



EAM Integration @ WEPA - Interface to Subsystems

CT March 2018 Infor EAM User Group Meeting – DACH @ CERN

Agenda

1| Intro

2| EAM @ WEPA

2.1| EAM Application area

2.2| EAM Implementation

2.3| Asset structure

2.4| Status of implementation

3| EAM Integration to Subsystems

As a family business, we have been producing and selling passion for tissue since 1948

Key facts



Company philosophy

- Passion for Tissue
- Family business built on tradition since 1948
- Equality of value and profit orientation.
Our Values: Respect, Commitment, Sustainability
- High market and customer orientation
- Cost leadership



Organisation

- 12 locations in Europe with 800,000 t production capacity (incl. JV in UK)
- 3,500 committed employees
- Board:
Martin Krenzel (CEO),
Walter Hirner,
Ralph Dihlmann,
Dr. Hendrik Otto



Market position

- 25% market share in Germany (Top 2)
- 7% market share in Europe (Top 3)
- 1bn EUR turnover
- Challenges:
 - Capital intensive
 - High power of demand
 - Energy intensive



Products/business units

- Hygiene paper made from pulp and recycling fibers
- Products from the entry-level price category through to premium products
- Two business units:
Consumer and
Away-from-Home (“AfH”)

With our 12 sites in Europe, we are strategically close to our customers

Twelve plants in six European countries



1

Arnsberg-Müschede
Germany

65,000 t | 490 (incl. HQ)



5

Leuna
Germany

65,000 t | 200



9

Lille
France

92,000 t | 395



2

Marsberg-Giershagen
Germany

125,000 t | 485



6

Piechowice
Poland

65,000 t | 430



10

Troyes
France

32,000 t | 220



3

Kriebstein
Germany

85,000 t | 185



7

Lucca
Italy

62,000 t | 325



11

Bridgend (UK)
UK

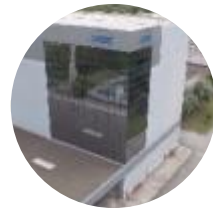
52,000 t | 230



4

Mainz
Germany

58,000 t | 195



8

Cassino
Italy

52,000 t | 155



12

Swalmen
The Netherlands

46,000 t | 200

Production capacity | Employees



With our two business units Consumer and Away-from-Home we serve our European customers with hygiene paper products

Two business units

Consumer



- Toilet paper
- Kitchen towels
- Napkins

- Facial tissue
- Handkerchiefs

Mainly as
Private Labels

Away-from-Home



- Toilet paper
- Kitchen towels
- Hand towels

- Cleaning rolls
- Dispenser systems

Mainly as
WEPA and
Satino brand

Product Examples

Product Portfolio

Customers

End Market

Strategic Focus

Turnover Proportion

European retailers

Consumer

Specialised in Private Label development with customers

approx. 80%¹

Specialised distributors

Governmental authorities, hotels, restaurants, hospitals, private enterprises

Supplier of washroom systems and solutions

approx. 20%¹

¹ represents proportion of revenues from finished goods

Paper Making



Paper Converting



Licence distribution

License	Type	Actual ordered amount
Infor EAM Enterprise Edition - MS SQL (Full integrated use of EAM)	NU	88
Infor EAM Enterprise Edition Requestor (Especially for work requests)	NU	1.825
Infor EAM Enterprise Edition Mobile (Especially for blue collar maintenance)	DV	132

Definition of the two different license types:

1) **NU** (Named User):

- Up to the maximum number of users, individual, named users can access EAM.
- Regardless of whether such a user has logged into the module system at any time.

2) **DV** (Device)

- In this case, the workstation, which is connected to EAM, is licensed.
- The number of users accessing the workstation is unlimited.

