

## 14 Management entities

### 14.4 Branch 0xDB “extended attributes”

This subclause lists extended management attributes, which are not part of the definitions in IEEE Std 802.3, Clause 30. The extended attributes shown in Table 14-56 shall be supported.

The extended attributes can be part of *eOAM\_Get\_Request*, *eOAM\_Get\_Response*, *eOAM\_Set\_Request*, and *eOAM\_Set\_Response* eOAMPDUs.

**Table 14-1—Extended attributes defined in branch 0xDB**

| Leaf                         | Attribute                            | Defined in                |
|------------------------------|--------------------------------------|---------------------------|
| Object group: ONU management |                                      |                           |
| 0x00-02                      | aOnuId                               | 14.4.1.2                  |
| 0x00-03                      | aOnuFwVersion                        | 14.4.1.3                  |
| 0x00-04                      | aOnuInfoChipset                      | 14.4.1.4                  |
| 0x00-05                      | aOnuInfoDateManufacture              | 14.4.1.5                  |
| 0x00-06                      | aOnuInfoManufacturer                 | 14.4.1.6                  |
| 0x00-07                      | aOnuLlidCapability                   | 14.4.1.7                  |
| 0x00-08                      | aOnuPonPortCount                     | 14.4.1.8                  |
| 0x00-0A                      | aOnuInfoPacketBuffer                 | 14.4.1.9                  |
| 0x00-0C                      | aLlidForwardState                    | 14.4.1.10                 |
| 0x00-0D                      | aLlidOamFrameRate                    | 14.4.1.11                 |
| 0x00-0E                      | aOnuManOrgName                       | 14.4.1.12                 |
| 0x00-0F                      | aOnuCvcCvsValidity                   | 14.4.1.13                 |
| 0x00-10                      | aOnuSrvPortCapability                | 14.4.1.14                 |
| 0x00-11                      | aVendorName                          | 14.4.1.15                 |
| 0x00-12                      | aModelNumber                         | 14.4.1.16                 |
| 0x00-13                      | aHardwareVersion                     | 14.4.1.17                 |
| 0x00-14                      | aLineRateMode                        | 14.4.1.18                 |
| 0x00-16                      | <a href="#">aMediaTypeCapability</a> | <a href="#">14.4.1.20</a> |
| 0x00-17                      | <a href="#">aMediaType</a>           | <a href="#">14.4.1.21</a> |
| 0x01-0E                      | aOnuFwFileName                       | 14.4.1.19                 |
| Object group: Bridging       |                                      |                           |
| 0x01-01                      | aOnuDynMacTableSize                  | 14.4.2.1                  |
| 0x01-02                      | aOnuDynMacAgeLimit                   | 14.4.2.2                  |
| 0x01-03                      | aUniDynMacTable                      | 14.4.2.3                  |
| 0x01-04                      | aUniStatMacTable                     | 14.4.2.4                  |
| 0x01-05                      | aUniPortAutoNeg                      | 14.4.2.5                  |
| 0x01-06                      | aUniAdmissionControl                 | 14.4.2.6                  |
| 0x01-07                      | aUniMinLearnMacCount                 | 14.4.2.7                  |
| 0x01-08                      | aUniMaxLearnMacCount                 | 14.4.2.8                  |
| 0x01-09                      | aOnuMaxLearnMacCount                 | 14.4.2.9                  |
| 0x01-0A                      | aUniLengthDiscard                    | 14.4.2.10                 |
| 0x01-0B                      | aUniFloodUnknown                     | 14.4.2.11                 |
| 0x01-0C                      | aUniLocalSwitching                   | 14.4.2.12                 |
| 0x01-0F                      | aUniMacTableFull                     | 14.4.2.13                 |
| 0x01-12                      | aOnuMaxFrameSizeCapability           | 14.4.2.14                 |
| 0x01-13                      | aUniMaxFrameSizeLimit                | 14.4.2.15                 |
| 0x01-20                      | aLlidType                            | 14.4.2.16                 |
| 0x01-21                      | aSrvPortType                         | 14.4.2.17                 |
| 0x01-22                      | aQueueInfo                           | 14.4.2.18                 |

