



FAMS: Facility Asset Management Suite

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Die Facility Asset Software-Suite von Drücker Steuerungssysteme.

Ein Anwendungspaket mit zusammengehörenden Objekten

auf Basis der System Platform für eine State of the Art

*Leitstandslösung für Gebäude, Werke, Liegenschaften, Energie
und prozesstechnische Anlagen.*

FAMS: Suite

Asset



Analysis



Presentation



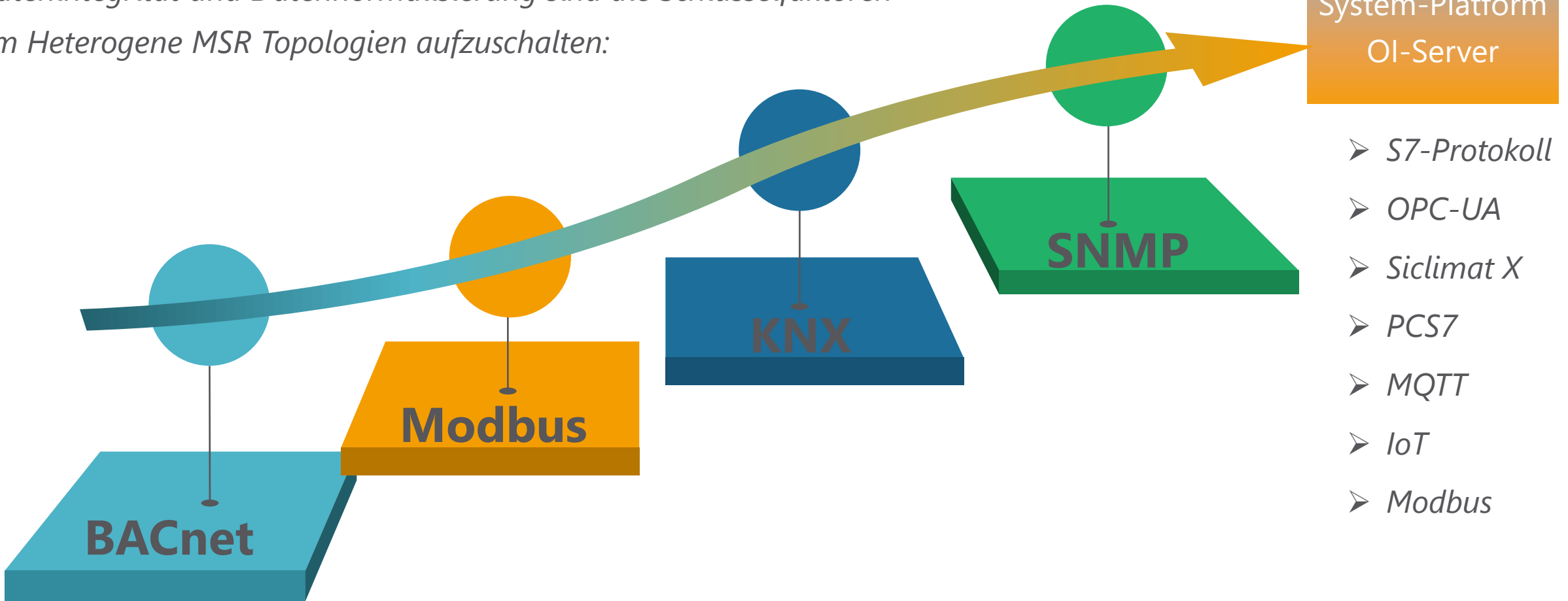
Smart Devices



FAMS: Facility Asset Management Suite

Facility Asset Management im Zuge der Digitalisierung

*Datenintegrität und Datennormalisierung sind die Schlüsselfaktoren
um Heterogene MSR Topologien aufzuschalten:*



