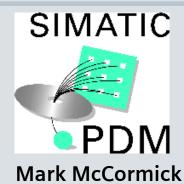
SIMATIC PDM (Process Device Manages) EMENS





Siemens Industry Automation & Drive Technology

Sensors & Communication

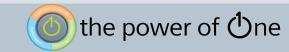
PDM is an EDD Interpreter (EDD = Electronic Device Description)

Each instrument has an EDD file that allows it to be configured using PDM

Device files are written in

Electronic Device Description Language





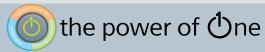
SIMATIC PDM – Installation/Commissioning.





- Setting PA node addresses.
- Scanning DP/PA bus for node status, and confirming bus structure.
- Configuring instruments over the bus.
- Copy & Paste of parameter sets to identical devices.
- Mapping of volume and flow characteristics.
- Simulation.
- Forcing Setpoint commands (Positioners, Actuators).
- Setting PA device to "Profile Specific".
- Saving of parameters (XML/HTML) at project hand-over phase.





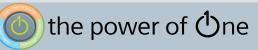
SIMATIC PDM – Runtime





- Change-out of PA instruments (download of parameters).
- Validation of bus fault messages (drill-down).
- Calibration.
- Online functions e.g. display/trending of real-time values.
- ■Monitoring of "raw" measured value (not just o/p of function blocks).
- Comparison of parameter sets.
- **■**Viewing of historical Min/Max data.
- Exporting data to Asset Management packages.
- Logging of changes, calibrations etc.



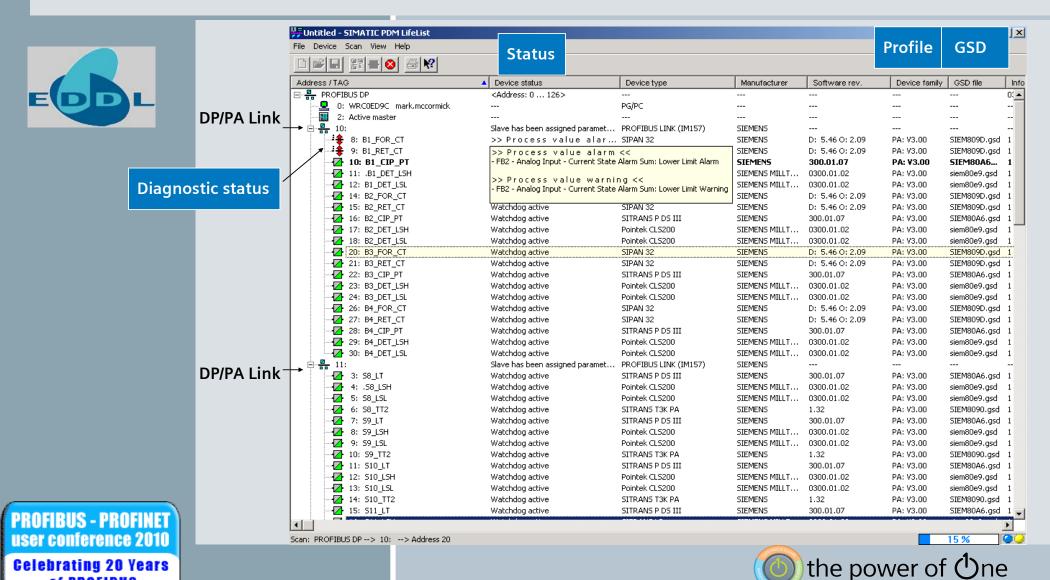


Lifelist View

of PROFIBUS

SIEMENS

→ Ideal for commissioning, service and maintenance



Status indication

→ Health monitor

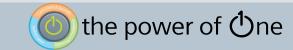




-	In the second se
Icon	Meaning
	No device type from the device catalog has been assigned to the device, or it is not activated.
<u> </u>	A device type from the device catalog could be assigned to the device, but there has not yet been any communication with the device.
×	Communication could not be established, was interrupted, or no communication with the device was possible by using the configured address.
×	The device contacted is not the same as the configured device, or the device configuration is incorrect (see Secure Communication).
	A fault occurred in the device (e.g. HW temperature too high).
J.	Immediate maintenance required to prevent a possible device fault from occurring.
.	Maintenance initial warning: maintenance should be scheduled.
: _* *	Maintenance initial warning: maintenance required to prevent a possible device fault from occurring.
***	The communication was good. The device is in manual operation.
*	The communication was good. The device is in simulated operation or is working with substitute values.
-2	The communication was good. The device is not in operation.
	The device is not functioning due to a configuration error in parameters or hardware components.

- 1		
1	Icon	Meaning
	<u></u>	The device is functioning, but one or more parameters are invalid. Instead of the invalid parameters substitute values are being used.
1		The parameters set for the device do not match the parameters in the project. Please read and heed the message texts
	:‡	At least one process value has overshot or undershot a process interrupt limit.
	: \$	At least one process value has overshot or undershot a process warning limit.
	-\$	At least one process value has overshot or undershot a process tolerance limit.
	-	The communication and the device status were good. There are no messages.
	-	The communication was good. The device does not support a diagnostic check.

