

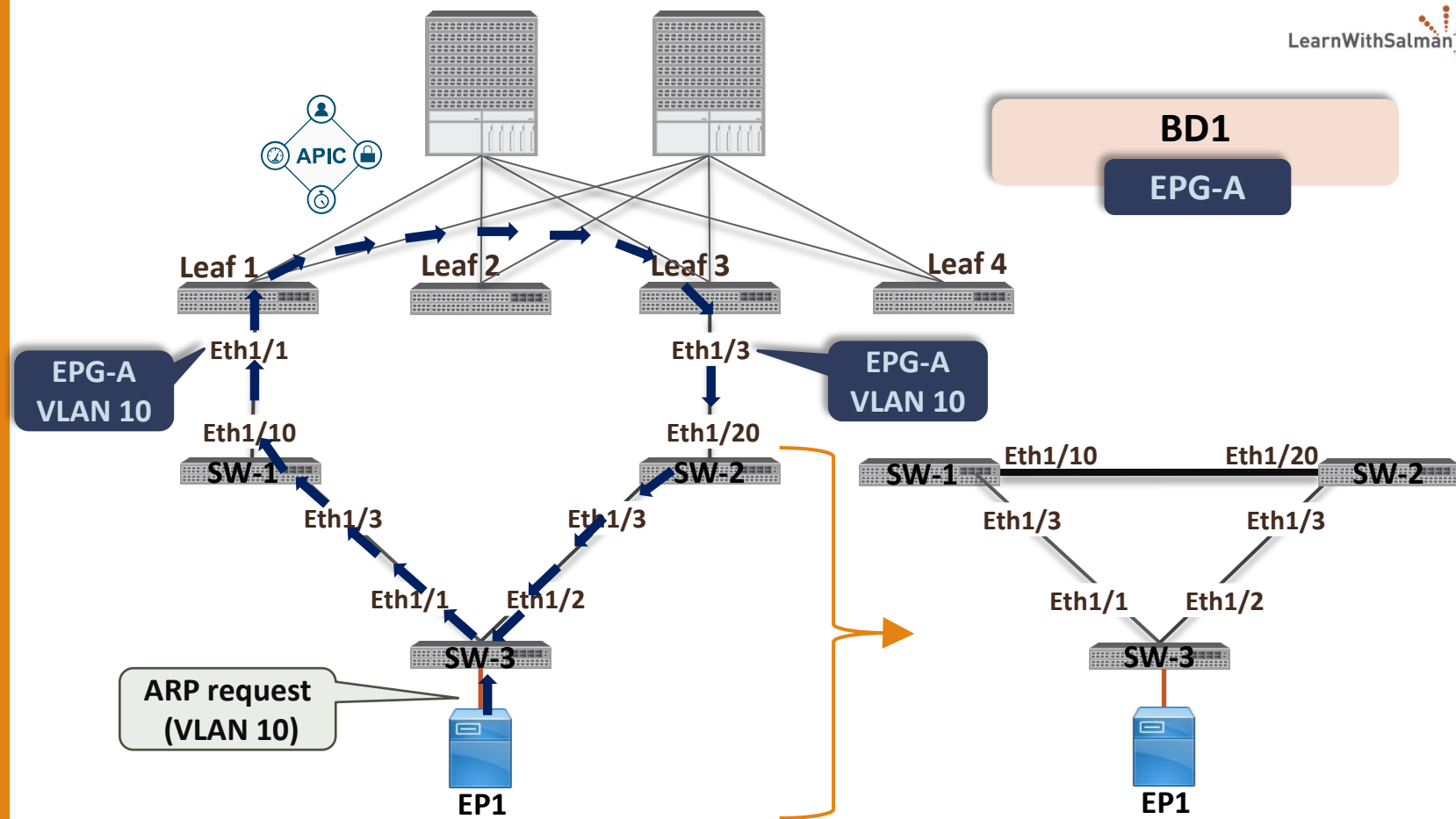
Cisco Data Centers

ACI CORE

ACI & STP

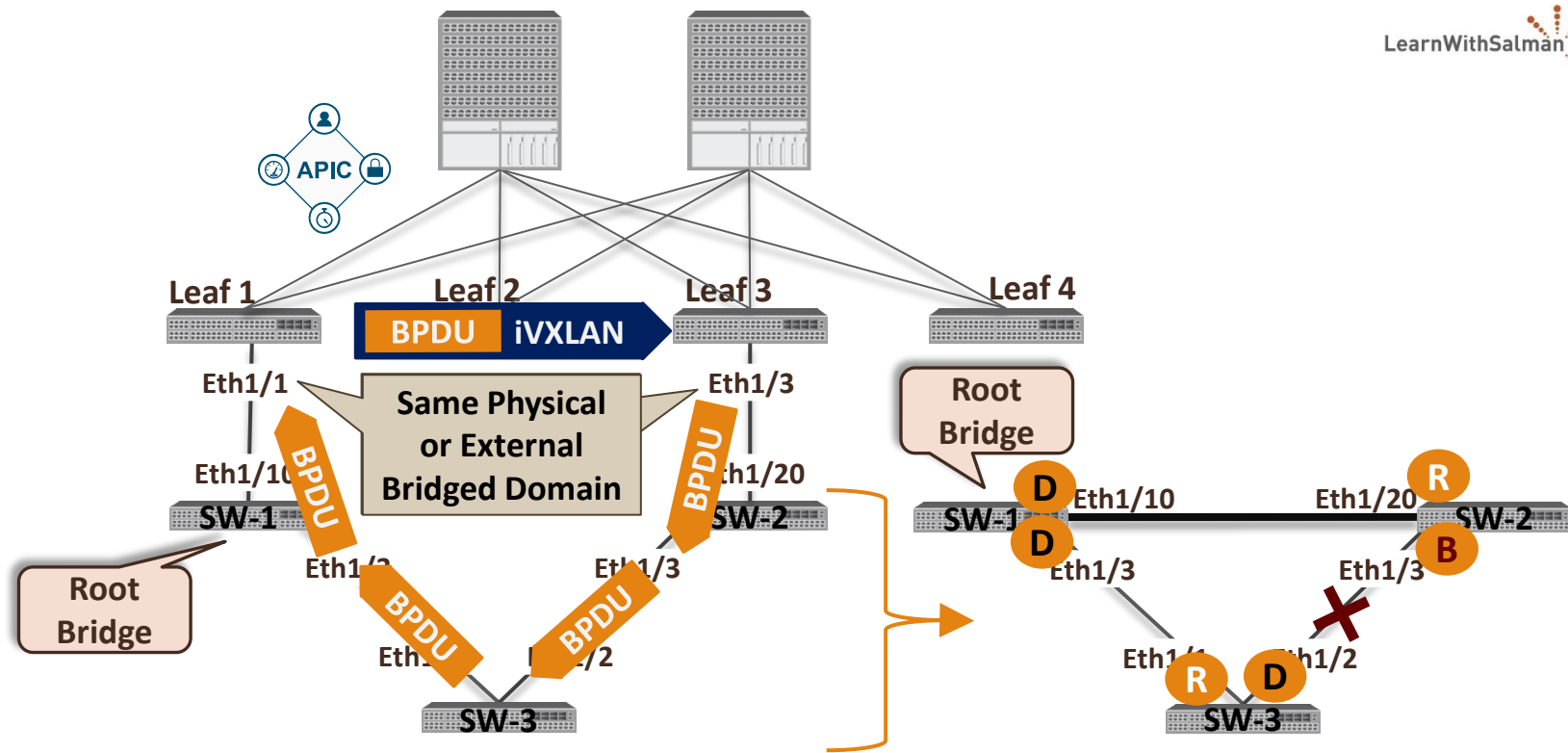
ACI Interaction with STP

- ACI doesn't run STP inside the fabric.
- ACI floods every received STP BPDUs in each encapsulated VLAN within an EPG.



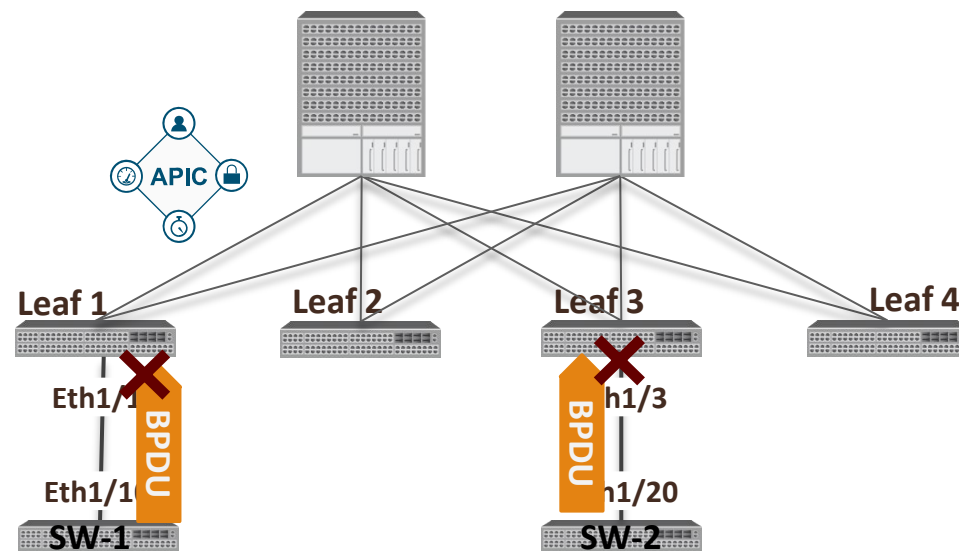
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 - ACI floods every received STP BPDU frame in each encap VLAN within an EPG.
 - External switches are responsible for breaking any potential loops.
 - No configuration is required for the BPDU flooding.
 - ACI assigns a VNID for each encap VLAN ID (Fabric Encap VNID).
 - Interfaces within the EPG that are connected to the external switches must reside in the same physical or L2 external domain.
 - An interface access policy can be created to enable BPDU filter and BPDU guard on selected ports.



