesses,
        wwwDocBytesTopNBytes,
        wwwDocBytesTopNLastResponseType
    }

```

```
}
STATUS      current
DESCRIPTION  "A collection of objects providing information about
              accesses to documents."
-- 1.3.6.1.2.1.65.2.2.7 -- ::= { wwwMIBGroups 7 }
```

END

```
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