

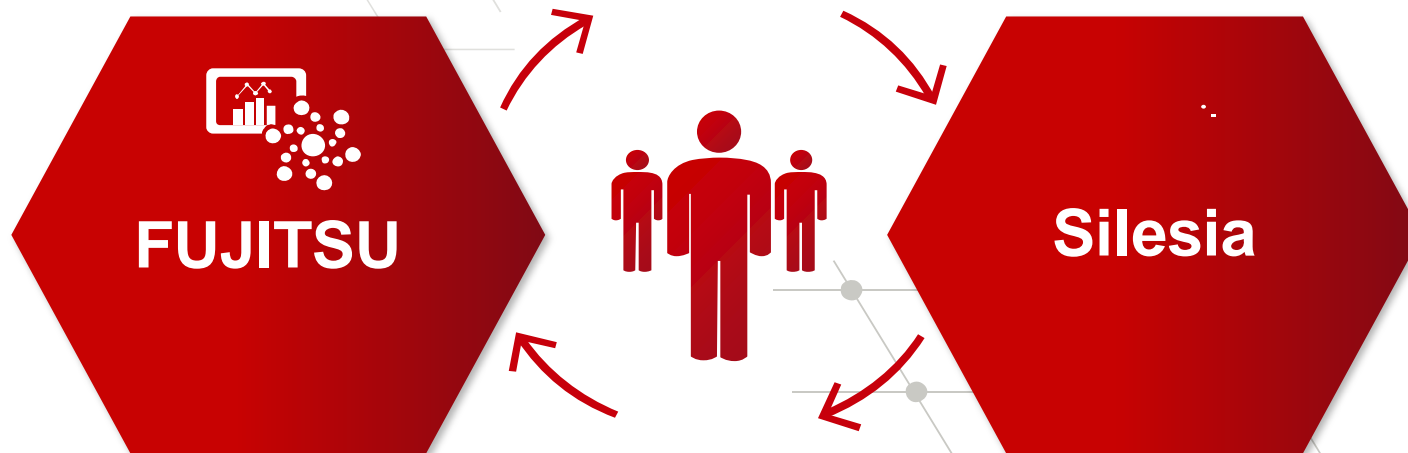
TASTE THE FLAVOUR!

SILESIA

running a digital factory with connected
assets and IoT



PARTNERSHIP COLLABORATION



Development Partner
SAP Applications with
SAPweigh

SILESIA INTERNATIONAL



WHO WE ARE



Family-owned in the fourth generation

- Over 100 years of experience
- More than 670 employees worldwide
- Traditional ...yet... modern

Medium-sized player in the flavour industry

- Global Player
- International affiliate network & production
- Independent

Dedicated to flavours for food & beverages

- Innovative
- Focus on quality
- Flexible, fast and reliable
- Customer- and solution-oriented

SUSTAINABILITY



- creating jobs - worldwide and sustainable
- anti-discrimination policy
- trusted partner
- responsible sourcing
- ecological logistic system
(short ways & less travelling)
- hands-on environmental protection
(air, water, energy,...)
- promoting & utilising regenerative energies
- successfully passed ethical audit by SGS

WE ARE WHERE YOU ARE

Europe

Germany

Austria
Benelux
Czech Republic
France
Hungary
Italy
Poland
Scandinavia
Spain
Switzerland
Turkey
Ukraine
United Kingdom
Russland



