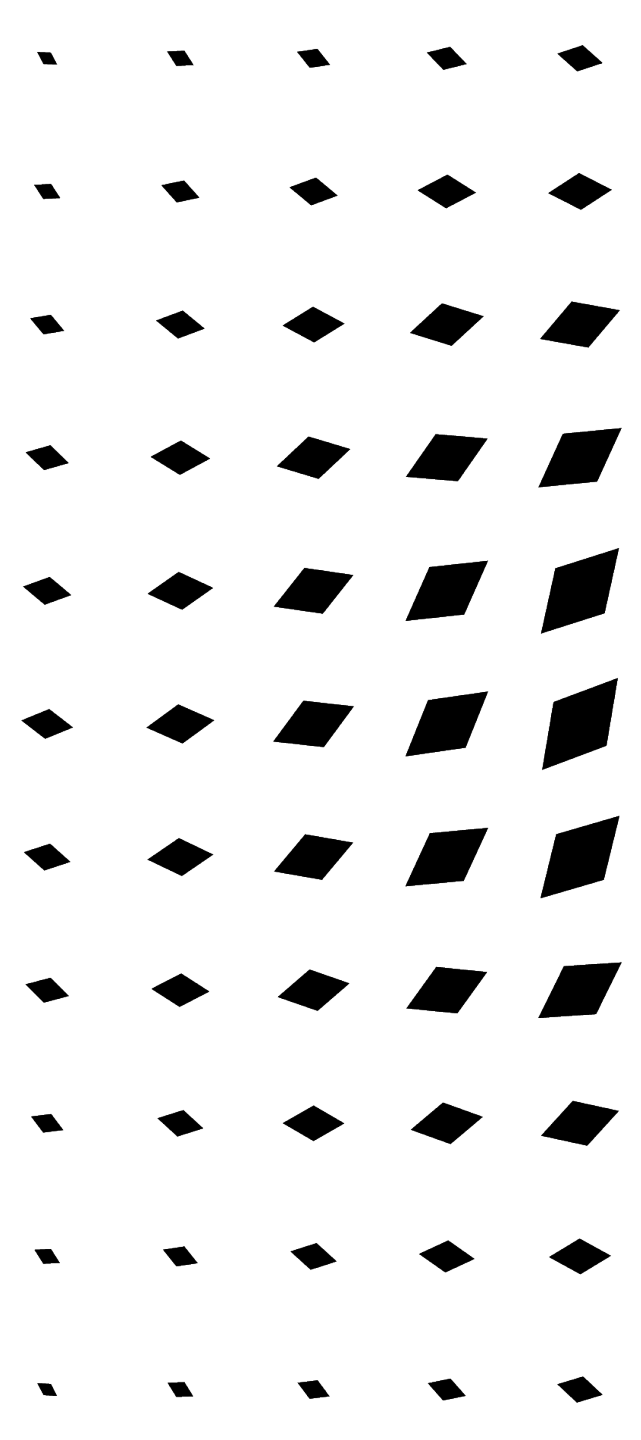


Autoconfiguration in CB-Rev

A proposal for moving autoconfiguration normative text to an informative annex

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Background

- Ongoing discussions based on 3 options:
 - A: remove
 - B: move to informative annex
 - C: revise
- This presentation focuses on option B
 - Autoconfiguration is an optional feature in its current form
 - Shouldn't be an issue to move the normative text to an informative annex
 - Management may have to be treated in a special way
 - See below
- Proposal for management
 - Keep MIB and YANG unchanged
 - No impact on already existing client implementations
 - Deprecate the autoconfiguration-related nodes
 - Preliminary step to obsolescence if needed
 - Through « status » statement

Impacted clauses

- **Clause 5, Conformance**

- 5.14 Relay system optional behavior
 - j) Autoconfiguration (7.11) and the associated managed objects (10.7)
 - Item can be removed

- **Annex A, PICS**

- A.2.5 Relay system
 - RS20 : Can the relay system be configured for Autoconfiguration via the Managed objects for autoconfiguration (5.14:j, 7.11, 10.7), **Optional**
 - Item can be removed

- **Clause 7, FRER**

- 7.11 Autocofiguration
- Totally moved to **new annex E** (Autoconfiguration)

- **Clause 9, Stream Identification Management**

- 9.1.1 tsnStreamIdEntry
- « See 10.2 for additional managed objects that are present in the tsnStreamIdEntry only if Autoconfiguration (7.11) is used ».
- Sentence can be removed

Impacted clauses

- **Clause 10, FRER management**

- Introductory text
 - b) 1) Addition (10.2) to the Stream identity table (9.1) required for Autoconfiguration (7.11, 10.7)
 - c) The managed objects that support the automatic configuration, upon receipt of a packet, of entries in the first four of the preceding tables (10.2 through 10.5), are described in the subclause on Autoconfiguration (10.7).
 - Items can be removed
- 10.2 Additional tsnStreamIdEntry managed objects
 - To be moved to **new Annex E** (Autoconfiguration)
- 10.7 Managed objects for autoconfiguration
 - To be moved to **new Annex E** (Autoconfiguration)

