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What type of assignment/registration are you requesting?

Assignment of the following additions to the IANAifMauTypeListBits textual convention, immediately following b5GbaseT(104) -- 5GBASE-T:

```
b100baseT1(??)    -- 100BASE-T1
b1000baseRHA(??)  -- 1000BASE-RHA
b1000baseRHB(??)  -- 1000BASE-RHB
b1000baseRHC(??)  -- 1000BASE-RHC
b2p5GbaseKX(??)   -- 2.5GBASE-KX
b2p5GbaseX(??)    -- 2.5GBASE-X
b5GbaseKR(??)     -- 5GBASE-KR
b5GbaseR(??)      -- 5GBASE-R
b10GpassXR(??)    -- 10GPASS-XR
b25GbaseLR(??)    -- 25GBASE-LR
b25GbaseER(??)    -- 25GBASE-ER
b50GbaseR(??)     -- 50GBASE-R
b50GbaseCR(??)    -- 50GBASE-CR
b50GbaseKR(??)    -- 50GBASE-KR
b50GbaseSR(??)    -- 50GBASE-SR
b50GbaseFR(??)    -- 50GBASE-FR
b50GbaseLR(??)    -- 50GBASE-LR
b50GbaseER(??)    -- 50GBASE-ER
b100GbaseCR2(??)  -- 100GBASE-CR2
b100GbaseKR2(??)  -- 100GBASE-KR2
b100GbaseSR2(??)  -- 100GBASE-SR2
b100GbaseDR(??)   -- 100GBASE-DR
b200GbaseR(??)    -- 200GBASE-R
b200GbaseDR4(??)  -- 200GBASE-DR4
b200GbaseFR4(??)  -- 200GBASE-FR4
b200GbaseLR4(??)  -- 200GBASE-LR4
b200GbaseCR4(??)  -- 200GBASE-CR4
b200GbaseKR4(??)  -- 200GBASE-KR4
b200GbaseSR4(??)  -- 200GBASE-SR4
b200GbaseER4(??)  -- 200GBASE-ER4
b400GbaseR(??)    -- 400GBASE-R
b400GbaseSR16(??) -- 400GBASE-SR16
b400GbaseDR4(??)  -- 400GBASE-DR4
b400GbaseFR8(??)  -- 400GBASE-FR8
b400GbaseLR8(??)  -- 400GBASE-LR8
b400GbaseER8(??)  -- 400GBASE-ER8
b10baseT1L(??)    -- 10BASE-T1L
```

```
        b10baseT1SHD(??)  -- 10BASE-T1S half duplex mode
        b10baseT1SMD(??)  -- 10BASE-T1S multidrop mode
        b10baseT1SFD(??)  -- 10BASE-T1S full duplex mode
```

Assignment of the following additions to the IANAifMauAutoNegCapBits textual convention, immediately following b5GBaseT(35) -- 5GBASE-T:

```
        b2p5GbaseKX(??)   -- 2.5GBASE-KX
        b5GbaseKR(??)     -- 5GBASE-KR
        b50GbaseR(??)     -- 50GBASE-CR or 50GBASE-KR
        b100GbaseR2(??)   -- 100GBASE-CR2 or 100GBASE-KR2
        b200GbaseR4(??)   -- 200GBASE-CR4 or 200GBASE-KR4
        b10baseT1L(??)    -- 10BASE-T1L
        b10baseT1S(??)    -- 10BASE-T1S
```