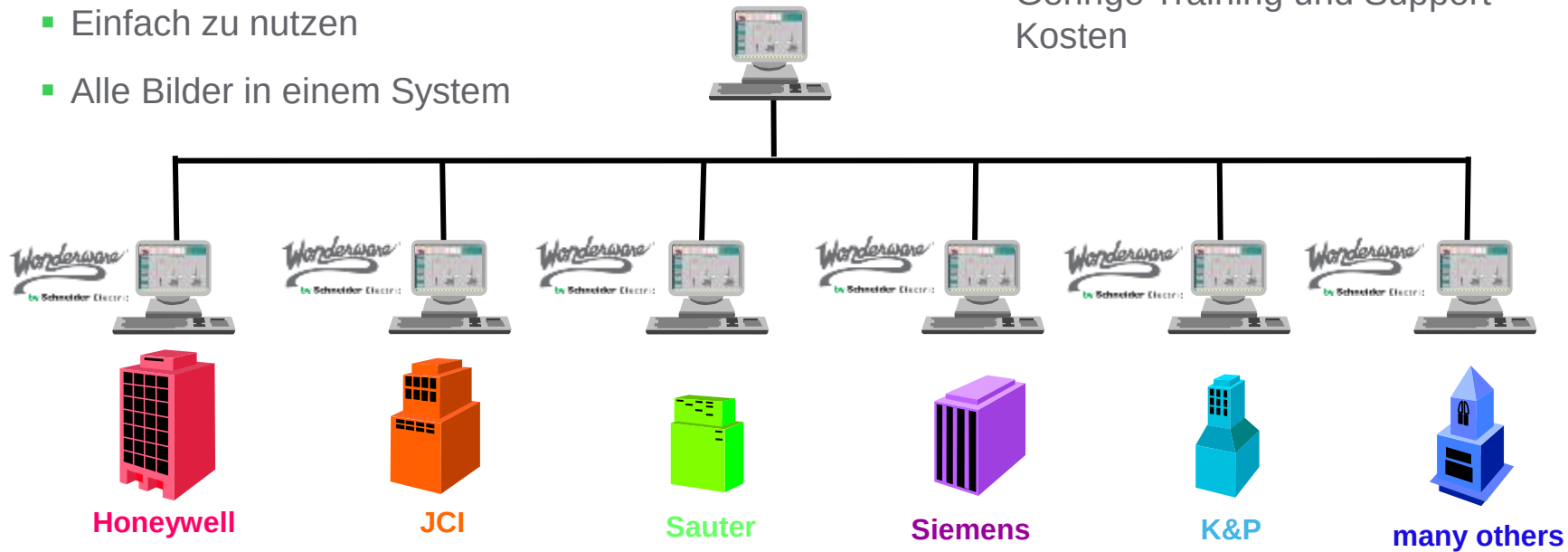
FAMS: Schnittstellen

Neue Architektur mit System Plattform

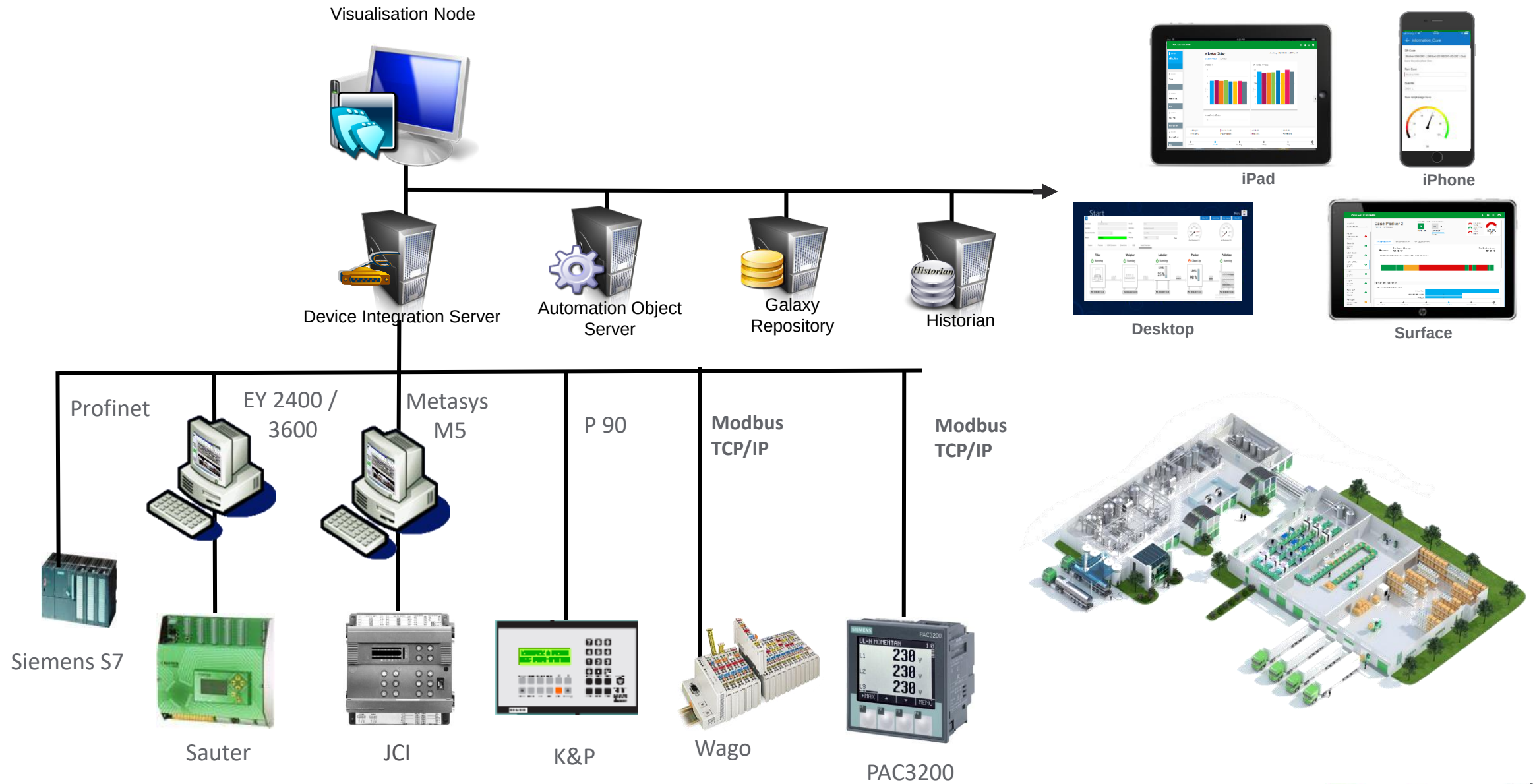
- Ein System für alle Gebäude
- Ein Datenformat
- Einfach zu nutzen
- Alle Bilder in einem System

1 Leitstandssystem

- Einfach zu erweitern keine aufwändigen Schnittstellen
- Geringe Training und Support Kosten



