



FCoE Mapped MAC Addresses

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FCoE Mapped MAC Addresses

- **MAC addresses of the form ‘FC-OUI || FC-ID’**

The FC-OUI value (i.e., the most significant 24 bits of the MAC address) is provided by the fabric in the FCoE Advertisement messages

The FC-ID value (i.e., the least significant 24 bits of the MAC address) is provided by the fabric in the FLOGI LS_ACC

‘||’ indicates the concatenation operator

- **Not used by the FCoE Discovery protocol and by FLOGI/FDISC Requests and LS_ACCs**

The FCoE Discovery protocol and FLOGI/FDISC use the burned-in MAC addresses of the involved Lossless Ethernet MACs

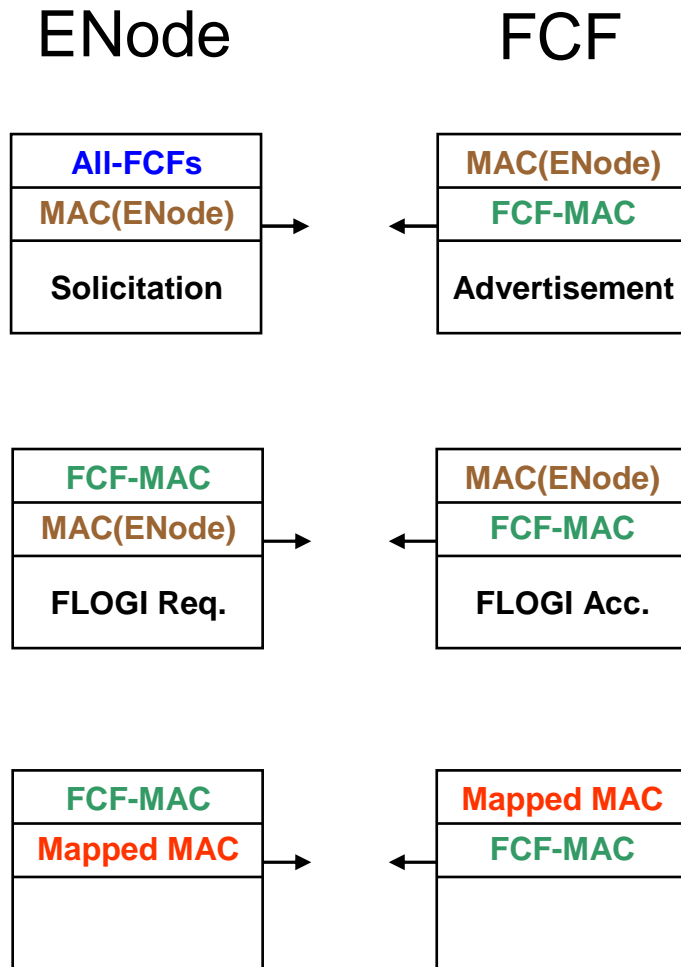
- **Assigned only to VN_Ports’ FCoE_LEPs**

Not assigned to VF_Ports’ FCoE_LEPs, VE_Ports’ FCoE_LEPs, and FCoE Controllers

- **This definition supersedes any other previous one**

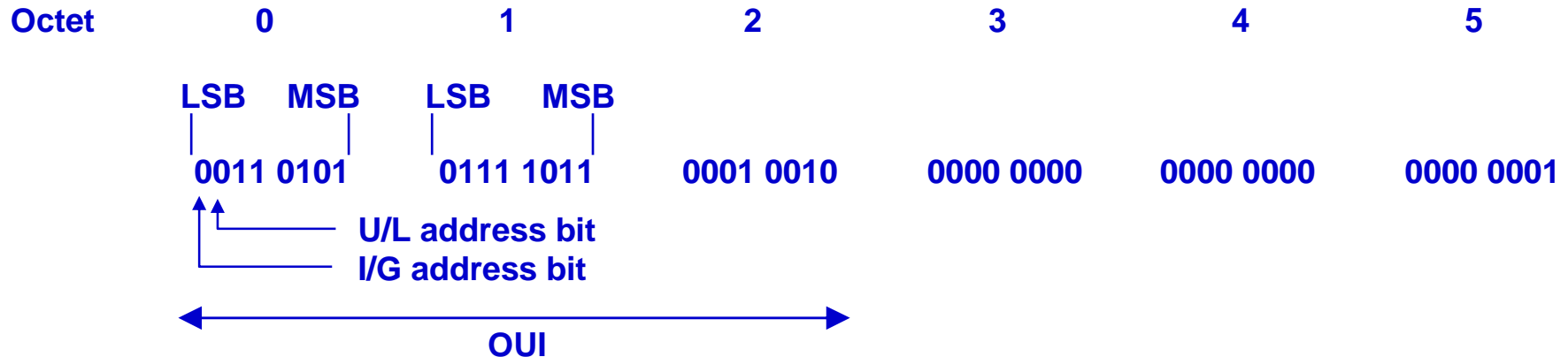
Note: The term ‘FC-OUI’ is misleading. A better term is probably needed

FCoE Mapped MAC Addresses Usage



- **FCoE Discovery Protocol**
- **FLOGI/FDISC**
FDISC used for NPIV
- **VN_Port ↔ VF_Port**
All other FCoE frames

The FC-OUI



- **The 24 most significant bits of an FCoE Mapped MAC address**
 - The I/G bit shall be set to zero (i.e., individual address)
 - The other 23 bits are available to the fabric administrator
 - Including the U/L bit, that shall obey to the IEEE 802 rules
- **Different from any “real” OUI used by FCFs or FCoE Controllers**
 - i.e., different from the OUIs of the FCF-MAC addresses and of the ENode’s burned-in MAC addresses
- **A better term is probably needed**

Thank You