

The information you
need at your fingertips.



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services

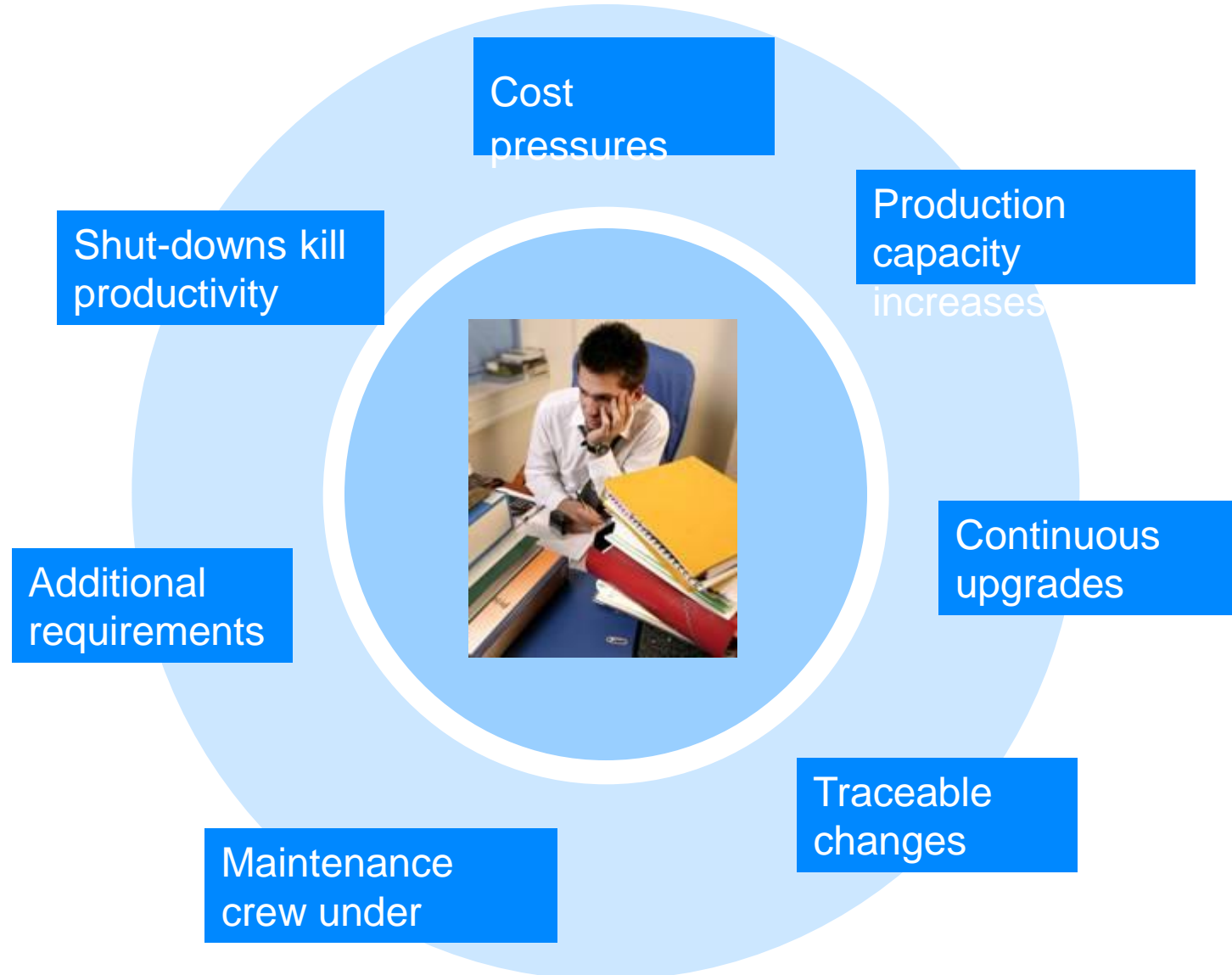


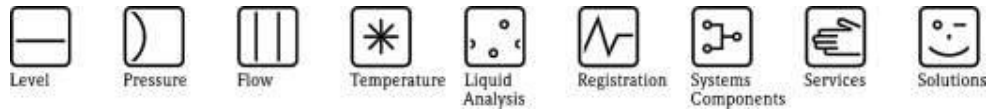
Solutions

W@M Life Cycle Management

Web enabled Asset Management

Today's Situation in a lot of process plants...