Assignment of the following additions to the dot3MauType object identities, immediately following dot3MauType5GigT OBJECT-IDENTITY... ::= { dot3MauType 104 }:

```
        dot3MauType100baseT1 OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "100BASE-T1 Single balanced twisted-pair copper cabling
                      PHY"
         REFERENCE "IEEE Std 802.3, Clause 96"
         ::= { dot3MauType xx }

        dot3MauType1000baseRHA OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "1000BASE-RHA Plastic optical fiber PHY"
         REFERENCE "IEEE Std 802.3, Clause 115"
         ::= { dot3MauType xx }

        dot3MauType1000baseRHB OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "1000BASE-RHB Plastic optical fiber PHY"
         REFERENCE "IEEE Std 802.3, Clause 115"
         ::= { dot3MauType xx }

        dot3MauType1000baseRHC OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "1000BASE-RHC Plastic optical fiber PHY"
         REFERENCE "IEEE Std 802.3, Clause 115"
         ::= { dot3MauType xx }

        dot3MauType2p5GbaseKX OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "2.5GBASE-X PMD over an electrical backplane"
         REFERENCE "IEEE Std 802.3, Clause 128"
         ::= { dot3MauType xx }
```

```
dot3MauType2p5GbaseX OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "2.5GBASE-X PCS/PMA over undefined PMD"
 REFERENCE "IEEE Std 802.3, Clause 127"
 ::= { dot3MauType xx }

dot3MauType5GbaseKR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "5GBASE-KR PMD over an electrical backplane"
 REFERENCE "IEEE Std 802.3, Clause 130"
 ::= { dot3MauType xx }

dot3MauType5GbaseR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "5GBASE-R PCS/PMA over undefined PMD"
 REFERENCE "IEEE Std 802.3, Clause 129"
 ::= { dot3MauType xx }

dot3MauType10GpassXR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "Coax cable distribution network PHY continuous
              downstream/burst mode upstream PHY"
 REFERENCE "IEEE Std 802.3, Clause 100 and 101"
 ::= { dot3MauType xx }

dot3MauType25GbaseLR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "25GBASE-R PCS/PMA over single-mode fiber PMD,
              with long reach"
 REFERENCE "IEEE Std 802.3, Clause 114"
 ::= { dot3MauType xx }

dot3MauType25GbaseER OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "25GBASE-R PCS/PMA over single-mode fiber PMD,
              with extended reach"
 REFERENCE "IEEE Std 802.3, Clause 114"
 ::= { dot3MauType xx }

dot3MauType50GbaseR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R Multi-lane PCS over undefined PMA/PMD"
 REFERENCE "IEEE Std 802.3, Clause 133 and 135"
 ::= { dot3MauType xx }

dot3MauType50GbaseCR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R PCS/PMA over shielded copper balanced cable PMD"
 REFERENCE "IEEE Std 802.3, Clause 136"
 ::= { dot3MauType xx }
```

```
dot3MauType50GbaseKR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R PCS/PMA over an electrical backplane PMD"
 REFERENCE "IEEE Std 802.3, Clause 137"
 ::= { dot3MauType xx }

dot3MauType50GbaseSR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R PCS/PMA over multimode fiber PMD"
 REFERENCE "IEEE Std 802.3, Clause 138"
 ::= { dot3MauType xx }

dot3MauType50GbaseFR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R PCS/PMA over single mode fiber PMD with reach
              up to at least 2 km"
 REFERENCE "IEEE Std 802.3, Clause 139"
 ::= { dot3MauType xx }

dot3MauType50GbaseLR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R PCS/PMA over single mode fiber PMD with reach
              up to at least 10 km"
 REFERENCE "IEEE Std 802.3, Clause 139"
 ::= { dot3MauType xx }

dot3MauType50GbaseER OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "50GBASE-R PCS/PMA over single-mode fiber PMD with reach
              up to at least 40 km"
 REFERENCE "IEEE Std 802.3, Clause 139"
 ::= { dot3MauType xx }

dot3MauType100GbaseCR2 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "100GBASE-R PCS/PMA over 2 lane shielded copper balanced
              cable PMD"
 REFERENCE "IEEE Std 802.3, Clause 136"
 ::= { dot3MauType xx }

dot3MauType100GbaseKR2 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "100GBASE-R PCS/PMA over an electrical backplane PMD"
 REFERENCE "IEEE Std 802.3, Clause 137"
 ::= { dot3MauType xx }

dot3MauType100GbaseSR2 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "100GBASE-R PCS/PMA over 2 lane multimode fiber PMD"
```

```
 REFERENCE "IEEE Std 802.3, Clause 138"
 ::= { dot3MauType xx }

dot3MauType100GbaseDR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "100GBASE-R PCS/PMA over single mode fiber PMD"
