Use case: Dumb Sink

- **Source Transport**
  - Device Connect
  - Power Available
  - NAK

- **Sink Transport**
  - Detect

- **Dumb Sink ()**
  - Device Connect
  - Power Available
  - NAK

- **Device Disconnect**

Use case: Smart Sink

- **Source Transport**
  - Device Connect
  - Power Available
  - Power Request

- **Sink Transport**
  - Detect
  - Ack

- **APP: Power**
  - Device Connect
  - Power Available
  - Power Request
  - Power Acknowledge

- **Power up ()**

- **Device Disconnect**

- **Device Disconnect**

- **Device Disconnect**
Use case: Smart Sink

- **APP: Power**
- **Source Transport**
- **Sink Transport**
- **APP: Power**

**Use case:**

- **Smart Sink (Y1):**
  - Power Available (X1)
  - Power Request (Y1 < X1)
  - Power Available (Y1)
  - Power Acknowledge (Y1)
  - Device Disconnect

- **APP: Power**
  - Device Connect
  - Detect
  - Power Available (X0)
  - Power Request (Y0 > X0)
  - Power Available (X1)
  - Power Request (Y1)
  - Power Request (Y0)
  - Power Available
  - Power Request (Y1)
  - Power Available
  - Power Request (Y1)
  - Power Available

- **Device Disconnect**

- **Power up ()**
Use case: Sink-side Power Renegotiation

Smart Sink (Y0)

Power Available (X0)  
Power Request (Y0 < X0)

Power Acknowledge (Y0)

Power Available (X1 < Y1)

Power Request (Y1 > Y0)

Power Acknowledge (Y2)

Power up (Y0)

Power := Y2

Use case: Source-side Power Renegotiation

Smart Sink (Y0)

Power Available (X0)  
Power Request (Y0 < X0)

Power Acknowledge (Y0)

Power Available? (P1, X1 < Y0)

Power Request (p1, Y1 > X1)

Power Available? (P2, X2 < Y1)

Power Request (p2, Y2 > X2)

Power Acknowledge (Y2)

Power := Y2