

# DATA COLLECTION MODULE



- Smart Aggregation
- Event based logging
- Store-and-Forward database



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## Easy Cloud enabling of Predictive and Preventive maintenance

The integrated Data Collection Module (DCM) extends the Secomea SiteManager with advanced **Edge Data Collection capabilities**, that are typically only found in larger and more expensive IoT Edge gateways.

The DCM includes numerous features which can optimize the collected data before handing it over to the IoT Cloud, thereby reducing amount of transmitted data and need for extra Cloud computing.

The **Smart Aggregation capabilities** of the DCM can pre-process collected machine data, and thereby optimize the data before it is transmitted to the IoT Cloud.



This can be combined with specific **Event Triggers** that start data collection, initiate collection of additional data points or increase the frequency of data collection when certain thresholds are exceeded, or if certain machine events occur.

The DCM also includes **Store-and-Forward** capabilities for ensuring data integrity in case of IoT Cloud connectivity outage. So, even if the IoT cloud connection is lost, the Secomea SiteManager continues sampling data and transmits it as soon as the connection is re-established – giving you uninterrupted logging of your data.

By supporting **differentiated upload** to multiple IoT Clouds, simultaneously, the DCM also supports multiple use-cases for e.g. a machine builder as well as the factory owner, at the same time, without extra investments at the edge.

But most importantly, unlike any other Edge gateway, the SiteManager, in combination with the Secomea GateManager and LinkManager Client components enables you to effectively take action on machine data irregularities by allowing instant Remote Access to the machines for further analysis or troubleshooting.

### TECHNICAL SPECIFICATIONS

#### SUPPORTED COLLECTION PROTOCOLS

- Modbus TCP Client
- OPC UA Client
- HTTP Generic

#### SUPPORTED CLOUD PROVIDERS

- Amazon Web Services (AWS)
- Microsoft Azure
- Cumulocity by Software AG
- Schneider Electric, EcoStruxure Machine Advisor

#### SMART AGGREGATION

- Average Min/Max
- Over-/under threshold
- Advanced mathematical calculations

#### EVENT-BASED TRIGGERS

- Triggered from aggregated sample point
- Time-based triggering

#### STORE-AND-FORWARD DATABASE

- Optimizable & persistent storage
- Flexible scheduling
- Expandable capacity via microSD card(\*)

#### SECURITY

- Certificate-based encryption
- Security Audited against NIST SP800-115, OSSTMM, BSI Grundschrift Catalogue, IEC 62443-3-3 & IEC62443-4-2.

#### SUPPORTED IIoT GATEWAY MODELS

- SiteManager 11xx/33xx and 35xx(\*) series

(\*) microSD card is supported on the 35xx series.