| Leaf                                  | Attribute                       | Defined in |
|---------------------------------------|---------------------------------|------------|
| Object group: Statistics and counters |                                 |            |
| 0x02-01                               | aCountRxFramesGreen             | 14.4.3.1   |
| 0x02-02                               | aCountTxFramesGreen             | 14.4.3.2   |
| 0x02-03                               | aCountRxFrames2Short            | 14.4.3.3   |
| 0x02-04                               | aCountRxFrames64                | 14.4.3.4   |
| 0x02-05                               | aCountRxFrames65to127           | 14.4.3.5   |
| 0x02-06                               | aCountRxFrames128to255          | 14.4.3.6   |
| 0x02-07                               | aCountRxFrames256to511          | 14.4.3.7   |
| 0x02-08                               | aCountRxFrames512to1023         | 14.4.3.8   |
| 0x02-09                               | aCountRxFrames1024to1518        | 14.4.3.9   |
| 0x02-0A                               | aCountRxFrames1519              | 14.4.3.10  |
| 0x02-0B                               | aCountTxFrames64                | 14.4.3.11  |
| 0x02-0C                               | aCountTxFrames65to127           | 14.4.3.12  |
| 0x02-0D                               | aCountTxFrames128to255          | 14.4.3.13  |
| 0x02-0E                               | aCountTxFrames256to511          | 14.4.3.14  |
| 0x02-0F                               | aCountTxFrames512to1023         | 14.4.3.15  |
| 0x02-10                               | aCountTxFrames1024to1518        | 14.4.3.16  |
| 0x02-11                               | aCountTxFrames1519              | 14.4.3.17  |
| 0x02-12                               | aQueueDelayThr                  | 14.4.3.18  |
| 0x02-13                               | aQueueDelayValue                | 14.4.3.19  |
| 0x02-14                               | aCountFramesDropped             | 14.4.3.20  |
| 0x02-15                               | aCountOctetsDropped             | 14.4.3.21  |
| 0x02-16                               | aCountOctetsDelayed             | 14.4.3.22  |
| 0x02-17                               | aCountUsOctetsUnused            | 14.4.3.23  |
| 0x02-1D                               | aPonOptMonitTemp                | 14.4.3.24  |
| 0x02-1E                               | aPonOptMonitVcc                 | 14.4.3.25  |
| 0x02-1F                               | aPonOptMonitBias                | 14.4.3.26  |
| 0x02-20                               | aPonOptMonitTxPower             | 14.4.3.27  |
| 0x02-21                               | aPonOptMonitRxPower             | 14.4.3.28  |
| 0x02-22                               | aCounterRxFramesY               | 14.4.3.29  |
| 0x02-23                               | aCounterTxFramesY               | 14.4.3.30  |
| 0x02-24                               | aCounterTxOctetsG               | 14.4.3.31  |
| 0x02-25                               | aCounterRxOctetsY               | 14.4.3.32  |
| 0x02-26                               | aCounterRxOctetsG               | 14.4.3.33  |
| 0x02-27                               | aCounterTxOctetsY               | 14.4.3.34  |
| 0x02-28                               | aCounterTxFramesL2Unicast       | 14.4.3.35  |
| 0x02-29                               | aCounterTxFramesL2Multicast     | 14.4.3.36  |
| 0x02-2A                               | aCounterTxFramesL2Broadcast     | 14.4.3.37  |
| 0x02-2B                               | aCounterRxFramesL2Unicast       | 14.4.3.38  |
| 0x02-2C                               | aCounterRxFramesL2Multicast     | 14.4.3.39  |
| 0x02-2D                               | aCounterRxFramesL2Broadcast     | 14.4.3.40  |
| 0x02-2E                               | aOnuCounterNumber               | 14.4.3.41  |
| 0x02-2F                               | aCounterRxFramesL2CP            | 14.4.3.42  |
| 0x02-30                               | aCounterRxOctetsL2CP            | 14.4.3.43  |
| 0x02-31                               | aCounterTxFramesL2CP            | 14.4.3.44  |
| 0x02-32                               | aCounterTxOctetsL2CP            | 14.4.3.45  |
| 0x02-33                               | aCounterDiscardFramesL2CP       | 14.4.3.46  |
| 0x02-34                               | aCounterDiscardOctetsL2CP       | 14.4.3.47  |
| 0x02-35                               | aCounterL2TxErrors              | 14.4.3.48  |
| 0x02-36                               | aCounterL2RxErrors              | 14.4.3.49  |
| 0x02-37                               | aCountFramesOverLimitDroppedUni | 14.4.3.50  |
| 0x02-38                               | aCountOctetsOverLimitDroppedUni | 14.4.3.51  |