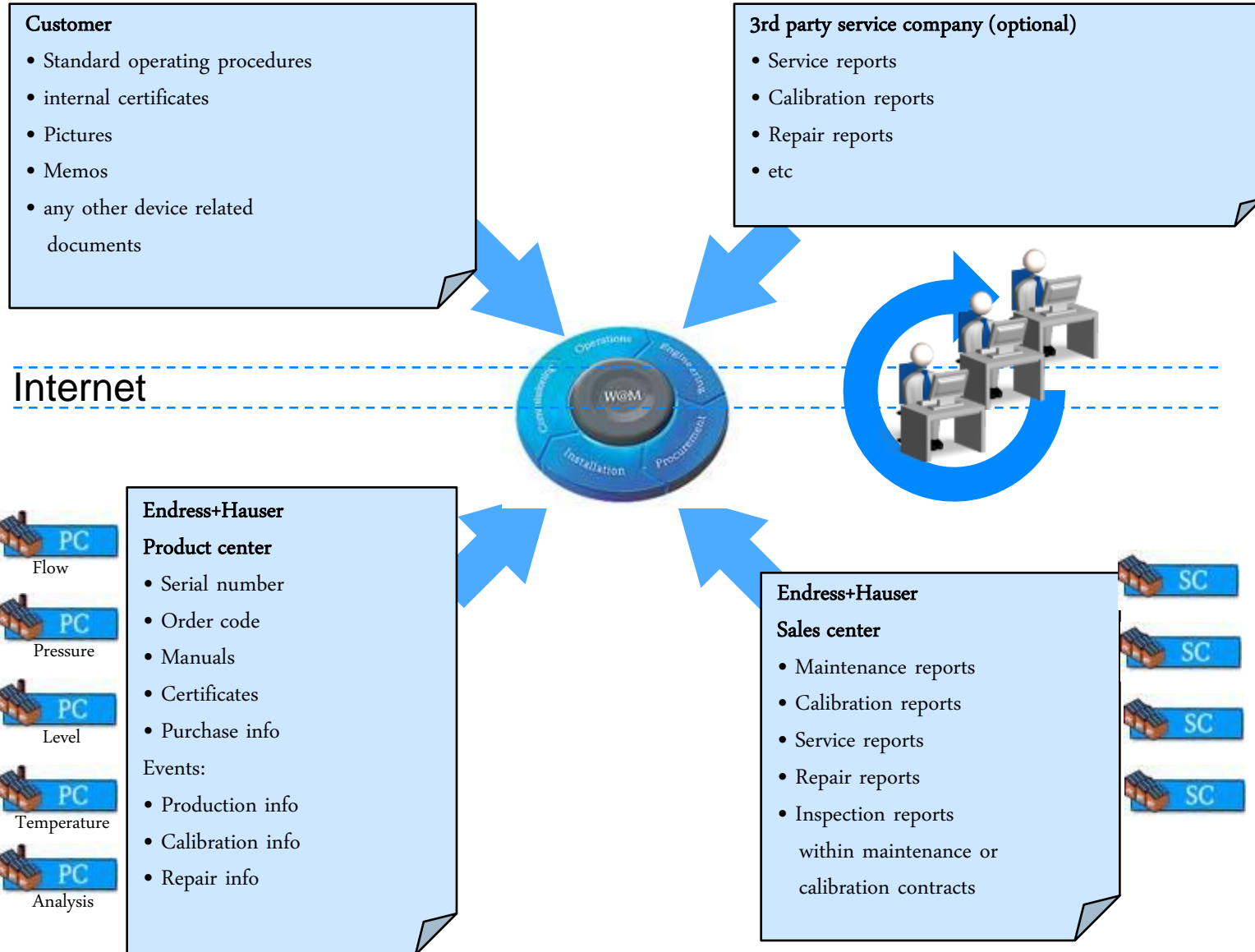




W@M Introduction



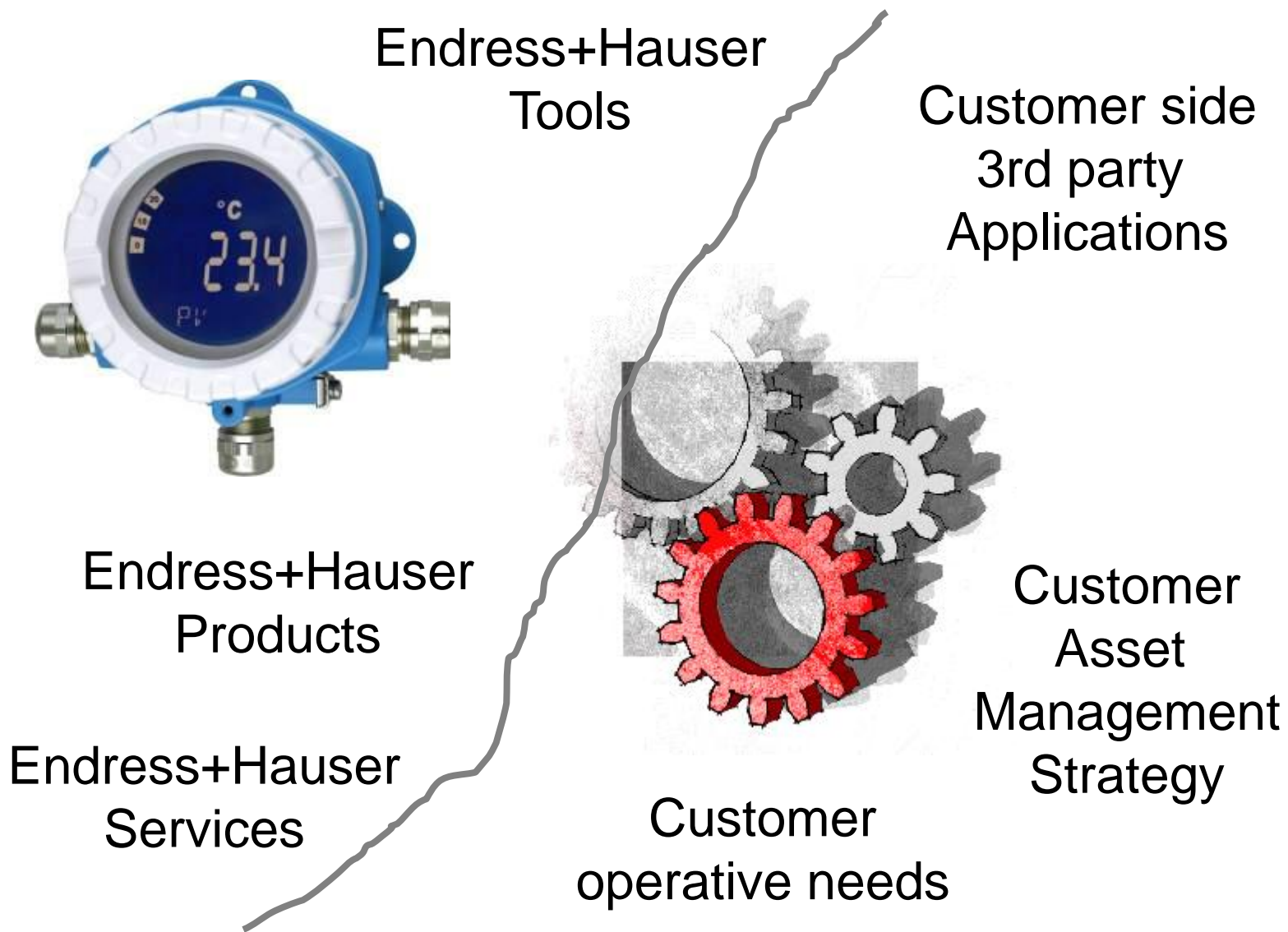
An open information platform



Ask yourself...

- How do you manage documentation?
- Do you have to follow international standards?
- Is traceability a topic?
- Do you have audits?
- Do you have an overview about the health of the installed base?
- Any experience with unplanned shutdowns?
- How do you plan maintenance activities?
- How much time do you need to find the right information about instrumentation?

Closing the gap between Customer and Supplier



The W@M Concept



W@M PORTAL



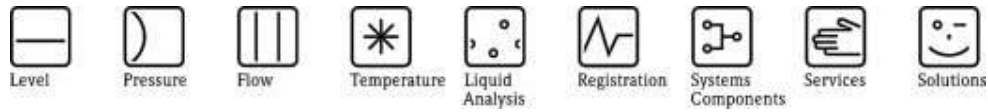
APPLICATOR



CONFIGURATOR



FIELD CARE



W@M

Product Portfolio



The W@M products

A unique range of internet based solutions, on site tools and services to support you along the life cycle of your plant.

W@M Portal

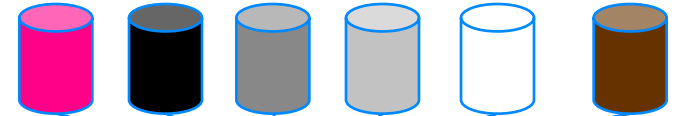
Web enabled asset management tool with 3rd party device integration, scheduling functions, product status information, spare part management and documentation management

W@M Enterprise

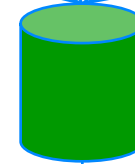
Same as W@M Portal but locally installed at customer or client/server based

The Common Equipment Record: CER

Many different databases
(Product status, spare parts, certificates,
etc.)



