

# OMA Download Agent

## OMA DL Client application for mobile devices

### Benefits for Content providers and Carriers:

- Downloads are confirmed so the provider knows when a download was complete.
- A description of the downloadable media objects can be published on the presentation server.
- The user can be directed to a Web location provided in the download descriptor.

### Benefits for Device users:

- The probability of downloading a media object that the device cannot support is minimized.
- The user is given a chance to see the details about the download and confirm before actually downloading.
- Provides a familiar download experience independently of web sites and networks.
- The download object metadata in the download descriptor can be stored in the device and be made available for the user to read later.

The OMA Download Agent is designed for handling the download of objects such as ringtones, images or games using the OMA download Over The Air (OTA) specifications.

Any device that includes the OMA Download Agent will thus support posting reports back to the network after download. These reports are used as the basis for billing or monitoring the quality of the service by making sure customers actually receive the downloads.

Telecom carriers and the companies that provide payable content on carrier networks often use OMA Download to handle downloadable content both for billing and for checking the quality of service.

In order for a device to be able to download any content provided using the Download Descriptor format the device must also have the OMA Download Agent installed to interpret and handle the OMA Download Descriptor data and perform the actual download of the Media object.

Winwap's OMA Download Agent provides a quick way to add OMA Download Over The Air (OTA) capabilities. The Agent works both with Winwap's own Browser as well as any other browser, as the underlying operating system forwards the "DD" content to the Download Agent that then takes over the download.



The OMA Download Agent is available for many platforms and can quickly be made available for new platforms.

The OMA Download Agent is available for multiple platforms and is customized on a device by device basis to provide optimum performance on all devices.

Winwap provides full support and maintains the product which allows any OEM/ODM/Platform vendor to spend their resources on other things.

For further details and a free evaluation of any products you should contact our sales and they will set it up for you and provide further information about licensing the OMA DL Agent.

# OMA Download Agent

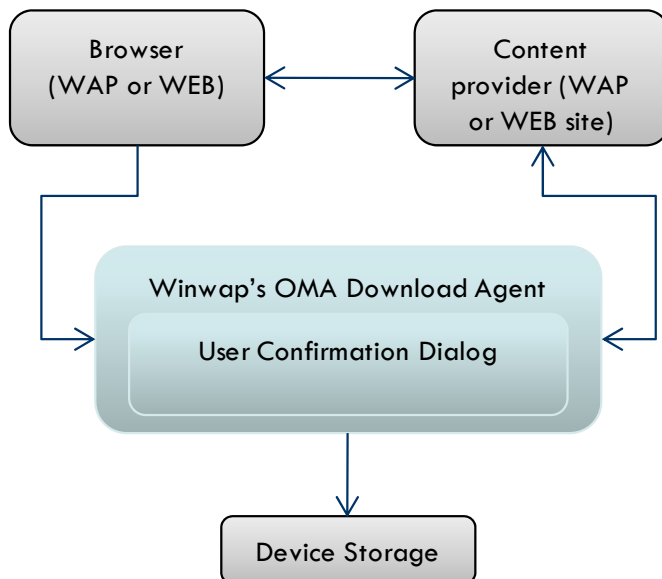
## High Level features

### General benefits of OMA Download

- Enables various payment models to support launch of e-commerce concepts.
- Avoids fragmentation of content space. Content for mobile devices with different capabilities can be published using a consistent concept.
- Create commonality between the download process of all types of media: e.g. games, melodies, and pictures.
- Enable both automated as well as manual client driven capability negotiation.
- Enable a mechanism that allows the initial download solution to be extended with new attributes and functionality.
- Quick and easy to implement so that time to deployment is short.

### Supported OMA Download Features

- Supports download using both WAP1.x and WAP2.0 protocols.
- Supports multipart/related and application/vnd.wap.multipart.related content types.
- Separate and combined delivery.
- User Authentication.
- Simple GUI to display information about object to be downloaded and options for user to decide what to do (download or cancel download).
- Object installation support.
- The OMA Download Agent is compatible with the OMA [OTA] OMA-Download -OTA-V1\_0-20040625-A specifications.



- 1 Download Descriptor Received
- 2 User Confirms the Download
- 3 OMA DL Agent receives the Download
- 4 Other events (server confirmation etc) are handled by OMA DL Agent.

**The OMA Download Agent provides a quick way to add full OMA DL/OTA support for your mobile device**

Do you want to download and save file into "My Images" directory?

Name: cutie\_dog50x50.jpg  
Size: 16.2KB

Location:  
http://host.com/img/cutie\_dog50

Open after download

Yes Save As... No

The Download Agent confirms the download with the user before it begins, and can further confirm to the server when the download has been successfully completed.



Mobile Internet Browsing and  
Multimedia Messaging

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business partner



Winwap Technologies is specialized in software technologies for Mobile Internet browsing (WAP) and Multimedia Messaging (MMS). The product portfolio includes the popular WinWAP browser for Windows and Pocket PC, the Multimedia Messaging (MMS) Client and software development kits for WAP browsing, WAP connectivity and Multimedia Messaging.

Winwap Technologies is a privately owned company that was founded by the current CEO, Mikael Krogus, in 1995. Since the first days of operation Winwap Technologies has been involved in telecommunications, being the local distributor for the world's most popular Bulletin Board System (BBS) software called PC Board before the dial-up BBS days were over. Over the years software for logistics and freight forwarding was developed and in 1999 the mobile Internet market was entered with the WinWAP browser. Today the main focus is on the mobile Internet browsing and Multimedia Messaging technologies.

At Winwap Technologies we constantly try to make our software better and keep our customers satisfied with our products. Whenever new mobile software technology is needed we will try to provide the best software possible!



All Winwap's products are available for hardware or software manufacturers and integrators that need to include the products as part of their own solutions and products.

The products can be customized and built for specific platforms, including desktop computers, notebooks, kiosks, handheld devices, feature- and smart-phones.