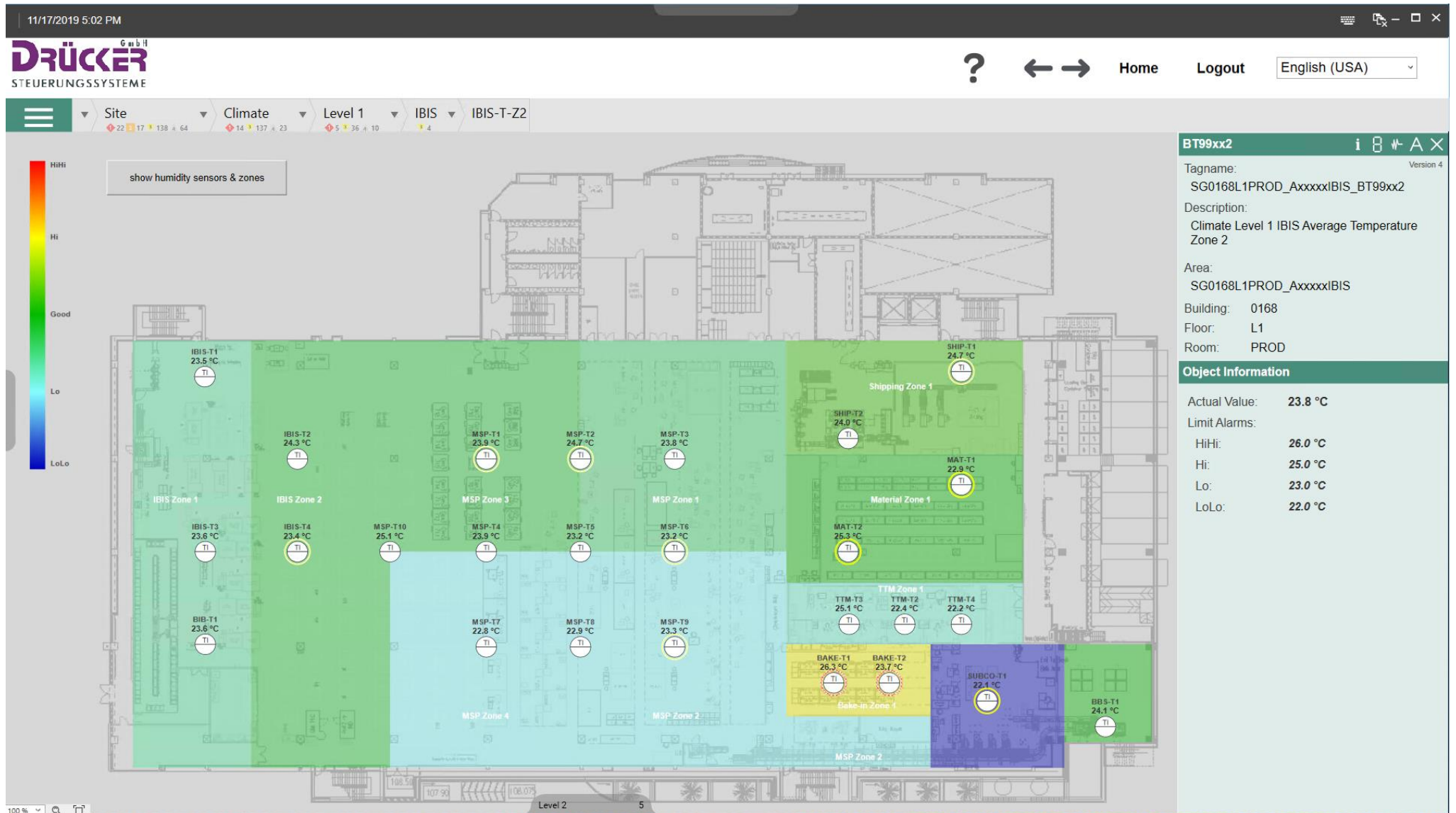
FAMS: Architektur



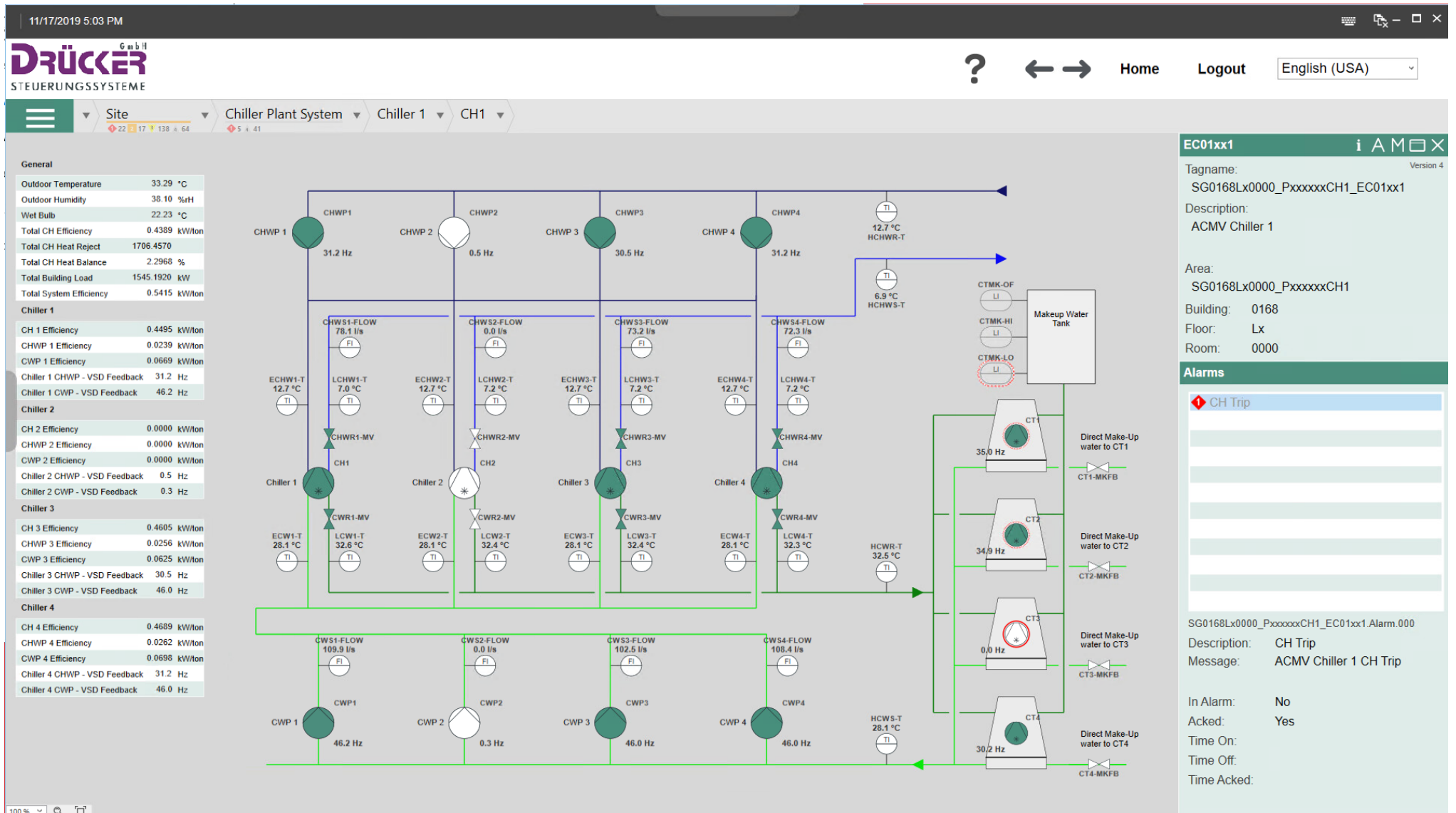
FAMS: Architektur

Datei Start Einfügen Seitenlayout Formeln Daten Überprüfen Ansicht Add-Ins Hilfe Was möchten Sie tun?													
Einfügen Zwischenablage Schriftart Ausrichtung Zahl Formatvorlagen Zellen													
F23 P-Anteil													
A	B	C	D	E	F	G	H	I	J	K	L	M	N
1 :DIOBJECT	BM1_DDESL.SPS1												
2 :PLCType	S7												
3 :DB	104												
4 :DB104 Parameter/Grenzwerte	Version	Autor	Familie	Name	Titel								
5 ;	1.00		ZLS_DATA	Param	ZLS-Daten Parameter								
6													
:Object	PLCAddress	SPS-Symbol	Type	SPS-Start	SPS-Kommentar	Min	Max	Prec	Format	EngUnits	Trend	Attribute	Extension
8													
9 :Analogobjekt													
10 BM1_Sub_PAW1220	DBW8	SUB_ABW_Leitwert_Anzeige	INT	0	SUB_ABW_Leitwert PI10 - PAW1220	0	10	2	0.00	m/min		0 AlarmOGValue	FIELD
11 BM1_Sub_PAW1220	DBW8	SUB_ABW_Leitwert_Anzeige	INT	0	SUB_ABW_Leitwert PI10 - PAW1220	0	10	2	0.00	m/min		0 WarnOGValue	FIELD
12 BM1_Sub_PAW1220	DBW8	SUB_ABW_Leitwert_Anzeige	INT	0	SUB_ABW_Leitwert PI10 - PAW1220	0	10	2	0.00	m/min		0 WarnUGValue	FIELD
13 BM1_Sub_PAW1220	DBW8	SUB_ABW_Leitwert_Anzeige	INT	0	SUB_ABW_Leitwert PI10 - PAW1220	0	10	2	0.00	m/min		0 AlarmUGValue	FIELD
14													
15 :ReglerObjekt													
16 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Alarm OG	0	300	0	0	N		0 AlarmOGValue	FIELD