| Leaf                                   | Attribute                      | Defined in |
|--|--------------------------------|------------|
| Object group: Alarms                   |                                |            |
| 0x03-01                                | aAlarmPortStatThr              | 14.4.4.1   |
| 0x03-02                                | aAlarmLlidStatThr              | 14.4.4.2   |
| 0x03-03                                | aAlarmStatusControl            | 14.4.4.3   |
| Object group: Encryption               |                                |            |
| 0x04-01                                | aEncryptionKeyExpiration       | 14.4.5.1   |
| 0x04-02                                | aEncryptionMode                | 14.4.5.2   |
| Object group: Frame processing         |                                |            |
| 0x05-01                                | aRuleSetConfig                 | 14.4.6.1   |
| 0x05-02                                | aRuleCustomField               | 14.4.6.2   |
| 0x05-03                                | aRuleTpidCAAlter               | 14.4.6.3   |
| 0x05-04                                | aRuleTpidSAAlter               | 14.4.6.4   |
| 0x05-06                                | aRuleTpidIAAlter               | 14.4.6.6   |
| 0x05-07                                | aRuleTpidBAAlter               | 14.4.6.7   |
| Object group: Service-level agreements |                                |            |
| 0x06-01                                | aRateLimitBroadcast            | 14.4.7.1   |
| 0x06-04                                | aQueueCIR                      | 14.4.7.2   |
| 0x06-05                                | aFecMode                       | 14.4.7.3   |
| 0x06-06                                | aQueueEIR                      | 14.4.7.4   |
| 0x06-07                                | aQueueColorMarking             | 14.4.7.5   |
| 0x06-08                                | aQueueRateLimiterCap           | 14.4.7.6   |
| 0x06-09                                | aCouplingFlag                  | 14.4.7.7   |
| Object group: Clock transport          |                                |            |
| 0x07-01                                | aClockTranspCapab              | 14.4.10.1  |
| 0x07-02                                | aClockTranspStatus             | 14.4.10.2  |
| 0x07-03                                | aClockTranspTransfer           | 14.4.10.3  |
| 0x07-04                                | aClockTranspPropagParam        | 14.4.10.4  |
| 0x07-05                                | aClockTranspRtt                | 14.4.10.5  |
| 0x08-00                                | Reserved, ignored on reception |            |
| 0x08-01                                | Reserved, ignored on reception |            |
| 0x08-02                                | Reserved, ignored on reception |            |
| 0x08-03                                | Reserved, ignored on reception |            |
| Object group: UNI management           |                                |            |
| 0x08-20                                | aEeeStatus                     | 14.4.11.1  |
| 0x08-21                                | aPoeStatus                     | 14.4.11.2  |
| 0x08-22                                | aMediaType                     | 14.4.11.3  |
| Object group: Optical Line Protection  |                                |            |
| 0x09-00                                | aOnuProtectionCapability       | 14.4.9.1   |
| 0x09-01                                | aOnuConfigProtection           | 14.4.9.2   |
| 0x09-02                                | aOnuConfigPonActive            | 14.4.9.3   |
| 0x09-03                                | aONUConfigHoldoverPeriod       | 14.4.9.4   |
| Object group: Power saving             |                                |            |
| 0xFF-FF                                | aOnuPwrSavingCap               | 14.4.8.1   |

All other Leaf values are reserved and ignored on reception.

## 14.4.1 ONU management

### **14.4.1.20 Attribute *aMediaTypeCapability* (0xDB/0x00-16)**

This attribute represents the list of media types supported by the given context object. This attribute consists of the following sub-attributes: *sMediaTypeCount* and *sMediaType[sMediaTypeCount]*.