Linked via 1 central database
(Common equipment record)



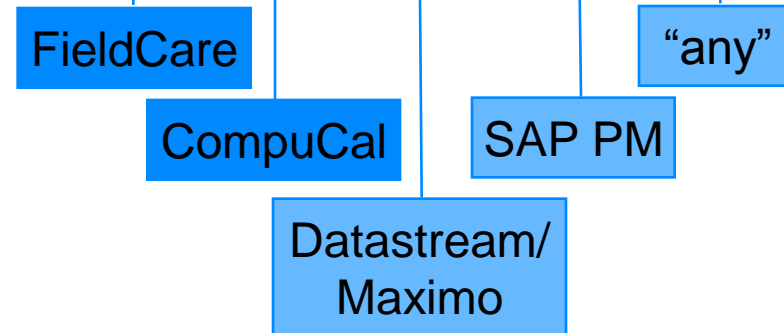
Made accessible via SAP
NetWeaver technology



A portal gives the customer access to
his device specific information



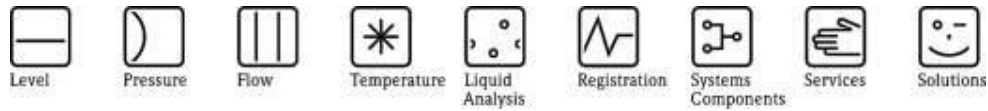
Existing onsite tools can access
our databases via Web Services



Security

- We built W@M on **SAP NetWeaver** technology
 - Reliable and robust platform
 - Open standards (JAVA, XML, WebServices...)
 - Flexibility to cope with future requirements
- Endress+Hauser InfoServe is a **certified SAP® Hosting Partner**
 - Data centers in Weil am Rhein and Freiburg
 - Profound SAP knowledge
 - Proven **backup and recovery** procedures, every night
 - High level of security, **SSL 128bit encrypted**
 - Multi-level firewall concept or protection of Internet attacks
 - Regular security audits conducted by independent persons



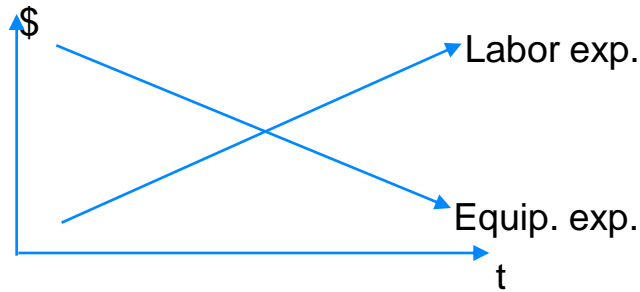


W@M Benefits

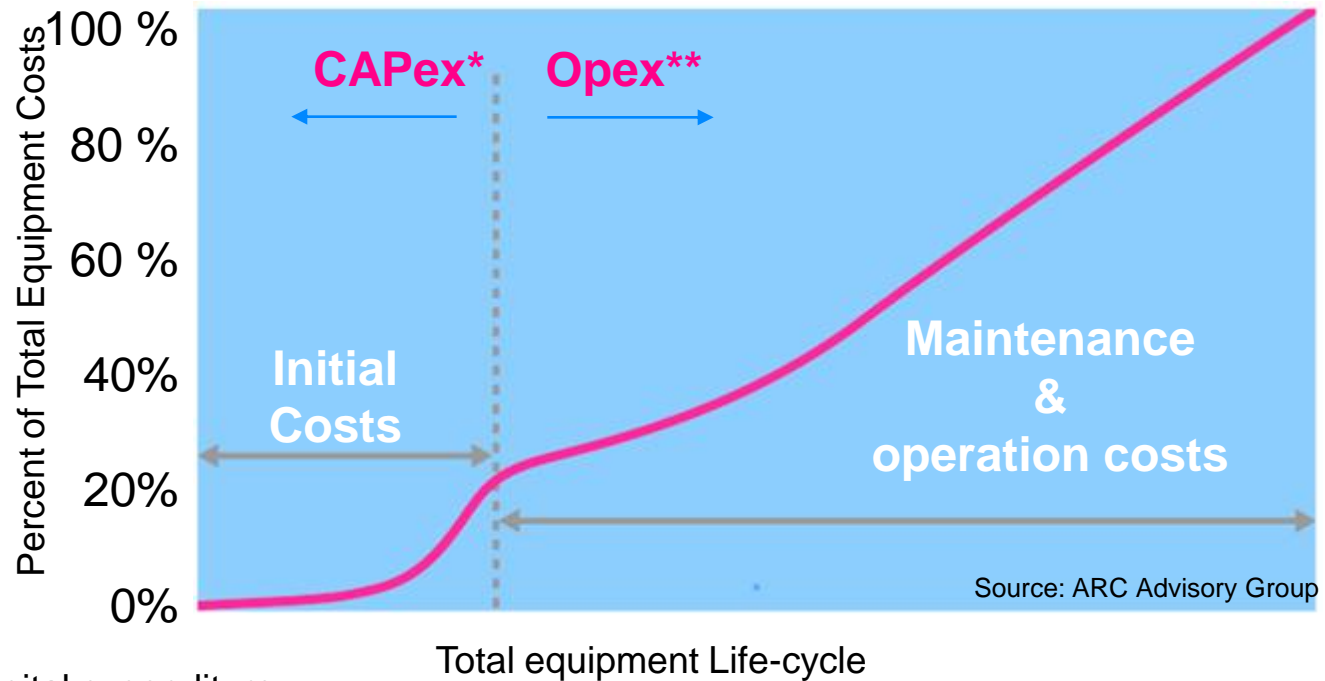
Cost saving potential



Different phases, different costs, different requirements



Information > Products



Source: ARC Advisory Group

* Capital expenditure
 ** Operational expenditure

W@M benefits

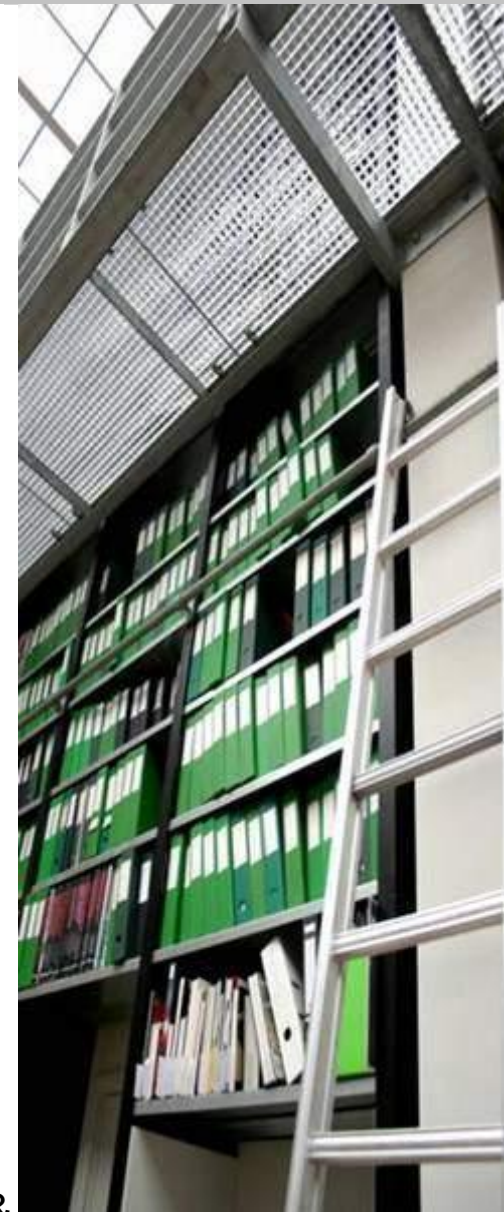
- Reduces time and money used for installed base