User group model

User Group and type of license	Workstation	Role	Responsibilities
REQUESTER (NU REQ)	<ul style="list-style-type: none"> Notebook/PC 	<ul style="list-style-type: none"> Process-Ing. Production Production Leader Safety-Manager 	<ul style="list-style-type: none"> Reduced complexity Creating work requests (ONLY) Full traceability of each work request to a work order
EMPLOYEE (DV)	<ul style="list-style-type: none"> Mobile Device 	<ul style="list-style-type: none"> Blue-collar maintenance Team leader Production Dedicated Blue-collar production (TPM) (Future Concept) integrate contractors 	<ul style="list-style-type: none"> ... Receiving of work orders Confirming of work orders Documentation by taking pictures Working with digitized checklists
LEADER (NU + DV)	<ul style="list-style-type: none"> Notebook/PC Mobile Device 	<ul style="list-style-type: none"> Team leader el./mech. maintenance Spare part-Manager Maintenance Planner & Process-Eng. Maintenance 	<ul style="list-style-type: none"> ... Allocation of work orders to a job or directly to a person Generation of preventive maintenance orders Checking and closing of done work orders by user group EMPLOYEE Department evaluation by KPI's
ADMIN_MILL (NU + DV)	<ul style="list-style-type: none"> Notebook/PC Mobile Device 	<ul style="list-style-type: none"> Maintenance-Manager Key-User of the Mill 	<ul style="list-style-type: none"> ... Administration and support at mill level

Mobile Application

- Use as an **on-site work tool** without having to rely on a fixed PC workstation.
- Visualization of work orders by **taking pictures** (for documentation)
- Using as **online/offline** device (W-LAN/LAN)
- Produced by military standard **MIL-STRD-810G** to work in a rough environment
- Well implemented Mobile Device to read **QR and Bar-Code** labels
- Current study on the use of **RFID** tags in "unfriendly environment" (see ppt "Easier data input by RFID")
- One foot print to **TPM**
- One small step to **industry 4.0**



How to link the structure of the ERP and EAM

The reporting-structure needs to be & keeping aligned

Level EAM & JDE	1	2	3	4	5	6	
EAM Object type	Location	System	System	System	System	System	Operating Equipment
Description	Mill	Mill Section	Functional Location	Equipment	Sub Equipment	Component	Maintainable Item
JDE @Wepa	Site	Cost-Center		Subline		Spare Part	