Sub-attribute *aMediaTypeCapability.sMediaTypeCount*:

|                       |  |
|-----------------------|--|
| <b>Syntax:</b>        | Unsigned integer   |
| <b>Remote access:</b> | Read-Only  |
| <b>Description:</b>   | This sub-attribute represents the number of media types supported by the given context object. |

Sub-attribute *aMediaTypeCapability.sMediaType[sMediaTypeCount]*:

|                       |  |
|-----------------------|--|
| <b>Syntax:</b>        | Enumeration  |
| <b>Remote access:</b> | Read-Only  |
| <b>Description:</b>   | This sub-attribute represents the given media type supported by the given context object. The values defined in Table 14-XX are supported. |

**Table 14-XX—Supported values for sub-attribute *aMediaTypeCapability.sMediaType[sMediaTypeCount]***

| <b>Media Type</b>        | <b>Description</b>   | <b>Value</b> |
|--------------------------|--|--------------|
| <u>N/A</u>               | <u>No media attached</u>   | <u>0x00</u>  |
| <u>25/10GBASE-PQG-U2</u> | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u>  | <u>0x01</u>  |
| <u>25/10GBASE-PQG-U3</u> | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>    | <u>0x02</u>  |
| <u>25/10GBASE-PQX-U2</u> | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u>  | <u>0x03</u>  |
| <u>25/10GBASE-PQX-U3</u> | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>    | <u>0x04</u>  |
| <u>25GBASE-PQG-U2</u>    | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u> | <u>0x05</u>  |
| <u>25GBASE-PQG-U3</u>    | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>   | <u>0x06</u>  |
| <u>25GBASE-PQX-U2</u>    | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u> | <u>0x07</u>  |
| <u>25GBASE-PQX-U3</u>    | <u>One single mode fiber, 1 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>   | <u>0x08</u>  |
| <u>50/10GBASE-PQG-U2</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u>  | <u>0x09</u>  |
| <u>50/10GBASE-PQG-U3</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>    | <u>0x0A</u>  |
| <u>50/10GBASE-PQX-U2</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u>  | <u>0x0B</u>  |
| <u>50/10GBASE-PQX-U3</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 10.3125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>    | <u>0x0C</u>  |
| <u>50/25GBASE-PQG-U2</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u> | <u>0x0D</u>  |

