

[Home](#) > [Support](#) > [KB Home](#)[KB Home](#) [Back to Answers](#) [Browse Knowledge Base Categories](#) [Printer Friendly](#)

Native vlan-id and tagged behavior in EX Switches

[\[KB17419\] Show KB Properties](#)

SUMMARY:

Native vlan-id and tagged behavior in EX Switches

PROBLEM OR GOAL:

This article is intended to help one understand tagged behaviour on an EX Switch when native-vlan id is configured.

SOLUTION:

When the native-vlan id is configured and when the same VLAN is configured under the port mode trunk, the switch receives untagged frames as well as tagged frames for native-vlan id configured and forwards it to the VLAN configured as native.

For the same configuration, when the packets are send out on the native-vlan the frames are send as tagged frames as it is added under the port mode trunk.

For example:

In the configuration below, the "native-vlan-id 1" equals the MGMT vlan (ID 1) and also the MGMT vlan is configured as a member of the trunk.
vlan:

```
ge-0/0/23 {
  unit 0 {
    family ethernet-switching {
      port-mode trunk;
      vlan {
        members [ MGMT Cust_150 Cust_151 ];
        < -----(Reason why MGMT packets are tagged)
      }
      native-vlan-id 1;
    }
  }
}
```

The EX will tag and transmit the MGMT packets. To send untagged packets on the native vlan, the MGMT vlan has to be removed as a member of the trunk but left in the native vlan set to the MGMT.

Here's how it works:

MGMT is NOT a member of trunk, but it is a member of native VLAN:

Transmit = untagged (pass)
Receive = untagged (pass - mapped to MGMT)
Receive = tagged to MGMT (drop)

MGMT IS a member of trunk and native vlan:

Transmit = tagged (pass)
Receive = untagged (pass - mapped to MGMT)
Receive = tagged (pass)

So if a tagged VLAN needs to be send as untagged traffic, it should be configured only with the native-vlan id, and the VLAN should not be added under the port mode trunk configuration.

```
ge-0/0/23 {
  unit 0 {
    family ethernet-switching {
      port-mode trunk;
      vlan {
        members [ Cust_150 Cust_151 ];
      }
      native-vlan-id 1; <---- will be send as untagged.
    }
  }
}
```

PURPOSE:

Configuration
Implementation

RELATED LINKS:

ASK THE KB

Question or KB ID:

Ask



RELATED TOPICS

[Install Search Engine Plugin](#)

[Submit a Support Case](#)

[KB Feedback](#)