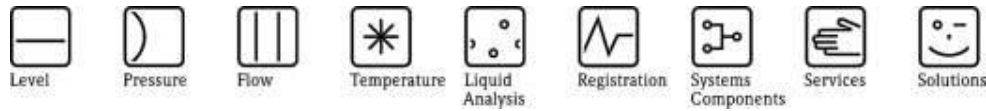


- W@M can be connected to existing systems (e.g. SAP, IBM/Maximo, Infor/Datastream, etc)

Information at your fingertips

- Documentation
 - User manuals, Technical information, Safety statements
- Manufacturer certificates and device attachments
 - Safety, Calibration certificate, 3.1b Material certificate, parameter settings, viscosity/density certificate, original spec sheets
- Product status
 - Software version, product condition in process, product availability at supplier, successor information
- Spare part information
 - Spare part drawings, Device specific spare part lists
- Product history
 - Calibration events, Service events, Maintenance events, commissioning reports, etc., production &





Integration into existing systems



Integration into existing Maintenance Management Systems

- Many existing tools in the market
- Often empty shell / no information included
- Add value to existing tools
- Using web-services for information transfer

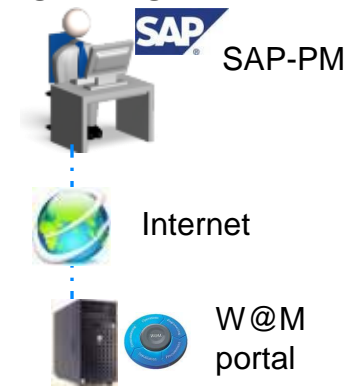


SAP-PM link



- Integration based on link logic in SAP
- Integration can be done by Endress+Hauser (InfoServe) or by customers SAP specialists
- Costs: 1 man day

Single logon



The screenshot displays the SAP-PM interface. On the left, the 'Display Equipment: General data' window shows details for equipment 1000009, a Microplot M FMR230. A blue box highlights the 'W@M' button. On the right, the 'People for Process Automation' portal shows a navigation tree for 'Chocolate Company' and a detailed view of a device with the following data:

TAG	FMR230-12DYY9AA2A
Order code	FMR230-12DYY9AA2A
Device type	Microwave Level Measurement
Manufacturer	Endress+Hauser
Open tasks (0)	
Serial number	4200200108B
Order code	FMR230-12DYY9AA2A
Short name	Microplot M FMR 230
Device type	Microwave Level Measurement
Manufacturer	Endress+Hauser
Date of manufacture	2002
Software version	
Equipment remarks	
Measuring range	
Measuring task	
Environment conditions	Not defined
Criticality	Not defined
Risk of maintainability	Low
Product Status	Available

Maximo 6 ES integration



Single logon 



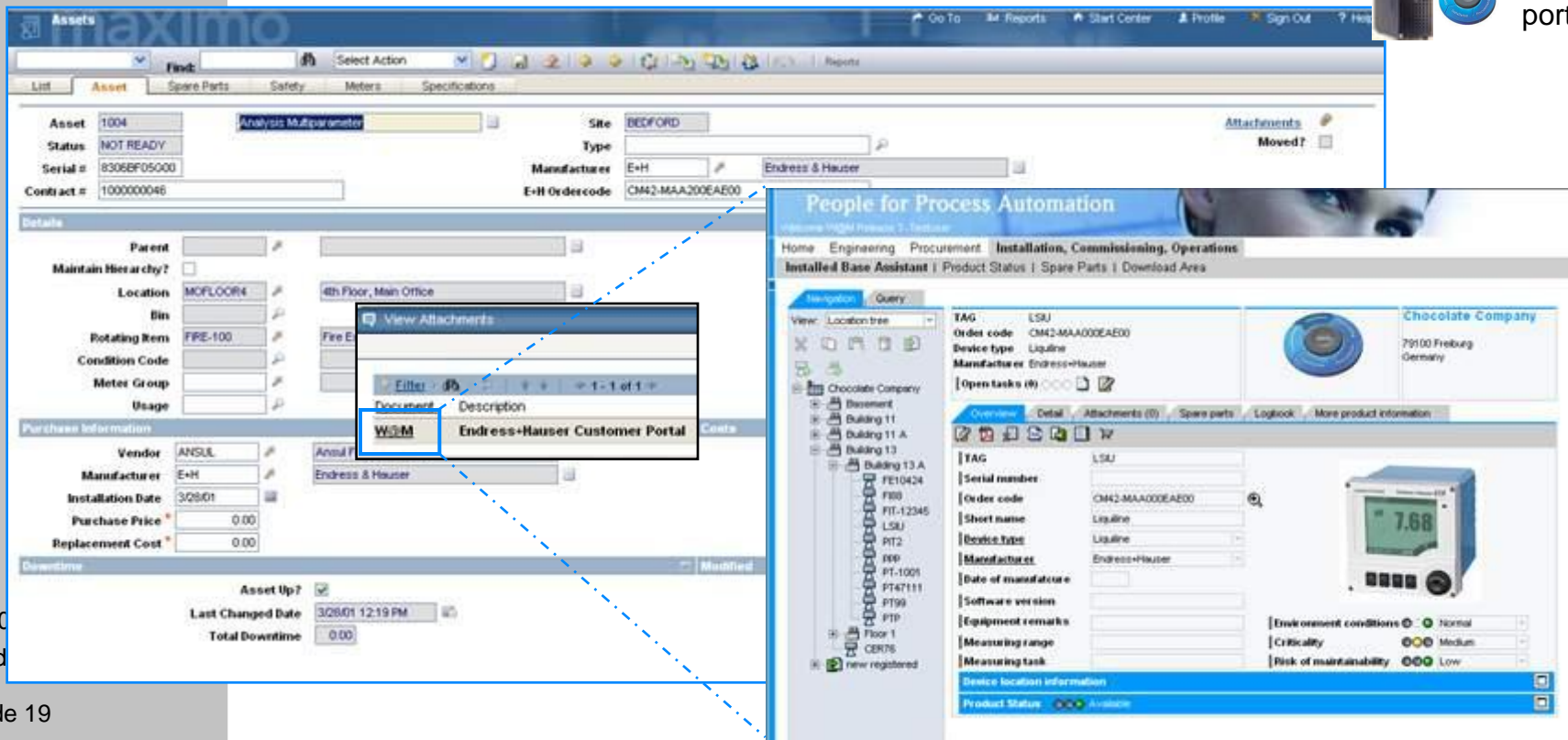
Maximo ES 6



Internet



W@M portal



The screenshot displays the IBM Maximo 6 ES interface. On the left, the 'Assets' section shows details for asset ID 1004, including its status (NOT READY), serial number (8306BF05000), and manufacturer (Endress & Hauser). A 'View Attachments' window is open, showing a list of documents with a 'W@M' link highlighted. On the right, the 'People for Process Automation' interface is visible, showing a navigation tree and a detailed view of a device (TAG: LSU) with various attributes like order code, device type, and manufacturer. A small image of a device with a display showing '7.68' is also present.

