

802.1Qau Draft 1.0 Ballot Issues

Version 2

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Vote summary and Issues

Vote summary

- Ballot results: Yes: 0 No: 17 Abstain: 35
- Ballot comments: 210
 E: 39 T: 37 G: 0
 ER: 52 TR: 81 GR: 1
- This result is expected, of course, since this was the first Task Group ballot.

Issues

The following list of issues are those such that:

More than one commenter raised the issue.

The proposed resolution requires looking at more than one comment.

- There are a number of issues that were either raised by only one commenter, or the resolution is in only one comment.
- Whether a given comment is or is not listed in the Issues list is a rather arbitrary choice made by the editor, and is not a reflection on the perceived worth of the comment.

Issues

Station Input segregation (see discussion, below)
 3, 6, 166

Per-CN Class flows (see discussion, below)

45, 68, 69, 73, 88, 135, 151, 202

CNM extension

95, 96

CNM size

89, 177

Configuration difference

Issues

LLDP TLV

97, 142

Edge Port vs. Edge Control Point

43, 44, 46, 70, 147

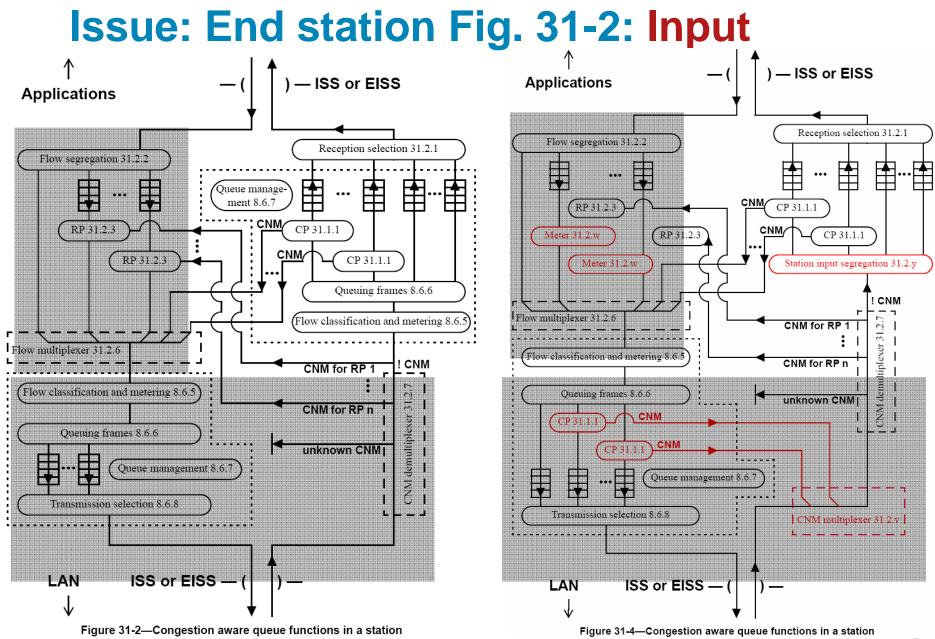
Table 30-1

28, 78, 100, 149

Clause 30 rework

9, 21, 25, 27, 29, 30, 32, 34, 35, 37, 63, 79, 80, 113, 150, 178, 190, 210

End station diagram issues: Input



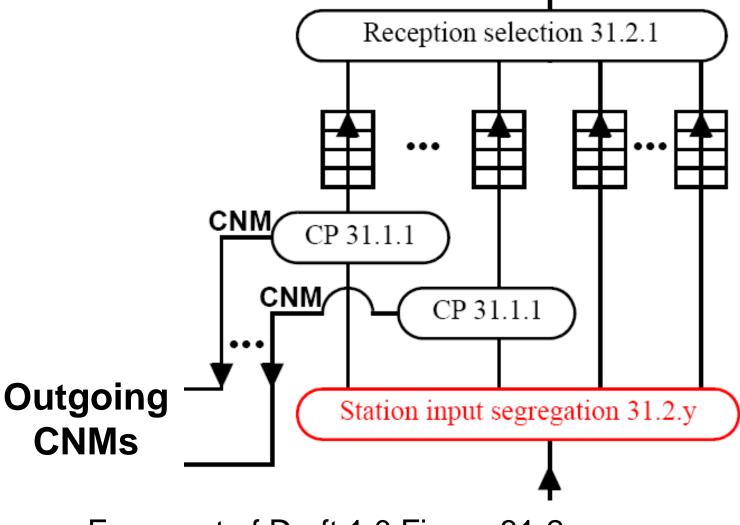
au-nfinn-D1-ballot-issues-05-08-v2

EEE 802.1 interim, Elat, Israel, May, 2008

Issue: End station Fig. 31-2: Input

- In Draft 1.0, the end station must have the same perpriority queues and CPs that a Bridge must have.
- But, an end station may not need to issue CNMs based only on priority; it may have the ability to issue CNMs based on any other granularity, e.g. per-application.
- Therefore, we will not specify how the end station segregates traffic among CPs.

Issue: Station Input Segregation

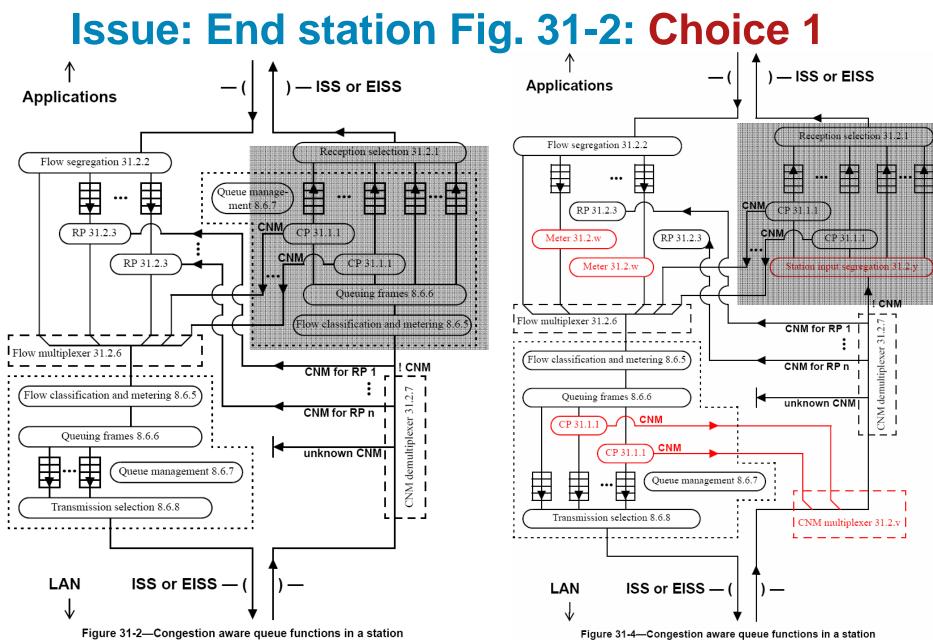


Fragment of Draft 1.0 Figure 31-2

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End station diagram issues: Output