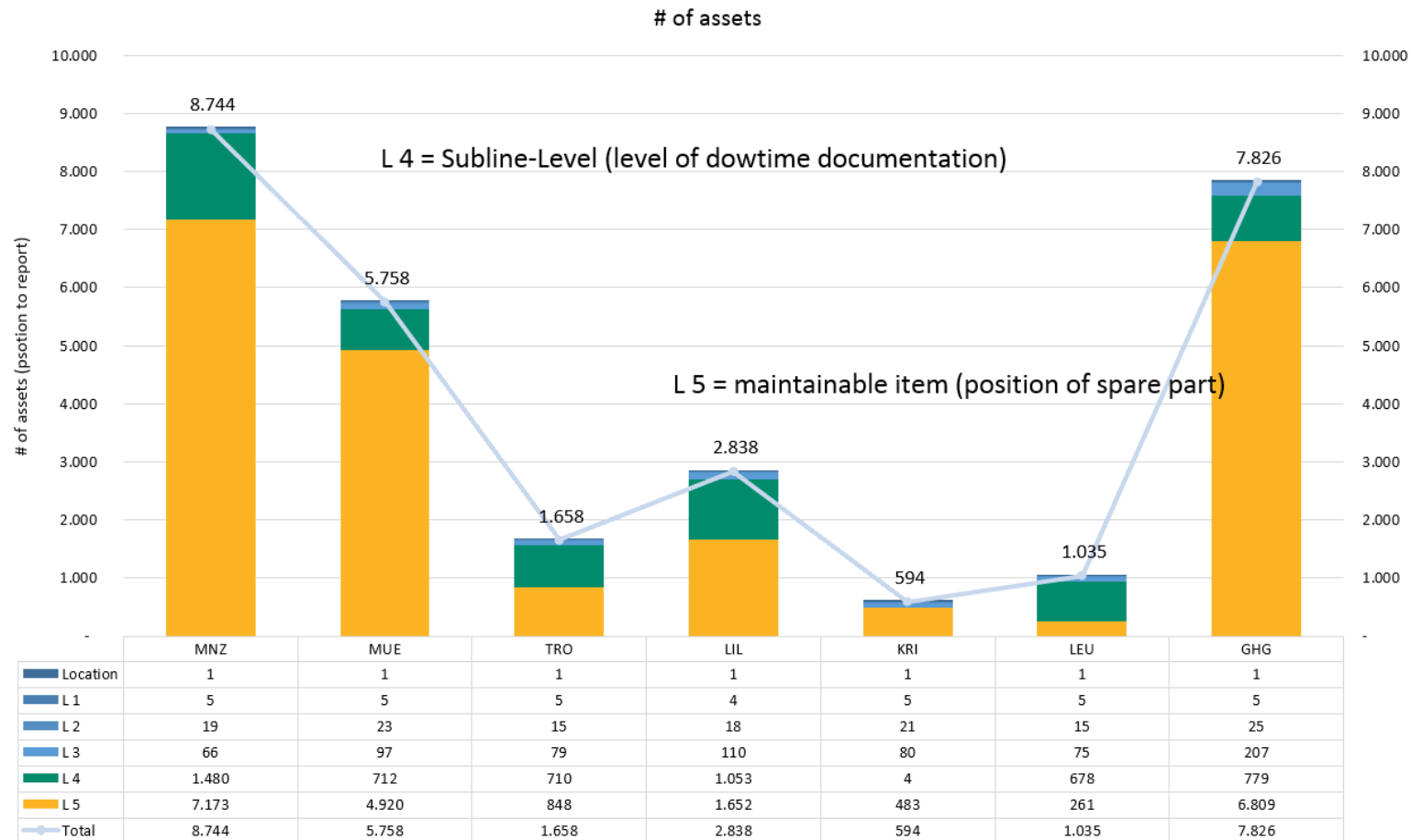
Line 903– Unwinder 1 → C-903-340-B01

- C Converting (Mill Section)
- 903 Line 903 (Unwinding → Palettizer) (Functional Location)
- 340 Converting Machine (Unwinding → Log Saw) (Equipment)
- B01 Unwinding Unit 1 (Sub Equipment)



How concrete events can be booked to the "location"