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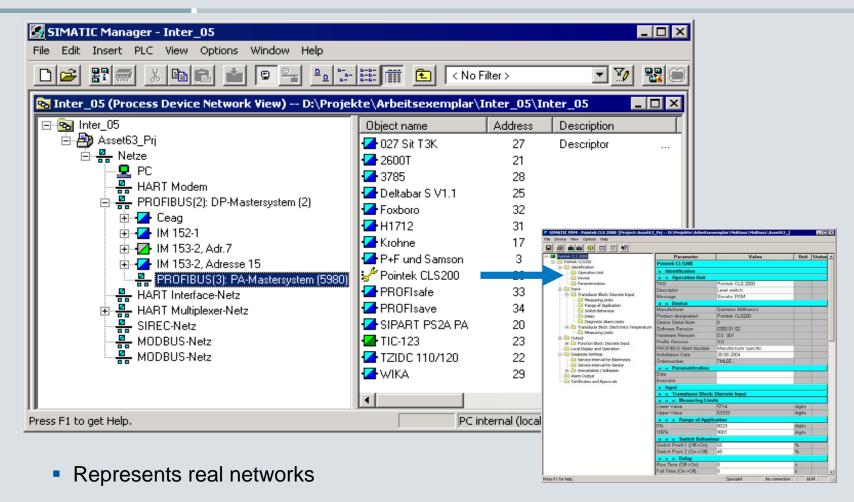


Process Device Network View

SIEMENS

→ For stand alone projects





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Structure can be imported from the Lifelist



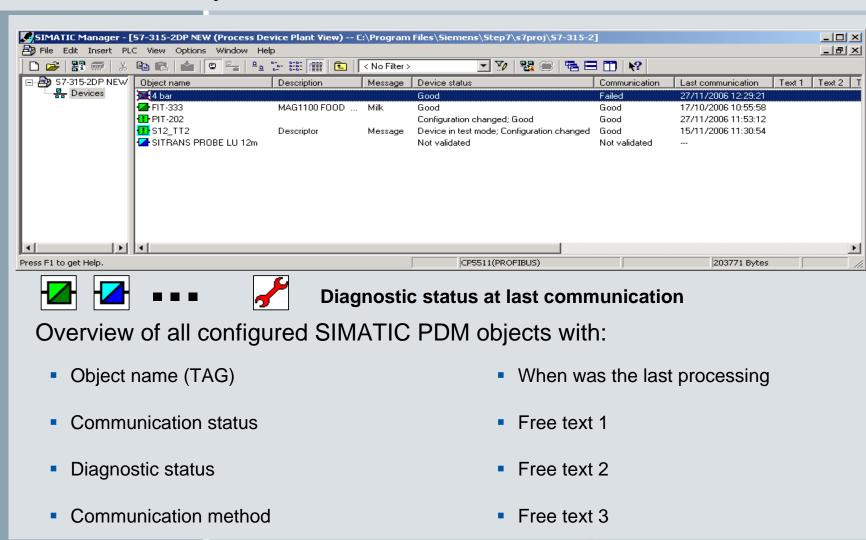
Process Device Plant View

SIEMENS

the power of One

→ Quick access by TAG





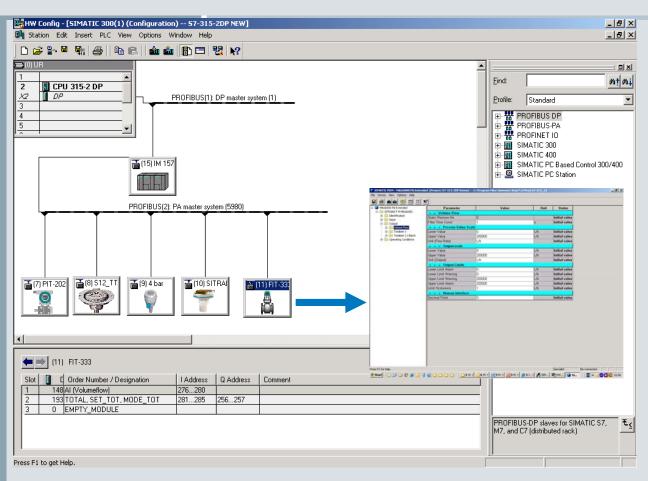
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Integrated in STEP7

SIEMENS

→ Centralised data





 Simatic PDM launched directly from hardware project view in Simatic S7 and Simatic PCS 7



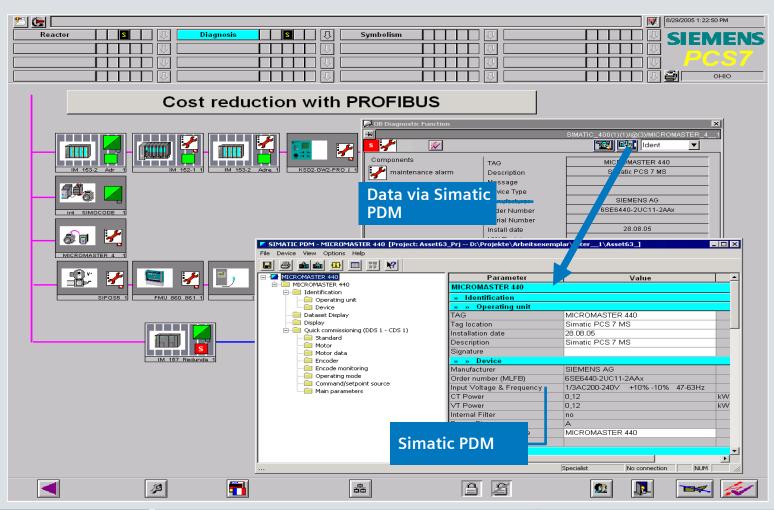


Asset Management in DCS

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→ Simatic PCS 7 Maintenance station





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