Asia & Australia

Singapore

China

Indonesia
Philippines
Thailand
Vietnam

America

USA

Mexico
Colombia
Canada

Africa & Middle East



Global Headquarters
Neuss, Germany



Headquarters America
Chicago, USA



Headquarters SEA
Singapore

FUJITSU

Silesia

PATH TO GROWTH



2015 **Customer Service Center Neuss**



2016 Ground breaking ceremony of our future factory and **Regional HQ in Singapore**

2017 Inauguration of our new **Regional HQ in Singapore** including production

Expansion in **Chicago**



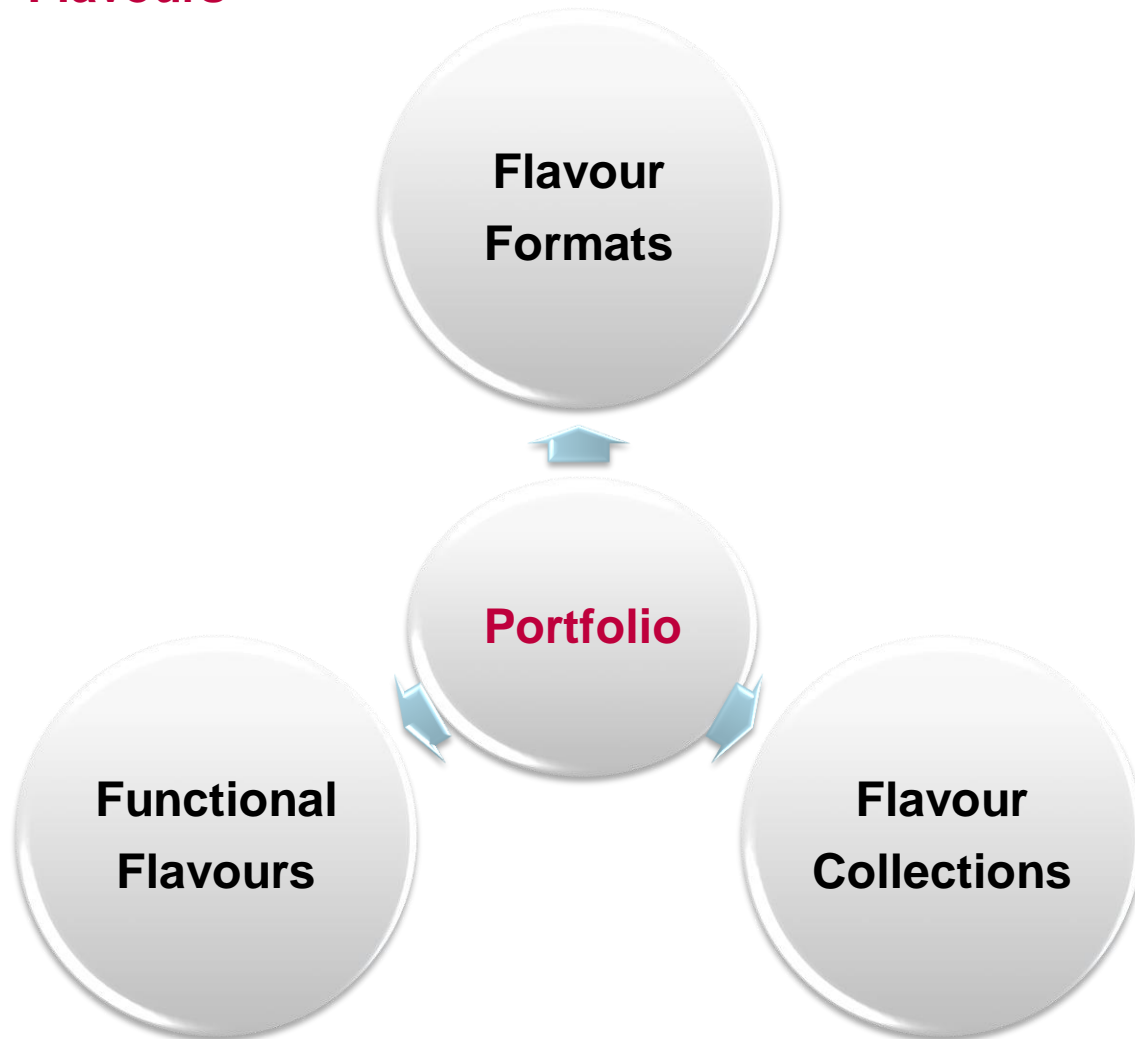
2018 New construction of our site in **Shanghai**

OUR PORTFOLIO



OUR SOLUTION FOR YOUR PRODUCT

Flavours



Application

Confectionery
& Bakery



Dairy
products



Beverages



Culinary
products



OUR SOLUTION FOR YOUR PRODUCT

FLAVOUR FORMATS

- Liquid flavours
- Powdered flavours
 - Silarom®
- Extruded flavours
 - Sil-A-Glass®