 REFERENCE "IEEE Std 802.3, Clause 140"
 ::= { dot3MauType xx }

dot3MauType200GbaseR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R Multi-lane PCS over undefined PMA/PMD"
 REFERENCE "IEEE Std 802.3, Clause 119"
 ::= { dot3MauType xx }

dot3MauType200GbaseDR4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R PCS/PMA over 4-lane single-mode fiber PMD"
 REFERENCE "IEEE Std 802.3, Clause 121"
 ::= { dot3MauType xx }

dot3MauType200GbaseFR4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R PCS/PMA over 4 WDM lane single-mode fiber PMD
              with reach up to at least 2 km"
 REFERENCE "IEEE Std 802.3, Clause 122"
 ::= { dot3MauType xx }

dot3MauType200GbaseLR4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R PCS/PMA over 4 WDM lane single-mode fiber PMD
              with reach up to at least 10 km"
 REFERENCE "IEEE Std 802.3, Clause 122"
 ::= { dot3MauType xx }

dot3MauType200GbaseCR4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R PCS/PMA over 4 lane shielded copper balanced
              cable PMD"
 REFERENCE "IEEE Std 802.3, Clause 136"
 ::= { dot3MauType xx }

dot3MauType200GbaseKR4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R PCS/PMA over an electrical backplane PMD"
 REFERENCE "IEEE Std 802.3, Clause 137"
 ::= { dot3MauType xx }

dot3MauType200GbaseSR4 OBJECT-IDENTITY
 STATUS current
```

```
 DESCRIPTION "200GBASE-R PCS/PMA over 4 lane multimode fiber PMD"
 REFERENCE "IEEE Std 802.3, Clause 138"
 ::= { dot3MauType xx }

dot3MauType200GbaseER4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "200GBASE-R PCS/PMA over 4 WDM lane single-mode fiber PMD
              with reach up to at least 40 km"
 REFERENCE "IEEE Std 802.3, Clause 122"
 ::= { dot3MauType xx }

dot3MauType400GbaseR OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "400GBASE-R Multi-lane PCS over undefined PMA/PMD"
 REFERENCE "IEEE Std 802.3, Clause 119"
 ::= { dot3MauType xx }

dot3MauType400GbaseSR16 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "400GBASE-R PCS/PMA over 16-lane multimode fiber PMD"
 REFERENCE "IEEE Std 802.3, Clause 123"
 ::= { dot3MauType xx }

dot3MauType400GbaseDR4 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "400GBASE-R PCS/PMA over 4-lane single-mode fiber PMD"
 REFERENCE "IEEE Std 802.3, Clause 124"
 ::= { dot3MauType xx }

dot3MauType400GbaseFR8 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "400GBASE-R PCS/PMA over 8 WDM lane single-mode fiber PMD
              with reach up to at least 2 km"
 REFERENCE "IEEE Std 802.3, Clause 122"
 ::= { dot3MauType xx }

dot3MauType400GbaseLR8 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "400GBASE-R PCS/PMA over 8 WDM lane single-mode fiber PMD
              with reach up to at least 10 km"
 REFERENCE "IEEE Std 802.3, Clause 122"
 ::= { dot3MauType xx }

dot3MauType400GbaseER8 OBJECT-IDENTITY
 STATUS current
 DESCRIPTION "400GBASE-R PCS/PMA over 8 WDM lane single-mode fiber PMD
              with reach up to at least 40 km"
 REFERENCE "IEEE Std 802.3, Clause 122"
 ::= { dot3MauType xx }
```

```
        dot3MauType10baseT1L OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "10BASE-T1L Single balanced pair PHY"
         REFERENCE "IEEE Std 802.3, Clause 146"
         ::= { dot3MauType xx }

        dot3MauType10baseT1SHD OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "10BASE-T1S Single balanced pair PHY, half duplex mode"
         REFERENCE "IEEE Std 802.3, Clause 147"
         ::= { dot3MauType xx }

        dot3MauType10baseT1SMD OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "10BASE-T1S Single balanced pair PHY, multidrop mode"
         REFERENCE "IEEE Std 802.3, Clause 147"
         ::= { dot3MauType xx }

        dot3MauType10baseT1SFD OBJECT-IDENTITY
         STATUS current
         DESCRIPTION "10BASE-T1S Single balanced pair PHY, full duplex mode"
         REFERENCE "IEEE Std 802.3, Clause 147"
         ::= { dot3MauType xx }
```

Correction of dot3MauType1000baseT1 OBJECT-IDENTITY REFERENCE from "IEEE Std 802.3, Clause 96" to "IEEE Std 802.3, Clause 97" { dot3MauType 79 }

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 are specified in the IEEE Std 802.3-2018, as well as IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std 802.3cn-20xx, and IEEE Std 802.3cg-20xx.

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 802.3-2018, subclauses 30.5.1.1.2 aMAUType and 30.6.1.1.5 aAutoNegLocalTechnologyAbility, as amended by IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std 802.3cn-20xx, and IEEE Std 802.3cg-20xx.