- **Annex C, FRER in systems**

- C.11 Use of autoconfiguration
 - To be moved to **new Annex E** (Autoconfiguration)

Impacted clauses

• Clause 12, YANG

- Impacted nodes in module ieee802-dot1cb-frer
- Impacted nodes in augmentation to stream-identity

```
module: ieee802-dot1cb-frer
  +--rw frer
    +--rw sequence-generation* [index]
    | +--rw index          uint32
    |   ...
    +--rw autoconfiguration {auto-configuration}?
      +--rw sequence* [index]
      | +--rw index          uint32
      | +--rw sequence-encapsulation
      | | +--rw (encapsulation)?
      | | | +--:(r-tag)
      | | | | +--rw r-tag!
      | | | | | +--ro type-number?
      | | | | | | dot1cb-frer-types:seq-encaps-method
      | | | | | +--ro oui-cid? string
      | | | +--:(hsr-sequence-tag)
      | | | | +--rw hsr-sequence-tag!
      | | | | | +--ro type-number?
      | | | | | | dot1cb-frer-types:seq-encaps-method
      | | | | | +--ro oui-cid? string
      | | | +--:(prp-sequence-tag)
      | | | | +--rw prp-sequence-tag!
      | | | | | +--ro type-number?
      | | | | | | dot1cb-frer-types:seq-encaps-method
      | | | | | +--ro oui-cid? string
      | | | +--:(organization-specific)
      | | | | +--rw organization-specific!
      | | | | | +--rw type-number? int32
      | | | | | +--rw oui-cid? string
      | +--rw receive-port* if:interface-ref
      | +--rw tagged? enumeration
      | +--rw vlan* dot1qtypes:vlanid
      | +--rw recovery-port* if:interface-ref
      | +--rw destruction-interval? uint64
      | +--rw reset-interval? uint64
```

```
augment /dot1cb-sid:stream-identity:
  +--ro auto-configured? boolean {auto-configuration}?
  +--rw lan-path-id? lan-path-id {auto-configuration}?
```

```
+--rw algorithm
| +--rw (algorithm)?
| | +--:(vector)
| | | +--rw vector!
| | | | +--ro type-number?
| | | | | dot1cb-frer-types:seq-rcvy-algorithm
| | | +--ro oui-cid? string
| | +--:(match)
| | | +--rw match!
| | | | +--ro type-number?
| | | | | dot1cb-frer-types:seq-rcvy-algorithm
| | | | +--ro oui-cid? string
| | +--:(organization-specific)
| | | +--rw organization-specific!
| | | | +--rw type-number? int32
| | | | +--rw oui-cid? string
+--rw history-length? sequence-history-length
+--rw create-individual? boolean
+--rw create-recovery? boolean
+--rw latent-error-detection? boolean
+--rw latent-error-difference? int32
+--rw latent-error-period? uint32
+--rw latent-error-reset-period? uint32
+--rw output* [index]
  +--rw index          uint32
  +--rw port*          if:interface-ref
  +--rw encapsulation
    +--rw (encapsulation)?
    | +--:(r-tag)
    | | +--rw r-tag!
    | | | +--ro type-number?
    | | | | dot1cb-frer-types:seq-encaps-method
    | | | +--ro oui-cid? string
    | +--:(hsr-sequence-tag)
    | | +--rw hsr-sequence-tag!
    | | | +--ro type-number?
    | | | | dot1cb-frer-types:seq-encaps-method
    | | | +--ro oui-cid? string
    | +--:(prp-sequence-tag)
    | | +--rw prp-sequence-tag!
    | | | +--ro type-number?
    | | | | dot1cb-frer-types:seq-encaps-method
    | | | +--ro oui-cid? string
    | +--:(organization-specific)
    | | +--rw organization-specific!
    | | | +--rw type-number? int32
    | | | +--rw oui-cid? string
  +--rw lan-path-id? lan-path-id
```