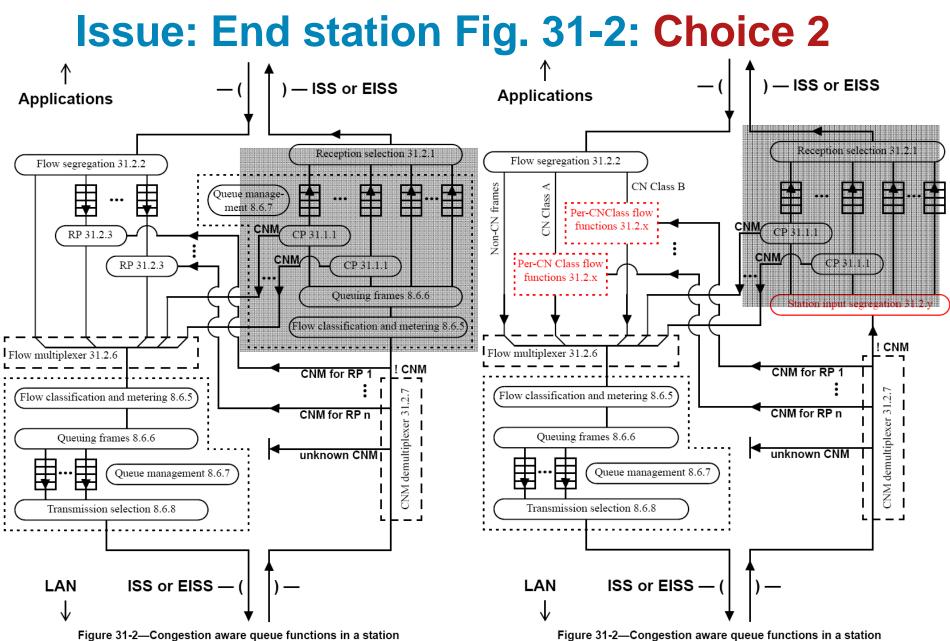
Issue: End station Fig. 31-2: Choice 1

In Draft 1.0, a Flow queue can have an attached RP.

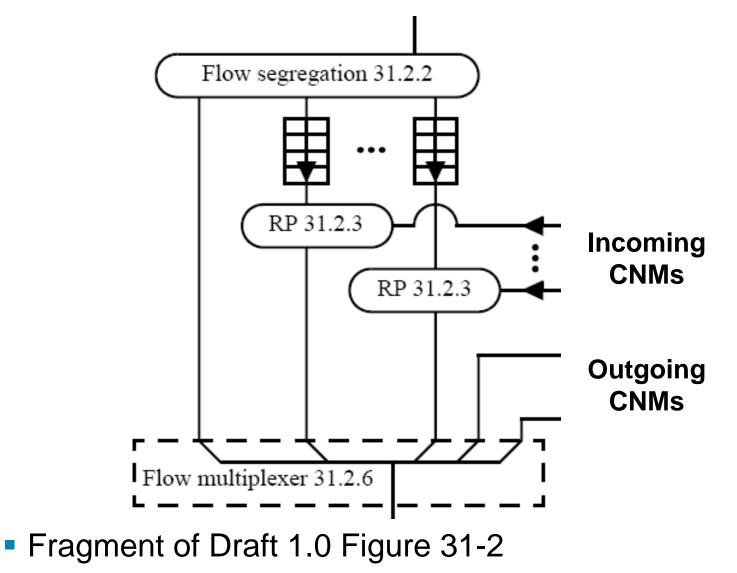
The RP state machine determines the current flow rate.

But, there is no function specified to actually drain the queues at that flow rate.

- Therefore, we transmit CNMs internally, to prevent priority queue overflow.
- This may use a faster sampling rate (e.g., 25% instead of 1%).
- From outside the box, it is impossible to tell whether the CNMs are actually generated.



