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Proposed PAR: WAN Access Bridge

The Project is a: Amendment to Std 802.1ad

Scope of Proposed Project:
This standard specifies protocols, procedures, and managed objects supporting the transfer of Service Instance aware traffic between a Provider Bridge (P802.1ad) and a WAN-edge device having an ITAG-aware MAC. The defined application is the efficient interconnection of Provider Bridged Networks (PBN) across a non-P802.1ah WAN.

Is the completion of this document contingent upon the completion of another document? Yes
Functions specified by this amendment to P802.1ad may correspond in part, or whole, to functions specified by P802.1ah. In such cases, the amendment may reference P802.1ah.

Purpose of Proposed Project:
This project shields the WAN-edge device from any view of the Service Provider VLAN Identifier (SVID) associated with the locally attached PBN. Currently, a WAN-edge device must be provisioned with the information that Ford is SVID7 at site 22 and is SVID44 at site 3. This amendment would allow the WAN-edge to identify Ford as ISID FORD in all cases. It the project further makes it unnecessary to deploy P802.1ah when attaching to a non-802.ah WAN.

Reason for the standardization project:
Service Provider Domains built from WAN-interconnected Provider Bridged Networks (P802.1ad) represent a new and very broad application space for IEEE 802 technologies. In some cases, PBN interconnection will deploy Provider Backbone Network technology (P802.1ah). Some Service Providers will deploy other technologies, in particular, IETF MPLS or ITU Transport-MPLS. This amendment removes an obstacle to PBN interconnection using non-P802.1ah technology by allowing, as an option, the function of SVID/ISID mapping to be performed within the Provider Bridge (P802.1ad). This makes it unnecessary to deploy a distinct P802.1ah bridge when a non-P802.1ah WAN technology is deployed. Devices deploying this technology will be required by Operators attaching to non-P802.1ah WANs.