

OneAgent OMA-DM

OMA-DM Based Client Software

OMA Device Management Standards have already wide used in Mobile and WiMAX Network for managing mobile internet devices and handsets. They help device vendors and operators reduce device recalls, costs of customer service and warranty, and deliver new services to the end users with revenue increasing. To ease device vendors' effort in delivering OMA-DM capable device, Works Systems provides a cost effective device middleware solution that can surely reduce the deliver cost and shorten the time to market.

A Turnkey Middleware Agent

Works Systems OneAgent OMA-DM is an OMA-DM based client software operated on many embedded OS platform. With offering a standardized set of APIs, it minimizes middleware integration efforts and dramatically reduces the time and cost on in-house development and maintenance.

Size Does Matter

Memory size is the major concern of device vendor and Works Systems fully understand this, the OneAgent OMA-DM is fully optimized in memory storage and run time memory requirement, it can fit varied device memory requirements, such as smart phone, USB dongle, modem module and gateway.

Complete OMA Device Management Standard Support

Works Systems OneAgent OMA-DM provides full support to Open Mobile Alliance Device Management series standards, such as OMA-DM, OMA-FUMO, OMA-SCOMO and OMA-ConnMO, and complies with WiMAX Forum OTA provision standards. With all major security implementation on SSL3.0 and TLS1.2 noted in OMA-DM standards, OneAgent OMA-DM is able to offer secure way for communications.

Works Systems also promises to follow the evolution of OMA-DM standards, such as OMA-DM v1.3, OMA-LAWMO v1.0, OMA-DiagMon v1.0, OMA-DCMO v1.0, OMA-DM Scheduling v1.0 and WiMAX Forum NWG R1.6 OTA Provision DRMD Phase 1, to offer the complete OMA-DM client software solution.

Proven Implementation

With Works Systems' profound experience in telecom Device Management solution, the OneAgent OMA-DM can truly meet and fulfill the real world deployment in mobile and WiMAX network environment. Through the works on our customer products and the interoperability in OMA TestFest, OneAgent OMA-DM is proven to work with any mobile and WiMAX network.

Product Summary

Device Management Features

Works Systems OneAgent OMA-DM provides a rich feature sets to support OMA-DM device manageability:

- Bootstrap
- Provisioning
- Configuration Maintenance/Management
- Software management and Update
- Fault Detection, Query and Reporting
- Firmware Upgrade

OneAgent OMA-DM enables OMA-FUMO to update device firmware over the air to fix bugs without device recall. Utilizing OMA-SCOMO let OneAgent OMA-DM update current software; deliver and install new services and applications on the device. Extending the functionalities with WiMAX Management Objects, OneAgent OMA-DM easily manages the WiMAX devices as well as services.

Security

Works Systems OneAgent OMA-DM is designed to provide a high degree and scalable of security. It is intended to allow basic security to accommodate less robust device implementations, while allowing higher security for those that can support more advanced security mechanisms. The following security mechanisms are implemented in Works Systems OneAgent OMA-DM:

- The protocol supports the use of SSL/TLS for communications transport between device and Device Management server. This provides transaction confidentiality, data integrity, and allows certificate-based authentication between the device and Device Management server.
- The HTTP and WSP layer provides an alternative means of device authentication based on shared secrets.

Specification Overview

Standard Compliance

- OMA-DM v1.1.2/1.2.1
- OMA-ConnMO v1.0
- OMA-FUMO v1.0.2
- OMA-SCOMO v1.0
- OMA-DLOTA v1.0
- WiMAX Forum NWG OTA Provisioning Specification R1.5

Security Method

- TLS 1.2
- SSL 3.0
- DES/3DES/AES
- MD-5/SHA-1

Session Protocols

- HTTP 1.1 over Standard TCP/IP
- WSP

OS Supports

- Linux 2.6, VxWorks 5.x/6.x, Windows XP/Vista

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