

Contact Name:

IEEE 802.3 Working Group

Contact Email:

stds-802-3-mib@ieee.org

What type of assignment/registration are you requesting?

Assignment of the following additions to the IANAifMauTypeListBits textual convention, immediately following b100GbaseER4(78) -- 100GBASE-ER4:

```
b1000baseT1(??)      -- 1000BASE-T1
b1000basePX30D(??)  -- 1000BASE-PX30D
b1000basePX30U(??)  -- 1000BASE-PX30U
b1000basePX40D(??)  -- 1000BASE-PX40D
b1000basePX40U(??)  -- 1000BASE-PX40U
b10G1GbasePRXD4(??) -- 10/1GBASE-PRX-D4
b10G1GbasePRXU4(??) -- 10/1GBASE-PRX-U4
b10GbasePRD4(??)    -- 10GBASE-PRD4
b10GbasePRU4(??)    -- 10GBASE-PRU4
b25GbaseCR(??)      -- 25GBASE-CR
b25GbaseCRS(??)     -- 25GBASE-CR-S
b25GbaseKR(??)      -- 25GBASE-KR
b25GbaseKRS(??)     -- 25GBASE-KR-S
b25GbaseR(??)       -- 25GBASE-R
b25GbaseSR(??)      -- 25GBASE-SR
b25GbaseT(??)       -- 25GBASE-T
b40GbaseER4(??)     -- 40GBASE-ER4
b40GbaseR(??)       -- 40GBASE-R
b40GbaseT(??)       -- 40GBASE-T
b100GbaseCR4(??)    -- 100GBASE-CR4
b100GbaseKR4(??)    -- 100GBASE-KR4
b100GbaseKP4(??)    -- 100GBASE-KP4
b100GbaseR(??)      -- 100GBASE-R
b100GbaseSR4(??)    -- 100GBASE-SR4
```

Assignment of the following additions to the IANAifMauAutoNegCapBits textual convention, immediately following b100GbaseCR10(22) -- 100GBASE-CR10:

```
b1000baseT1(??)      -- 1000BASE-T1
b25GbaseRS(??)       -- 25GBASE-CR-S or 25GBASE-KR-S
b25GbaseR(??)        -- 25GBASE-CR or 25GBASE-KR
bRSFEC25Greq(??)    -- 25Gb/s RS-FEC
bBaseFEC25Greq(??)  -- 25Gb/s BASE-R FEC
b25GbaseT(??)       -- 25GBASE-T
b40GbaseT(??)       -- 40GBASE-T
b100GbaseCR4(??)    -- 100GBASE-CR4
b100GbaseKR4(??)    -- 100GBASE-KR4
b100GbaseKP4(??)    -- 100GBASE-KP4
bForceMS(??)        -- 1000BASE-T1 Force MS
```

Assignment of the following additions to the dot3MauType object identities, immediately following dot3MauType100GbaseER4 OBJECT-IDENTITY... ::= { dot3MauType 78 }:

```
dot3MauType1000baseT1 OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "1000BASE-T1 single balanced twisted-pair copper cabling PHY"
  REFERENCE "IEEE Std 802.3, Clause 96"
  ::= { dot3MauType xx }
```

```

dot3MauType1000basePX30D OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber EPON OLT, 20km, 1:32 split ratio"
  REFERENCE "IEEE Std 802.3, Clause 60"
  ::= { dot3MauType xx }

dot3MauType1000basePX30U OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber EPON ONU, 20km, 1:32 split ratio "
  REFERENCE "IEEE Std 802.3, Clause 60"
  ::= { dot3MauType xx }

dot3MauType1000basePX40D OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber EPON OLT, 20km, 1:64 split ratio"
  REFERENCE "IEEE Std 802.3, Clause 60"
  ::= { dot3MauType xx }

dot3MauType1000basePX40U OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber EPON ONU, 20km, 1:64 split ratio "
  REFERENCE "IEEE Std 802.3, Clause 60"
  ::= { dot3MauType xx }

dot3MauType10G1GbasePRXD4 OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber asymmetric-rate EPON OLT, supporting
              extended power budget (PRX40)"
  REFERENCE "IEEE Std 802.3, Clause 75"
  ::= { dot3MauType xx }

dot3MauType10G1GbasePRXU4 OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber asymmetric-rate EPON ONU, supporting
              extended power budget (PRX40)"
  REFERENCE "IEEE Std 802.3, Clause 75"
  ::= { dot3MauType xx }

dot3MauType10GbasePRD4 OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber symmetric-rate EPON OLT, supporting
              extended power budget (PR40)"
  REFERENCE "IEEE Std 802.3, Clause 75"
  ::= { dot3MauType xx }

dot3MauType10GbasePRU4 OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "One single-mode fiber symmetric-rate EPON ONU, supporting
              extended power budget (PR40)"
  REFERENCE "IEEE Std 802.3, Clause 75"
  ::= { dot3MauType xx }

dot3MauType25GbaseCR OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "25GBASE-R PCS/PMA over shielded balanced copper cable"
  REFERENCE "IEEE Std 802.3, Clause 110"
  ::= { dot3MauType xx }

dot3MauType25GbaseCRS OBJECT-IDENTITY
  STATUS current
  DESCRIPTION "25GBASE-R PCS/PMA over shielded balanced copper cable
              without RS-FEC"

