- 3G failover for fixed line broadband connections
- Ease of deployment
- Minimal change to existing equipment
- Cost-effective backup
- No GW2040 configuration needed

White Paper

Wireless Backup

GW2040 Series Router

- 3G wireless router with support for HSPA, UMTS, EDGE and GPRS
- 4 port Ethernet switch
- Dual SIM failover
- SMS support

Fully featured access router with support for the following protocols:

- RIP
- BGP
- OSPF
- GRE
- IPSec

GW2040: PPPoE to 3G Bridge

Easy to deploy, cost-effective back up for mission critical applications

The Problem

Resilient broadband connectivity is becoming a pre-requisite for businesses as more and more applications move to the cloud. For many companies broadband access is a necessity to carry out their daily activities. As a result network downtime is an unthinkable prospect and more often than not service providers have to commit to more stringent SLAs than before.

3G wireless connections are an attractive form of backup connectivity as mobile networks become more reliable and data tariffs begin to drop. Mobile networks continue to improve and with the introduction of HSPA and more recently HSPA+, 3G bandwidths are beginning to come in line with fixed line services. As well as better bandwidth, the latest technologies offer better reliability, availability and lower latencies than previous mobile standards. So how do service providers add 3G resilience to their fixed line router?

The Solution

The figure below shows how the Virtual Access GW2040 can be used to offer a 3G backup service to an existing fixed line service router. The fixed line router is configured with a backup dialer PPPoE client interface, which connects to the GW2040 configured in default PPPoE Bridge modem mode. This means that the Virtual Access router can be delployed with no additional configuration needed. When the primary connection on the fixed line router fails, all traffic is routed through the backup dialer interface to the GW2040.