17 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Warn OG	0	300	0	0	N		0 WarnOGValue	FIELD
18 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Warn UG	0	300	0	0	N		0 WarnUGValue	FIELD
19 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Alarm UG	0	300	0	0	N		0 AlarmUGValue	FIELD
20 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGSOLL	INT	0	Sollwert	0	300	0	0	N		1 W	FIELD
21 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Regler Ausgang	0	99	1	0.0	%		1 Y	FIELD
22 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Regler Ausgang Hand	0	99	1	0.0	%		0 Y.Hand	FIELD
23 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	P-Anteil	0	1000	1	0.0			0 P.Anteil	FIELD
24 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	I-Anteil	0	1000	1	0.0			0 I.Anteil	FIELD
25 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	D-Anteil	0	1000	1	0.0			0 D.Anteil	FIELD
26 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Grenze_Sollwert_OG	0	300	0	0	N		1 W_OG	FIELD
27 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Grenze_Sollwert_UG	0	300	0	0	N		1 W_UG	FIELD
28 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Grenze_Regler_OG	0	100	1	0.0	%		0 Y_OG	FIELD
29 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Grenze_Regler_UG	0	100	1	0.0	%		0 Y_UG	FIELD
30 BM1_Sub_PEW1224	DBW8	SUB_ABW_ZUGIST	INT	0	Sollwert Extern	0	300	0	0	N		1 Soll_Extern	FIELD
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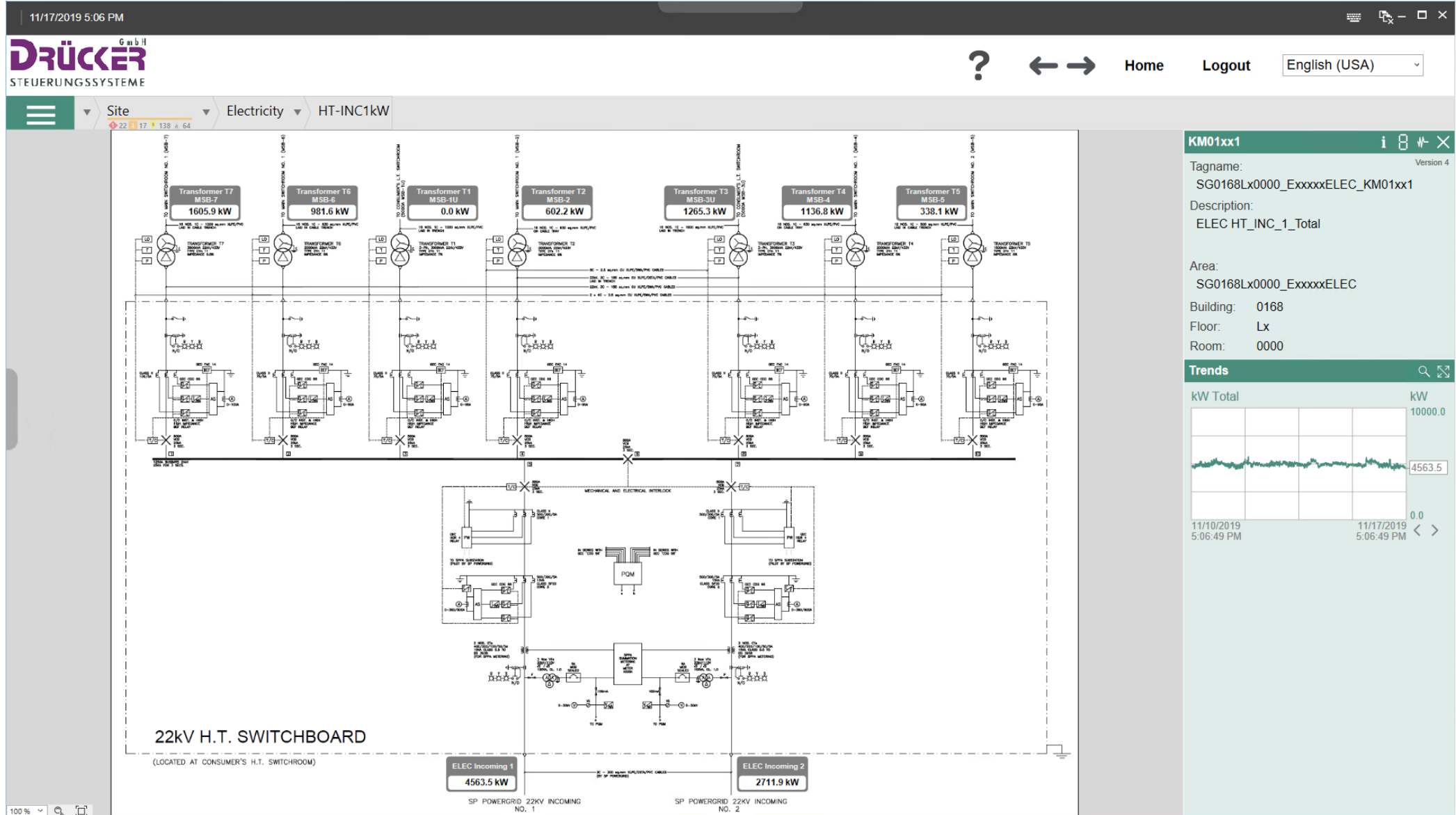
FAMS: Normierung