```

```
REFERENCE "IEEE Std 802.3, Clause 110"
 ::= { dot3MauType xx }

dot3MauType25GbaseKR OBJECT-IDENTITY
STATUS current
DESCRIPTION "25GBASE-R PCS/PMA over an electrical backplane"
REFERENCE "IEEE Std 802.3, Clause 111"
 ::= { dot3MauType xx }

dot3MauType25GbaseKRS OBJECT-IDENTITY
STATUS current
DESCRIPTION "25GBASE-R PCS/PMA over an electrical backplane without RS-FEC"
REFERENCE "IEEE Std 802.3, Clause 111"
 ::= { dot3MauType xx }

dot3MauType25GbaseR OBJECT-IDENTITY
STATUS current
DESCRIPTION "25GBASE-R PCS/PMA over undefined PMD"
REFERENCE "IEEE Std 802.3, Clause 107 and 109"
 ::= { dot3MauType xx }

dot3MauType25GbaseSR OBJECT-IDENTITY
STATUS current
DESCRIPTION "25GBASE-R PCS/PMA over multimode fiber"
REFERENCE "IEEE Std 802.3, Clause 112"
 ::= { dot3MauType xx }

dot3MauType25GbaseT OBJECT-IDENTITY
STATUS current
DESCRIPTION "Four-pair twisted-pair balanced copper cabling"
REFERENCE "IEEE Std 802.3, Clause 113"
 ::= { dot3MauType xx }

dot3MauType40GbaseER4 OBJECT-IDENTITY
STATUS current
DESCRIPTION "40GBASE-R PCS/PMA over 4 WDM lane single mode fiber"
REFERENCE "IEEE Std 802.3, Clause 82"
 ::= { dot3MauType xx }

dot3MauType40GbaseR OBJECT-IDENTITY
STATUS current
DESCRIPTION "40GBASE-R PCS as over undefined PMA/PMD"
REFERENCE "IEEE Std 802.3, Clause 82"
 ::= { dot3MauType xx }

dot3MauType40GbaseT OBJECT-IDENTITY
STATUS current
DESCRIPTION "Four-pair twisted-pair balanced copper cabling"
REFERENCE "IEEE Std 802.3, Clause 113"
 ::= { dot3MauType xx }

dot3MauType100GbaseCR4 OBJECT-IDENTITY
STATUS current
DESCRIPTION "100GBASE-R PCS/PMA over 4 lane shielded copper balanced cable"
REFERENCE "IEEE Std 802.3, Clause 92"
 ::= { dot3MauType xx }

dot3MauType100GbaseKR4 OBJECT-IDENTITY
STATUS current
DESCRIPTION "100GBASE-R PCS/PMA over an electrical backplane"
REFERENCE "IEEE Std 802.3, Clause 93"
 ::= { dot3MauType xx }
```

dot3MauType100GbaseKP4 OBJECT-IDENTITY
STATUS current
DESCRIPTION "100GBASE-P PCS/PMA over an electrical backplane PMD"
REFERENCE "IEEE Std 802.3, Clause 94"
::= { dot3MauType xx }

dot3MauType100GbaseR OBJECT-IDENTITY
STATUS current
DESCRIPTION "100GBASE-R Multi-lane PCS over undefined PMA/PMD"
REFERENCE "IEEE Std 802.3, Clause 82"
::= { dot3MauType xx }

dot3MauType100GbaseSR4 OBJECT-IDENTITY
STATUS current
DESCRIPTION " 100GBASE-R PCS/PMA over 4 lane multimode fiber"
REFERENCE "IEEE Std 802.3, Clause 95"
::= { dot3MauType xx }

Which registry are you requesting this assignment/registration be made in?

The assignment of the IANAifMauTypeListBits and IANAifMauAutoNegCapBits textual conventions as well as the dot3MauType object identities is contained in the IANA-MAU-MIB.

If possible, please give a brief description of why you need this assignment/registration:

The new MAU types and the associated AutoNeg capability bits listed above were specified in the IEEE 802.3 amendments IEEE Std 802.3bk-2013, IEEE Std 802.3bj-2014 and IEEE Std 802.3bm-2015, which are now published in IEEE Std 802.3-2015, as well as IEEE Std 802.3bw-2015, IEEE Std 802.3by-2016, IEEE Std 802.3bq-2016 and IEEE Std 802.3bp-2016.

The description of the IANAifMauTypeListBits textual convention states that "...changes in this textual convention SHALL be synchronized with relevant changes in the dot3MauType OBJECT-IDENTITIES.". The assignments are imported and referenced in the IEEE8023-MAU-MIB, which is defined in Clause 13 of IEEE Std 802.3.1-2013, "IEEE Standard for Management Information Base (MIB) Definitions for Ethernet."

Additional Information. Please include a reference to the specification or RFC (if available) that defines this number or name space:

IEEE Std 802.3-2015, subclauses 30.5.1.1.2 aMAUType and 30.6.1.1.5 aAutoNegLocalTechnologyAbility, as amended by IEEE Std 802.3bw-2015, IEEE Std 802.3by-2016, IEEE Std 802.3bq-2016 and IEEE Std 802.3bp-2016.