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-- prvmibIEEE1588.mib
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--
-- MIB Module :   SN-IEEE-1588-PRIV-MIB
--
-- Revision   :   V1.0.0.0
-- Date      :   2008/12/22
--
-----
SN-IEEE-1588-PRIV-MIB DEFINITIONS ::= BEGIN

IMPORTS
    enterprises,IpAddress          FROM RFC1155-SMI
    DisplayString                  FROM RFC1213-MIB
    TruthValue                     FROM SNMPv2-TC
    OBJECT-TYPE                    FROM RFC-1212;

siemensAD      OBJECT IDENTIFIER ::= { enterprises 4196 }
adProductMibs  OBJECT IDENTIFIER ::= { siemensAD 1 }
simaticNet     OBJECT IDENTIFIER ::= { adProductMibs 1 }
iScalanceX    OBJECT IDENTIFIER ::= { simaticNet 5 }
iScalanceX400 OBJECT IDENTIFIER ::= { iScalanceX 4 }

-- *****
--          SIMATIC NET SCALANCEX300/400 Private MIB
-- *****

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-- SIMATIC NET SCALANCEX300X400 Object Identifier Definition
-----
iScalanceX400Mib  OBJECT IDENTIFIER ::= { iScalanceX400 100 }

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-- Groups in SCALANCEX300X400-PRIVATE-MIB
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-- textual conventions
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-- SIMATIC NET SCALANCEX300X400 Objects
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snProductSpecific  OBJECT IDENTIFIER ::= { iScalanceX400Mib 2 }

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-- SIMATIC NET SCALANCEX300X400 Product Specific Objects
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snX400X300IEEE1588  OBJECT IDENTIFIER ::= { snProductSpecific 22 }

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-- SIMATIC NET SCALANCEX300X400 Product Specific IEEE 1588 Objects
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-- AD SIMATIC NET SCALANCEX300X400 SPECIFIC IEEE 1588 MIB
-----
snX300X400IEEE1588System      OBJECT IDENTIFIER ::= { snX400X300IEEE1588 1 }
snX300X400IEEE1588TransparentClock  OBJECT IDENTIFIER ::= { snX400X300IEEE1588 2 }
snX300X400IEEE1588BoundaryClock    OBJECT IDENTIFIER ::= { snX400X300IEEE1588 3 }

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-- IEEE1588System Sub-Group
-----
snX300X400IEEE1588Mode OBJECT-TYPE
    SYNTAX  INTEGER {
        off(1),
        transparent-clock-mode (2),
        boundary-clock-mode (3)
    }
    MAX-ACCESS  read-write
    STATUS      current

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DESCRIPTION "Enable/disable IEEE 1588 mode."
DEFVAL { off }
 ::= { snX300X400IEEE1588System 1 }

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-- IEEE1588 Transparent Clock Sub-Group
-----
snX300X400IEEE1588TCPrimaryDomainNumber OBJECT-TYPE
SYNTAX      INTEGER (0..3)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "XXX."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588TransparentClock 1 }

snX300X400IEEE1588TCDelayMechanism OBJECT-TYPE
SYNTAX      INTEGER {
    ent-to-end(1),
    peer-to-peer(2)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "xxx."
DEFVAL { ent-to-end }
 ::= { snX300X400IEEE1588TransparentClock 2 }

snX300X400IEEE1588TCSynchronized OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "XXX."
DEFVAL { FALSE }
 ::= { snX300X400IEEE1588TransparentClock 3 }

-----
-- IEEE1588 Transparent Clock Port Table
-----
snX300X400IEEE1588TCPortTable OBJECT-TYPE
SYNTAX      SEQUENCE OF SnX300X400IEEE1588TCPortEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION  "IEEE1588 Port Table."
 ::= { snX300X400IEEE1588TransparentClock 100 }

snX300X400IEEE1588TCPortEntry OBJECT-TYPE
SYNTAX      SnX300X400IEEE1588TCPortEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION  "IEEE1588 Port entry. "
INDEX       { snX300X400IEEE1588TCPortIfIndex }
 ::= { snX300X400IEEE1588TCPortTable 1 }