FAMS: PID Darstellung



FAMS: Info Fenster



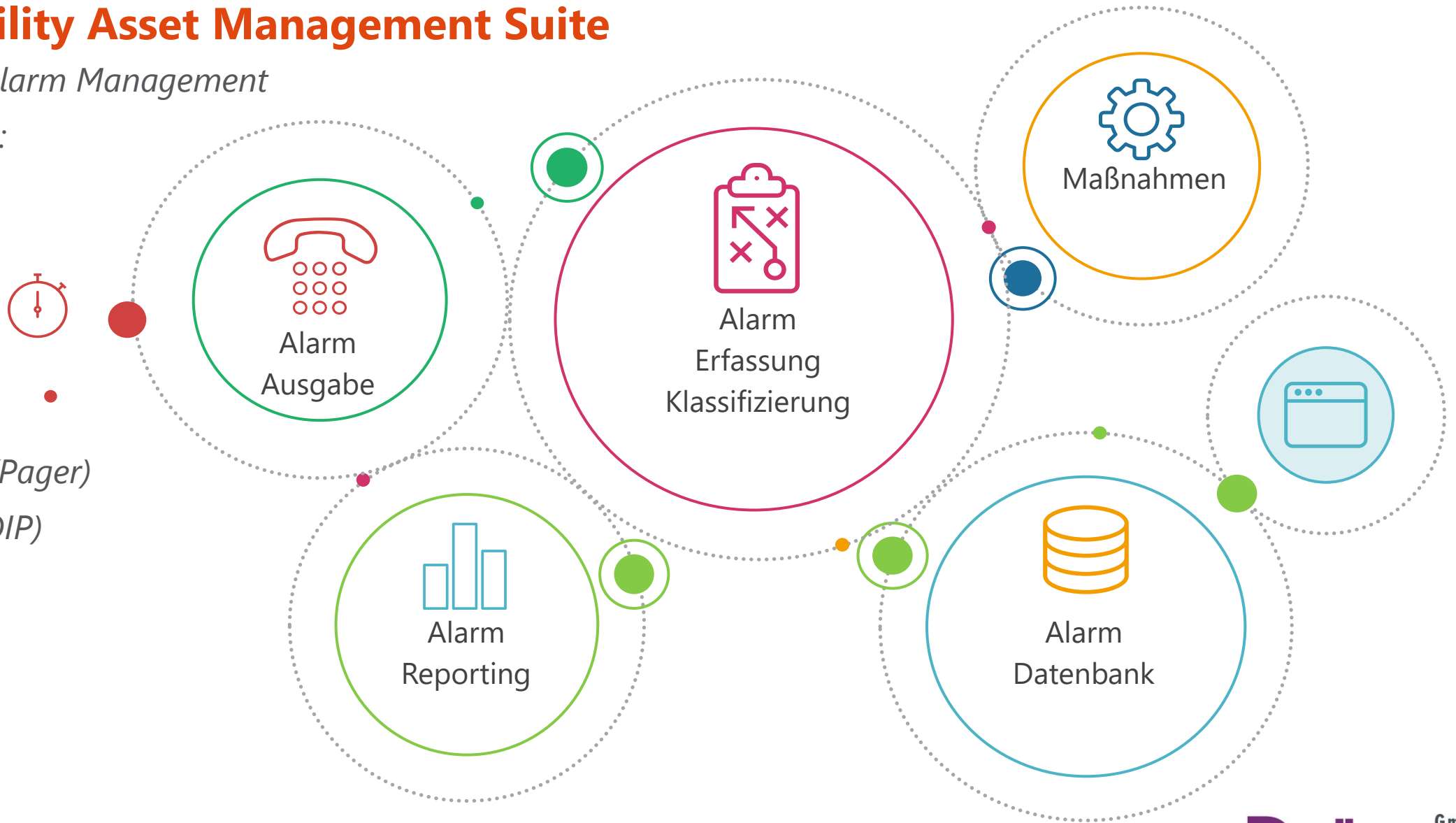
FAMS: Electrical Details

FAMS: Facility Asset Management Suite

Facility Asset Alarm Management

Anforderungen:

- *Monitoring*
- *Email*
- *SMS*
- *SAP*
- *SPC*
- *Handhelds (Pager)*
- *Sprache (VOIP)*



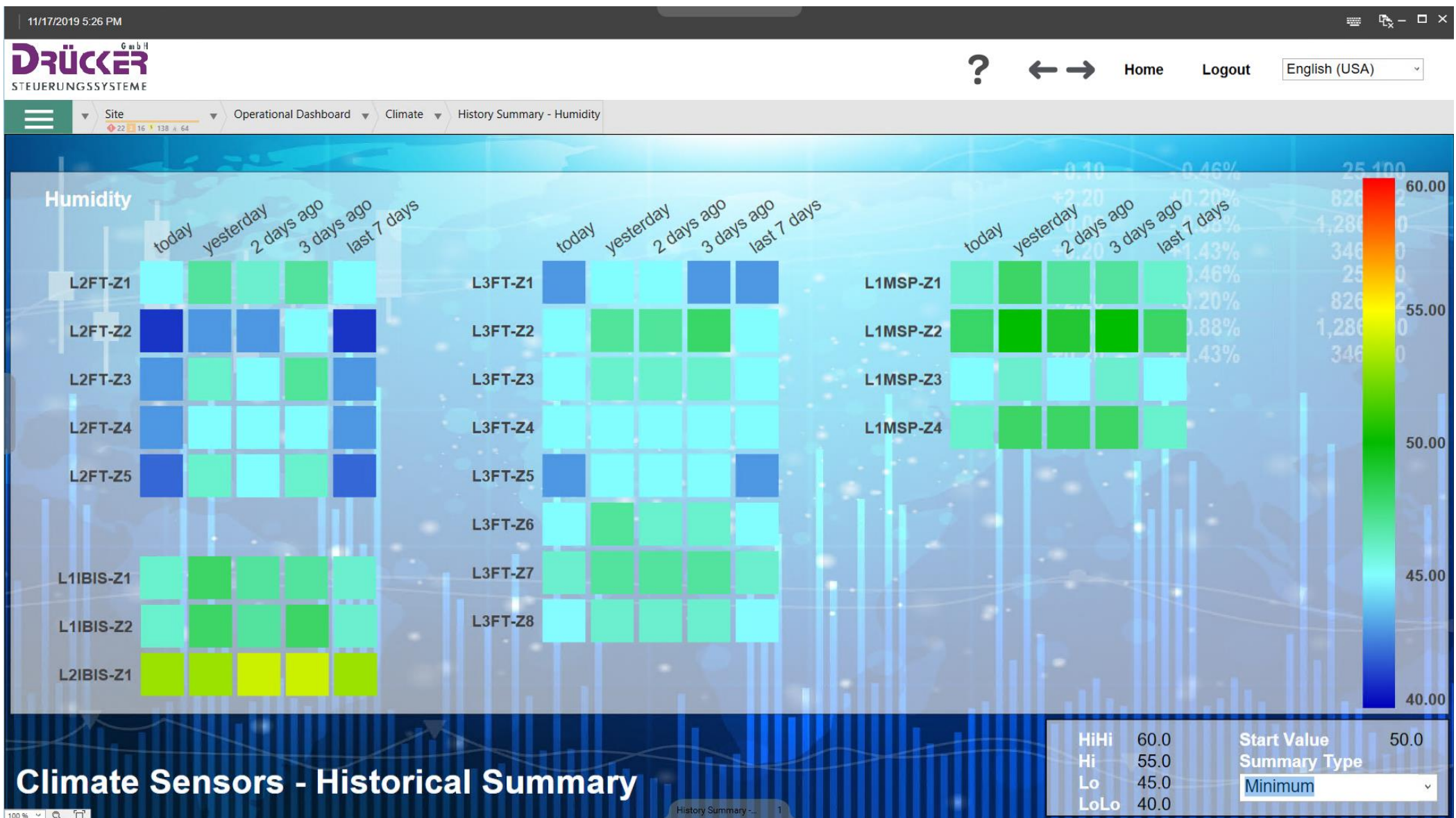
FAMS: Alarm Management



FAMS: Dashboard Energy Consumption



FAMS: Dashboard Climate Sensors



FAMS: Dashboard Heat Map Tiles



Market

SLA Compliance

Achieved: 96%, Target: 92%

Incidents

YTD: 5, 10, 12, 8

Last Year: 10, 12, 8, 5

No. Of Products

15

No. Of Product Variants: 45

Top 5 Products Sold

- Compute and Storage (20%)
- Automation and Cloud (30%)
- Networking (10%)
- Security (15%)
- Analytics (25%)