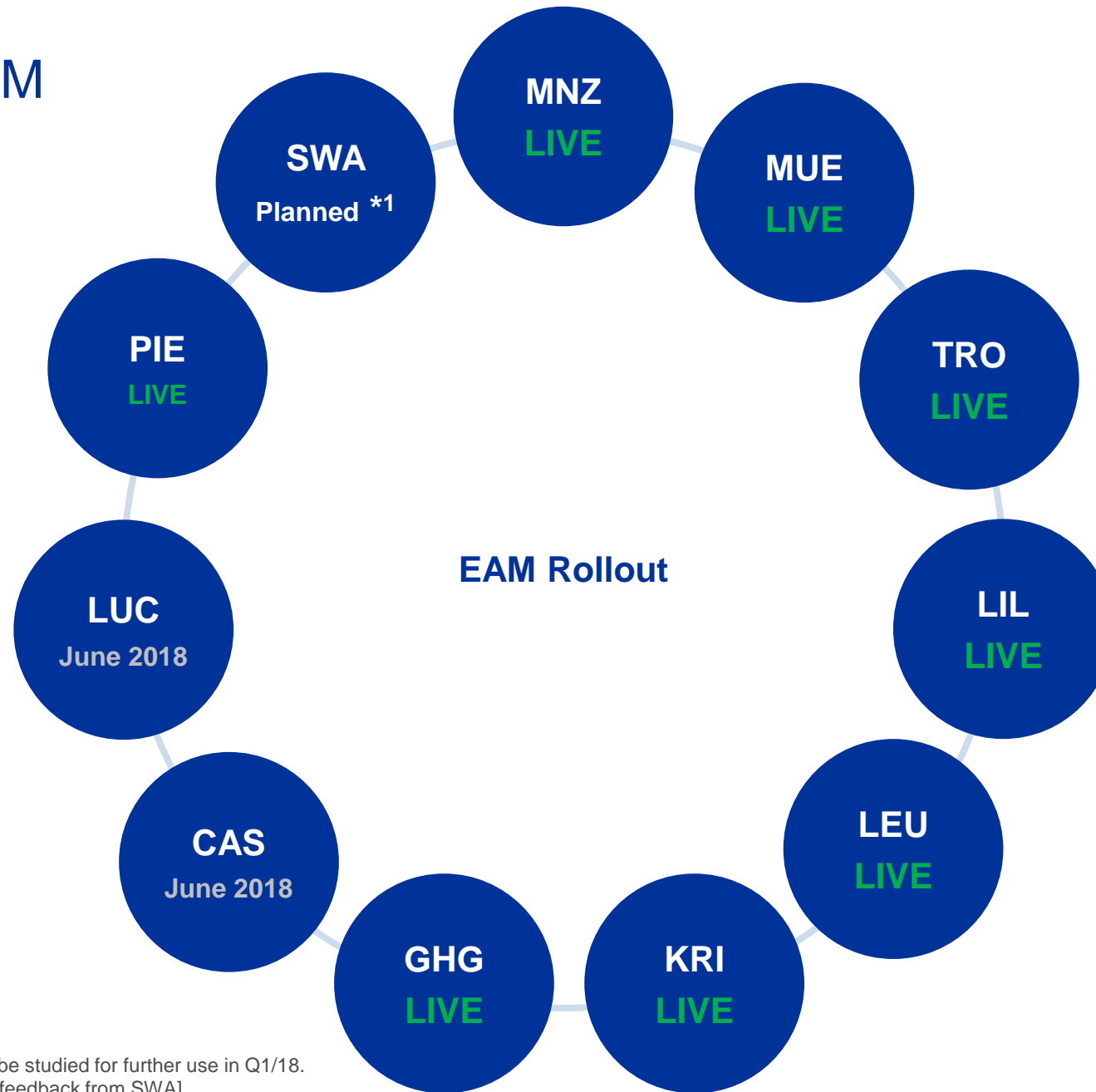
- Reporting of events on/at location, L1, L2, L3 is critical!
- Cost-Center = L2 e.g. Line 719



organisation	reports / Level YTD 2017						Total
	Location	L 1	L 2	L 3	L 4	L 5	
MNZ	1	481	746	640	2.931	1.667	6.466
MUE	97	1.030	1.795	956	1.555	976	6.409
TRO	1	137	192	437	1.711	1.715	4.193
LIL	304	117	321	521	3.449	4.340	9.052
KRI	1	35	139	79	224	1.126	1.604
LEU	1	98	139	352	2.393	827	3.810
GHG	1.581	15	210	2.007	5.563	5.301	14.677