SnX300X400IEEE1588TCPortEntry ::= SEQUENCE {
    snX300X400IEEE1588TCPortIfIndex      INTEGER,
    snX300X400IEEE1588TCPortEnable      INTEGER,
    snX300X400IEEE1588TCPortLogMinPdelayReqInterval  INTEGER,
    snX300X400IEEE1588TCPortIngressLatency  INTEGER,
    snX300X400IEEE1588TCPortEgressLatency  INTEGER,
    snX300X400IEEE1588TCPortTransportMechanism  INTEGER,
    snX300X400IEEE1588TCPortMeanPathDelay  INTEGER
}

snX300X400IEEE1588TCPortIfIndex OBJECT-TYPE
SYNTAX      INTEGER
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION  "Port on which IEEE 1588 occurs on."
 ::= { snX300X400IEEE1588TCPortEntry 1 }

snX300X400IEEE1588TCPortEnable OBJECT-TYPE
SYNTAX      INTEGER {
    disable(1),
    enable(2)
}
MAX-ACCESS  read-write
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STATUS      current
DESCRIPTION "xxx."
DEFVAL { disable }
 ::= { snX300X400IEEE1588TCPortEntry 2 }

snX300X400IEEE1588TCPortLogMinPdelayReqInterval OBJECT-TYPE
SYNTAX      INTEGER (0..5)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "xxx."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588TCPortEntry 3 }

snX300X400IEEE1588TCPortIngressLatency OBJECT-TYPE
SYNTAX      INTEGER (0..50000)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "xxx."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588TCPortEntry 4 }

snX300X400IEEE1588TCPortEgressLatency OBJECT-TYPE
SYNTAX      INTEGER (0..50000)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "xxx."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588TCPortEntry 5 }

snX300X400IEEE1588TCPortTransportMechanism OBJECT-TYPE
SYNTAX      INTEGER {
    ethernet(1),
    ip-v4(2)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "xxx."
DEFVAL { disable }
 ::= { snX300X400IEEE1588TCPortEntry 6 }

snX300X400IEEE1588TCPortMeanPathDelay OBJECT-TYPE
SYNTAX      INTEGER (0..50000)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION  "xxx."
 ::= { snX300X400IEEE1588TCPortEntry 7 }

-----
-- IEEE1588 Boundary Clock Sub-Group
-----

snX300X400IEEE1588BCDomainNumber OBJECT-TYPE
SYNTAX      INTEGER (0..3)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "XXX."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588BoundaryClock 1 }

snX300X400IEEE1588BCDelayMechanism OBJECT-TYPE
SYNTAX      INTEGER {
    ent-to-end(1),
    peer-to-peer (2)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "xxx."
DEFVAL { ent-to-end }
 ::= { snX300X400IEEE1588BoundaryClock 2 }

snX300X400IEEE1588BCPriority1 OBJECT-TYPE
SYNTAX      INTEGER (1..500)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION  "XXX."
DEFVAL { 128 }
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 ::= { snX300X400IEEEE1588BoundaryClock 3 }

snX300X400IEEEE1588BCPriority2 OBJECT-TYPE
    SYNTAX      INTEGER (1..500)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "XXX."
    DEFVAL { 128 }
    ::= { snX300X400IEEEE1588BoundaryClock 4 }

snX300X400IEEEE1588BCClockClass OBJECT-TYPE
    SYNTAX      INTEGER (0..3)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "XXX."
    DEFVAL { 0 }
    ::= { snX300X400IEEEE1588BoundaryClock 5 }

snX300X400IEEEE1588BCClockAccourancy OBJECT-TYPE
    SYNTAX      INTEGER (0..3)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "XXX."
    DEFVAL { 0 }
    ::= { snX300X400IEEEE1588BoundaryClock 6 }

snX300X400IEEEE1588BCSlaveOnly OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "XXX."
    DEFVAL { FALSE }
    ::= { snX300X400IEEEE1588BoundaryClock 7 }

snX300X400IEEEE1588BCTimeSource OBJECT-TYPE
    SYNTAX      INTEGER {
        internal(1),
        external (2)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { ent-to-end }
    ::= { snX300X400IEEEE1588BoundaryClock 8 }

snX300X400IEEEE1588BCServerState OBJECT-TYPE
    SYNTAX      INTEGER {
        state-1 (1),
        state-2 (2)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { ent-to-end }
    ::= { snX300X400IEEEE1588BoundaryClock 9 }

snX300X400IEEEE1588BCDrift OBJECT-TYPE
    SYNTAX      INTEGER (0..50000)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "XXX."
    DEFVAL { 0 }
    ::= { snX300X400IEEEE1588BoundaryClock 10 }