Impacted clauses

- Clause 11, MIB
 - Impacted objects

ieee8021StreamIdStreamIdentificationTable	9.1, 9.1.1
ieee8021StreamIdStreamIdentificationIndex	—
ieee8021StreamIdStreamIdIdentificationType	—
ieee8021StreamIdStreamIdIdentificationTypeOUI	—
ieee8021StreamIdStreamIdIdentificationCustomType	—
ieee8021StreamIdStreamIdIdentificationCustomTypeOUI	—
ieee8021StreamIdStreamIdIdentificationTypeSelect	—
ieee8021StreamIdStreamIdIdentificationTypeSelect	—
ieee8021StreamIdStreamIdInFacOutputPortList	—
ieee8021StreamIdStreamIdOutFacOutputPortList	—
ieee8021StreamIdStreamIdInFacInputPortList	—
ieee8021StreamIdStreamIdOutFacInputPortList	—
ieee8021StreamIdAutoConfigured	—
ieee8021StreamIdLanPathId	—
ieee8021StreamIdStatus	—

ieee8021FrerSequenceAutoconfigTable	10.7, 10.7.1
ieee8021FrerSequenceAutoconfigIndex	—
ieee8021FrerSequenceAutoconfigSequenceEncapsulation	—
ieee8021FrerSequenceAutoconfigSequenceEncapsulationOUI	—
ieee8021FrerSequenceAutoconfigCustomSequenceEncapsulation	—
ieee8021FrerSequenceAutoconfigCustomSequenceEncOUI	—
ieee8021FrerSequenceAutoconfigReceivePortList	—
ieee8021FrerSequenceAutoconfigTagged	—
ieee8021FrerSequenceAutoconfigVlanList	—
ieee8021FrerSequenceAutoconfigRecoveryPortList	—
ieee8021FrerSequenceAutoconfigDestructMsec	—
ieee8021FrerSequenceAutoconfigResetMsec	—
ieee8021FrerSequenceAutoconfigAlgorithm	—
ieee8021FrerSequenceAutoconfigAlgorithmOUI	—
ieee8021FrerSequenceAutoconfigCustomAlgorithm	—
ieee8021FrerSequenceAutoconfigCustomAlgorithmOUI	—
ieee8021FrerSequenceAutoconfigHistoryLength	—
ieee8021FrerSequenceAutoconfigCreateIndividual	—
ieee8021FrerSequenceAutoconfigCreateRecovery	—
ieee8021FrerSequenceAutoconfigLatentErrorDetection	—
ieee8021FrerSequenceAutoconfigLatentErrorDifference	—
ieee8021FrerSequenceAutoconfigLatentErrorPeriod	—
ieee8021FrerSequenceAutoconfigLatentErrorResetPeriod	—
ieee8021FrerSequenceAutoconfigStatus	—

ieee8021FrerSequenceAutoconfigReceivePortHandleListTable	10.7.1.1.2
ieee8021FrerSequenceAutoconfigReceivePortHandleListIndex	—
ieee8021FrerSequenceAutoconfigReceivePortHandle	—
ieee8021FrerSequenceAutoconfigReceivePortHandleListStatus	—
ieee8021FrerSequenceAutoconfigVlanListTable	10.7.1.1.4
ieee8021FrerSequenceAutoconfigVlanListIndex	—
ieee8021FrerSequenceAutoconfigVlan	—
ieee8021FrerSequenceAutoconfigVlanListStatus	—
ieee8021FrerSequenceAutoconfigRecoveryPortHandleListTable	10.7.1.1.5
ieee8021FrerSequenceAutoconfigRecoveryPortHandleListIndex	—
ieee8021FrerSequenceAutoconfigRecoveryPortHandle	—
ieee8021FrerSequenceAutoconfigRecoveryPortHandleListStatus	—
ieee8021FrerOutputAutoconfigTable	10.7, 10.7.2
ieee8021FrerOutputAutoconfigIndex	—
ieee8021FrerOutputAutoconfigPortList	—
ieee8021FrerOutputAutoconfigEncapsulation	—
ieee8021FrerOutputAutoconfigEncapsulationOUI	—
ieee8021FrerOutputAutoconfigCustomEncapsulation	—
ieee8021FrerOutputAutoconfigCustomEncapsulationOUI	—
ieee8021FrerOutputAutoconfigLanPathId	—
ieee8021FrerOutputAutoconfigStatus	—
ieee8021FrerOutputAutoconfigPortHandleListTable	10.7.2.1.1
ieee8021FrerOutputAutoconfigPortHandleListIndex	—
ieee8021FrerOutputAutoconfigPortHandle	—
ieee8021FrerOutputAutoconfigPortHandleListStatus	—

New informative annex

- **Annex E Autoconfiguration**

- Prepare some introductory text to explain the reason for having this informative annex (instead of normative text, without saying it was initially normative ?)
- E.1 Introduction to autoconfiguration
 - Former Cl. 7.11.1
- E.2 Autoconfigured Stream identity table entry creation and destruction
 - Former Cl. 7.11.2
- E.3 Autoconfiguration management
 - New clause
 - E.3.1 Additional tsnStreamIdEntry managed objects
 - Former Cl. 10.2
 - E.3.2 Managed objects for autoconfiguration
 - Former Cl. 10.7
- E.4 Use of autoconfiguration
 - Former Cl. C.11

- Bibliography becomes Annex F

Proposed way forward

- If agreed, implement these changes in D1.2

