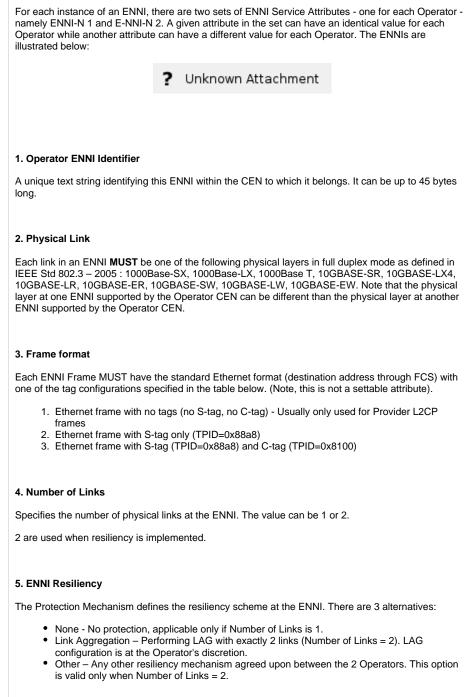
# **ENNI** Attributes



# 6. ENNI Maximum Transmission Unit Size

ENNI Max MTU Size specifies the maximum frame length allowed at the ENNI. It must be at least 1526 bytes (to support doubled-tagged frames) and recommended to be at least 2000 bytes in order to support other headers and encapsulations. Unlike UNI MTU, frames larger than ENNI MTU *must be discarded*. They may or may not consume tokens from the BWP. This is not specified. The ENNI MTU is recommended to be at least 4 bytes larger than any EVC MTU size crossing this ENNI.

#### 7. Maximum Number of OVCs

The maximum number of OVCs allowed on this ENNI. An integer greater or equal to 1.

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## 8. Maximum Number of OVC End Points per OVC

An upper bound to the number of OVC end points that can be associated with an OVC at this ENNI. If set to 1, then Hairpin Switching cannot be supported at the ENNI, as it requires 2 OVC end points.

## 9. End Point Map

The End Point Map specifies how each S-Tagged ENNI Frame is associated with an OVC End Point within an Operator CEN. The End Point Map can be represented by a three column table. Column 1 contains S-VLAN ID values. Column 2 contains End Point Identifiers. Column 3 contains End Point types. Each row in this table maps the S-VLAN ID value to the End Point Identifier and End Point Type. End Point Type must be OVC. An S-VLAN ID value cannot appear more than once in the table. An example is shown at right.

Some rules apply:

- 1. When the ingress frame has S-VLAN ID that is NOT in the map, it must not be forwarded.
- 2. An S-VLAN ID value cannot appear more than once in the table.
- 3. Ingress frame with no S-Tag must not be mapped to an OVC end point.

#### 10. End-Point Bundling

When multiple S-VLAN ID values are mapped to a single OVC end point, the End Point map is said to have Bundling. This is similar to UNI bundling of CE-VLAN IDs. When Bundling is enabled, S-VLAN ID Preservation and CE-VLAN ID Preservation MUST be Yes. Bundling is useful when multiple EVCs are tunneled via a single OVC transit tunnel. In such a case, different EVCs may use the same MAC address ranges and the Operator should provision for such a scenario.

#### **ENNI** Attributes

- 1. Operator ENNI Identifier
- 2. Physical Interface
- 3. Frame Format
- 4. Number of Links
- 5. ENNI Resiliency
- 6. ENNI Maximum Transmission Unit
- 7. Maximum Number of OVCs
- 8. Maximum Number of OVC Endpoints per OVC
- 9. End Point Map

**Related and Further Reading** 

10. End Point Bundling

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oint Map			
Unknown Attachment			
	int Map	int Map	int Map

Categories