Issue: End station diagram, Fig. 31-3



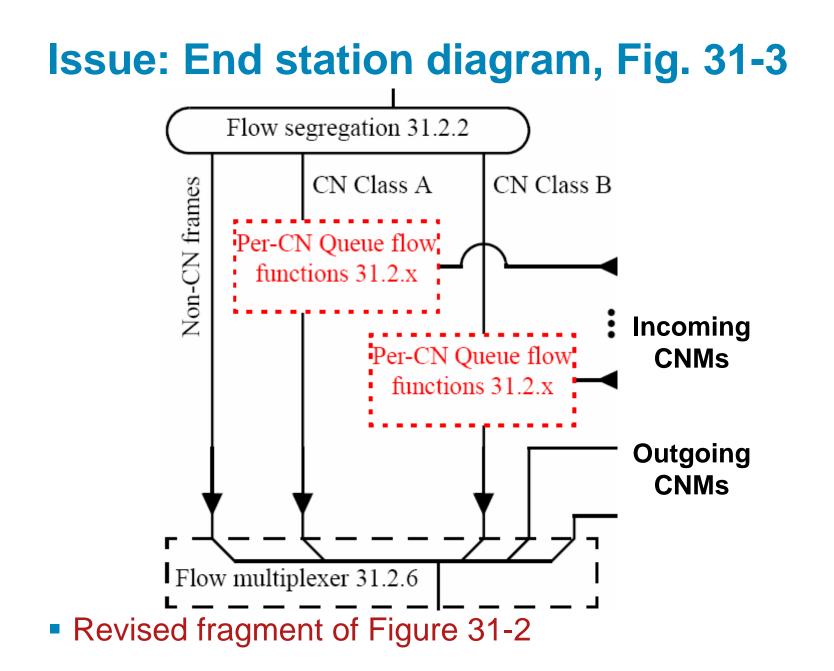
Issue: Per-CN Queue flows

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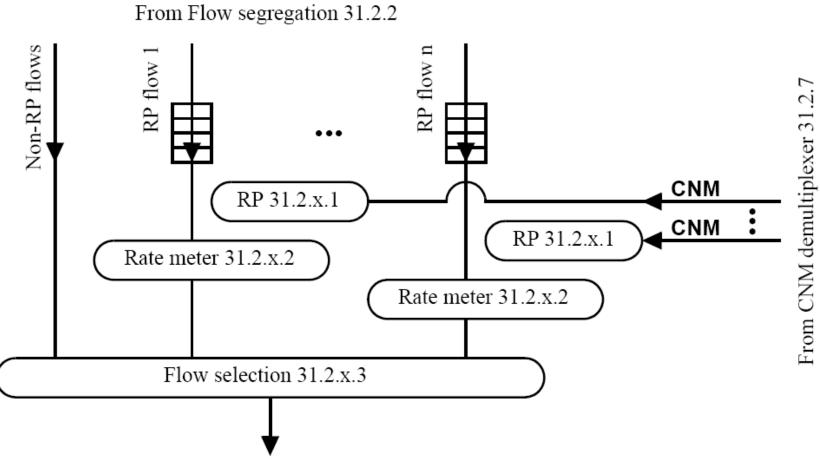
 Therefore, we split the RP functions up by CN queue, one Per-CN queue function per CN priority queue.



Issue: Per-CN Queue flows

- Non-CN traffic bypasses the Per-CN Queue flow functions.
- There is one Per-CN Queue flow function for each CN priority queue.
- More than one CN Class can be directed to the same priority queue.

Issue: Per-CN Queue function



To Flow multiplexer 31.2.6

Figure 31-3—Per-CN queue flow functions in a station

Per-CN Queue function: Rate meter

- Rate Meter offers frames to lower layers at the rate specified by the RP.
- Details of how rate meter works will have to wait, but we can expect that there is a small per-flow queue after the rate meter, instead of the 1 frame queue implied by au-nfinn-D1-ballot-issues-0508-v01.pdf. [Or better yet, describe this as a maximum credit that the rate meter can accumulate.
- Editor's note needed to say that this is a tentative solution.

Per-CN Queue function: Flow selection

- The Flow selection function never takes a frame if it would overflow a priority queue.
- in the following order:
 - Controlled frames are taken in proportion to the RPs' current transmit rates.
 - Frames not controlled by an RP are taken in some proportion to those that are, where the proportion is determined by means outside the standard.
- It may be that all we have to do is to specify a measurement interval for the rate meter, which is related to the amount of credit the rate meter can accumulate.

Issue: End station Fig. 31-2: Choices

•We will take:

Choice 2 (Disconnect actual transmit rate from RP transmit rate rate).