Product - Information

I&M Function Access for PROFIBUS PA and DP-V1

Overview

This software library contains the access mechanism and state machine for identification and maintenance functions used in PROFIBUS PA and DP-V1 slave devices. The access is based on read/write service directed to index 255, which has not been used so far in IEC 61158.

Block diagram

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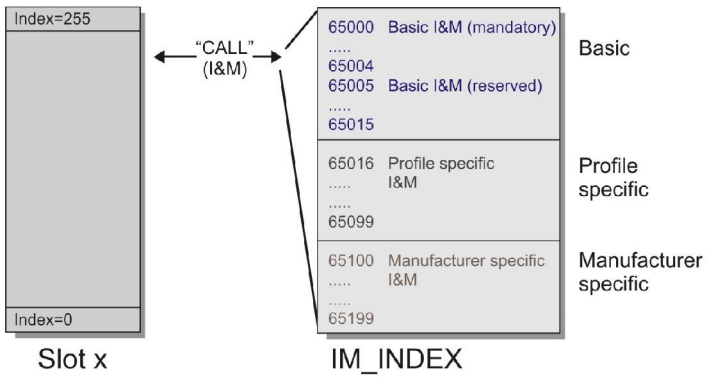

Technology

The main purpose of the I&M functions is to support the end user during various scenarios of a device's life cycle, e.g. configuration, parameterization, diagnosis, repair or audit trail. I&M functions are mandatory for all PROFIBUS slaves using MS1/MS2 channel for which a new Ident number is assigned. This obligation is for slave devices which are tested for certification after October 1st, 2005.

Delivery Content

- Software library I&M function access for PROFIBUS PA and DP-V1
- Documented source code
- Developer guide
- Usage examples

Technical Data

- General I&M parameter access, usable for all PA and DP-V1 devices (Profiles)
- Encoding of services
- Support of state machine call service according to IEC 61158
- Complying to PROFIBUS Profile I&M functions Rev 1.1.
- Complying to amendment 3 to PROFIBUS PA Profile for Process Control Devices V3.0 Rev. 1
- ANSI-C
- Documented source code
- Compatible with all kinds of PROFIBUS PA and DP-V1 stacks
- Example code
- Independent of type of microcontroller used

Optional

- Implementation of I&M functions for customer firmware
- Adaptations for the chosen PROFIBUS Stack
- Slave conformance testing in fieldbus laboratory

Order Information

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