| <b>Media Type</b>        | <b>Description</b>   | <b>Value</b> |
|--------------------------|--|--------------|
| <u>50/25GBASE-PQG-U3</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>   | <u>0x0E</u>  |
| <u>50/25GBASE-PQX-U2</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u> | <u>0x0F</u>  |
| <u>50/25GBASE-PQX-U3</u> | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 1 × 25.78125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>   | <u>0x10</u>  |
| <u>50GBASE-PQG-U2</u>    | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 2 × 25.78125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u> | <u>0x11</u>  |
| <u>50GBASE-PQG-U3</u>    | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 2 × 25.78125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>   | <u>0x12</u>  |
| <u>50GBASE-PQX-U2</u>    | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 2 × 25.78125 GBd burst mode transmission, medium power class, as specified in IEEE Std 803.2ca, Clause 141</u> | <u>0x13</u>  |
| <u>50GBASE-PQX-U3</u>    | <u>One single mode fiber, 2 × 25.78125 GBd continuous reception / 2 × 25.78125 GBd burst mode transmission, high power class, as specified in IEEE Std 803.2ca, Clause 141</u>   | <u>0x14</u>  |
| <u>100BASE-TX</u>        | <u>Two-pair Category 5 twisted-pair cabling as specified in IEEE Std 802.3, Clause 25</u>  | <u>0x15</u>  |
| <u>1000BASE-T</u>        | <u>Four-pair Category 5 twisted-pair cabling PHY as specified in IEEE Std 802.3, Clause 40</u>   | <u>0x16</u>  |
| <u>2.5GBASE-T</u>        | <u>Four-pair twisted-pair balanced copper cabling PHY as specified in IEEE Std 802.3, Clause 126</u>   | <u>0x17</u>  |
| <u>5GBASE-T</u>          | <u>Four-pair twisted-pair balanced copper cabling PHY as specified in IEEE Std 802.3, Clause 126</u>   | <u>0x18</u>  |
| <u>10GBASE-T</u>         | <u>Four-pair twisted-pair balanced copper cabling PHY as specified in IEEE Std 802.3, Clause 55</u>  | <u>0x19</u>  |
| <u>25GBASE-T</u>         | <u>Four-pair twisted-pair balanced copper cabling PHY as specified in IEEE Std 802.3, Clause 113</u>   | <u>0x1A</u>  |
| <u>40GBASE-T</u>         | <u>Four-pair twisted-pair balanced copper cabling PHY as specified in IEEE Std 802.3, Clause 113</u>   | <u>0x1B</u>  |
| <u>1000BASE-X</u>        | <u>X PCS/PMA as specified in IEEE Std 802.3, Clause 36 over undefined PMD, duplex mode unknown</u>   | <u>0x20</u>  |
| <u>1000BASE-LX10</u>     | <u>Two fiber 10 km PHY as specified in IEEE Std 802.3, Clause 59</u>   | <u>0x21</u>  |
| <u>1000BASE-SX10</u>     | <u>X fiber over short-wavelength laser PMD as specified in IEEE Std 802.3, Clause 38, duplex mode unknown</u>  | <u>0x22</u>  |
| <u>2.5GBASE-X</u>        | <u>2.5GBASE-X PCS/PMA as specified in IEEE Std 802.3, Clause 127 over undefined PMD</u>  | <u>0x25</u>  |
| <u>5GBASE-R</u>          | <u>5GBASE-R PCS/PMA as specified in IEEE Std 802.3, Clause 129 over undefined PMD</u>  | <u>0x26</u>  |
| <u>10GBASE-R</u>         | <u>R PCS/PMA as specified in IEEE Std 802.3, Clause 49 over undefined PMD</u>  | <u>0x2A</u>  |
| <u>10GBASE-LR</u>        | <u>R fiber over 1310nm optics as specified in IEEE Std 802.3, Clause 52</u>  | <u>0x2B</u>  |
| <u>10GBASE-SR</u>        | <u>R fiber over 850nm optics as specified in IEEE Std 802.3, Clause 52</u>   | <u>0x2C</u>  |
| <u>25GBASE-R</u>         | <u>PCS as specified in IEEE Std 802.3, Clause 107 with PMA as specified in IEEE Std 802.3, Clause 109 over undefined PMD</u>   | <u>0x30</u>  |
| <u>25GBASE-SR</u>        | <u>25GBASE-R PCS/PMA over multimode fiber PMD as specified in IEEE Std 802.3, Clause 112</u>   | <u>0x31</u>  |

| <u>Media Type</u>  | <u>Description</u>  | <u>Value</u> |
|--------------------|---|--------------|
| <u>25GBASE-LR</u>  | <u>25GBASE-R PCS/PMA over single-mode fiber PMD, with long reach, as specified in IEEE Std 802.3, Clause 114</u>                        | <u>0x32</u>  |
| <u>40GBASE-R</u>   | <u>Multi-lane PCS as specified in IEEE Std 802.3, Clause 82 over undefined PMA/PMD</u>  | <u>0x35</u>  |
| <u>40GBASE-LR4</u> | <u>40GBASE-R PCS/PMA over 4 WDM lane single mode fiber PMD, with long reach, as specified in IEEE Std 802.3, Clause 87</u>              | <u>0x36</u>  |
| <u>40GBASE-SR4</u> | <u>40GBASE-R PCS/PMA over 4 lane multimode fiber PMD as specified in IEEE Std 802.3, Clause 86</u>                                      | <u>0x37</u>  |
| <u>40GBASE-FR</u>  | <u>40GBASE-R PCS/PMA over single mode fiber PMD as specified in IEEE Std 802.3, Clause 89</u>   | <u>0x38</u>  |
| <u>50GBASE-R</u>   | <u>Multi-lane PCS as specified in IEEE Std 802.3, Clause 133 with PMA as specified in IEEE Std 802.3, Clause 135 over undefined PMD</u> | <u>0x3A</u>  |
| <u>50GBASE-LR</u>  | <u>50GBASE-R PCS/PMA over single mode fiber PMD as specified in IEEE Std 802.3, Clause 139</u>  | <u>0x3B</u>  |
| <u>50GBASE-SR</u>  | <u>50GBASE-R PCS/PMA over multimode fiber PMD as specified in IEEE Std 802.3, Clause 138</u>  | <u>0x3C</u>  |
| <u>50GBASE-FR</u>  | <u>50GBASE-R PCS/PMA over single mode fiber PMD as specified in IEEE Std 802.3, Clause 139</u>  | <u>0x3D</u>  |