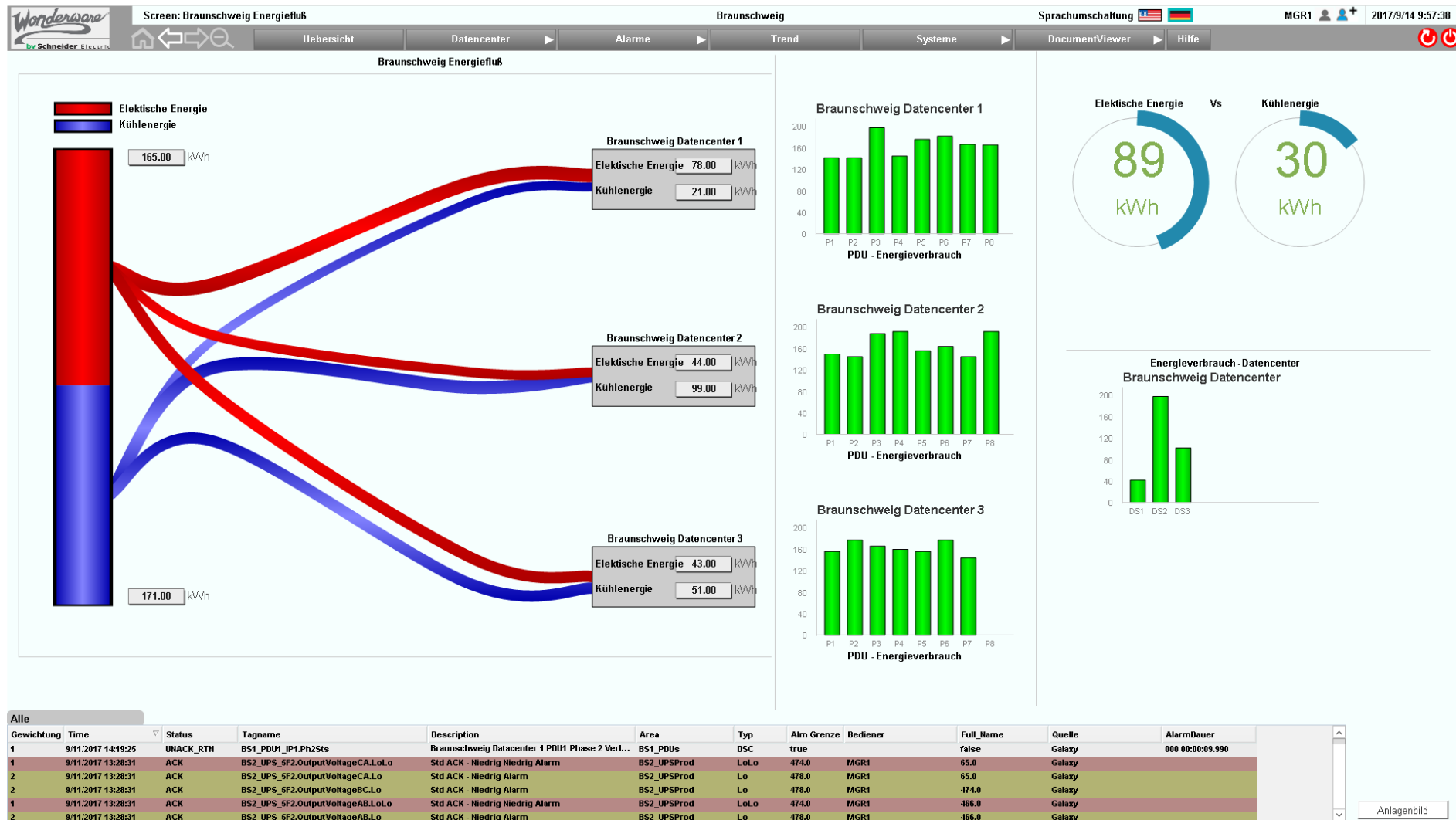
Service Standardization Degree

- No. Of Product Variants: 45 (60%)
- No. Product Variant Sold: 30 (40%)

Customer Satisfaction Index

45 (60%)

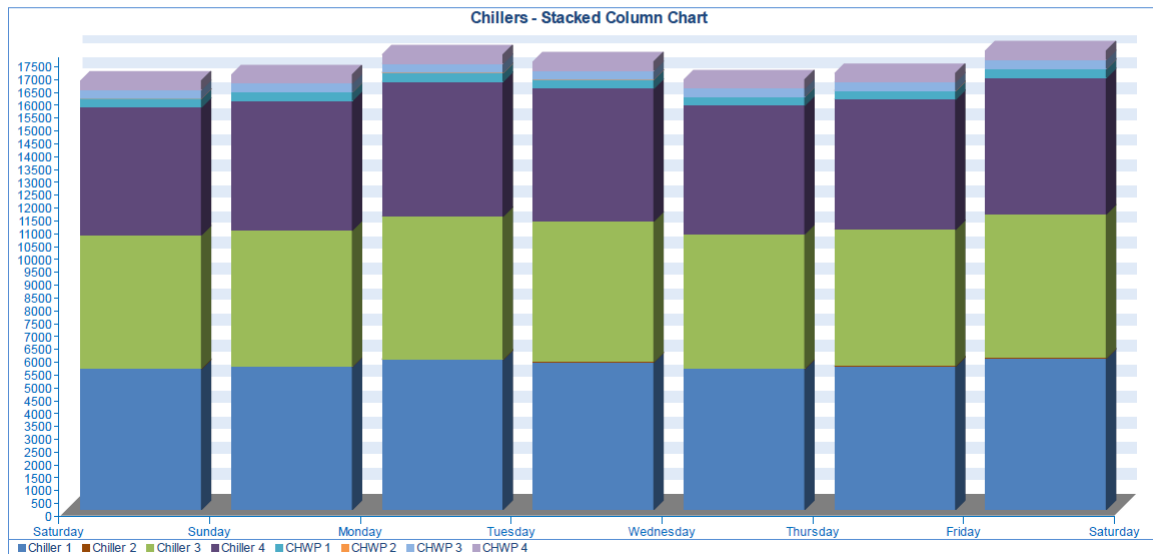
FAMS: Management Dashboard



FAMS: Consumption Report

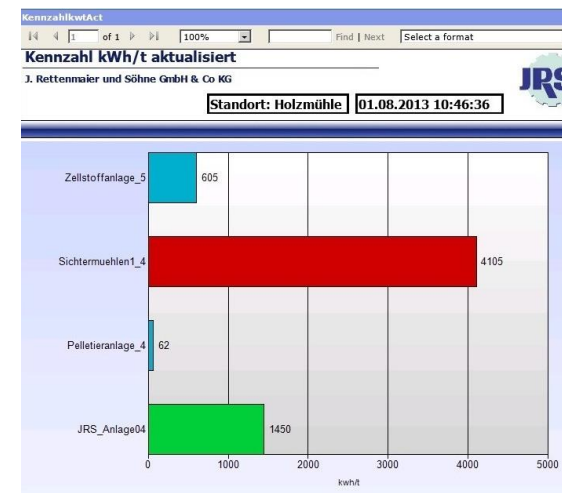
From: 9/26/2020 07:00:00 AM
To: 10/3/2020 07:00:00 AM

