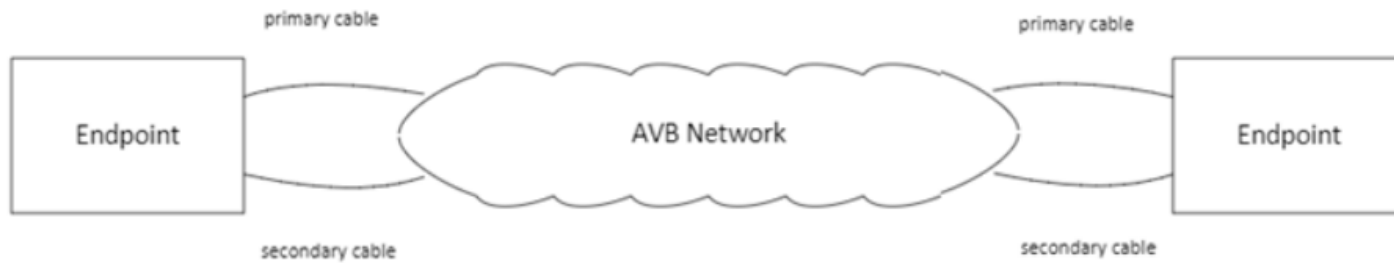
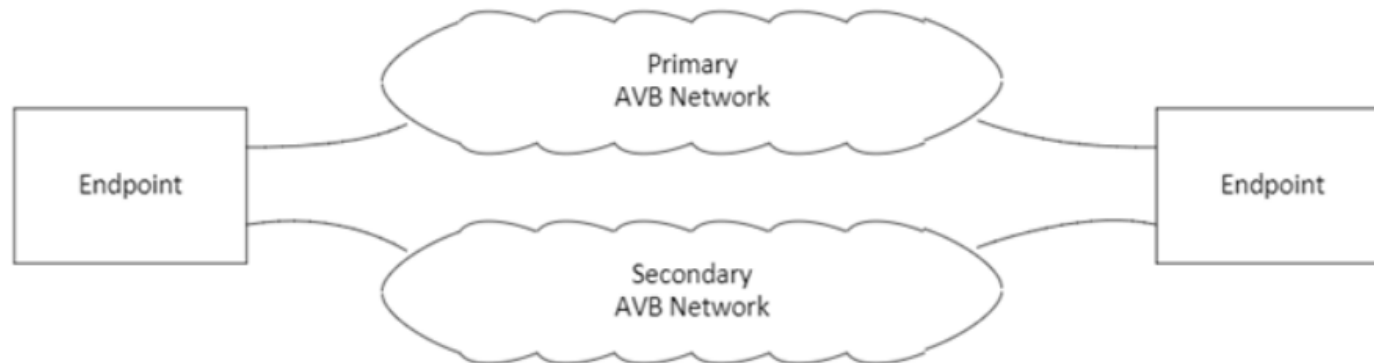


1722.1 – Redundant streams association

Cable Redundancy



Network Redundancy



1722.1 – Redundant streams association

- STREAM_INPUT/STREAM_OUTPUT descriptors will be used to associate redundant streams.
- The STREAM_INPUT/STREAM_OUTPUT descriptors need to be updated to include the required redundancy information.

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7.2.6 STREAM_INPUT and STREAM_OUTPUT Descriptor

The STREAM_INPUT and STREAM_OUTPUT descriptor (shown in Table 7.8) describes an IEEE Std 1722-2011 sourced or sinked Stream.

0:2 descriptor_type The type of the descriptor. Always set to STREAM_INPUT or STREAM_OUTPUT.

2:2 descriptor_index The index of the descriptor. This is the index of the Stream.

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4:64 **object_name** 64-octet UTF-8 string containing a Stream name.

68:2 **localized_description** The localized string reference pointing to the localized Stream name. See 7.3.6.

70:2 **clock_domain_index** The descriptor_index of the Clock Domain providing the media clock for the Stream.

72:2 **stream_flags** Flags describing capabilities or features of the Stream. See Table 7.9.

74:8 **current_format** The Stream format of the current format, as defined in 7.3.2.

82:2 **formats_offset** The offset from the start of the descriptor for the first octet of the formats. This field is 134 for this version of aem.

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84:2 **number_of_formats** The number of formats supported by this audio Stream. The value of this field is referred to as N. The maximum value for this field is 47 for this version of AEM.

86:8 **backup_talker_entity_id_0** The primary backup AVDECC Talker's Entity ID.

94:2 **backup_talker_unique_id_0** The primary backup AVDECC Talker's Unique ID.

96:8 **backup_talker_entity_id_1** The secondary backup AVDECC Talker's Entity ID.

104:2 **backup_talker_unique_id_1** The secondary backup AVDECC Talker's Unique ID.

106:8 **backup_talker_entity_id_2** The tertiary backup AVDECC Talker's Entity ID.

114:2 **backup_talker_unique_id_2** The tertiary backup AVDECC Talker's Unique ID.

116:8 **backedup_talker_entity_id** The Entity ID of the AVDECC Talker that this Stream is backing up.

124:2 **backedup_talker_unique_id** The Unique ID of the AVDECC Talker that this Stream is backing up.

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126:2 **avb_interface_index** The descriptor_index of the AVB_INTERFACE from which this Stream is sourced or to which it is sinked.

128:4 **buffer_length** The length in nanoseconds of the MAC's ingress or egress buffer as defined in Figure 5.4 of IEEE Std 1722-2011. For a STREAM_INPUT this is the MAC's ingress buffer size, and for a STREAM_OUTPUT this is the MAC's egress buffer size. This is the length of the buffer between the IEEE Std 1722-2011 reference plane and the MAC.

130:2 **redundant_offset** The offset from the start of the descriptor for the first octet of the redundancy. This field is $134+8*N$ for this version of aem.

132:2 **number_of_redundant_streams** The number of redundant streams supported by this audio Stream. The value of this field is referred to as R. The maximum value for this field is $683-(4*N)$ for this version of AEM.

134:8*N **formats** Array of Stream formats of the supported formats, as defined in 7.3.2.

134+8*N:2*R **redundant_streams** Array of redundant STREAM_INPUT/STREAM_OUTPUT descriptor indices.