OUR SYSTEM ENVIRONMENT

SAP ERP
ECC 6.0

4 x OPC
Server
Germany

74 x
Scales
Germany

C1 / C2
Germany

2 x OPC
Server
USA

14 x
Scales
USA

2 x OPC
Server
China

21 x
Scales
China

OUR SYSTEM ENVIRONMENT

- IND 890
- IND 690
- SPS
- IT 8000
- Scales from Mettler & Toledo

OVERVIEW: WEIGHING APPLICATION SAPWEIGH



SAPweigh
h

Connectivity

SAPweigh connects user friendly and stabile your weighing equipment to SAP

Integration

SAPweigh features GMP- and 21 CFR Part 11-conform
Integration of complex weighing systems
into production modules SAP PP or PP-PI

Requirements

SAP ERP-System ECC6.0 (Version 4.6B or higher)



BENEFITS OF INTEGRATED SCALES

Advantages of weighing scales with SAPweigh

- Avoids system and integration gaps
- No more manual data transfer
- Realtime visual weighing guiding tool
- Visual warnings to prevent under- or over pourings
- Automatic calculation of active ingredient amount based on poured weighings (“calculation on the fly”)
- Simple authorization management using SAP standards
- Local user management for scale operators.



BENEFITS OF INTEGRATED SCALES

Value adding

- GMP-compliant Integration via SAP certified SAP ODA-Interface
- Complete offer including (virtual) Bridge for connecting scales, consulting, planning, hardware, licences, Implementation and training
- Barcode scanners plus easy use printforms for weighing labels and weighing reports
- No special software needed on workstation besides SAP GUI and Java Runtime environment
- Split-Module to fine control weighing orders
- Weighing logging in own audit-trail



BENEFITS OF INTEGRATED SCALES

Seamless Integration

- Simple integration into SAP-Systems using SAP ODA-Interface
- No redundant manual data transfer , four eyes proof often no longer necessary
- (Virtual) MTOPC-Box already included .

Easy validation

- Weighing module has no impact on global system validation
- SAPweigh solution is GMP- and 21 CFR Part 11 compliant
- Approved scales weighing is supported
(requirements from board of weights and measures are fulfilled)

Integration with production-orders or process-orders

- Split module covers even complex and fine requirements
- Single orders will be merged into master order
- Master-Order bridges to SAP Process-Order or Production-Order

Role-Management

- Simple control of authorizations
- Intelligent user management avoids unnecessary SAP licenses

SIMPLE INTEGRATION USING STANDARD INTERFACES

Main Feature

- SAP OPC-standard interface as base:
 - Support all major weighing scales brands (Mettler & Toledo, Sartorius, AND, Rhewa etc.)
 - In addition the licenced Software SAPweigh and AOSI (AKR-OPC-SAP-Interface) are needed for the interface
- Weighing Applications:
 - Base transactions are provided by the Fujitsu solution
 - Customer specific modifications can be provided at needs.

*OPC = Industriestandard **O**LE for **P**rocess **C**ontrol on Basis SAP **O**PC **D**ata **A**ccess (SAP ODA)

