

Router Unstructured Digital Inter-Working Connectivity Solution (RUDICS)

RUDICS is an enhanced Gateway termination/origination capability for circuit switched data calls across the Iridium satellite network. Standard data rates on an Iridium channel are 2400 bps. With RUDICS, channel data rates can reach speeds up to 10 kbps. Up to 8 channels can be combined to attain system data rates of 80 kbps.

There are four primary benefits of using RUDICS as part of a data solution over conventional PSTN circuit switched data connectivity or mobile-to-mobile data solutions:

- 1) Elimination of analog modem training time
- 2) Increased connection quality, reliability, and maximizing throughput
- 3) Protocol independence
- 4) Both Mobile Originated and Mobile Terminated calls are rated at the same rate

The basic architecture for a Mobile Originated call is illustrated in the diagram below:

