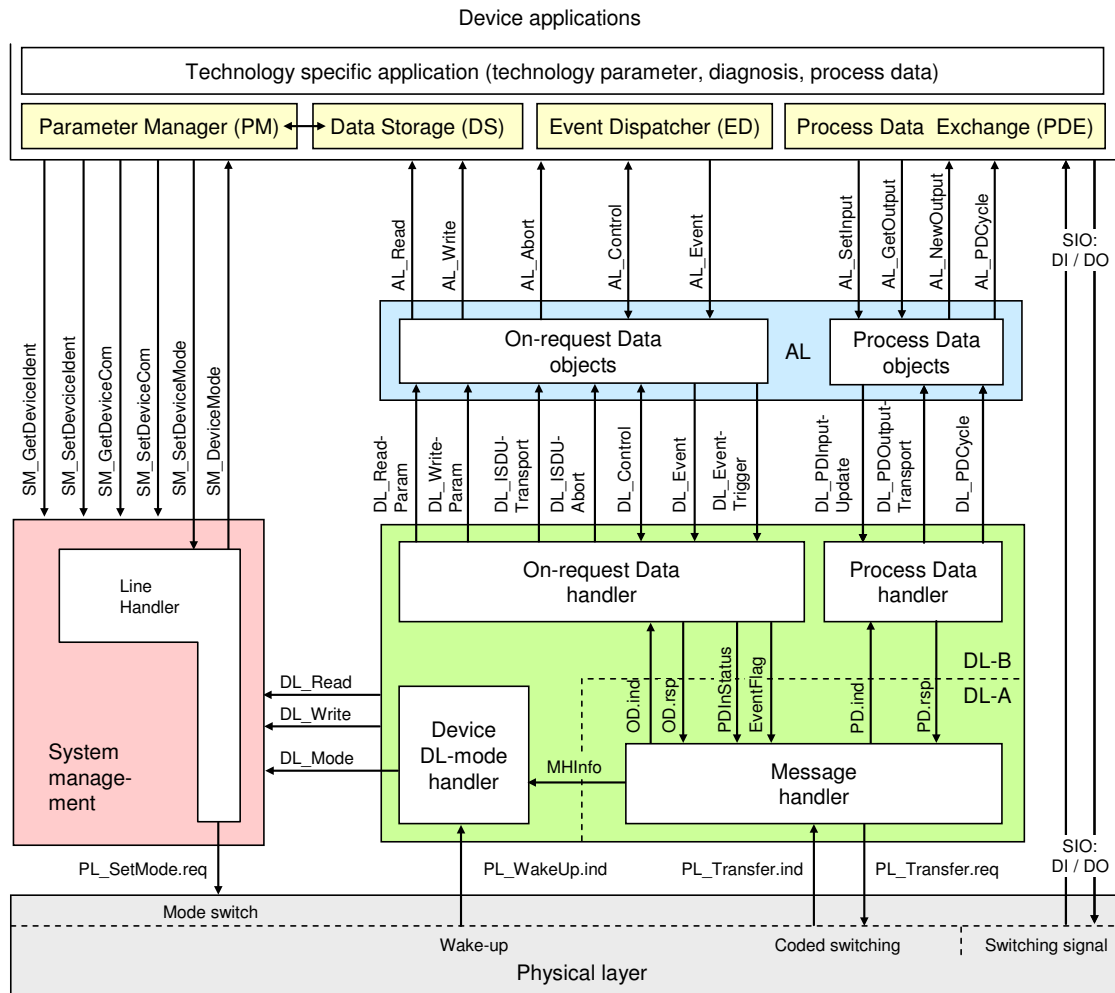


## 10 Device

### 10.1 Overview

Figure 83 provides an overview of the complete structure and services of a Device.



**Figure 83 – Structure and services of a Device**

The Device applications comprise first the technology specific application consisting of the transducer with its technology parameters, its diagnosis information, and its Process Data. The common Device applications comprise:

- Parameter Manager (PM), dealing with compatibility and correctness checking of complete sets of technology (vendor) specific and common system parameters (see 10.3);
- Data Storage (DS) mechanism, which optionally uploads or downloads parameters to the Master (see 10.4);
- Event Dispatcher (ED), supervising states and conveying diagnosis information such as notifications, warnings, errors, and Device requests as peripheral initiatives (see 10.5);
- Process Data Exchange (PDE) unit, conditioning the data structures for transmission in case of a sensor or preparing the received data structures for signal generation. It also controls the operational states to ensure the validity of Process Data (see 10.2).

These Device applications provide standard methods/functions and parameters common to all Devices, and Device specific functions and parameters, all specified within Clause 10.