Contact Name:

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What type of assignment/registration are you requesting?

Assignment of the following additions to the IANAifMauTypeListBits textual convention, immediately following b10GbasePRU3(69) -- 10GBASE-PR-U3:

b40GbaseKR4(xx) -- 40GBASE-KR4
b40GbaseCR4(xx) -- 40GBASE-CR4
b40GbaseSR4(xx) -- 40GBASE-SR4
b40GbaseFR(xx) -- 40GBASE-FR
b40GbaseLR4(xx) -- 40GBASE-LR4
b100GbaseCR10(xx) -- 100GBASE-CR10
b100GbaseSR10(xx) -- 100GBASE-SR10
b100GbaseLR4(xx) -- 100GBASE-LR4
b100GbaseER4(xx) -- 100GBASE-ER4

Assignment of the following additions to the IANAifMauAutoNegCapBits textual convention, immediately following b10GbaseKR(19) -- 10GBASE-KR:

b40GbaseKR4(xx) -- 40GBASE-KR4
b40GbaseCR4(xx) -- 40GBASE-CR4
b100GbaseCR10(xx) -- 100GBASE-CR10

Assignment of the following additions to the dot3MauType object identities, immediately following dot3MauType10GbasePRU3 OBJECT-IDENTITY...
::= { dot3MauType 69 }:

```
dot3MauType40GbaseKR4 OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION "40GBASE-R PCS/PMA over an electrical backplane"
  REFERENCE   "IEEE Std 802.3, Clause 84"
  ::= { dot3MauType xx }

dot3MauType40GbaseCR4 OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION "40GBASE-R PCS/PMA over 4 lane shielded copper balanced cable"
  REFERENCE   "IEEE Std 802.3, Clause 85"
  ::= { dot3MauType xx }

dot3MauType40GbaseSR4 OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION "40GBASE-R PCS/PMA over 4 lane multimode fiber"
  REFERENCE   "IEEE Std 802.3, Clause 86"
  ::= { dot3MauType xx }

dot3MauType40GbaseFR OBJECT-IDENTITY
  STATUS      current
  DESCRIPTION "40GBASE-R PCS/PMA over single mode fiber"
  REFERENCE   " IEEE Std 802.3, Clause 89"
  ::= { dot3MauType xx }
```

```
    dot3MauType40GbaseLR4 OBJECT-IDENTITY
      STATUS       current
      DESCRIPTION "40GBASE-R PCS/PMA over 4 WDM lane single mode fiber"
      REFERENCE    "IEEE Std 802.3, Clause 87"
      ::= { dot3MauType xx }

    dot3MauType100GbaseCR10 OBJECT-IDENTITY
      STATUS       current
      DESCRIPTION "100GBASE-R PCS/PMA over 10 lane shielded copper balanced cable"
      REFERENCE    " IEEE Std 802.3, Clause 85"
      ::= { dot3MauType xx }

    dot3MauType100GbaseSR10 OBJECT-IDENTITY
      STATUS       current
      DESCRIPTION "100GBASE-R PCS/PMA over 10 lane multimode fiber"
      REFERENCE    " IEEE Std 802.3, Clause 86"
      ::= { dot3MauType xx }

    dot3MauType100GbaseLR4 OBJECT-IDENTITY
      STATUS       current
      DESCRIPTION "100GBASE-R PCS/PMA over 4 WDM lane single mode fiber, long reach"
      REFERENCE    " IEEE Std 802.3, Clause 88"
      ::= { dot3MauType xx }

    dot3MauType100GbaseER4 OBJECT-IDENTITY
      STATUS       current
      DESCRIPTION "100GBASE-R PCS/PMA over 4 WDM lane single mode fiber PMD, extended
reach"
      REFERENCE    " IEEE Std 802.3, Clause 88"
      ::= { 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. The IEEE 802.3 Ethernet Working Group recently completed a project, known as IEEE Std 802.3.1-2011, that updated and republished the IETF RFCs that are relevant to the management of Ethernet interfaces. IEEE Std 802.3.1-2011 imports and makes extensive reference to 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 recently approved amendments to IEEE Std 802.3-2008: IEEE Std 802.3ba-2010 and IEEE Std 802.3bg-2011. 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 802.3.1-2011, "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 802.3-2008, subclauses 30.5.1.1.2 aMAUType and 30.6.1.1.5 aAutoNegLocalTechnologyAbility, as amended by IEEE Std 802.3ba-2010 and IEEE Std 802.3bg-2011.