

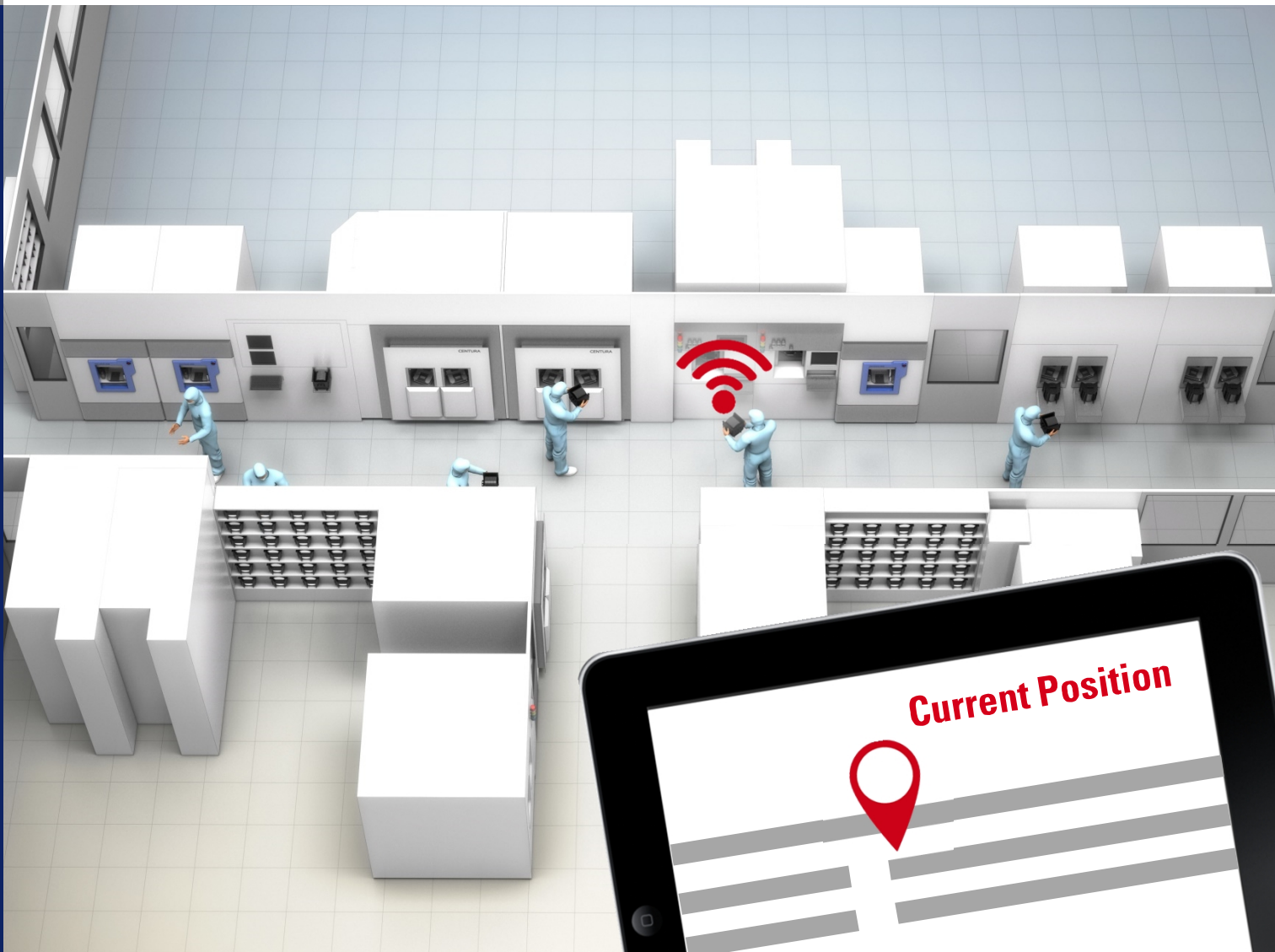
**NEW!**

Factory  
Automation  
Solutions

**ORTNER**

# FAB-LIPS

Local Identification &  
Positioning System



## FAB-LIPS

### Fab-wide lot localization in real time

Whether during transport, in storage or on loadports – the system enables reliable identification and 3D positioning of production lots everywhere in the fab without extensive infrastructure such as a reading unit per storage bin. Similar to GPS, radio devices based on Ultra Wideband Technology (UWB) are used as references for multi-distance measurements. The system enables the exchange of process data with the MES. Tags with e-ink displays show the operator all relevant information at each individual lot in real time.

