

# XTNDAccess Device Management SDK

## An Embedded Client Solution for Device Manufacturers

### BENEFITS

- Small code base enables developers to implement Device Management in memory-limited devices such as cellular phones, smart phones and PDAs.
- Shortens time-to-market and increases return on investment by reducing development cost and testing cycle
- Enables developers to focus on applications and system integration

The Device Management Working Group of the Open Mobile Alliance™ (OMA) standards organization defines management protocols and mechanisms that enable robust management of mobile devices. Using OMA Device Management, a management server can remotely set configuration parameters, troubleshoot and install software on a mobile device via different wireless transports.

The OMA Device Management 1.1.2 and Client Provisioning v1.1 standards specify the protocols and mechanisms that enable complete management of devices. Management capabilities include:

- Setting initial configuration information in devices
- Subsequent installation and updates of persistent information in devices
- Retrieval of management information from devices
- Processing events and alarms generated by devices

Device Management information can include:

- Configuration settings (WAP network access point configuration)
- Software installation and parameters (new application distribution)
- Software and firmware Updates (virus scan definition updates)
- Application settings (Browser Bookmarks, User information)

XTNDAccess Device Management Software Development Kit (SDK) is a full-featured toolkit that enables developers to integrate the Device Management protocols into a wide range of embedded devices. Designed for client devices such as cell phones, smart phones and personal digital assistants (PDAs), the development kit provides a complete suite of portable source code, including SyncML parsers, easy-to-use API's with comprehensive documentation and sample applications. This allows developers to reduce their development cost and shorten time-to-market.

With XTNDAccess Device Management toolkit, manufacturers can deliver on the promise of a connected world by enabling carriers to utilize industry standard methods for handling and exchanging information between mobile devices and configuration servers across various data networks.

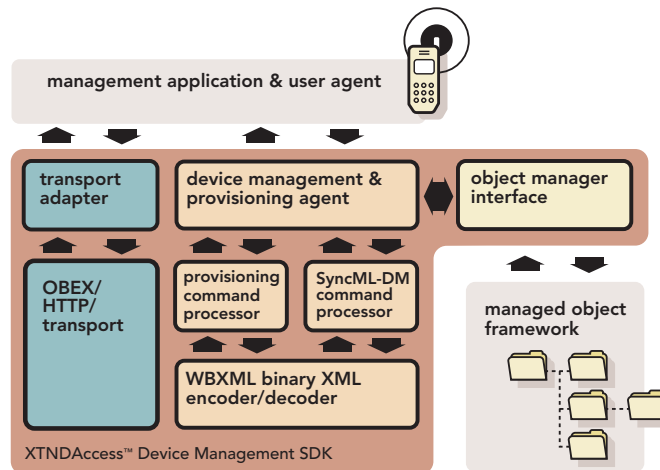
### FEATURES

- SyncML Device Management v1.1.2 compliant client with OMA Client Provisioning.
- WBXML processor (encoder/decoder) with support for SyncML Representation, Meta Info and WAP-Provisioning document type definitions.
- Open architecture enables management of an unlimited set of object types and tree structures.
- Portable ANSI-C code, compile time configuration options.
- Transport adapters for OBEX (client and server) and HTTP client transports.
- API documentation for Device Management / Provisioning Agent, Object Manager & Transport Adapter.
- Multiple device support – Client support for management by one or more management servers.
- Server layer authentication – Support for SyncML Basic and MD5 authentication as well as HMAC Integrity checking.

## DEFINITIONS:

- The User Agent initiates synchronization by initializing the Management Agent and the transports. It also manages the exchange of packet data between the Management Agent and the Transport Adapter.
- The Device Management & Provisioning Agent manages the message exchange process, including the flow of commands and responses between the management server and the Object Manager.
- The Object Manager Interface forms the conduit between the Management Agent and the Managed Object Framework.
- The Provisioning Command Processor handles OMA Client Provisioning command processing.
- The SyncML-DM Command Processor manages the building & processing of SyncML commands.

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