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

October 17, 2017
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 addrs
  • One or more provisioned MC MAC addresses for non-zero Address count
  • Address count of 0 indicates no MC MAC addrs 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