

1 12.5 Structure of the YANG model

2 IEEE Std 802.1CB YANG models are divided into a number of YANG modules. A summary of the modules
3 contained in this clause is represented in Table 12-1.

Table 12-1—~~Structure~~ Description of the YANG modules

Module	References	Notes
ieee802-dot1cb-stream-identification-types	12.6.2.1	General type definitions used by IEEE Std 802.1CB stream identification.
ieee802-dot1cb-stream-identification	12.6.2.2	YANG model for stream identification.
ieee802-dot1cb-frer-types	12.6.2.3	General type definitions used by IEEE Std 802.1CB frame replication and elimination for reliability.
ieee802-dot1cb-frer	12.6.2.4	YANG model for FRER.

4 [The modules in Table 12-1 can be used to create a Stream Identification model or a FRER model.](#)

5 12.5.1 Structure of the ieee802-dot1cb-stream-identification YANG module

6 ~~The ieee802-dot1cb-stream-identification YANG module is divided into a number of YANG branches (e.g.,~~
7 ~~subtrees). A summary of the YANG subtrees associated with this module is presented in Table 12-2. The~~
8 ~~Stream Identification model is realized by leveraging the ieee802-dot1cb-stream-identification YANG~~
9 ~~module along with all the dependencies (YANG imports) that the module uses. Clause 12.6.1.1 contains the~~
10 ~~YANG data schema tree for the ieee802-dot1cb-stream-identification module.~~

11 [The high-level structure of the ieee802-dot1cb-stream-identification YANG module is found in Table 12-2.](#)

12 ~~A system implementing the Stream identification model implements the YANG modules as described in~~
13 ~~Table 12-3. The list of YANG modules directly imported by the ieee802-dot1cb-stream-identification~~
14 ~~YANG module is found in Table 12-3.~~

**Table 12-2—~~ieee802-dot1cb-stream-identification structure and relationship to this stan-~~
dard**

Module	References	Notes
ieee802-dot1cb-stream-identification	9	—
stream-identity	9.1	Stream identity management within a system.
per-port-counters	9.3	Per-port counters for Stream identifi- cation.
per-port-per-stream-counters	9.2	Per-port-per-stream counters for Stream identification.

1 [To complete the model, all the dependencies from the imported modules must also be identified. The process](#)
2 [to determine all the dependencies can be done through tooling. For example, if the pyang \[add biblio ref\] or](#)
3 [yanglint tool \[add biblio ref\] is used on the ieee802-dot1cb-stream-identification YANG module, the tooling](#)
4 [will try to include all the imports and produce an error message if an import is missing. The YANG Catalog](#)
5 [\[add biblio ref\] search tools and/or the YANG Catalog's github repository \[add biblio ref\] can be used to find](#)
6 [the missing imports.](#)

Table 12-3—YANG module dependencies for the Stream identification model

YANG module	Notes
ieee802-types	—
ieee802-dot1q-types	—
ietf-inet-types	—
ietf-interfaces	—
ieee802-dot1cb-stream-identification-types	—
ieee802-dot1cb-stream-identification	—

7 12.5.2 Structure of the ~~ieee802-dot1cb-frer~~ YANG module

8 ~~The ieee802-dot1cb-frer YANG module YANG module is divided into a number of YANG branches (e.g.,~~
9 ~~subtrees). A summary of the YANG subtrees associated with this module is presented in Table 12-4. The~~
10 ~~FRER model is realized by leveraging the ieee802-dot1cb-frer YANG module along with all the~~
11 ~~dependencies (YANG imports) that the module uses. Clause 12.6.1.2 contains the YANG data schema tree~~
12 ~~for the ieee802-dot1cb-frer module.~~

13 [The high-level structure of the ieee802-dot1cb-frer YANG module is found in Table 12-4.](#)

14 ~~A system implementing the FRER model implements the YANG modules as described in Table 12-5. The~~
15 ~~list of YANG modules directly imported by the ieee802-dot1cb-frer YANG module is found in Table 12-5.~~

16 [To complete the model, all the dependencies from the imported modules must also be identified. The process](#)
17 [to determine all the dependencies can be done through tooling. For example, if the pyang \[add biblio ref\] or](#)
18 [yanglint tool \[add biblio ref\] is used on the ieee802-dot1cb-frer YANG module, the tooling will try to include](#)
19 [all the imports and produce an error message if an import is missing. The YANG Catalog \[add biblio ref\]](#)
20 [search tools and/or the YANG Catalog's github repository \[add biblio ref\] can be used to find the missing](#)
21 [imports.](#)

22

Table 12-4—ieee802-dot1cb-frer structure and relationship to this standard

Module	References	Notes
ieee802-dot1cb-frer	10	—
sequence-generation	10.3	Sequence generation management within a system.
sequence-recovery	10.4	Sequence recovery management within a system.
sequence-identification	10.5	Sequence identification management within a system.
stream-split	10.6	Stream splitting management within a system.
autoconfiguration	10.7	Autoconfiguration management within a system.
per-port-counters	10.9	Per-port counters for FRER.
per-port-per-stream-counters	10.8	Per-port-per-stream counters for FRER.

Table 12-5—YANG module dependencies for the FRER model

YANG module	Notes
ieee802-dot1q-types	—
ietf-interfaces	—
ieee802-dot1cb-stream-identification-types	—
ieee802-dot1cb-stream-identification	—
ieee802-dot1cb-frer-types	—
ieee802-dot1cb-frer	—