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P802.1Q-2022-Rev

# **PICS Revision— Work in Progress**

*Quick (limited) progress report, summary of issues and current direction.*

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# Initial issues

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- Many PICS Tables. Not all need to be completed for any given claim of conformance. Instructions for Table skipping inconsistent throughout (Ballot comment during 802.1Q-2022 development).
- PICS not aligned with Conformance clause, or document structure,<sup>1</sup> conformant system variants, or technical system composition.

1 As a first step towards improved alignment of 1.3 (describing what the reader can expect to see in the standard, grouping by subject areas to facilitate both exposition and maintenance), Conformance clause, and PICS, an initial proposed revision of 1.3 is to be found in the prior status report at:

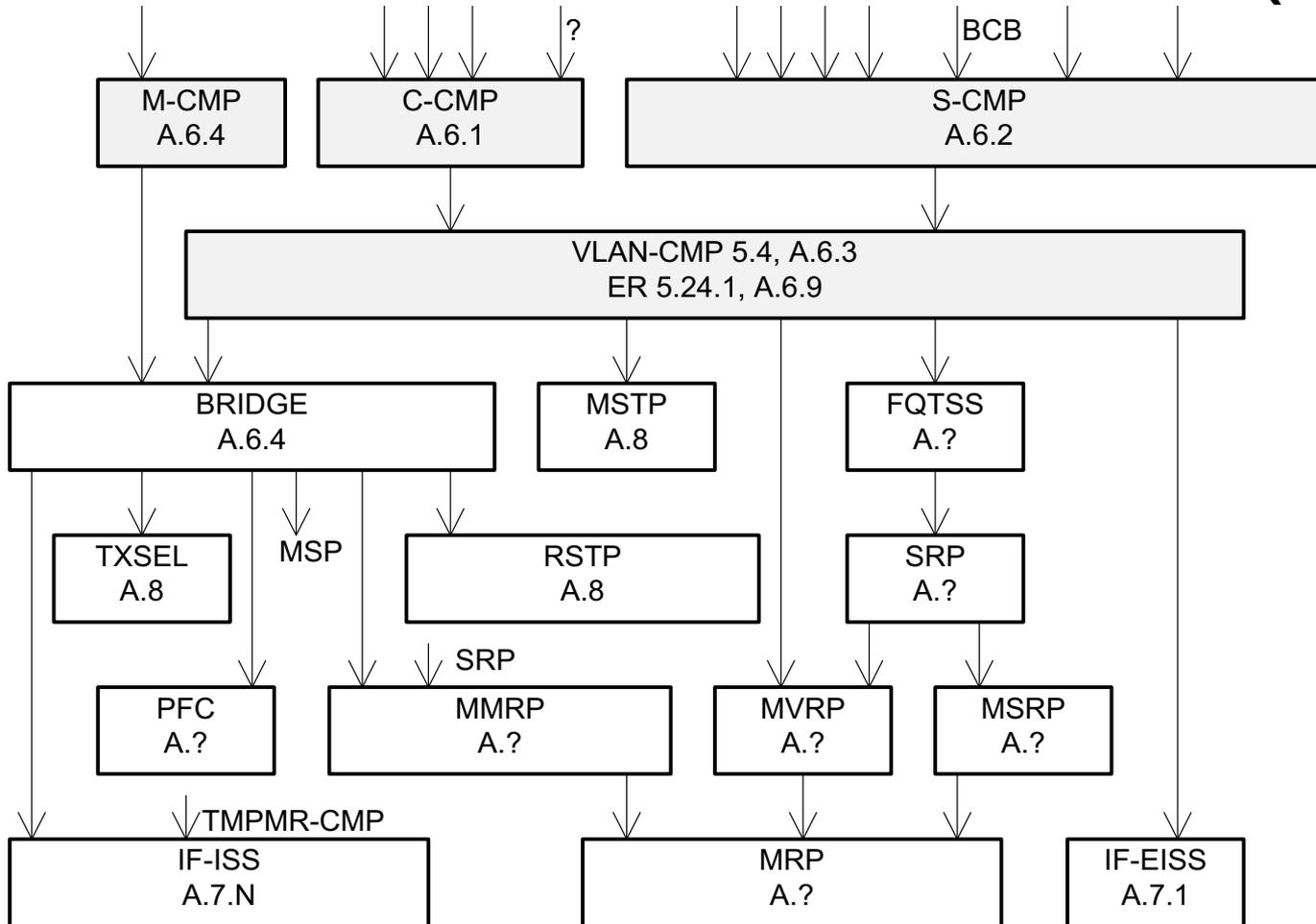
<https://www.ieee802.org/1/files/public/docs2025/q-2022-rev-seaman-update-ppt-0525-v00.pdf>

2 Some of the PICS issues raised in this presentation were included in the prior report.





# PICS structure—detail (2)



# Structure uses PICS conventions

<sup>14</sup> Complete tables as required for claims of system conformance to this standard. This introductory text and  
<sup>15</sup> tables for which the answer to the lead item (first row) is No or N/A (not applicable) can be omitted from the  
<sup>16</sup> completed PICS.

## <sup>17</sup> A.5.1 MAC Bridge conformance

Item	Feature	Status	References	Support
MAC-BRIDGE	Can the system be configured as a VLAN-unaware MAC Bridge, operating as a single conformant MAC Bridge component, with each Bridge Port supported by the ISS? <sup>a</sup>		5.14, A.6.1	Yes [ ] No [ ]
M-BRIDGE-MAC	Can each Bridge Port be configured to attach directly to an IEEE 802 LAN?	M	5.9,	Yes [ ]

<sup>a</sup>If Yes complete this table and referenced tables for all selected items (Yes answers).

## <sup>1</sup> A.6.1 VLAN-unaware MAC Bridge component conformance

Item	Feature	Status	References	Support
M-CMP	Does the component provide VLAN-unaware MAC Bridge component Entity functionality? <sup>a</sup>	M-BRIDGE:M	<5.13> A.6.4	Yes [ ] N/A [ ]
RSVD-ADDR	Are the Reserved Addresses in Table 8-1 permanently configured in the FDB?	M	Table 8-1	Yes [ ]

<sup>a</sup> If Yes complete this table and referenced tables for all selected items (Yes answers).

# In progress

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- Item by item markup of existing PICS
  - Showing relocation of items
  - Explaining removal of items found incorrect (including items from 802.1D never in 802.1Q) or redundant
  - Completing new PICS Tables
  - Avoiding ‘any feature not standardized is prohibited by convention’
  - Removing ‘lazy references’ of form ‘Q’ is an ‘P’ with prohibition of mandatory items in ‘P’.
  - Checking/updating cross-references.
  - Noting conflicts in existing text, referencing definitive text, e.g.
    - Clause 12 Management FDB entries are old subset of Clause 8.
    - Clause 12 ‘RSTP/MSTP’ description not as per protocol definition.
    - Will raise a number of ‘maintenance items’.
- Still working on Revised PICS Tables and items
- Anticipate Clause 5 simplification

# Placing PICS items in Tables

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In general:

- If a PICS Item is required by more than one system or component table, move it to a table that they reference (down the reference hierarchy).
- If a PICS item in a component table 'T' refines the component behavior for a table 'S' that is only one of several including 'T' by reference, then move the refinement to 'S' (up the reference hierarchy).

with a view to:

- Reducing the overall size of the PICS.
- Being clear what overall system functionality requires specific items.
- Reducing the overall number of qualifying conditions on items.
- Reducing the number of/dependency on 'come from' conditions.