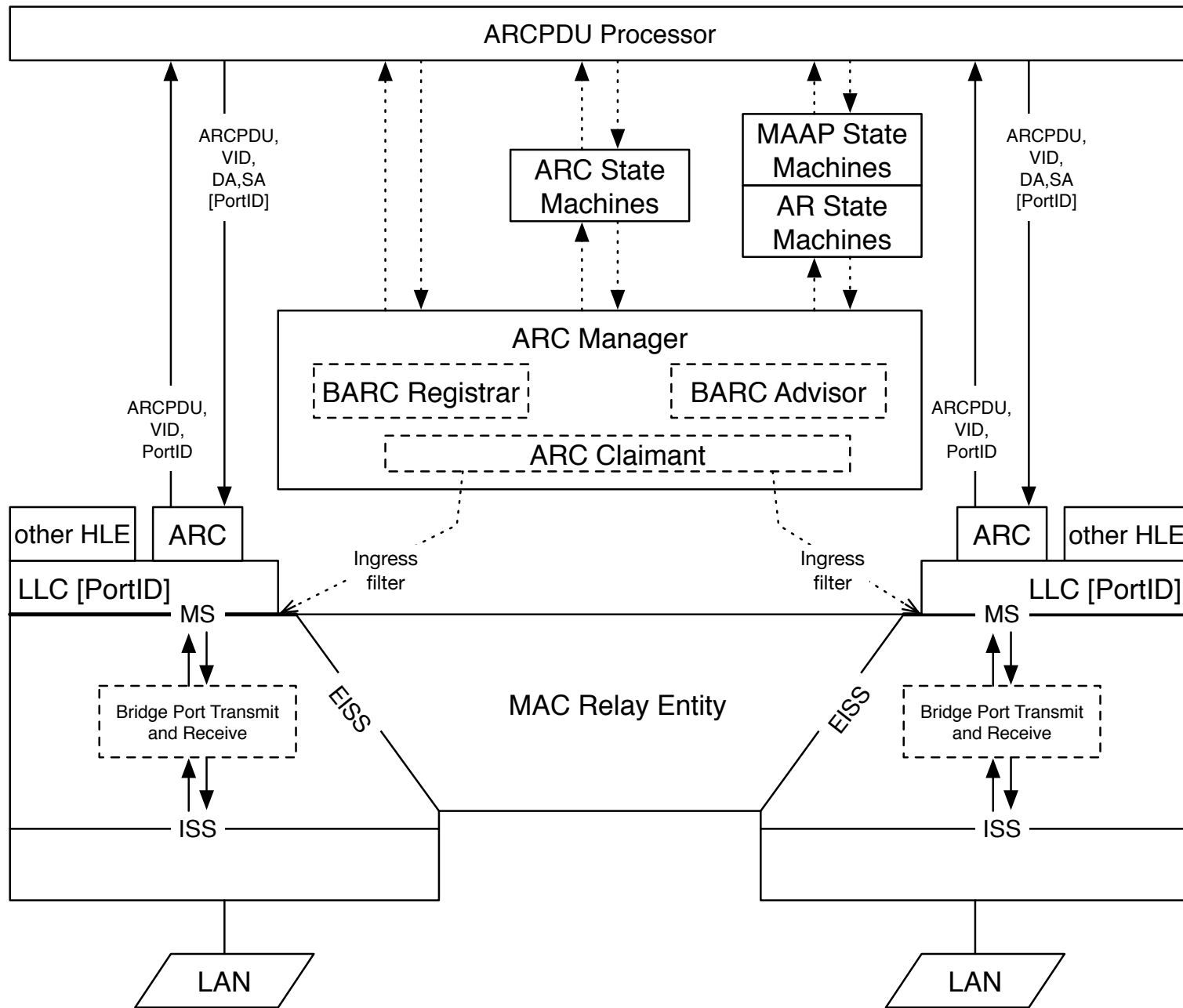


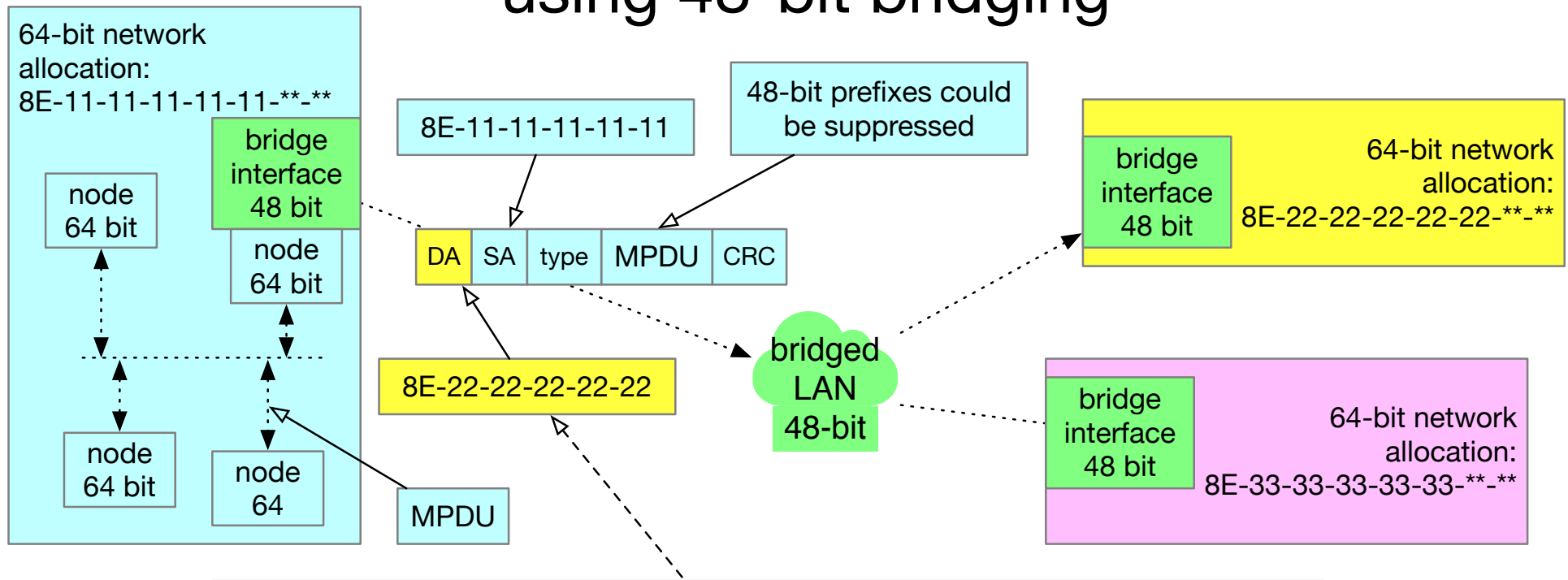
Figures to consider in
P802.1CQ/D0.7
Comment Resolution

Roger Marks
EthAirNet Associates; Huawei
2021-08-30

CID 26:ARC Architecture



CID20: Model of 64-bit Allocation Use to support 64-bit bridged LAN using 48-bit bridging



- MPDU includes sufficient information for bridge interface to determine 48-bit DA
- allocated 64-bit addresses are unique across the union of 64-bit networks
- union of the all the 64-bit networks works like a bridged LAN
- if MPDU carries a 64-bit destination address per allocation, then DA is first 48 bits
- otherwise, bridge interface may need a 48/64 mapping table

Prior work:

- In a Personal Area Network, there are nodes connected to two IEEE 802 technologies like 802.15.4 with 64-bit MACs and 802.3 with 48-bit MACs, PAN coordinator and intermediate bridges and routers
 - This document presents use cases for using 802.1 bridges to adopt 64-bit MACs with 48-bit MACs
 - Address Bridging: 64-bit to 48-bit address adaptation work is needed in 802.1
 - Local addresses can be used by the bridge during address bridging (both for 64-bit to 48-bit and vice versa)
- all quotes from <https://www.ieee802.org/1/files/public/docs2016/new-64bitto48bitMACAdapting-sarikaya-0116-v00-xtn.pdf>

CID79: Semantic Addressing – Example

