

Parameters:

- **DES**: Transaction Identifier, Result Metadata, Virtual Device Identifier, Physical Device Identifier, Device Serial Number, Device Type, Spacecraft Network Address
- **DVS**: Transaction Identifier, Result Metadata, Virtual Device Identifier, Value Identifier, Value, Timestamp
- **DAS**: Transaction Identifier, Result Metadata, Physical Device Identifier, Value Identifier, Value, Timestamp
- **DDS**: DDSAP Address, Device Address, Device Metadata
- **Sync**: SYNCSAP Address, Time, Event ID, Event Time, Event Data, Start/Stop
- **PS**: Data, PSSAD, PDSAD, Service Class, Channel, Priority, Failure Metadata
- **MAS**: MASAP Address, Destination Address, Transaction ID, Memory ID, Start Memory Address, Size, Mask, Data, Channel, Priority, Acknowledge, Authorisation, Verification, Result Metadata

- DES—DAS:
- DES—DVS:
- DAS—PS/MAS:

MTS:

- Message: transmit, receive, query, reply, subscribe, publish, announce
- Transfer layer protocol, subnetwork packet service, OS message queue, etc.

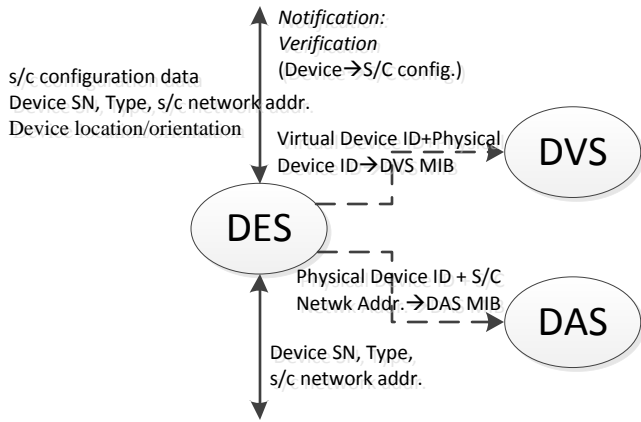
DAP:

- Packet-based
- Memory-based
- Local device driver

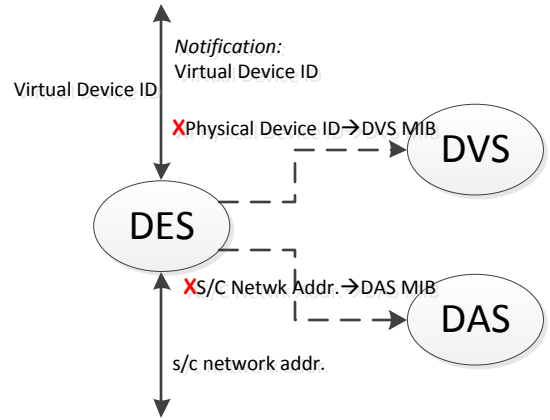
DDS:

- **discovers** the initial subnetwork topology, including current devices on subnetwork;
- **detects** any changes to subnetwork topology, including addition or removal of devices through failure or controlled disconnection (including power down);
- **informs** subnetwork management with device discovery information;
- **provides** notification of device changes (addition/removal).

Adding Devices



Removing Devices



Adding/Removing Devices

