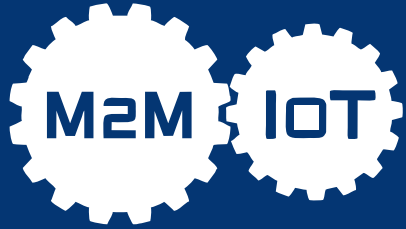


GENESYS



IOT SUPERVISOR SYSTEM (ITS)

IOT SUPERVISOR SYSTEM offering DEVICE SELF-REGISTRATION, FULL REDUNDANCY, TAILORED MONITORING and ALERTING of IOT DEPLOYMENTS.

Product Code: GSS-SM-200

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IOT SUPERVISOR SYSTEM (ITS)

The patent pending Genesys IoT Supervisor System provides simple yet powerful monitoring of deployed devices.

By receiving heartbeat messages from thousands of deployed devices, or 'things', the IoT Supervisor monitors their activity and alerts administrators to faults. It works by collating the heartbeat messages and intelligently rationalising a simple list of device health, reporting by exception and/or by health summary.

Using innovative technology that enables rapid deployment and re-configuration of devices, the IoT Supervisor is a must-have tool for modern IoT deployments.

DEVICE DEPLOYMENT

The IoT Supervisor works out-of-the-box, with no commissioning needed.

Prior to deployment, client software is embedded in the device to enable it to connect autonomously to the IoT Supervisor based on its IP address. Client embedding is recommended, but not mandatory for ITS use.

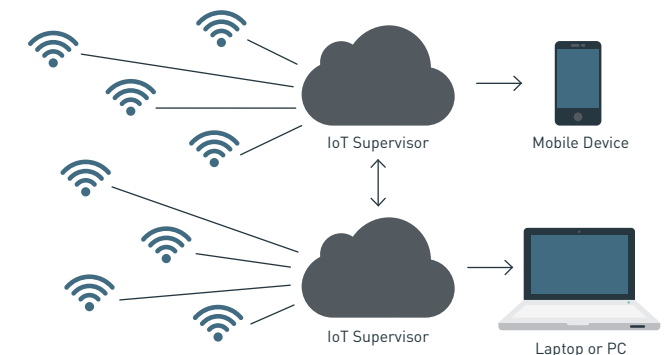
Once connected to the network, the device sends a registration message to the IoT Supervisor, enrolling it in the monitoring ecosystem and providing its monitoring protocols. These monitoring protocols determine how the IoT Supervisor should process messages and fault conditions sent from the connected devices.

If a new device is deployed or a device is re-configured, the device and new monitoring protocols are automatically sent to the IoT Supervisor for registration. This unique automatic registration process drastically simplifies large IoT deployments, saves time and ensures registration of all devices.

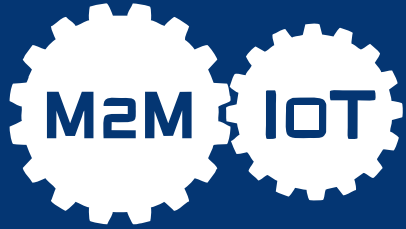
SERVICE-STATE MESSAGES

The cloud-deployed IoT Supervisor Service determines the health of devices known to it via the presence or absence of service-state-implicit messages sent by devices, which contain ancillary device's status and operational parameters.

When the IoT Supervisor receives a message, or fails to receive a message, it uses this event and related information to record the device status or send an alert if required. Alerting procedures are based on the monitoring protocols defined by device registration.



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IOT SUPERVISOR SERVICE

The IoT Supervisor Service can be provided as a cloud-based service from Genesys, or can be hosted in the client's environment - in the cloud or on a server machine. A seamless and secure web portal is provided to enable clients to easily monitor and configure their IoT Supervisor deployment.

MONITOR ANY THING

ITS-based supervision is not limited to things which have the embedded ITS Client.

The ITS Service is able to proactively ping other devices and things on a scheduled basis, and process device health in the same manner as with an embedded ITS Client.

TRANSPORTATION

The IoT Supervisor separates the transportation layer from the protocol entirely, meaning many transportation mechanisms are available. This includes Syslog, UDP, TCP, http, email and SMS, just to name a few.

SYSLOG

The IoT Supervisor uses a Syslog server to provide an endpoint for IoT log messages as well as a transportation option.

REDUNDANCY

Using two service-state monitors, the IoT Supervisor provides a high level of redundancy. The two servers monitor each other and if one fails the second takes over, ensuring continual monitoring of deployed devices.