SIMPLE INTEGRATION USING STANDARD INTERFACES

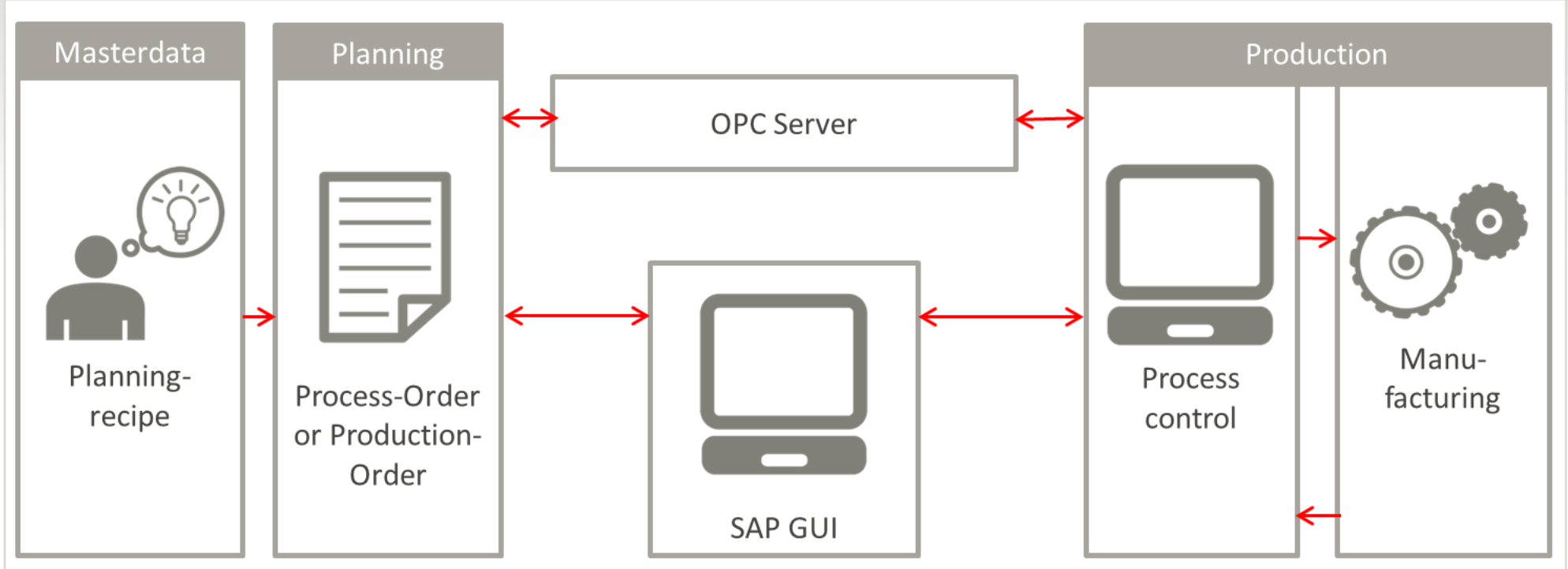
Benefits from SAP ODA Interface

- Customizing via SAP Standard-Transaction
- Authorizations are managed on plant levels
- Safe costs (Interface is in maintenance included)
- No windows client installation, SAP GUI covers all
- Allow approved weighing applications using SAP only (no subsystem)
- Easy release changes
- Upgrade weighing hardware with no change to SAP needed



WEIGHING PROCESS WITH SAPWEIGH

Interface design and architecture of SAPweigh



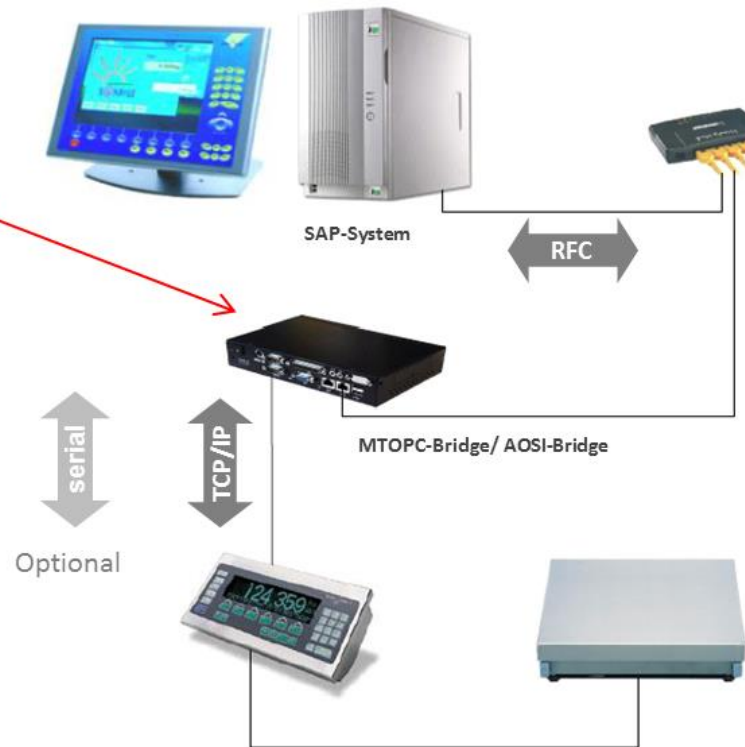
INFRASTRUCTURE OF SAPWEIGH

Hardware

Box is possible as virtualized
Version (= vMTOPC / vAOSI)
then is no Hardware-Box needed