-----
-- IEEE1588 Boundary Clock Port Table
-----

snX300X400IEEEE1588BCPortTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SnX300X400IEEEE1588BCPortEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION "IEEE1588 Port Table."
    ::= { snX300X400IEEEE1588BoundaryClock 100 }

snX300X400IEEEE1588BCPortEntry OBJECT-TYPE
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```
SYNTAX      SnX300X400IEEE1588BCPortEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION "IEEE1588 Port entry. "
INDEX       { snX300X400IEEE1588BCPortIfIndex }
 ::= { snX300X400IEEE1588BCPortTable 1 }

SnX300X400IEEE1588BCPortEntry ::= SEQUENCE {
  snX300X400IEEE1588BCPortIfIndex      INTEGER,
  snX300X400IEEE1588BCPortEnable      INTEGER,
  snX300X400IEEE1588BCPortState       INTEGER,
  snX300X400IEEE1588BCPortLogSyncInterval  INTEGER,
  snX300X400IEEE1588BCPortLogAnnounceInterval  INTEGER,
  snX300X400IEEE1588BCPortLogMinPdelayReqInterval  INTEGER,
  snX300X400IEEE1588BCPortLogAnnounceReceiptTimeOut  INTEGER,
  snX300X400IEEE1588BCPortLogMinDelayRequestInterval  INTEGER,
  snX300X400IEEE1588BCPortIngressLatency      INTEGER,
  snX300X400IEEE1588BCPortEgressLatency       INTEGER,
  snX300X400IEEE1588BCPortTransportMechanism  INTEGER,
  snX300X400IEEE1588BCPortMeanPathDelay      INTEGER
}

snX300X400IEEE1588BCPortIfIndex OBJECT-TYPE
SYNTAX      INTEGER
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION "Port on which IEEE 1588 occurs on."
 ::= { snX300X400IEEE1588BCPortEntry 1 }

snX300X400IEEE1588BCPortEnable OBJECT-TYPE
SYNTAX      INTEGER {
  disable(1),
  enable(2)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "xxx."
DEFVAL { disable }
 ::= { snX300X400IEEE1588BCPortEntry 2 }

snX300X400IEEE1588BCPortState OBJECT-TYPE
SYNTAX      INTEGER {
  state-1(1),
  state-2(2)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "xxx."
DEFVAL { disable }
 ::= { snX300X400IEEE1588BCPortEntry 3 }

snX300X400IEEE1588BCPortLogAnnounceInterval OBJECT-TYPE
SYNTAX      INTEGER (0..4)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "xxx."
DEFVAL { 1 }
 ::= { snX300X400IEEE1588BCPortEntry 4 }

snX300X400IEEE1588BCPortLogSyncInterval OBJECT-TYPE
SYNTAX      INTEGER (0..4)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "xxx."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588BCPortEntry 5 }

snX300X400IEEE1588BCPortLogMinPdelayReqInterval OBJECT-TYPE
SYNTAX      INTEGER (0..5)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "xxx."
DEFVAL { 0 }
 ::= { snX300X400IEEE1588BCPortEntry 6 }
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snX300X400IEEE1588BCPortLogAnnounceReceiptTimeOut OBJECT-TYPE
    SYNTAX      INTEGER (2..10)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { 3 }
    ::= { snX300X400IEEE1588BCPortEntry 7 }

snX300X400IEEE1588BCPortLogMinDelayRequestInterval OBJECT-TYPE
    SYNTAX      INTEGER (0..4)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { 3 }
    ::= { snX300X400IEEE1588BCPortEntry 8 }

snX300X400IEEE1588BCPortIngressLatency OBJECT-TYPE
    SYNTAX      INTEGER (0..50000)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { 0 }
    ::= { snX300X400IEEE1588BCPortEntry 9 }

snX300X400IEEE1588BCPortEgressLatency OBJECT-TYPE
    SYNTAX      INTEGER (0..50000)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { 0 }
    ::= { snX300X400IEEE1588BCPortEntry 10 }

snX300X400IEEE1588BCPortTransportMechanism OBJECT-TYPE
    SYNTAX      INTEGER {
        ethernet(1),
        ip-v4(2)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION "xxx."
    DEFVAL { disable }
    ::= { snX300X400IEEE1588BCPortEntry 11 }

snX300X400IEEE1588BCPortMeanPathDelay OBJECT-TYPE
    SYNTAX      INTEGER (0..500000)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "xxx."
    ::= { snX300X400IEEE1588BCPortEntry 12 }

END
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