



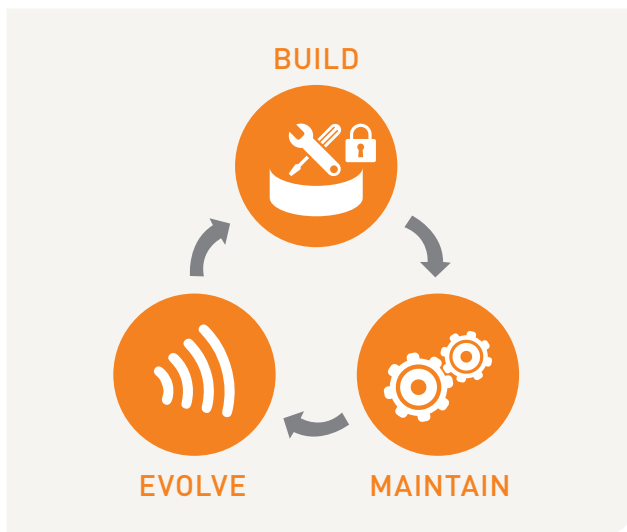
Cinterion[®] **SensorLogic** **Module Services**

Cinterion® SensorLogic Module Services

Minimizing costly service interventions and keeping devices secure for the duration of their lifecycle is of paramount importance to OEMs and IoT service providers alike. It is widely accepted that preventive maintenance strategies help reduce the overall cost of operations. The Cinterion SensorLogic Module Services are a set of management tools for Cinterion M2M Modules and Terminals that help detect situations that can impact connectivity, as well as proactively manage the lifecycle of installed applications and firmware.

Cinterion modules are embedded into all kinds of IoT devices and designed to provide reliable wireless connectivity even in the harshest environments.

Dynamic wireless network environments and fluctuating device conditions raise the need for ongoing changes and updates to optimize performance.



As IoT deployments expand, it becomes a challenge to maintain large device fleets. Smart strategies need to be put in place to securely build, maintain and continuously evolve IoT applications.

Gemalto Module Services help address these challenges by providing a robust solution which is tightly integrated with the Cinterion hardware and leverages Gemalto expertise in securely managing millions of distributed assets worldwide.

Cinterion Device Control

This solution provides a toolbox that covers all key aspects of the IoT application lifecycle:

- > **Fleet Access.** The SensorLogic Agent embedded in the wireless module establishes and maintains a secure link to the cloud back-end powered by Gemalto. Large-scale fleet operations, such as software updates, can be scheduled and executed automatically.
- > **Security.** An end-to-end encrypted management channel provides fraud detection and alarms to identify security breaches.
- > **Hardware.** Cinterion hardware health diagnostics help prevent operation beyond safe limits and provide file system management and automated file transfer.
- > **Connectivity.** Network diagnostics help identify modem details to detect faulty device behavior and take immediate corrective action.
- > **Application lifecycle.** Over-The-Air (OTA) Java application lifecycle management enables new feature deployment and fixes issues on-the-go.
- > **Firmware lifecycle.** Managed Firmware-Over-The-Air (FOTA) service helps keep the device updated and secure over the complete lifecycle.

QUICK ONBOARDING STEPS FOR GEMALTO CUSTOMERS

1

- > Register online
- > Provide customer ID



2

- > Provision devices in the web application



3

- > Your fleet is set-up and ready to go!



Supported Devices

Most Cinterion M2M Java Modules and Terminals now feature the embedded SensorLogic Agent, seamlessly enabling Module Services¹.

Onboarding and Set-up

Gemalto customers register by accessing the Module Services web portal and providing a valid customer ID. Bulk provisioning of large fleets is done within minutes based on the unique module fingerprint.

The flexible pay-as-you-grow model allows everyone to benefit by starting small and purchasing additional license packages as the fleet expands.

Two service packages are available to meet individual needs:

- > **UPDATE Services:** enable secure firmware updates to Cinterion devices
- > **CONTROL Services:** provide module and network health monitoring, Java application management, automated fleet tasks and more.

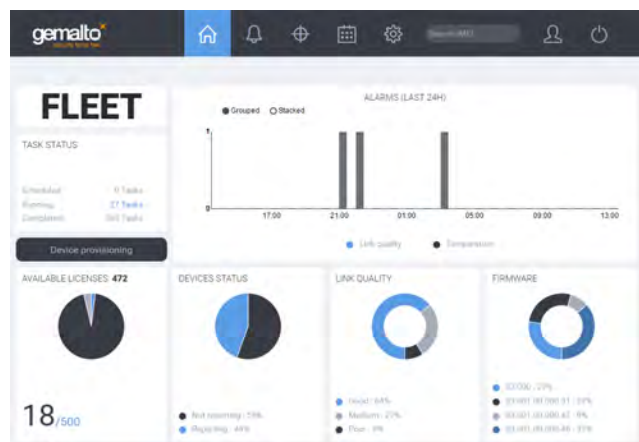
Trial accounts can be requested directly through the Module Services portal or by contacting your Gemalto sales representative.

Gemalto Hosting

The solution is fully and reliably hosted by Gemalto. If you have specific needs regarding uptime SLA and server availability, Gemalto is able to help you. Gemalto is your trusted partner to bring IoT solutions to life. Security is in our DNA and we strive to provide best-in-class solutions that respect the highest standards. Our hosting services comply with all common standards such as ISO-27001 and SSAE-16 Type 2.

Future-proof Solution

When growing in scale, full integration inside a larger IoT application system might be beneficial. Gemalto provides a set of RESTful web APIs to help realize this goal.



Dashboards simplify the most common operational tasks

Solution Key Benefits

- > Effortless service activation
- > Secure fleet access
- > Best module performance through easy OTA updates
- > Real-time connectivity monitoring for immediate corrective actions
- > One-click massive fleet configuration and operations
- > Fast application deployment for shortest time-to-revenue
- > Flexible pay-as-you-grow model

¹ Please contact Gemalto to confirm compatibility with specific products.

For more information, please visit:

www.gemalto.com/m2m, www.facebook.com/gemalto, or follow @gemaltom2m on twitter.

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