

DLM

Secure OTA Updates and Analytics with the ISS DLM Update Service

HIGHLIGHTS

CONNECTIVITY

- Intelligent network selection
- 2G/3G/LTE/5G
- Wi-Fi/Satellite/Tethered
- ISS Secure Cloud

SECURITY

- FIPS 140-2 Level 3 appliances
- Fully integrated PKI
- TLS 1.2/1.3
- Mutually authenticated sessions
- OMA-DM and Secure MQTT
- LDAP/SSO servers

MANAGEMENT

- Device query and campaign controls
- Graphical device modeling
- Differential updates and compression
- Payload agnostic
- Vehicle, inventory, production, etc.
- Automation servers (Jenkins, etc.)

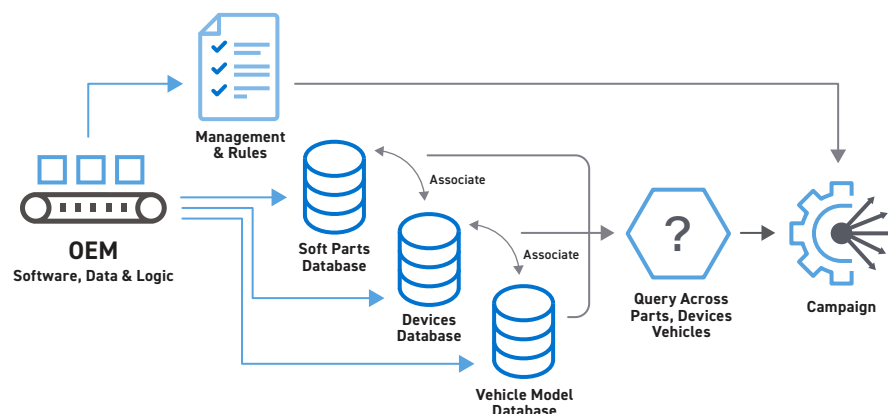
SCALABILITY

- All cloud, software and integration services are included.
- Cloud or REST API interfaces
- Amazon Web Services (AWS)
- Microsoft Azure
- Alibaba Cloud

Connected devices increasingly need to receive over-the-air (OTA) updates for software upgrades, bug fixes, security patches and to meet regulations. For example, the automotive industry recently imposed global restrictions on vehicle sales unless they have achieved OTA type approval.

The benefits of secure OTA updates are significant including: mitigation of recall expenses, faster cyber event response, quickly deploy feature enhancements, open new revenue opportunities and usability monitoring. But, to realize these benefits manufacturers need to manage thousands of electronic control units (ECUs) and millions of vehicles or devices globally, while ensuring support for a wide variety of hardware platforms and suppliers.

As a key element of the award-winning ISS Device Lifecycle Management (DLM) platform, the ISS DLM Update service provides hardware-agnostic, secure, and reliable OTA delivery capability across IoT, automotive and manufacturing applications. Using our secure management portal, customers can efficiently execute multi-ECU software and data updates at scale with configurable device and back-end business logic. Our analytics function provides a lightweight data collection capability using the same transport mechanism so you can retrieve a sensor payload and store it in a customer-configurable data lake for processing and interpretation.



The DLM Update service provides scalable, secure and reliable OTA campaigns for millions of devices or vehicles.

The Benefits for Automotive, IoT and Manufacturing

The ISS DLM Update service is a standards-based Open Mobile Alliance Device Management (OMA-DM) platform that is integrated with your enterprise IT system. It includes all the hardware, software, and expert services needed to deploy remote management and OTA updates, including:

COMPLETE MANAGEMENT

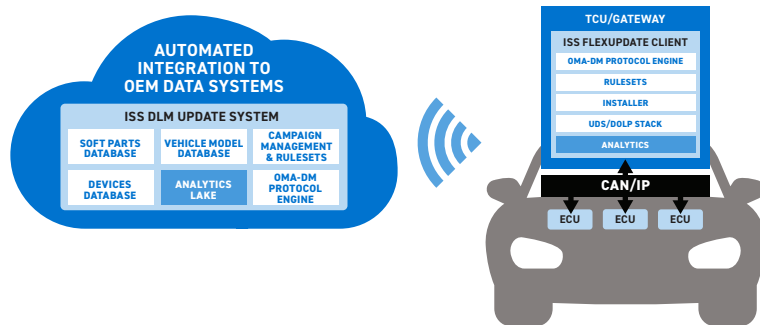
DLM Update provides robust and complete management capabilities along with unparalleled flexibility to modify, configure, and manage users, devices, vehicles, workflow, authorizations, campaigns, and scheduling over any network. Flexible OMA-DM and SCOMO protocols give developers the power to customize monitoring and control device data and operations.

SCALABLE UPDATES

Manufacturers need to add features, fix bugs, and continuously improve their products. The DLM Update service ensures fielded devices have the latest firmware — eliminating recalls and service costs. It is part of the proven ISS DLM platform that provides scalable updates in complex 24 x 7 x 365 manufacturing environments.

END-TO-END SECURITY

Remote device updates can be a source of weakness in your device management process. The DLM Update service offers proven end-to-end security to protect all data during transit and storage, including mutual authentication. Combine with the other elements of the ISS DLM platform, you can digitally sign updates and credential devices to satisfy industry requirements.



A turnkey solution that includes all the hardware, software and services for end-to-end OTA updates.

APPLICATIONS & USE CASES



HARDWARE AND SOFTWARE

The DLM Update service is hardware and software agnostic, including compatibility with all leading MCUs, MPUs, networking technologies (2G to 5G to Wi-Fi to proprietary), and operating systems.



PROVISION ROOT OF TRUST ANCHORS

With support for both symmetric and asymmetric trust architectures, the DLM Update service uses certificates or other trust anchors provisioned during manufacturing by the DLM platform or legacy key distribution systems.



FAST DEPLOYMENT

Use the advanced modelling features in DLM Update to rapidly generate packages for any type of use case: software, map, safety, graphics, data, calibrations, autonomous logic, new features, etc. And, then automate this packaging through the DLM Update service's REST interface.



INTELLIGENT DELIVERY

You get full control over which network will be used and how updates are applied for each campaign allowing OEMs to minimize costs in each geographic area.



MONITOR DEVICE STATUS

DLM update allows you to actively manage the health status of your deployed devices using push or pull strategies.



GLOBAL IMPLEMENTATIONS and SUPPORT

ISS has extensive experience with global deployments in the most complex manufacturing and environments that operate 24 x 365.

THE MOST EXPERIENCED PROVIDER OF EMBEDDED SECURITY PLATFORMS

INTEGRITY Security Services LLC (ISS) provides best-in-class embedded security products and infrastructure solutions for protecting smart connected devices from cyberattacks. With end-to-end solutions ranging from software toolkits to large-scale public key infrastructure and device lifecycle management, ISS secures over 2 billion devices across automotive, aerospace and defense, financial, medical and other industries. Trusted by some of the largest Fortune 100 companies, ISS signs and manages more than 3 billion software images per year and continues to lead the industry in security innovations.

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