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Fabric > Access Policies > Policies > Interface > Spanning Tree Interface

Create Spanning Tree Interface Policy

Name:

Description:

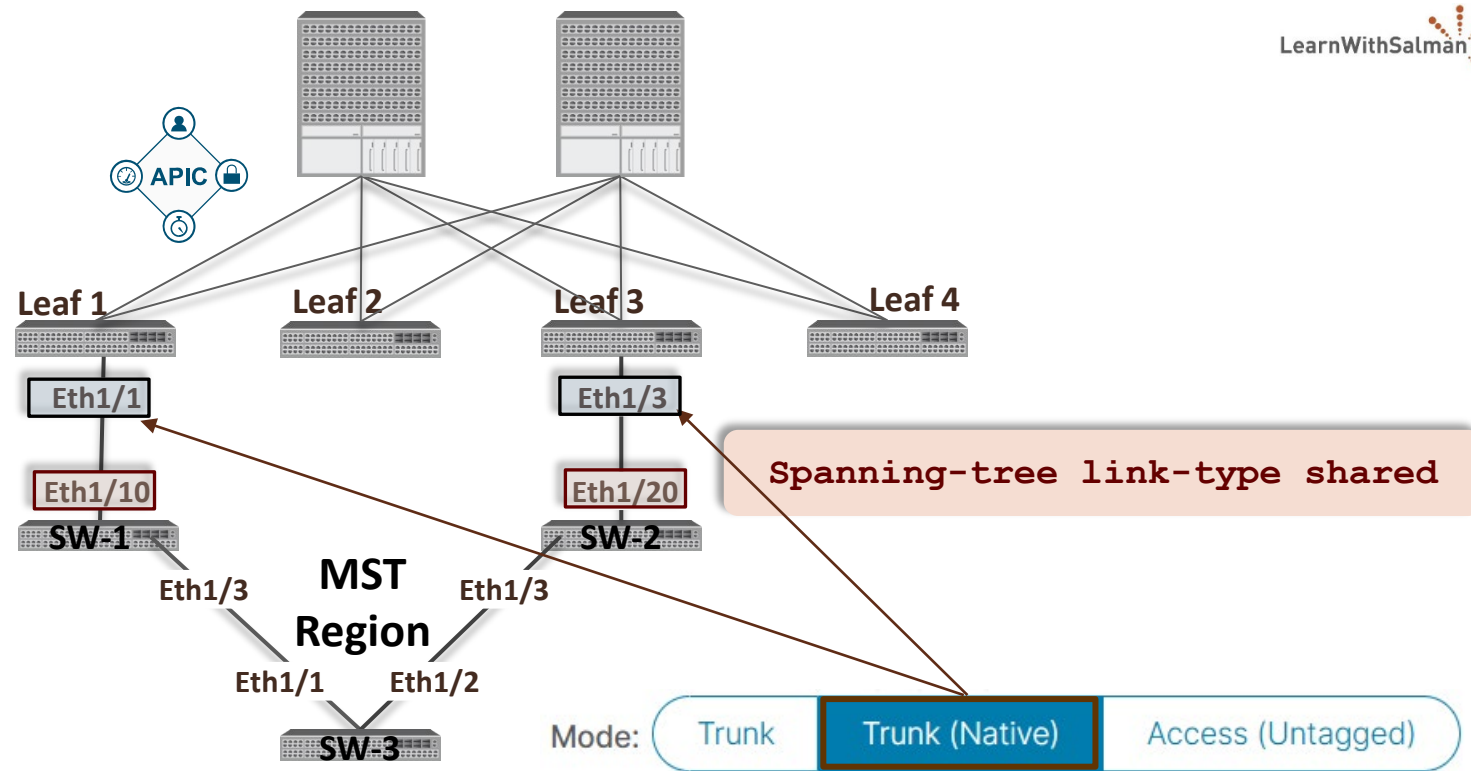
Alias:

Interface controls:

- BPDU Filter Enabled
- BPDU Guard Enabled

ACI Interaction with STP

- BPDUs flooding is different from data traffic flooding.
 - Data traffic flooding can be turned on or off at the per-bridge domain.
- When ACI receives STP TCNs on a VLAN, it flushes the EPGs associated with that VLAN in the BD (Any EPG).
 - EPGs in other encaps VLANs in the BD will not be impacted.
- Fabric-facing ports in the external switches should be configured as “shared” RSTP link-type.
 - In MST, BPDUs don’t carry a VLAN tag, and they are sent over the native VLAN.
 - Must create an EPG for the native VLAN to carry the BPDUs.



Fabric > Access Policies > Policies > Switch > Spanning Tree

Create Spanning Tree Policy Region

Name: MST_Policy

Description: optional

Region Name: MST-1

Revision: 1

Domain Policies:

Name	MST Instance

Create Spanning Tree Domain Policy

Name: Domain_1

Description: optional

MST Instance: 1

Encap:

From	To
100	200

Cancel OK

Thanks for watching!