Power Consumption - Chillers



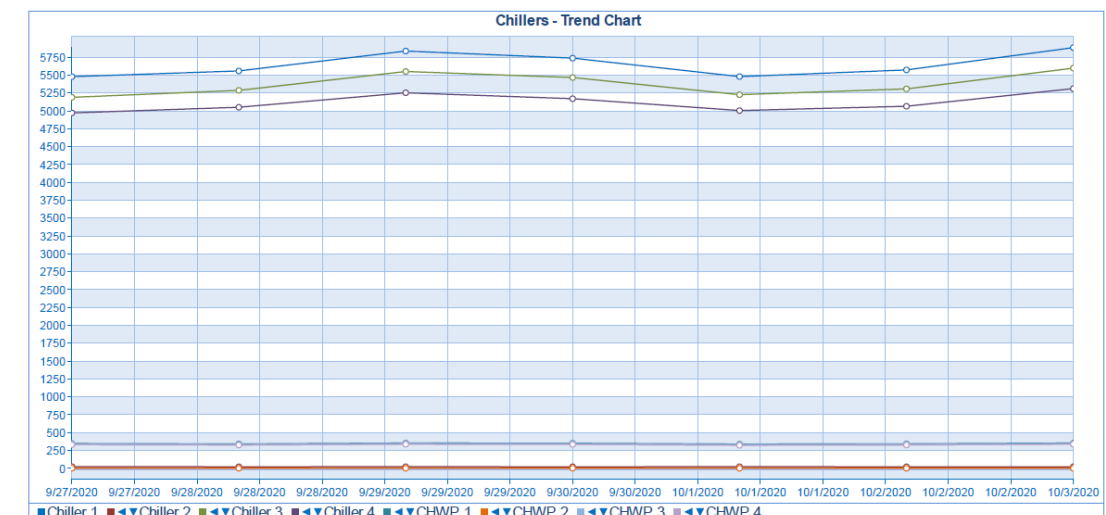
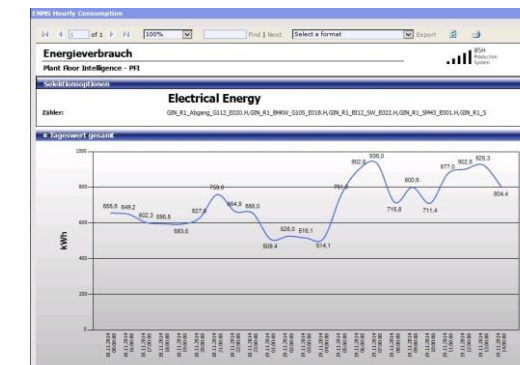
Chillers - Tabular Overview

Date	Chiller 1	Chiller 2	Chiller 3	Chiller 4	CHWP 1	CHWP 2	CHWP 3	CHWP 4	Total Chillers	Total CHWPs	Total kWh
26/09/2020	5478.00 kWh	24.00 kWh	5189.00 kWh	4971.00 kWh	347.00 kWh	1.00 kWh	339.00 kWh	331.00 kWh	15662.00 kWh	1018.00 kWh	16680.00 kWh
27/09/2020	5558.00 kWh	22.00 kWh	5286.00 kWh	5050.00 kWh	341.00 kWh	0.00 kWh	332.00 kWh	326.00 kWh	15916.00 kWh	999.00 kWh	16915.00 kWh
28/09/2020	5836.00 kWh	23.00 kWh	5550.00 kWh	5252.00 kWh	354.00 kWh	0.00 kWh	347.00 kWh	337.00 kWh	16661.00 kWh	1038.00 kWh	17699.00 kWh
29/09/2020	5737.00 kWh	22.00 kWh	5466.00 kWh	5170.00 kWh	351.00 kWh	1.00 kWh	343.00 kWh	335.00 kWh	16395.00 kWh	1030.00 kWh	17425.00 kWh
30/09/2020	5479.00 kWh	23.00 kWh	5226.00 kWh	5004.00 kWh	339.00 kWh	0.00 kWh	330.00 kWh	323.00 kWh	15732.00 kWh	992.00 kWh	16724.00 kWh
01/10/2020	5572.00 kWh	22.00 kWh	5307.00 kWh	5064.00 kWh	343.00 kWh	0.00 kWh	335.00 kWh	327.00 kWh	15965.00 kWh	1005.00 kWh	16970.00 kWh
02/10/2020	5884.00 kWh	22.00 kWh	5597.00 kWh	5311.00 kWh	354.00 kWh	0.00 kWh	345.00 kWh	338.00 kWh	16814.00 kWh	1037.00 kWh	17851.00 kWh
TOTAL :	39544.00 kWh	158.00 kWh	37621.00 kWh	35822.00 kWh	2429.00 kWh	2.00 kWh	2371.00 kWh	2317.00 kWh	113145.00 kWh	7119.00 kWh	120264.00 kWh
MIN :	5478.00 kWh	22.00 kWh	5189.00 kWh	4971.00 kWh	339.00 kWh	0.00 kWh	330.00 kWh	323.00 kWh	15662.00 kWh	992.00 kWh	
MAX :	5884.00 kWh	24.00 kWh	5597.00 kWh	5311.00 kWh	354.00 kWh	1.00 kWh	347.00 kWh	338.00 kWh	16814.00 kWh	1038.00 kWh	
AVG :	5649.14 kWh	22.57 kWh	5374.43 kWh	5117.43 kWh	347.00 kWh	0.29 kWh	338.71 kWh	331.00 kWh	16163.57 kWh	1017.00 kWh	
RATIO :	32.88 %	0.13 %	31.28 %	29.79 %	2.02 %	0.00 %	1.97 %	1.93 %			100.00 %



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Power Consumption - Chillers