The ~~*aMediaTypeSupported*~~*aMediaTypeCapability* attribute shall declare the support for multiple media types only if each of the supported media types can be selected programmatically using the *aMediaType* (0xDB/0x00-17) attribute (see 14.4.1.21) and without requiring local access to physical ONU ~~device~~.

The *aMediaTypeCapability* attribute is associated with the PON port object or the Service Port object (see 14.4.1.1). The Variable Container TLV for the *aMediaTypeCapability* attribute shall be as specified in Table 14-YY.

If the context object is a Service Port of a type other than *uni port*, the *aMediaTypeCapability* attribute shall contain a single value 0x00 (No media attached).

**Table 14-YY—Media Type Capability TLV (0xDB/0x00-16)**

| <u>Size (octets)</u> | <u>Field (name)</u>        | <u>Value</u>   | <u>Notes</u>   |
|----------------------|----------------------------|----------------|--|
| <u>1</u>             | <u>Branch</u>              | <u>0xDB</u>    | <u>Branch identifier</u>   |
| <u>2</u>             | <u>Leaf</u>                | <u>0x00-16</u> | <u>Leaf identifier</u>   |
| <u>1</u>             | <u>Length</u>              | <u>M</u>       | <u>The size of TLV fields following the Length field, where M is the number of individual media type entries</u> |
| <u>1</u>             | <u>MediaTypeValue[0]</u>   | <u>Varies</u>  | <u>Value of <i>sMediaType[0]</i> sub-attribute, per Table 14-XX</u>  |
| <u>...</u>           | <u>...</u>                 | <u>...</u>     | <u>...</u>   |
| <u>1</u>             | <u>MediaTypeValue[M-1]</u> | <u>Varies</u>  | <u>Value of <i>sMediaType[M-1]</i> sub-attribute, per Table 14-XX</u>  |

#### **14.4.1.20 Attribute *aMediaType* (0xDB/0x00-17)**

This attribute reports the currently-selected media type associated with a given port, or selects a specific media type. On read, this attribute represents the media type used by the given context object. On write, this attribute sets the media type to be used by the given context object when more than one media type is supported.

Attribute *aMediaType*:

Syntax: Enumeration

**Remote access:** Read/Write

**Description:** On read, this sub-attribute represents the given media type used by the given context object. On write, this attribute sets the media type to be used by the given context object. The values defined in Table 14-XX are supported.

**Default value:** One of the media types supported by the given port (as reported by *aMediaTypeSupported* *aMediaTypeCapability* attribute) shall be ~~selected~~ selected by default.

The *aMediaType* attribute is associated with the PON port object or the Service Port object (see 14.4.1.1). The Variable Container TLV for the *aMediaType* attribute shall be as specified in Table 14-ZZ.

If the context object is a Service Port of a type other than *uni port*, the *aMediaType* attribute shall contain a single value 0x00 (No media attached).

**Table 14-ZZ—Media Type TLV (0xDB/0x00-17)**

| <b>Size (octets)</b> | <b>Field (name)</b>  | <b>Value</b>   | <b>Notes</b>   |
|----------------------|----------------------|----------------|--|
| <u>1</u>             | <u>Branch</u>        | <u>0xDB</u>    | <u>Branch identifier</u>   |
| <u>2</u>             | <u>Leaf</u>          | <u>0x00-17</u> | <u>Leaf identifier</u>   |
| <u>1</u>             | <u>Length</u>        | <u>1</u>       | <u>The size of TLV fields following the Length field.</u>                        |
| <u>1</u>             | <u>MediaTypeUsed</u> | <u>Varies</u>  | <u>Value of <del><i>aMediaTypeValue</i></del> sub-attribute; per Table 14-XX</u> |