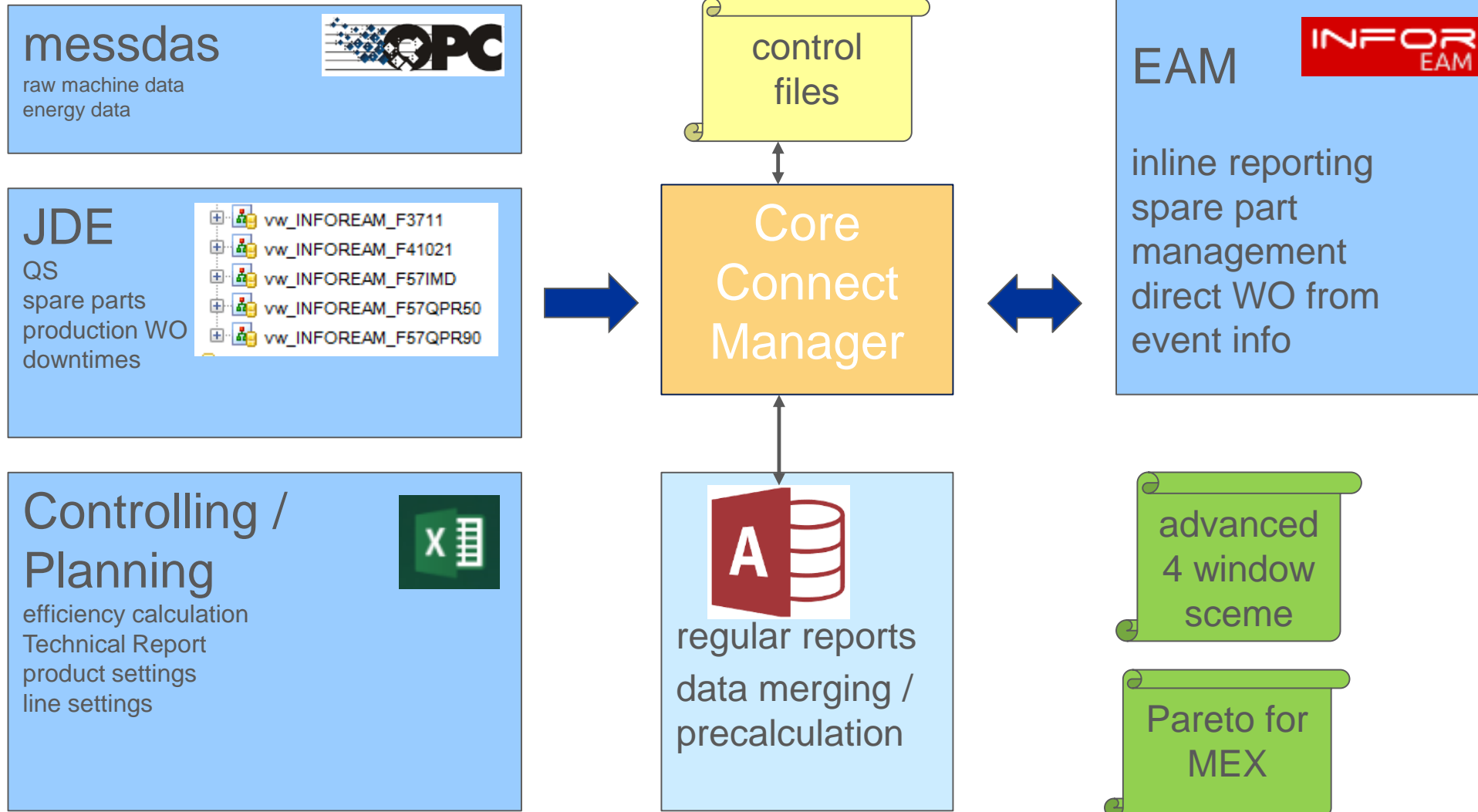
organisation	reports / Level DEC 2017						Total
	Location	L 1	L 2	L 3	L 4	L 5	
MNZ	-	36	64	43	215	105	463
MUE	1	57	106	39	74	45	322
TRO	-	30	15	26	27	1	99
LIL	-	33	4	24	75	38	174
KRI	-	20	19	35	183	-	257
LEU	-	2	9	74	235	27	347
GHG	152	1	17	175	392	371	1.108

