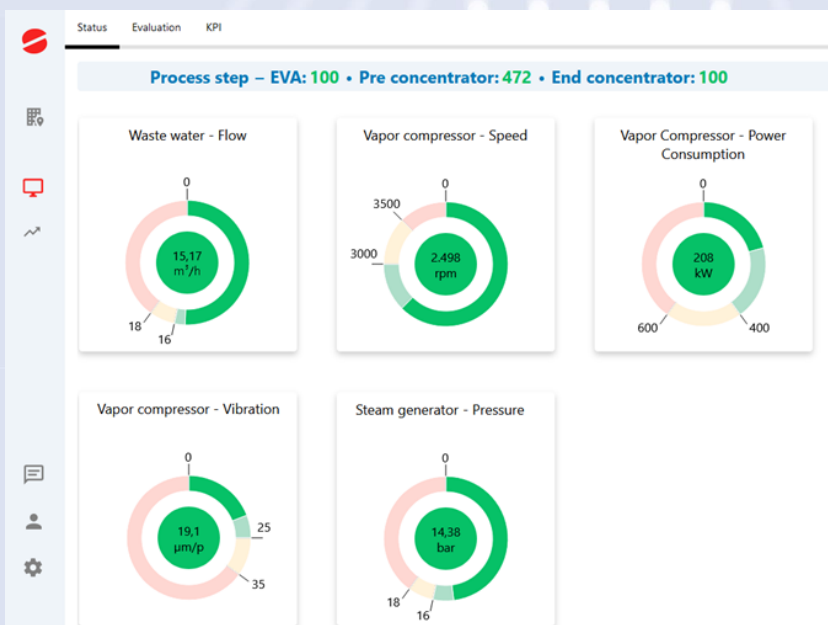


# SCHRADER Supervision

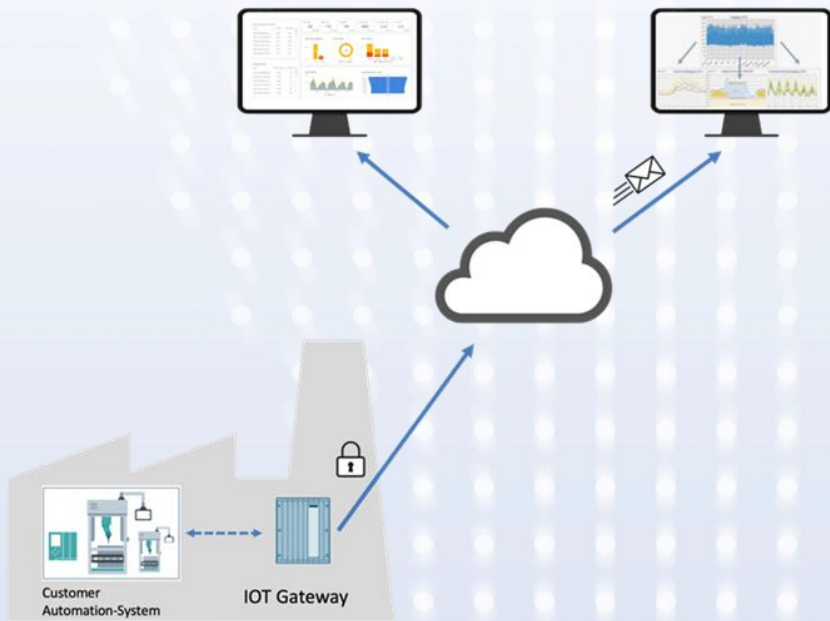
SCHRADER Supervision is a cloud-based system for the monitoring, storage and visualization of process and plant data for SCHRADER Evaporation and Steam Generation plants. The use of latest data technology makes it possible to view and analyse system or error statuses at any time during operation. Process anomalies can be detected at an early stage and faults can be avoided. Thus SCHRADER Supervision contributes to keeping plant availability high.



The SCHRADER Supervision is characterized by the following system features:

-  **Adaptive:** Optimal embedding in new and existing automation systems
-  **Scalable:** Modula expansion stages, suitable for any application
-  **Cloud-based:** Access from any place and at any time
-  **Multiconnective:** IoT gateway, integration of existing data acquisition systems
-  **Secure:** Encrypted VPN connection, Microsoft Azure Cloud





## The SCHRADER Supervision is clear and easy to explain:

- IoT gateway and cloud-based software application
- IoT gateway is physically connected to the plant's PLC and regularly collects measurement data, which is transmitted to the monitoring software in the AZURE Cloud via a secure Internet connection.
- Software stores and analyses the measurement data and calculates plant-specific key performance indicators (KPIs)
- Presentation of KPIs such as runtimes, faults, throughput, measured values, evaluations and maintenance plans is carried out in the customer-specific dashboard.
- Dashboard is accessed via an Internet browser (e.g. Chrome)

## The main advantages of the SCHRADER Supervision are:

- Increased plant availability through early detection of abnormal conditions or behaviors
- Optimized performance (OEE)
- Increased energy efficiency
- Avoid unplanned downtimes and optimize plannable downtimes
- Optimized maintenance and avoidance of unnecessary maintenance
- Optimized operation through increased data transparency and better system knowledge
- Powerful and secure digital cloud (IoT) interface that enables rapid interventions and diagnostics
- Continuous access to SCHRADER KNOW-HOW thanks to regular analyses and consultations
- Additional consultations by a SCHRADER employee can be accessed via the service arrangement

