



martr
power

Industrial automation
SECS / GEM protocol



SECS / GEM protocol

- This communication protocol is used by the semiconductor device manufacturers, and developed by the **SEMI** (Semiconductor Equipment and Materials International) organization
- This standard defines the messages, state machines and scenarios, which allows to control and monitor manufacturing equipment
- This interface can collect measurement data, defines variables, and selects recipes for products in an automated fab

The background image shows a long, brightly lit industrial factory floor. The floor is polished and reflects the overhead lights. In the distance, a worker in a white protective suit is visible. The ceiling has a grid of lights and structural beams. The overall scene is clean and organized, typical of a modern manufacturing environment.

SECS / GEM implementation

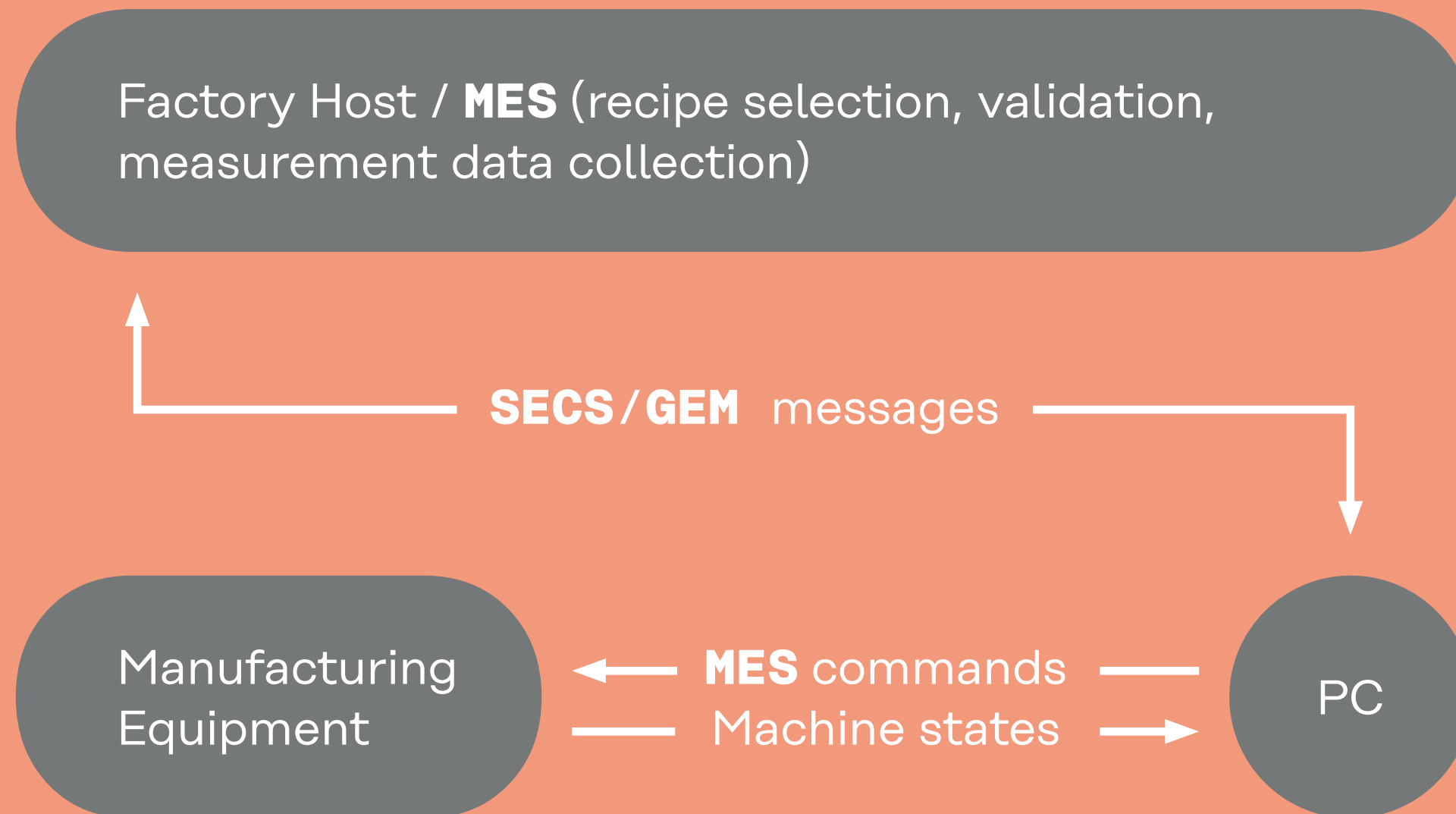
- Our company provides solution to implement **SECS / GEM** communication from the specification phase
- Define the state machines and measurement data according to the manufacturing equipment. Configure the **SECS / GEM** messages and send them to the **MES** (Manufacturing Execution System)
- Receive and process the commands from the **MES** system, and send it to the manufacturing equipment



SECS / GEM implementation

- Our team has experience how to apply the **SECS / GEM** protocol on a brand new or an old equipment which is already in the production
- We also have experience in the integration of these kind of manufacturing equipments, and know the requirements from the customer and vendor side as well

Communication between Equipment and MES





Sending **SECS/GEM** messages

- Apply the specification from the customer, which defines the requirements of the manufacturing equipments
- Gather and process the necessary values from the equipment, then create the defined **SECS/GEM** messages, and send them to the **MES**
- Receive and process the **SECS/GEM** commands from the **MES**, and notify the equipment



Thank you for your attention!

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