Rollout Status EAM

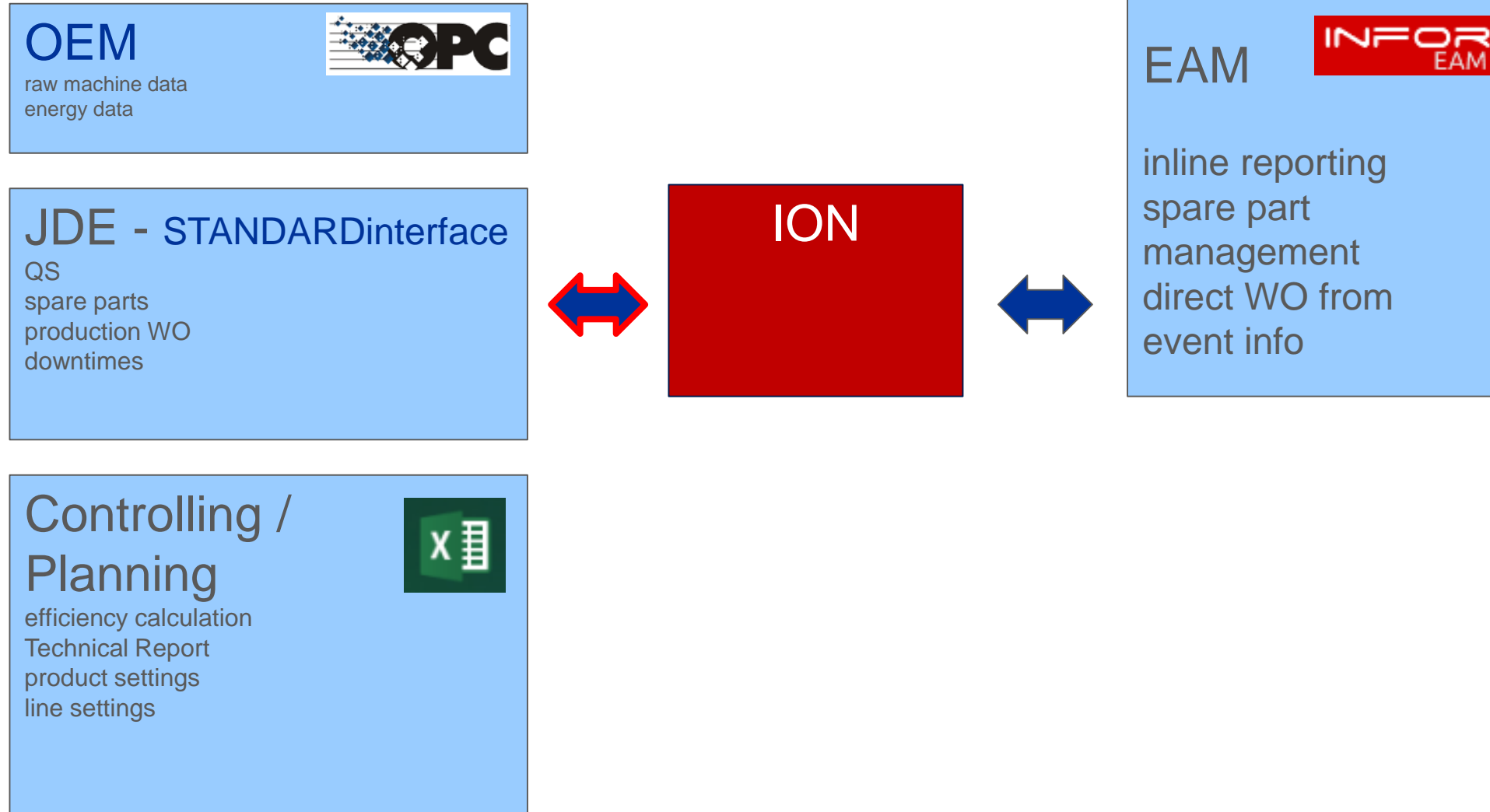


*1 current SAP-structure is shared with P&T and will be studied for further use in Q1/18.
[SWA is not using the SAP/MA-module efficiently → feedback from SWA]

