



QLOGIC-MIB

```
QLOGIC-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE,
    enterprises, Integer32, Counter32
    FROM SNMPv2-SMI;

    qlogic          MODULE-IDENTITY
    LAST-UPDATED   "0403012359Z"
    ORGANIZATION   "QLOGIC Corporation"
    CONTACT-INFO   "QLOGIC Technical Support
        Postal: QLogic Corporation
                  6321 Bury Drive
                  Eden Prairie, MN 55346
                  US
        Tel: +1 952 932 4040
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        E-mail: support@QLogic.com"
    DESCRIPTION
        "This table replaces the fcFxPortPhysTable module
        defined in FIBRE-CHANNEL-FE-MIB. It defines volatile
        control objects for ports in a QLogic SANbox switch."
        ::= { enterprises 1663 }

    qLogicOidTree      OBJECT IDENTIFIER ::= { qlogic 1 }
    qLogicExperimental OBJECT IDENTIFIER ::= { qLogicOidTree 3 }
    qlSB2PortControl   OBJECT IDENTIFIER ::= { qLogicExperimental 10 }
    qlSB2PortStatus    OBJECT IDENTIFIER ::= { qLogicExperimental 11 }

FcQlModuleIndex ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION "Represents the module index within a conceptual table."
    SYNTAX      Unsigned32

FcQxPortIndex ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION "Represents the Port index within a conceptual table."
    SYNTAX      Unsigned32

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-- Port Control group

-- the QxPort Physical Level table
-- This table contains, one entry for each QxPort in the
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-- Fabric Element, the physical level status and parameters
-- of the QxPorts.

fcQxPortPhysTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF FcQxPortPhysEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table that contains, one entry for each QxPort in the
        Fabric Element, physical level status and parameters of the
        QxPorts."
    ::= { qlSB2PortControl 1 }

fcQxPortPhysEntry OBJECT-TYPE
    SYNTAX      FcQxPortPhysEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry containing physical level status and parameters of
        a QxPort."
    INDEX { fcQlModuleIndex, fcQxPortIndex }
    ::= { fcQxPortPhysTable 1 }

FcQxPortPhysEntry ::=

    SEQUENCE {
        fcQlModuleIndex
            FcQlModuleIndex,
        fcQxPortIndex
            FcQxPortIndex,
        fcQxPortPhysAdminStatus
            INTEGER,
        fcQxPortPhysOperStatus
            INTEGER,
        fcQxQuailPortPhysAdminStatus
            INTEGER,
        fcQxQuailPortPhysOperStatus
            INTEGER,
        fcQxQuailPortPhysReasonCode
            INTEGER
    }

fcQlModuleIndex OBJECT-TYPE
    SYNTAX      FcQlModuleIndex
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This object identifies the module within the Fabric Element
        for which this entry contains information. This value is
        never greater than fcFeModuleCapacity."
    ::= { fcQxPortPhysEntry 1 }

fcQxPortIndex OBJECT-TYPE
    SYNTAX      FcQxPortIndex
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This object identifies the QxPort within the module. This
        number ranges from 1 to the value of fcFeModulePortCapacity
        for the associated module. The value remains constant for
        the identified QxPort until the module is re-initialized."
    ::= { fcQxPortPhysEntry 2 }

fcQxPortPhysAdminStatus OBJECT-TYPE
```

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SYNTAX      INTEGER {
                online (1), -- place port online
                offline (2), -- take port offline
                testing (3) -- initiate test procedures
            }
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The desired state of the QxPort.  A management station may
    place the QxPort in a desired state by setting this object
    accordingly.  The testing(3) state indicates that no
    operational frames can be passed.  When a Fabric Element
    initializes, all QxPorts start with fcQxPortPhysAdminStatus
    in the offline(2) state.  As the result of either explicit
    management action or per configuration information
    accessible by the Fabric Element, fcQxPortPhysAdminStatus
    is then changed to either the online(1) or testing(3)
    states, or remains in the offline state."
 ::= { fcQxPortPhysEntry 3 }

fcQxPortPhysOperStatus  OBJECT-TYPE
    SYNTAX      INTEGER {
                online (1), -- Login may proceed
                offline (2), -- Login cannot proceed
                testing (3), -- port is under test
                linkFailure (4) -- failure after online/testing
            }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current operational status of the QxPort.  The
        testing(3) indicates that no operational frames can be
        passed.  If fcQxPortPhysAdminStatus is offline(2) then
        fcQxPortPhysOperStatus should be offline(2).  If
        fcQxPortPhysAdminStatus is changed to online(1) then
        fcQxPortPhysOperStatus should change to online(1) if the
        QxPort is ready to accept Fabric Login request from the
        attached NxPort; it should proceed and remain in the link-
        failure(4) state if and only if there is a fault that
        prevents it from going to the online(1) state."
 ::= { fcQxPortPhysEntry 4 }

fcQxQuailPortPhysAdminStatus  OBJECT-TYPE
    SYNTAX      INTEGER {
                up (1), -- place port online
                down (2) -- take port offline
            }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The desired state of the port."
 ::= { fcQxPortPhysEntry 5 }

fcQxQuailPortPhysOperStatus  OBJECT-TYPE
    SYNTAX      INTEGER {
                up (1), -- online
                down (2) -- offline
            }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current operational status of the QxPort."
 ::= { fcQxPortPhysEntry 6 }