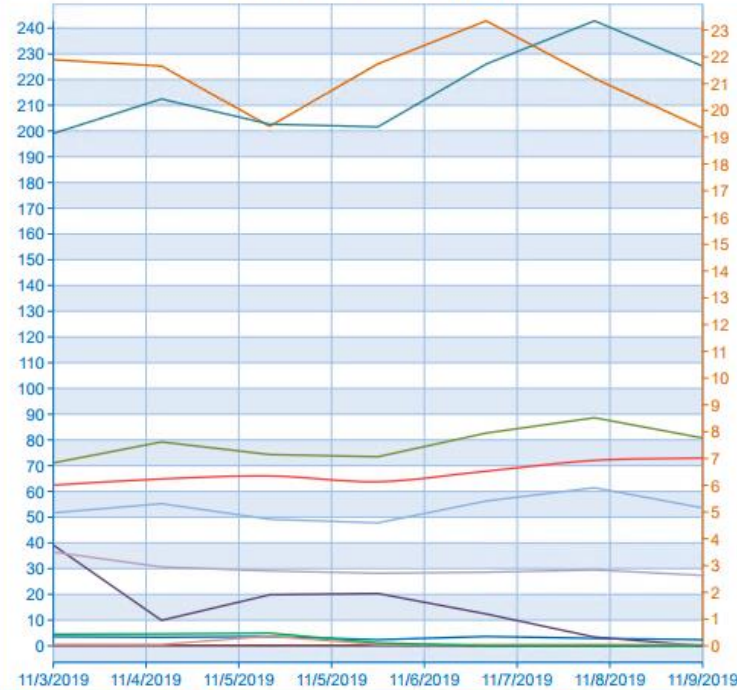
FAMS: Consumption Report

From: 11/2/2019 07:00:00 AM

To: 11/9/2019 07:00:00 AM

Water Consumption

Water Process - Trend Chart



■ Process CT Bleed ■ Process CT Make Up ■ CT3 ■ CT2
 ■ PUB Direct to CT ■ CT Makeup ■ CT1 ■ CT Bleed
 ■ Sprinkle Tank ■ AHU Recycle ■ CT4

Water Domestic - Trend Chart



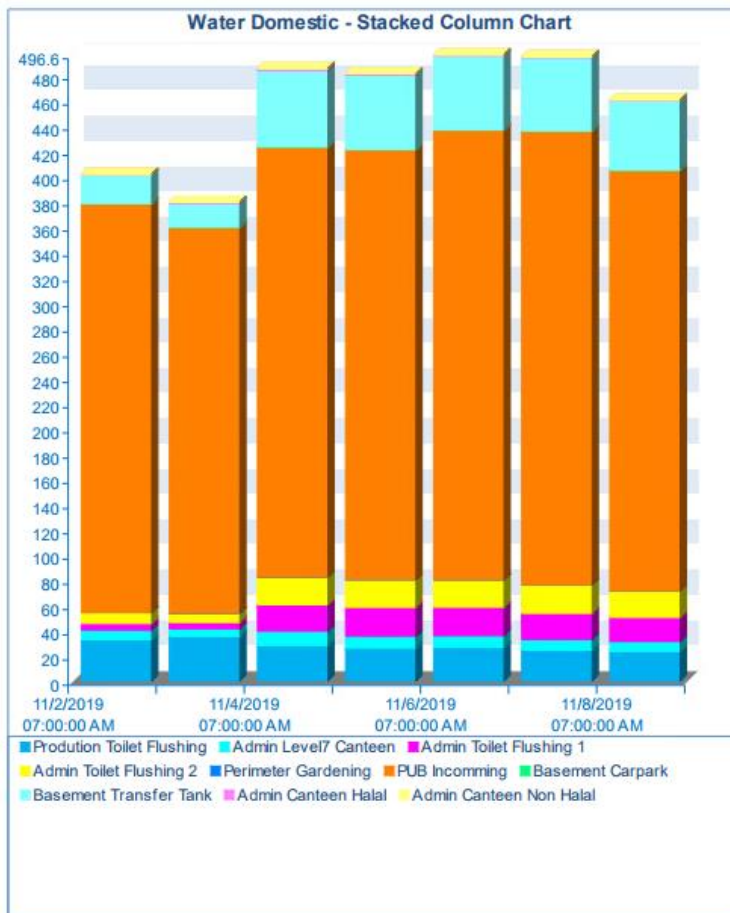
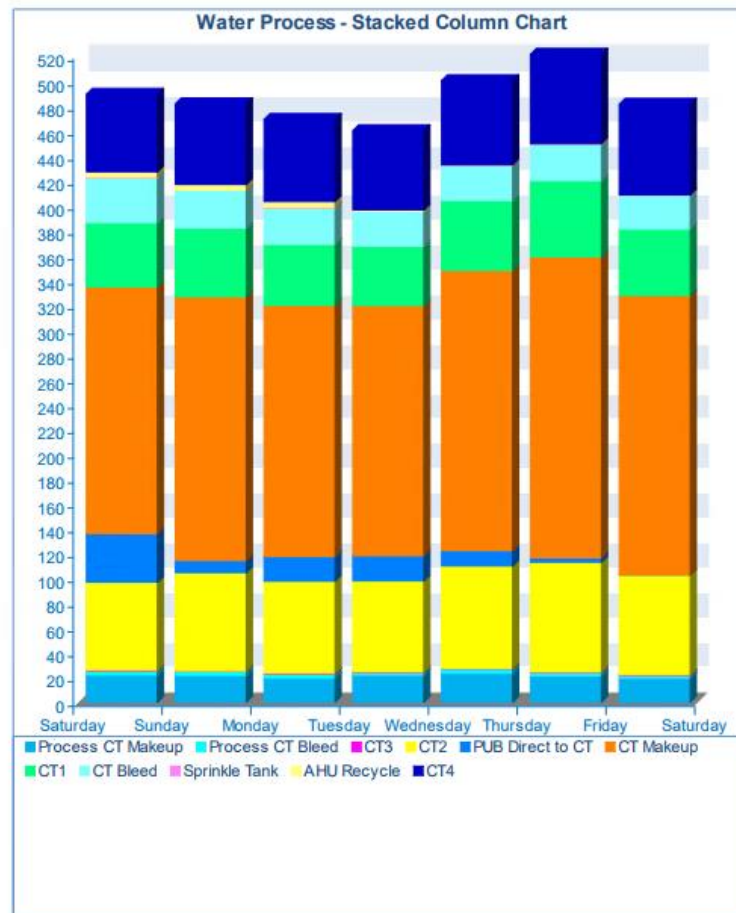
■ Production Toilet Flushing ■ Admin Level7 Canteen ■ Admin Toilet Flushing 1
 ■ Admin Toilet Flushing 2 ■ Perimeter Gardening ■ PUB Incoming
 ■ Basement Carpark ■ Basement Transfer Tank ■ Admin Canteen Halal
 ■ Admin Canteen Non Halal

FAMS: Consumption Report

From: 11/2/2019 07:00:00 AM

To: 11/9/2019 07:00:00 AM

Water Consumption



FAMS: Water Report Charts