Datastream 7i integration

Single logon



Infor EAM 7i



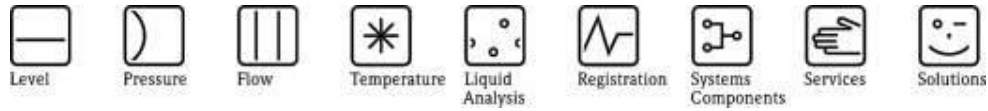
Internet



W@M portal

The screenshot displays two overlapping web application interfaces. The left interface is the Datastream 7i portal, showing a detailed view for 'Asset 3407E202000 Coriolis Mass Flow Measurement'. It includes fields for Department (MAIN), Commission Date (01-FEB-2006), and various tracking details like Manufacturer (ENDRESS) and Order number (83F15-AD2SAAACA2AK). The right interface is the 'People for Process Automation' portal, featuring a navigation tree on the left and a main content area with a 'TAG' summary (20FT1002) and a detailed data table. The data table includes fields like Serial number (3407E202000), Order code (83F15-AD2SAAACA2AK), and Manufacturer (Endress+Hauser). A 'Multi vendor Practice Plant' section is also visible on the right side of the second interface.

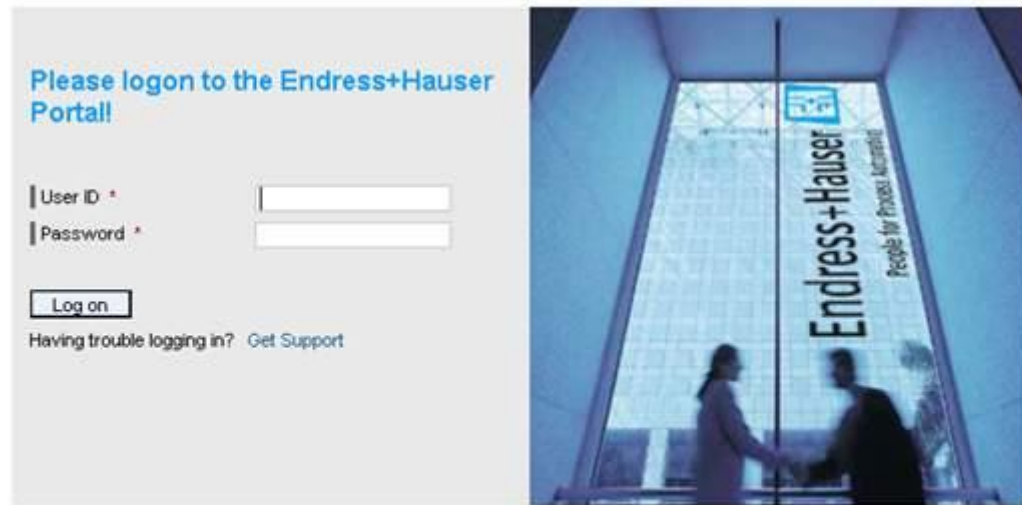
Field	Value
TAG	20FT1002
Serial number	3407E202000
Order code	83F15-AD2SAAACA2AK
Short name	Proline Promass 83
Device type	Coriolis Mass Flow Measurem
Manufacturer	Endress+Hauser
Date of manufacture	
Software version	
Equipment remarks	
Measuring range	
Measuring task	



