
CM Capability Exchange and Discovery

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802.1au schedule and Pending items

- Protocol/Mechanism selection March 2007
 - Last Feature Addition July 2007
(Including **discovery**, mgmt, message and tag formats)
 - Complete draft November 2007
 - Task force review complete; initiate WG ballot March 2008
 - Sponsor ballot September 2008
 - Forward to RevCom
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802.1au schedule and Pending items

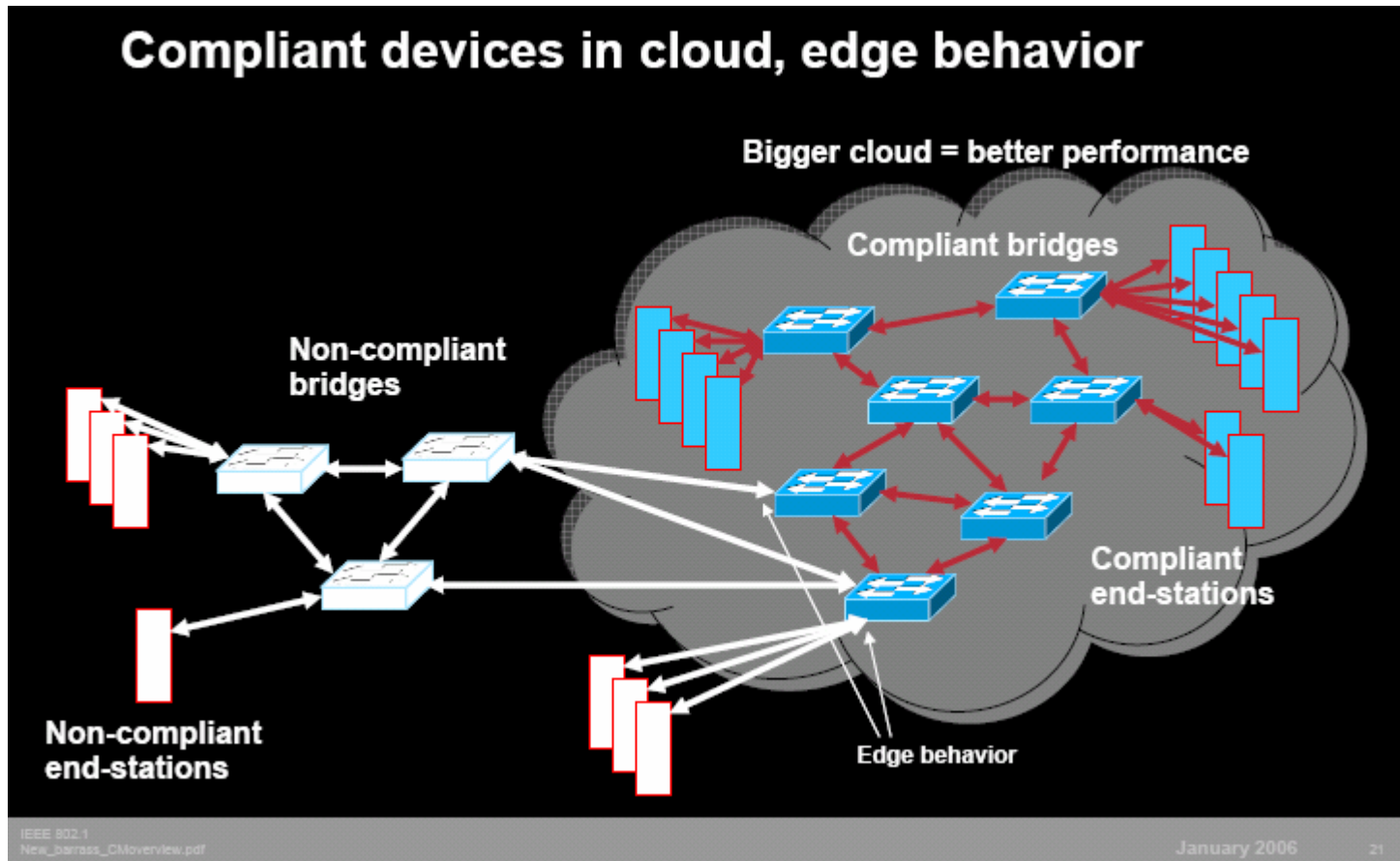
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802.1Qau Compatibility Criterion

- “Congestion notification frames and frame headers are confined to a domain composed solely of congestion notification capable bridges and end stations, thus preventing interoperability or compatibility problems from arising with either existing end stations and bridges, or with future systems using possible different techniques”.
 - So, we need mechanism to define such a domain
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CM and Non-CM Domains in DC

- Borrowing from: <http://www.ieee802.org/1/files/public/docs2006/new-barrass-cm-overview-0106.pdf>



CM Cloud: Requirements

- Is formed by only by CM Compliant bridges and End Stations
 - CM and non-CM traffic can co-exist on same infrastructure: differentiated by Priority level
 - CM cloud members may need to ensure consistency of CM parameters across the link/cloud
 - CM frames/headers need to be filtered out while exiting CM Cloud
 - How do we know where CM Cloud boundary is?
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CM Discovery protocol

- Every CM-capable device needs to exchange CM-capabilities before data transfer
 - If peer is CM-capable, then CM functionality should be enabled on the port/priority (Else “filter header/packets” needs to be applied)
 - If peer is CM-capable, feature parameters may be exchanged (E.g. BCN parameters etc.)
 - Leverage LLDP protocol for this discovery
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Summary

- Need to define CM Discovery and Capability Exchange protocol
 - Need to start participating in 802.1AB Revision project to understand and influence
 - Should start bringing specific proposals
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