

Stream split table in IEEE 802.1CBcv-2021 FRER YANG

Maintenance Request 0364

[\(0364\)](#)

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IEEE 802.1CB-2017

Definition of the Stream split table

10.6 Stream split table

There is one Stream split table per system, with one frerSplitEntry (10.6.1) per Stream splitting function (7.7) per set of stream_handle values.

10.6.1 frerSplitEntry

Each entry in the Stream split table specifies a port (10.6.1.1) and direction (10.6.1.2) on which an instance of the Stream splitting function (7.7) is to be instantiated, and the list of stream_handles specifying its operation.

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Stream split table in FRER MIB

ieee8021FrerStreamSplitTable	10.6
<u>ieee8021FrerStreamSplitIndex</u>	—
ieee8021FrerStreamSplitPort	—
ieee8021FrerStreamSplitDirection	—
ieee8021FrerStreamSplitInputIdList	—
ieee8021FrerStreamSplitOutputIdList	—
ieee8021FrerStreamSplitInputHandleListTable	10.6.1.3
<u>ieee8021FrerStreamSplitIndex</u> & <u>ieee8021FrerStreamSplitInputHandleListIndex</u>	—
ieee8021FrerStreamSplitInputIdHandle	—
ieee8021FrerStreamSplitInputHandleListStatus	—
ieee8021FrerStreamSplitOutputHandleListTable	10.6.1.4
<u>ieee8021FrerStreamSplitIndex</u> & <u>ieee8021FrerStreamSplitOutputHandleListIndex</u>	—
ieee8021FrerStreamSplitOutputIdHandle	—
ieee8021FrerStreamSplitOutputHandleListStatus	—

Matches exactly the definition in IEEE 802.1CB. v

Allows multiple split entries per Port/Direction.

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Stream split table in FRER MIB - Example

2 Split Functions on End System Port A / Out-facing:

Stream Split Index	Port	Direction	Input Handle List Index	Stream Handle	Output Handle List Index	Stream Handle
1	A	Out-facing	1	1000	1	1001
					2	1002
2	A	Out-facing	1	2000	1	2001
					2	2002

[Stream Handles are defined in the Stream Identification Table.]

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Stream split list in FRER YANG

```
+--rw stream-split* [port direction-out-facing]
|  +--rw port          if:interface-ref
|  +--rw direction-out-facing  dot1cb-sid-types:direction
|  +--rw input-id*       -> /dot1cb-sid:stream-identity/handle
|  +--rw output-id*      -> /dot1cb-sid:stream-identity/handle
```

Does not match the definition in IEEE 802.1CB.

Allows only a single split entry per Port/Direction. ☹️

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Stream split list in FRER YANG - Example

Only 1 Split Function on End System Port A / Out-facing possible

Stream Split Index		Stream input-id*	Stream output-id*
Port	Direction		
A	Out-facing	1000	1001
			1002
A	Out-facing	2000	2001
			2002

[Stream-ids are defined in the Stream-Identity List.]

IEEE 802.1CBcv-2021

Proposal: **NEW** Stream split table in FRER YANG

```
+--rw stream-split-table* [stream-split-index]
|  +--rw stream-split-index      integer
|  +--rw port                    if:interface-ref
|  +--rw direction-out-facing    dot1cb-sid-types:direction
|  +--rw input-id*               -> /dot1cb-sid:stream-identity/handle
|  +--rw output-id*              -> /dot1cb-sid:stream-identity/handle
```

Matches the definition in IEEE 802.1CB.

Allows multiple split entries per Port/Direction.

Thank You

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