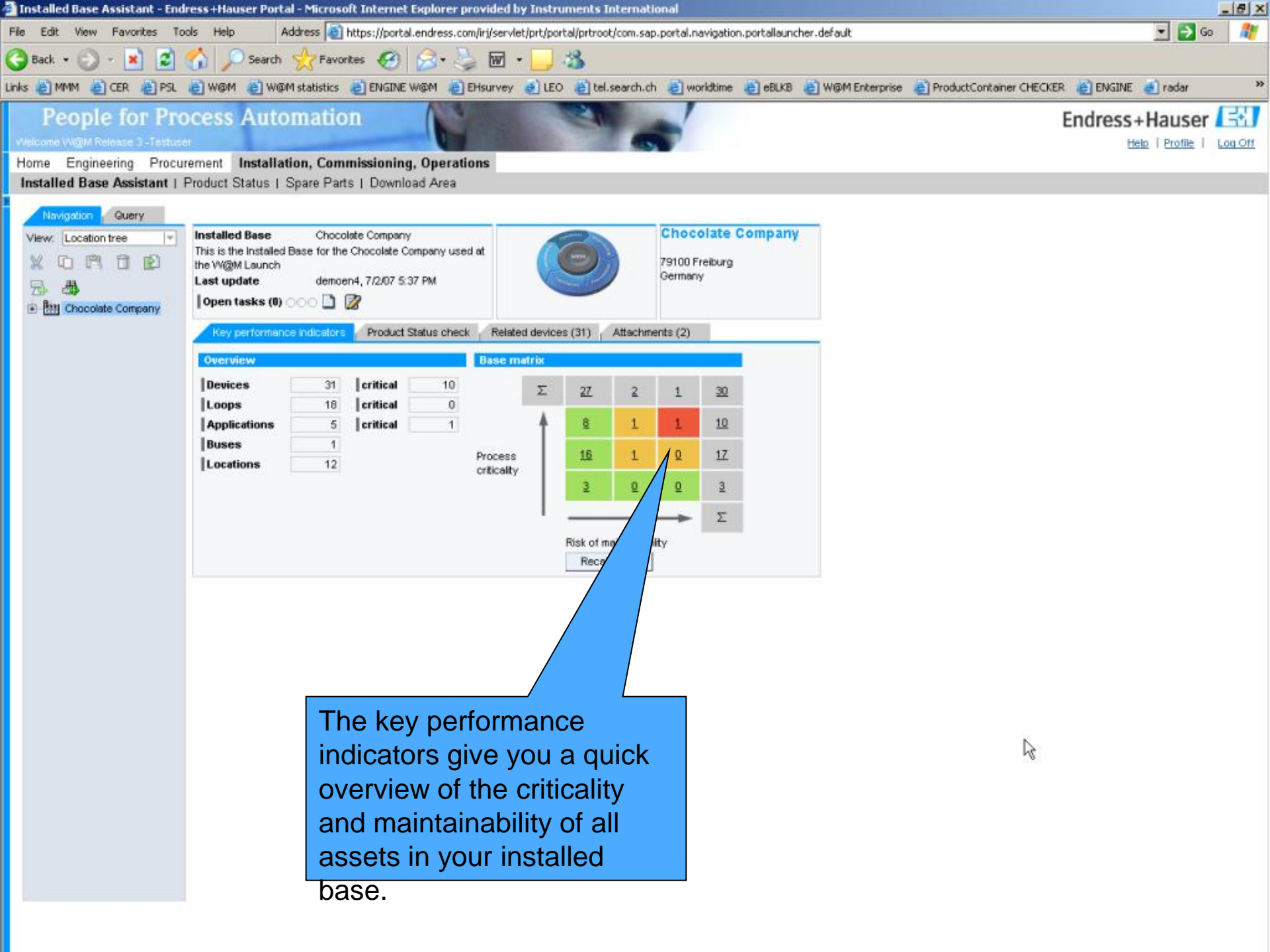
W@M Portal: demonstration



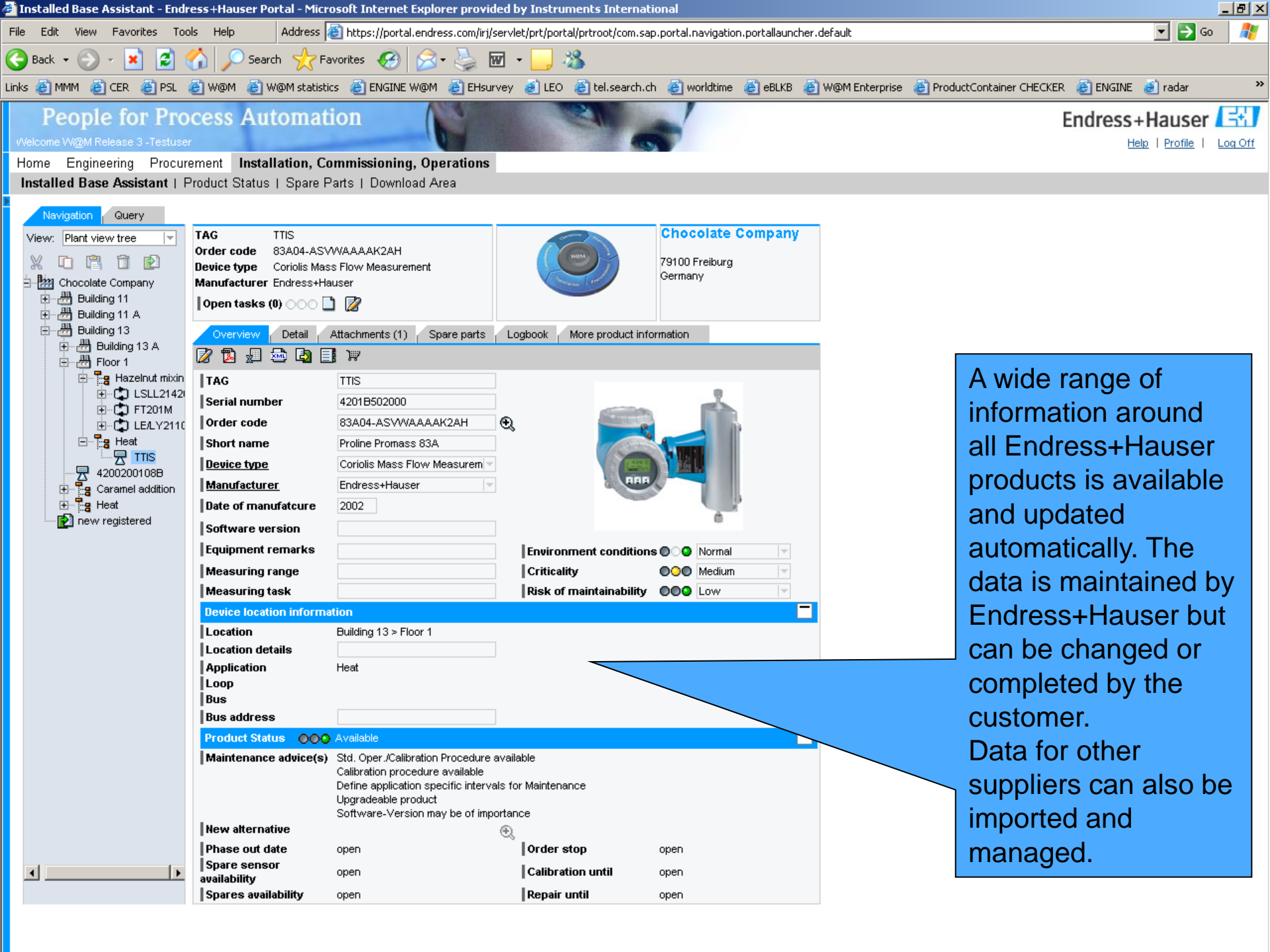
W@M Portal: demonstration



Click on the image



The key performance indicators give you a quick overview of the criticality and maintainability of all assets in your installed base.



People for Process Automation

Endress+Hauser

[Help](#) | [Profile](#) | [Log Off](#)

Home Engineering Procurement **Installation, Commissioning, Operations**

Installed Base Assistant | Product Status | Spare Parts | Download Area

Navigation Query

View: Plant view tree

- Chocolate Company
 - Building 11
 - Building 11 A
 - Building 13
 - Building 13 A
 - Floor 1
 - Hazelnut mixin
 - LSLL2142
 - FT201M
 - LELY2110
 - Heat
 - TTIS**
 - 4200200108B
 - Caramel addition
 - Heat
 - new registered

TAG TTIS
Order code 83A04-ASVWAAA...AK2AH
Device type Coriolis Mass Flow Measurement
Manufacturer Endress+Hauser
Open tasks (0)



Chocolate Company

79100 Freiburg
Germany

Overview Detail Attachments (1) Spare parts Logbook More product information

TAG TTIS
Serial number 4201B502000
Order code 83A04-ASVWAAA...AK2AH
Short name Proline Promass 83A
Device type Coriolis Mass Flow Measurem
Manufacturer Endress+Hauser
Date of manufacture 2002
Software version
Equipment remarks
Measuring range
Measuring task



