Hybrid Communications
Secure redundant satellite and cellular

Galaxy 1 has developed a hybrid connectivity solution that allows customers to utilise two independent data paths from a single terminal providing automatic failover. Aimed at the utility market, using dedicated private APNs across both data paths offers a secure network that provides a single IP at the endpoint (RTU or other device).

A fully integrated solution with PRISM

In partnership with Cobham and Inmarsat, Galaxy 1 employs a Cobham PRISM© server to route all traffic through a multi-path tunnel providing a continuous connection. Routing of both data paths, whether it be satellite and cellular or satellite and satellite, is controlled by the Cobham PRISM© server.

At the remote site a Cobham Explorer 540 BGAN M2M with an integrated LTE module is deployed. The all-in-one terminal works seamlessly and in conjunction with the PRISM© server.

Provisioning and management of the connection

Through Galaxy 1's provisioning platform IBIS, both SIM cards can be activated in a single process. IBIS also provides the ability to set firewall restrictions and assign customer private networks at the time of provisioning. Call Data Records (CDRs) are provided through IBIS for both satellite and cellular networks providing report functionality.

Usage on the terminal can be monitored per terminal subscription or per individual SIM card. Alerts are sent when traffic is exceeding the levels in the monitor.

Key functionality
Satellite airtime
Cellular airtime
Secure connections
Single IP solution
Primary/secondary set-up
Real time connection overview
Remote commands
Automatic connection restoration

Remote Terminal Management

Remote Terminal Manager (RTM), the monitoring platform allows the service provider to send different command controls to the terminal, such as connecting/disconnecting, terminal status and GPS location. RTM also provides near real-time monitoring of the connectivity—both communications paths and data sessions are visible.

Single IP solution

Both SIM cards on the Hybrid Terminal can be reached remotely by a single IP address from the customer IP address range.
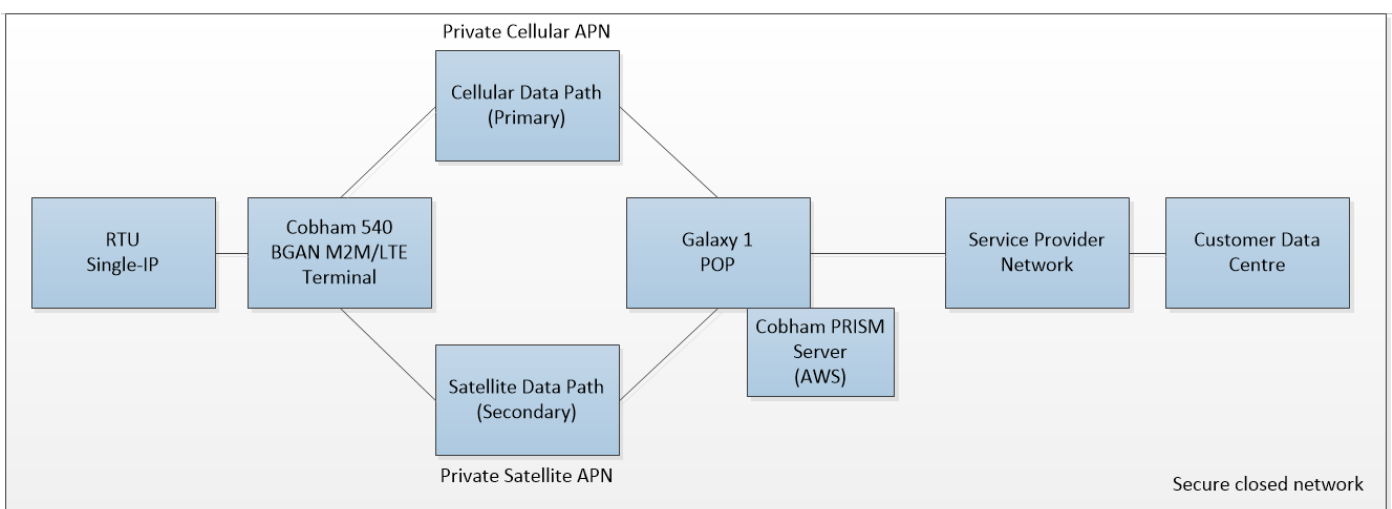
Primary/secondary set-up

The flexibility of Hybrid Communications allows you to nominate either connection as the primary connection the terminal should maintain.

Secure connectivity

The Galaxy 1 network spans the globe and combines industry standard data centres with a redundant hardware infrastructure as well as redundant connectivity. Galaxy 1 has partnered with a number of Tier 1 terrestrial telecommunications providers, ensuring 99.8 availability of the network. This includes private point to point networking, NERC CIP Compliance, physical separation of data, device security, asset tracking, command centre control and monitoring, automated intelligent analytics, secure integration to utility systems and core network engineering support.

Private Cellular APN

Cellular Data Path (Primary)

RTU Single-IP — Cobham 540 BGAN M2M/LTE Terminal — Galaxy 1 POP — Service Provider Network — Customer Data Centre

Cobham PRISM Server (AWS)

Satellite Data Path (Secondary)

Private Satellite APN

Secure closed network

Related services:
Secure Utilities Network

More information
Please contact your account manager or visit www.g1sat.com .