■ OPC Data Access

- Server/Namespace Browsing
- Synchronous Read/Write
- Routing in LAN/WAN possible



SAPWEIGH – USER APPLICATION

Screenshot weighing transaction – Scan material

1000141

empty

empty

empty

empty

empty

Order

1000141

0001

ME-2018800-I

584.100,000

Order: 1000141

F	Blk	OpAc	Item	Material	Material description	Batch	req. weight	weighed weight	open amount	Unit
	FEST	0020	0010	ME-358618	CALCIUMACETAT	0000000253	465.166,284	0,000	465.166,284	G
	FEST	0020	0020	ME-308795	MICROCRYSTALLINE 102	0000000260	65.711,250	0,000	65.711,250	G
X	FEST	0020	0030	ME-308717	DA	0000000261	34.224,610	34.150,000	74,610	G

Position

Step 1: Select Material

Position

Materialnumber


Lot

0000000261

SAPweigh: System ready for weighing.

Enter

Please scan Material and Lot.



SAPWEIGH – USER APPLICATION

Screenshot weighing transaction – prepare container

1000141

empty

empty

empty

empty

empty

Order 1000141 0001 ME-2018800-I 584.100,000 G

Order: 1000141

F	Blk	OpAc	Item	Material	Material description	Batch	req. weight	weighed weight	open amount	Unit
	FEST	0020	0010	ME-358618	CALCIUMACETAT	0000000253	465.166,284	0,000	465.166,284	G
	FEST	0020	0020	ME-308795	MICROCRYSTALLINE 102	0000000260	65.711,250	0,000	65.711,250	G
	FEST	0020	0030	ME-308717	DAINGEROUS MATERIAL K30	0000000261	34.224,610	0,000	34.224,610	G

Position

Step 3: Setup container and tare scales

Materialnumber

ME-308717

Sub#

DAINGEROUS MATERIAL K30

Position

0030

Preset Tare

Target

34.224,610

G

Target

34,225

KG

Container

318

Tare

0,000

Scale

WTEST-TAKR-01

Tol

0,171

0,171



Place container for taring.



MA15S

4,250 kg

Enter

SAPWEIGH – USER APPLICATION

Screenshot weighing transaction – weighing guide tool (included scale bar)

1000141emptyemptyemptyemptyempty

Order 10001410001ME-2018800-I584.100,000G

Order: 1000141

F	Blk	OpAc	Item	Material	Material description	Batch	req. weight	weighed weight	open amount	Unit
	FEST	0020	0010	ME-358618	CALCIUMACETAT	0000000253	465.166,284	0,000	465.166,284	G
	FEST	0020	0020	ME-308795	MICROCRYSTALINE 102	0000000260	65.711,250	0,000	65.711,250	G
	FEST	0020	0030	ME-308717	DANGEROUS MATERIAL K30	0000000261	34.224,610	0,000	34.224,610	G

Position

Step 4: weigh out		Sub#		Position 0030	
Materialnumber	ME-308717	DANGEROUS MATERIAL K30		Lot	0000000261
Target	34.224,610	G	Target 34,225	Tol	0,171 0,171
Scale	WTEST-TAKR-01		Container 0000000000	Tare	4,250


MA15S


34,150 kg


Net

-0,075 kg


Enter


C-M-R Sensibilisierend


C-M-R Sensibilisierend


Umweltgefährlich

Please pour in...



SUMMARY

- Sort implementation time
- Easy expandability
- Stable environment
- Low maintenance
- Easy customizing

Contact

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...taste the
flavor!