Especially for fabs which are operated manually with a lot of storage bins, FAB-LIPS could be a cost-efficient alternative to RFID.

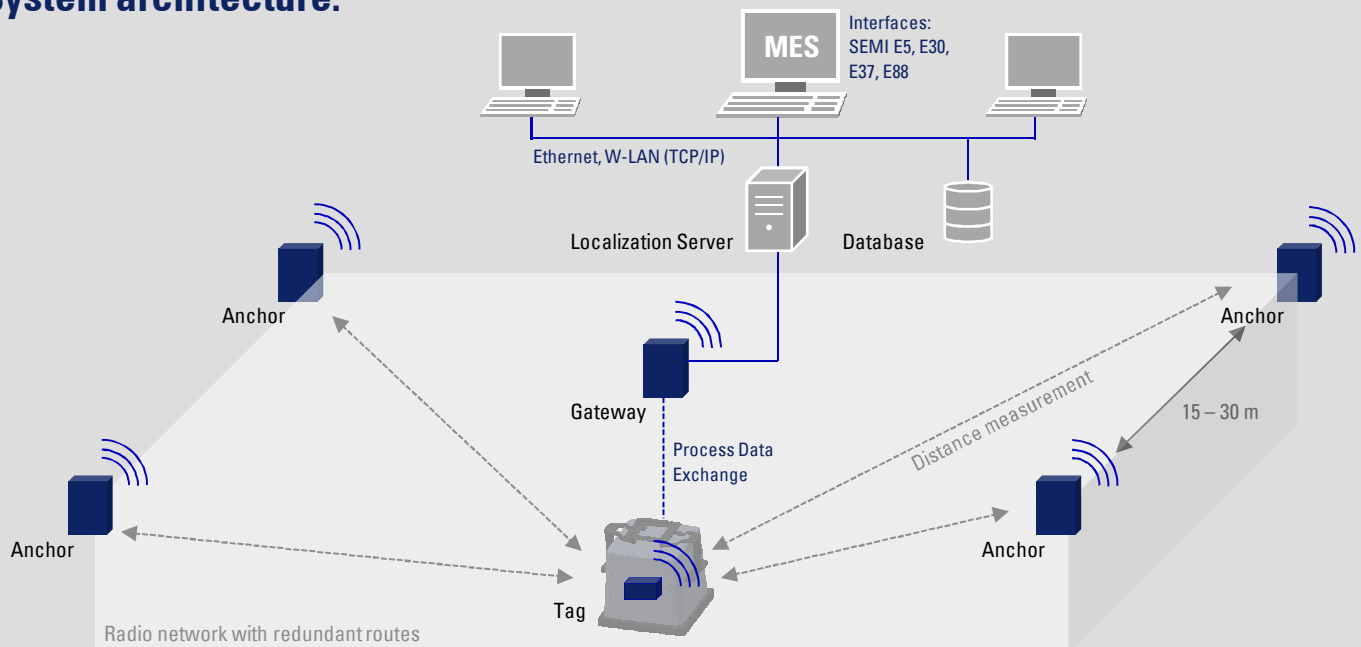
#### Benefits:

- Expanded operator efficiency
- Shorter cycle time and lower WIP, because full shop floor visibility provides a platform for logistic optimization
- Key enabling technology for factory automation in SMIF fabs

#### Features:

- **Based on UWB with minimal power consumption**
- **Small infrastructure needed**
- **Easy and flexible installation of anchors and gateways**
- **Freely scalable solution**
- **Tags with e-ink display for application data available**
- **Accuracy: 12" down to 4" depending on environment; system upgrade: reliable distance measurement via mini anchors assures assignment**
- **Suitable for SMIF Pods, FOUPs, Reticle Pods, carrier boxes etc.**

### System architecture:



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