



NC-SI 1.2 MC MAC Address Provisioning (Work-In-Progress)

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Disclaimer

- The information in this presentation represents a snapshot of work in progress within the DMTF.
- This information is subject to change without notice. The standard specifications remain the normative reference for all information.
- For additional information, see the Distributed Management Task Force (DMTF) website.



MC MAC Address Provisioning Proposal Summary

- NC typically provisions MAC addresses for host communications
 - Host treats them as permanent MAC addresses
- MC MAC Address Provisioning
 - MC provisions MAC addresses used for OOB management OR
 - NC provisions MAC addresses for the MC
- NC-SI 1.1 doesn't have a way to retrieve MC MAC addrs provisioned by the NC
- Add a mechanism in NC-SI 1.2 to retrieve provisioned MC MAC addrs
- No change to MC MAC address filters set using NC-SI 1.1 commands
- Proposal:
 - MC MAC addresses are retrieved via NC-SI command
 - MC can not change provisioned MAC addresses
 - The number of MC MAC addresses provisioned are NC dependent
 - These MAC addresses not exposed to the host as available MAC addrs



Get MC Address Command

- Get MC MAC Address is used to discover MC MAC addresses provisioned by the NC
- Get MC Address as a package command
 - Package command should return all provisioned MC MAC address on the device
- Get MC Address as a channel-specific command
 - Channel command should return provisioned MC MAC address that are assigned for that specific channel
- The MC is not required to use provisioned MC MAC addresses in setting MAC address filters on a specific channel
- For multi-port devices, it is expected that the MC queries provisioned MC MAC Addresses on each channel independently



Get MC Address Response

- In the response, the NC provides provisioned MC MAC addresses
- Response includes address count and MC MAC addresses
- Address count in the response indicates # provisioned MC MAC addr
 - One or more provisioned MC MAC addresses for non-zero Address count
 - Address count of 0 indicates no MC MAC addr are provisioned by the NC
- Supports different models
 - One BMC MAC address per device (package)
 - One BMC MAC address per port (channel)
 - One BMC MAC address per host (e.g. multi-host)
 - One BMC MAC address per port (channel) per host (e.g. multi-host)



BACKUP

