MichMail Service

The MichMail Service is a unique service offered by Wireless Innovation Ltd designed specifically to support email based applications operating via dial-up connections across low earth orbit satellite networks.

The service provides a uniquely optimized method of completing a dial up call to the internet via Low Earth Orbit satellite networks.

Rather than dialling a terrestrial Internet Service Provider to gain internet access, the logger simply dials a dedicated network access number which is actually answered within the satellite gateway and then passed directly onto the Internet via a high speed backbone.

This service provides significant benefits as the call is immediately answered digitally within the satellite gateway equipment removing the need for lengthy modem negotiation prior to the PPP session being established.

The logger is then sent its message via email (as per usual), however the Mail Servers used to receive and forward the Emails are dedicated servers provided by Wireless Innovation Ltd to support this service.

As well as providing SMTP relay to deliver outbound Emails, the mail servers also provide a POP3 mailbox for each modem. By having dedicated mail servers used only to relay emails to/from the loggers, significant optimized mail filtering can be carried out (such as filtering by sender, subject, size, age or content) essentially allowing only valid emails destined for the device to be stored, reducing the data to be downloaded from the POP3 mailbox, and hence reducing the call lengths.

Unlike other ISP services, the MichMail service provides complete geographic independence, the access number is network specific rather than related to a specific country allowing the same number to be used regardless of the country in which the modem is operated.
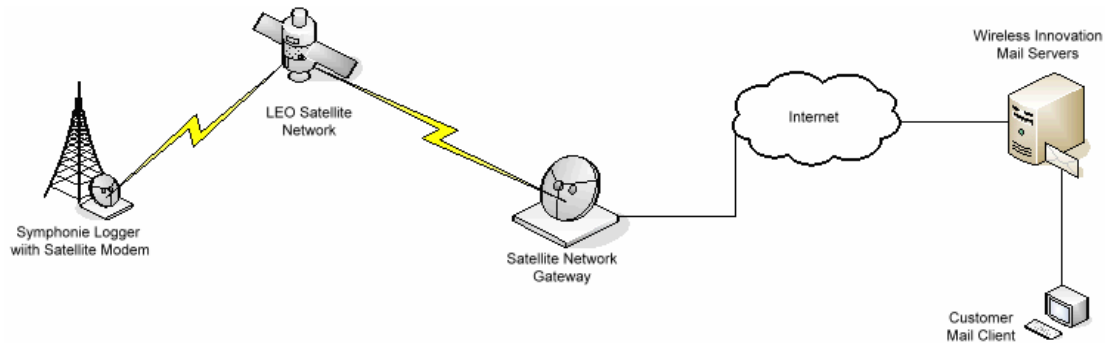
Figure 1. Typical Setup

Advantages

- Minimum possible call time
- No handshaking delays as modem directly connects to satellite gateway using a digital bearer circuit rather than negotiating the connection speed down from 56K baud rate typically set on modems by terrestrial ISP's.
- Connection from the satellite gateway is now a high speed TCP/IP link.
- No terrestrial PSTN connection involved in the call path.
- Exceptional SPAM filtering of mailbox, to ensure only "update" emails reach the field device or datalogger.
- No setup of ISP specific parameters for each remote site, all parameters are common regardless of location where the modem is operated.

POP3 Webmail Interface

The service also provides a full webmail interface for each POP3 account, this allows users to monitor the mailboxes and check for erroneous mails. The web based access may also be used to configure the advanced email filtering service.

<u>Billing</u>

The MichMail service is provided to users free of charge as an additional service as part of the Wireless Innovation prepaid call packages or is available as an additional service for customers using Postpay

<u>Connectivity Settings</u>

Iridium Dial-up connectivity

Phone Number: 008816000023 or 008816000025
Username: <not required>
Password: <not required>

IP Addressing is issued via DHCP.

Mail Server Settings

SMTP Outbound Mail Server: SMTP.Michrosat.com

Authentication Optional, username & password are supplied on account setup.

POP3 Inbound Mail Server: POP3.Michrosat.com

Username & password supplied on account setup.