Environment conditions Normal
Criticality Medium
Risk of maintainability Low

Device location information

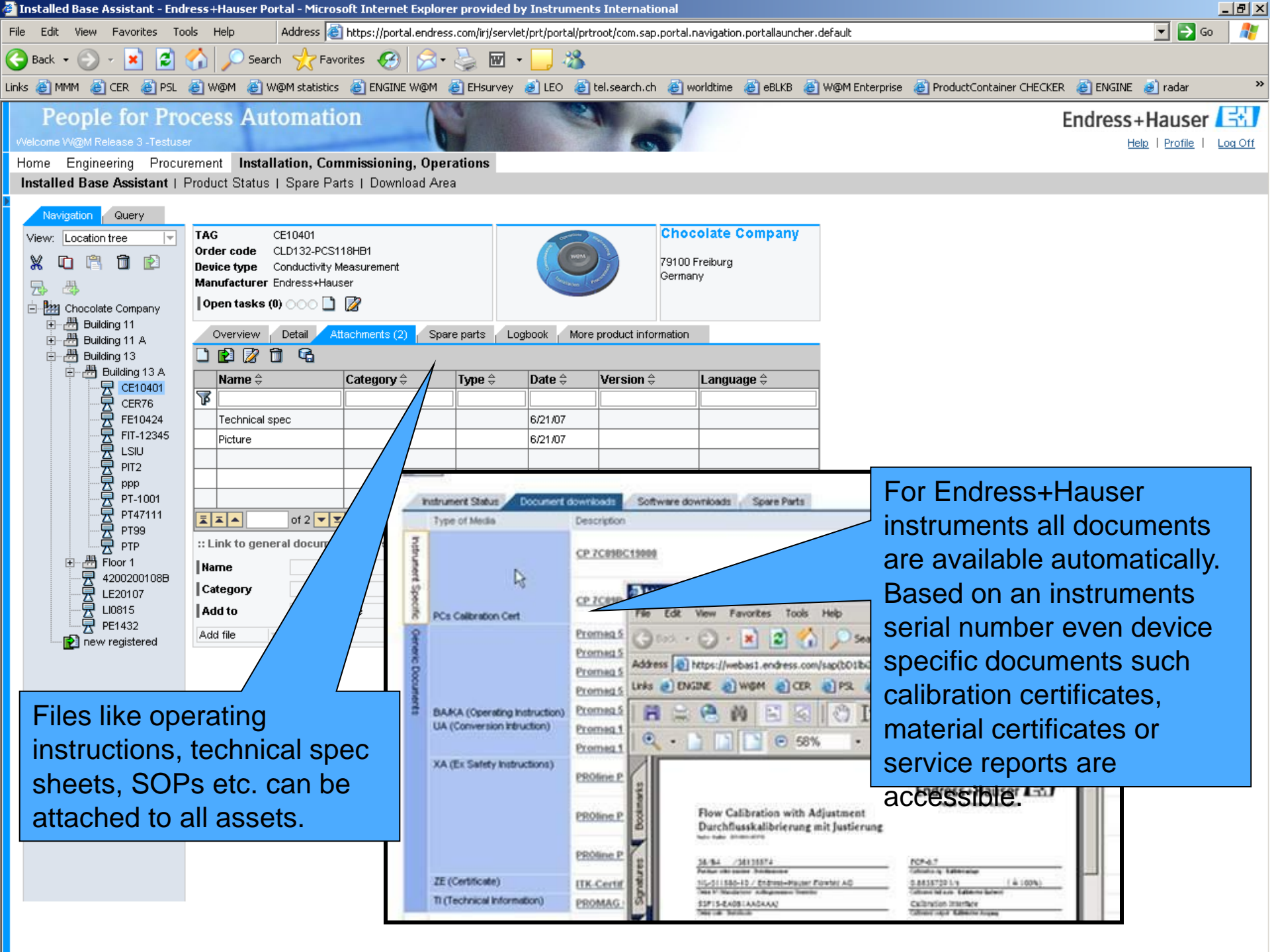
Location Building 13 > Floor 1
Location details
Application Heat
Loop
Bus
Bus address

Product Status Available

Maintenance advice(s)
Std. Oper ./Calibration Procedure available
Calibration procedure available
Define application specific intervals for Maintenance
Upgradeable product
Software-Version may be of importance

New alternative
Phase out date open
Spare sensor availability open
Spares availability open
Order stop open
Calibration until open
Repair until open

A wide range of information around all Endress+Hauser products is available and updated automatically. The data is maintained by Endress+Hauser but can be changed or completed by the customer. Data for other suppliers can also be imported and managed.



People for Process Automation Endress+Hauser
Welcome W@M Release 3 - Testuser
Home Engineering Procurement **Installation, Commissioning, Operations**
Installed Base Assistant | Product Status | Spare Parts | Download Area

Navigation Query

View: Location tree

- Chocolate Company
 - Building 11
 - Building 11 A
 - Building 13
 - Building 13 A
 - CE10401**
 - CER76
 - FE10424
 - FIT-12345
 - LSIU
 - PIT2
 - ppp
 - PT-1001
 - PT47111
 - PT99
 - PTP
 - Floor 1
 - 4200200108B
 - LE20107
 - LI0815
 - PE1432
 - new registered

TAG CE10401
Order code CLD132-PCS118HB1
Device type Conductivity Measurement
Manufacturer Endress+Hauser
Open tasks (0)

Chocolate Company
79100 Freiburg
Germany

Overview Detail **Attachments (2)** Spare parts Logbook More product information

Name	Category	Type	Date	Version	Language
Technical spec			6/21/07		
Picture			6/21/07		

Instrument Status Document downloads Software downloads Spare Parts

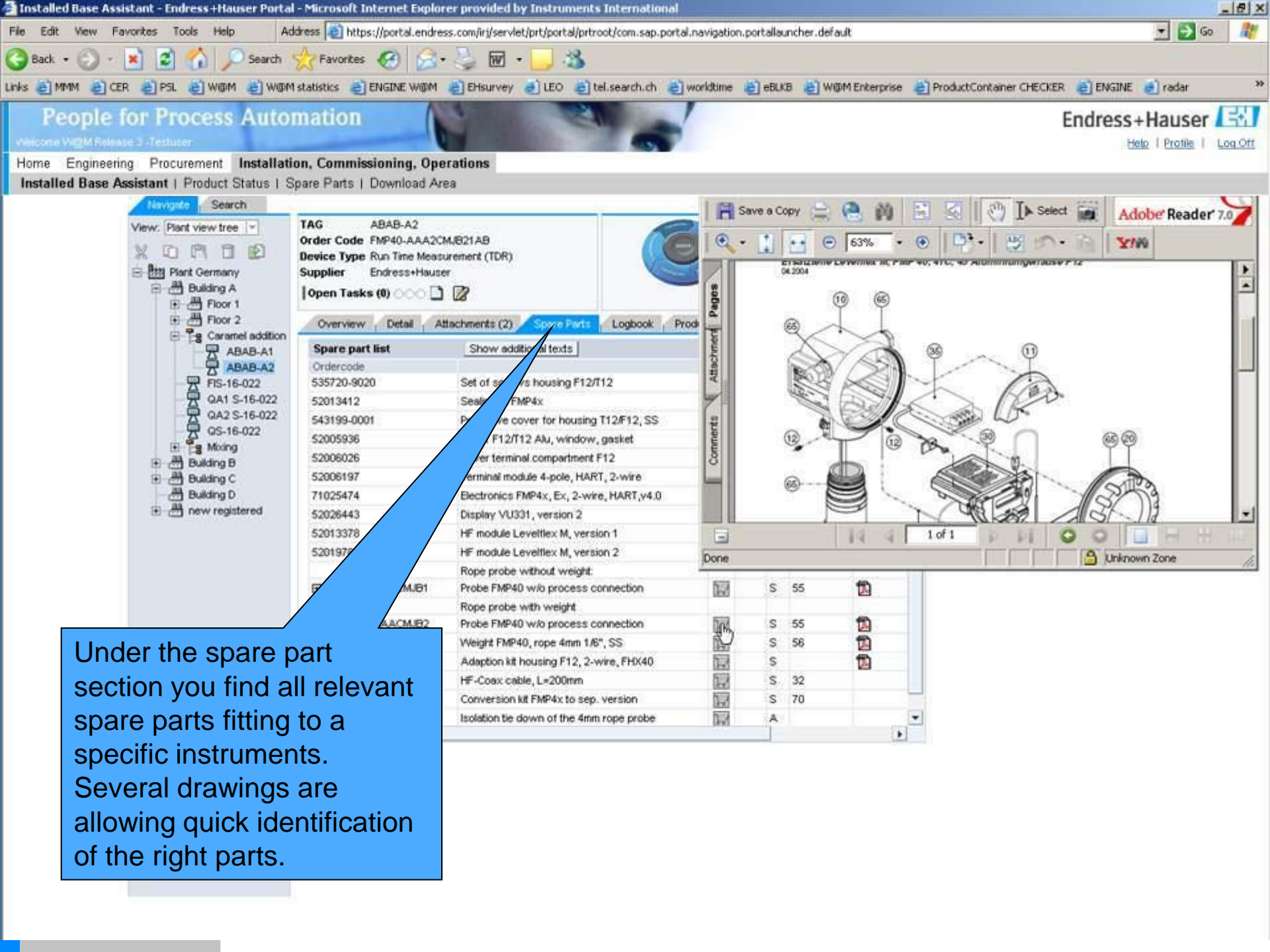
Type of Media	Description
Instrument Specific	CP.ZC99BC19000
Generic Documents	CP.ZC99BC19000
PCs Calibration Cert	Promag.5
BAKA (Operating Instruction)	Promag.5
UA (Conversion Instruction)	Promag.5
XA (Ex Safety Instructions)	Promag.5
ZE (Certificate)	Promag.1
TI (Technical Information)	Promag.1

