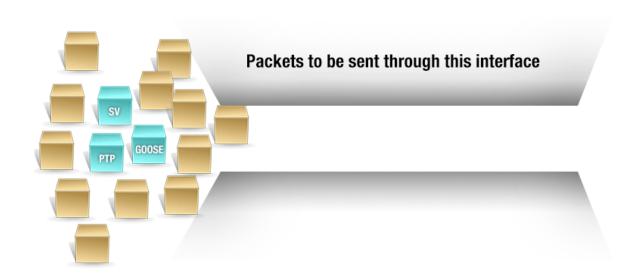
# **IEC 61850 New Subtations Performance**

# Communication packets can be assigned different priorities, depending on their importance

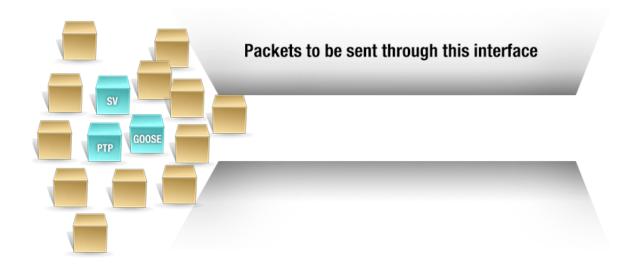


## **Performance**

#### **IEC 61850 QoS**

# **Critical packet prioritization**

- Communication packets can be assigned different priorities, depending on their importance
- Packet types: GOOSE, SMV, PTP
- Packet priorities: high, medium, normal, low



## **VLAN Technology**

# **Enabling efficient and reliable communication**

#### • Trunk traffic reduction

Removing bottlenecks on the trunk links requires a careful analysis to correctly configure the bridges in the network. The traffic can be filtered or restricted to specific domains in the network by VLAN

#### Traffic filtering

To segregate traffic flow throughout the network

## • Device performance improvement

Reduce the number of messages that end devices need to process

## **Time Synchronization Technology**

### **Enabling efficient and reliable communication**

Time Synchr onization Protocol	Typical Accuracy for Substations	Meets IEC 61850 Station bus requirement (1 ms)	Meets IEC 61850 Process bus requirement (1 ?s)
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