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fcQxQuailPortPhysReasonCode OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown      (1), -- Unknown
        up           (2), -- None
        down         (3), -- Administratively down
        notConnected (4), -- Link failure or not
        sfpAbsent    (5), -- SFP not present
        sfpUnsupported (6), -- Unknown SFP
        hardwareFailure (7), -- Hardware failure
        isolated     (8)  -- Isolated
    }
connected
MAX-ACCESS read-only
STATUS      current
DESCRIPTION
    "The reason for the current operational status of the port.
    If the status is 'up', this will be 'up'. If the status is
    'down', the reason code will indicate the reason, e.g.
    'isolated', 'sfpAbsent', etc."
 ::= { fcQxPortPhysEntry 7 }

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-- the Status group

-- This group consists of tables that contains operational
-- status and established service parameters for the Fabric
-- Element and the attached NxPorts.

-- The QxPort Status table
-- This table contains, one entry for each QxPort,
-- the operational status and parameters of the FxPorts.

fcQxPortStatusTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF FcQxPortStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table that contains, one entry for each QxPort in the
        Fabric Element, operational status and parameters of the
        QxPorts."
 ::= { qlSB2PortStatus 1 }

fcQxPortStatusEntry OBJECT-TYPE
    SYNTAX      FcQxPortStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry containing operational status and parameters of a
        QxPort."
    INDEX { fcQlModuleIndex, fcQxPortIndex }
 ::= { fcQxPortStatusTable 1 }

FcQxPortStatusEntry ::=

    SEQUENCE {
        fcQlModuleIndex
            FcQlModuleIndex,
        fcQxPortIndex
            FcQxPortIndex,
        fcQxPortOperMode
    }

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```

        INTEGER,
        fcQxPortAdminMode
        INTEGER,
        fcQxQuailPortOperMode
        INTEGER,
        fcQxQuailPortAdminMode
        INTEGER
    }

-- fcQlModuleIndex OBJECT-TYPE
--     SYNTAX      FcQlModuleIndex
--     MAX-ACCESS  not-accessible
--     STATUS      current
--     DESCRIPTION
--         "This object identifies the module within the Fabric Element
--         for which this entry contains information. This value is
--         never greater than fcFeModuleCapacity."
-- ::= { fcQxPortStatusEntry 1 }
--
-- fcQxPortIndex OBJECT-TYPE
--     SYNTAX      FcQxPortIndex
--     MAX-ACCESS  not-accessible
--     STATUS      current
--     DESCRIPTION
--         "This object identifies the QxPort within the module. This
--         number ranges from 1 to the value of fcFeModulePortCapacity
--         for the associated module. The value remains constant for
--         the identified QxPort until the module is re-initialized."
-- ::= { fcQxPortStatusEntry 2 }

fcQxPortOperMode    OBJECT-TYPE
    SYNTAX      INTEGER {
        glPort    (1),
        fPort     (2),
        lPort     (3),
        ePort     (4),
        flPort    (6)
    }
    MAX-ACCESS      read-only
    STATUS           current
    DESCRIPTION
        "The current operational mode of the FxPort."
    ::= { fcQxPortStatusEntry 3 }

fcQxPortAdminMode  OBJECT-TYPE
    SYNTAX      INTEGER {
        glPort    (1),
        fPort     (2),
        lPort     (3),
        ePort     (4),
        flPort    (6)
    }
    MAX-ACCESS      read-write
    STATUS           current
    DESCRIPTION
        "The desired operational mode of the FxPort."
    ::= { fcQxPortStatusEntry 4 }

fcQxQuailPortOperMode  OBJECT-TYPE
    SYNTAX      INTEGER {
        auto      (1),
        fPort     (2),
        flPort    (3),
        ePort     (4),

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```
        fxPort      (6)
    }
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The current operational mode of the FxPort."
 ::= { fcQxPortStatusEntry 3 }

fcQxQuailPortAdminMode OBJECT-TYPE
    SYNTAX          INTEGER {
        auto        (1),
        fPort      (2),
        flPort     (3),
        ePort      (4),
        fxPort     (6)
    }
    MAX-ACCESS      read-write
    STATUS          current
    DESCRIPTION
        "The desired operational mode of the FxPort."
 ::= { fcQxPortStatusEntry 4 }

END
```