Flow Calibration with Adjustment
Durchflusskalibrierung mit Justierung

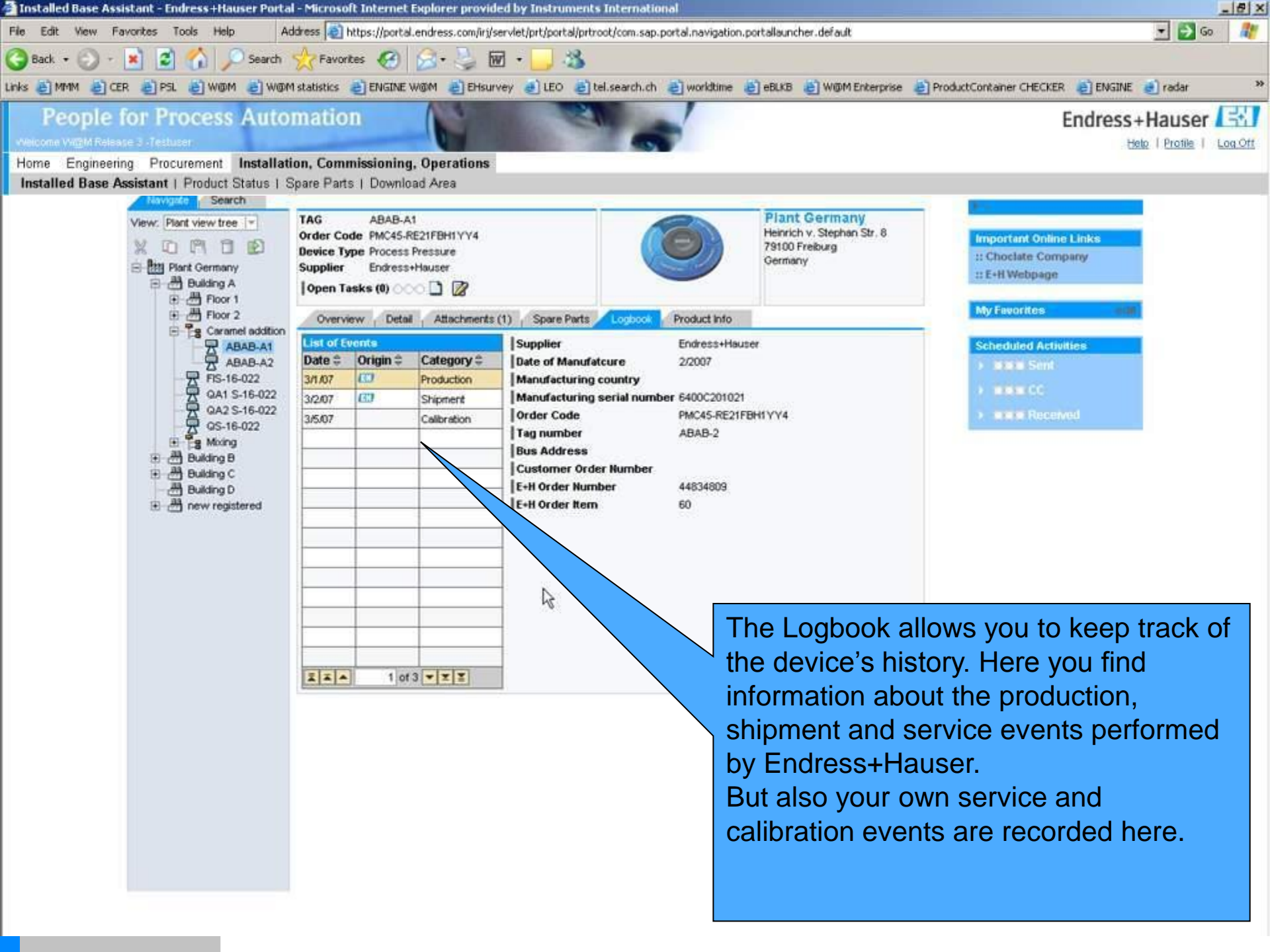
38.84 / 3811874
PCF-6.7
Calibration Certificate
3811874 / 3811874 (1.000%)
Calibration Interval
Calibration Interval

Files like operating instructions, technical spec sheets, SOPs etc. can be attached to all assets.

For Endress+Hauser instruments all documents are available automatically. Based on an instruments serial number even device specific documents such calibration certificates, material certificates or service reports are accessible.



Under the spare part section you find all relevant spare parts fitting to a specific instruments. Several drawings are allowing quick identification of the right parts.



TAG ABAB-A1
Order Code PMC45-RE21FBH1YY4
Device Type Process Pressure
Supplier Endress+Hauser
Open Tasks (0)



Plant Germany
Heinrich v. Stephan Str. 8
79100 Freiburg
Germany

Overview Detail Attachments (1) Spare Parts Logbook Product Info

Date	Origin	Category
3/1/07	EH	Production
3/2/07	EH	Shipment
3/5/07		Calibration

Supplier Endress+Hauser
Date of Manufacture 2/2007
Manufacturing country
Manufacturing serial number 6400C201021
Order Code PMC45-RE21FBH1YY4
Tag number ABAB-2
Bus Address
Customer Order Number
E-H Order Number 44834809
E-H Order Item 60

The Logbook allows you to keep track of the device's history. Here you find information about the production, shipment and service events performed by Endress+Hauser. But also your own service and calibration events are recorded here.

Summary

W@M helps to optimize processes and to raise the device availability as well as the plant operation duration. The strength of W@M lays in the efficient management of the installed base.

- Manage multiple

- Around-

- Informat

- Easy int products

- Integrati



also across

access

ole

ol technology

olutions

Target: to reduce costs

Competence is knowing
how it all fits together.



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Thank you!

Questions?