



Definition

The BIO Messaging component provides a means of handling incoming messages that are intended for processing by the device as opposed to being displayed to a user.

Examples of these types of messages include:

- Internet Access configuration: automatic updates of Internet settings
- email settings: update or creation of email accounts
- vCards: electronic business cards
- vCals: electronic calendar entries.

BIO stands for Bearer-Independent Object: this is a reminder that the handling of such a message does not depend on the type of transport (e.g. SMS or email) over which it was received.

How It Works?

The BIO Messaging component can be split into two parts: the BIO framework and the BIO parsers. BIO parsers provide functionality to parse and process particular types of message. It is possible to add new BIO parsers to provide support for different types of BIO message. All parsers derive from a base class CBaseScriptParser.

The framework manages a database of BIO message information that can be used to determine the type of the incoming message. A component called the BIO watcher is responsible for watching for new messages that fit one of these types.

Once a BIO message has been received, the BIO MTM is invoked to parse and process it. The BIO MTM routes the message data to the appropriate BIO parser.

The parse and process operations may perform different functions depending on the type of message. Sometimes the message payload may be saved as a file for some other component to process; sometimes the data is processed immediately.