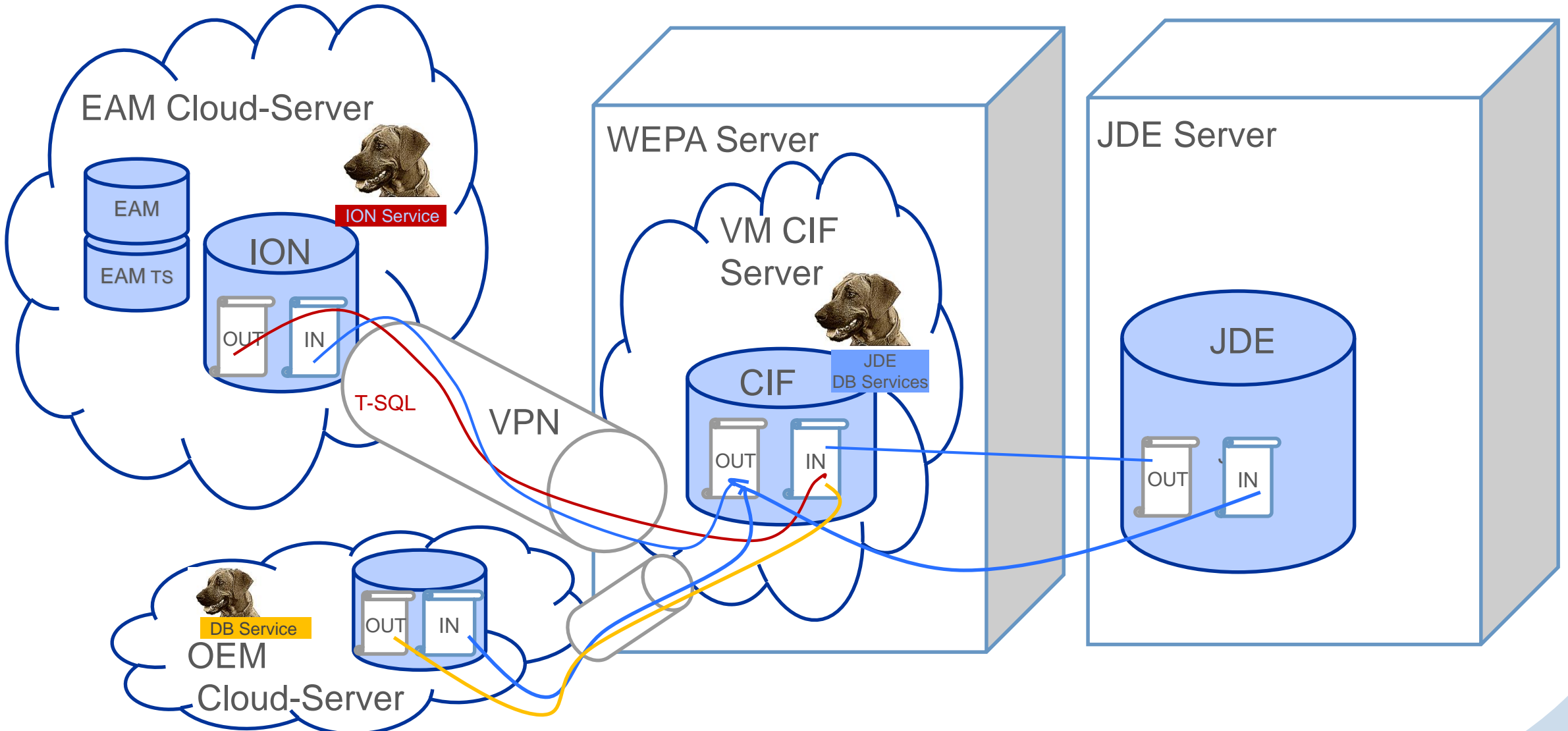
Interfaces - Actual



Interfaces - Planned



Interfaces - Planned





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