Fieldbus Device Commissioning

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HPS
Device Identification

• Each Device is uniquely identified
• Device ID
  – Manufacturer Identification, Model Type, Serial Number, etc.
    Ex.: 0011513244FR-TEMP-0x8104E434
• Device Name (TAG)
  – Set by the user. Identifies function, physical location in the process, etc.
  – Ex.: TT-BA123A
• Device Address
  – Unique numerical address on the segment
    Ex.: 23
  – Automatically assigned by system
Fieldbus Device Commissioning

• System automatically recognizes devices
• Two ways to commission:
  – Automatic (Wizard assisted)
    • Pre-tagged devices
      – Tag assigned in factory
      – Tag assigned in workshop
  – Manual
    • Device has no tag assigned
Automatic Commissioning: “Pre-Tagged” Devices

- Drag device..
- Drop into tag placeholder
  - Self check: If manufacturer, type, and revisions don’t match commissioning will fail

Identifying a pre-tagged device and dragging it to correct tag placeholder is easy
Device Commission Wizard

- Wizard appears automatically after dropping device into placeholder
Device Commission Wizard: - Parameter Reconciliation

- Compare device configuration against database placeholder
- Compare all blocks and all highlighted tabs
Device Commission Wizard:
    - Commissioning

- Brings device to ‘commissioned’ state
- Takes a few minutes
Manual Commissioning: “Un-Tagged” Devices

- Drag device...
- Drop into tag placeholder
  - If manufacturer, type, and revisions don’t match commissioning will fail

If actual tag is not assigned, it appears with a default tag, different from its placeholder.
Manual Commissioning: If Device is Not ‘Pre-Tagged’

- Default tag from the factory if not specified
- Most fieldbus devices are provided with a ‘Commissioning Tag’
- When device is installed:
  - Write down the device tag
  - Tear off
  - Bring to control room
  - Commission in software
Download Device - Confirmation

- Download configuration to device

![Confirm Partial Download](image_url)

**WARNING:** Performing a Partial download may affect the control of your process.

You should ensure that all safety precautions have been followed before downloading and that the desired options are checked below. Note that downloading will distribute some set-up data to all workstations.

This will download 'FT101A' and any subordinate objects.

**Download Options**

- [x] Verify the configuration

Are you sure you want to download?

[Yes] [No]