



## Signaling Gateways

The Fusion 1000 Series of Signaling Gateways works by terminating all protocol links within the system, passing the calls through a call control engine and then regenerating the protocols on the other side. This allows a very flexible "any to any" configuration rather than restricting the types of protocols that can be converted.

The following examples show typical applications for the Fusion 1000 Series. This is not an exhaustive list and many other permutations are possible.

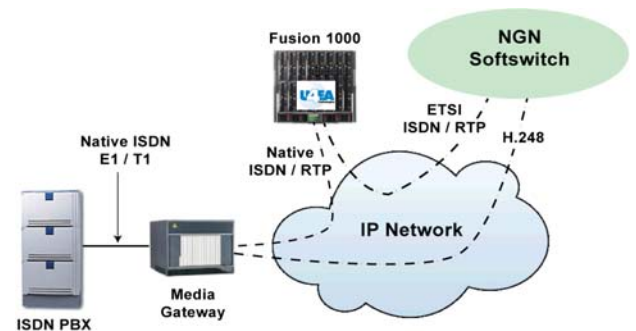
While both voice and video are sensitive to delay, they have differing packet loss and bandwidth needs. Running these applications together over a converged IP network, therefore, requires a new approach to application prioritization. The future-proof nature of U4EA's GoS, with multiple quality classes, guarantees the best voice, video, and data convergence and delivery.

### ISDN-ISDN Conversion

The Fusion 1000 in this example is used to convert ISDN signalling protocols that are not supported by the Next Generation Network infrastructure to an ISDN signalling protocol that is supported.

Typically Next Generation Networks will support the most common ISDN signalling protocols but not necessarily country-specific or specialised protocols.

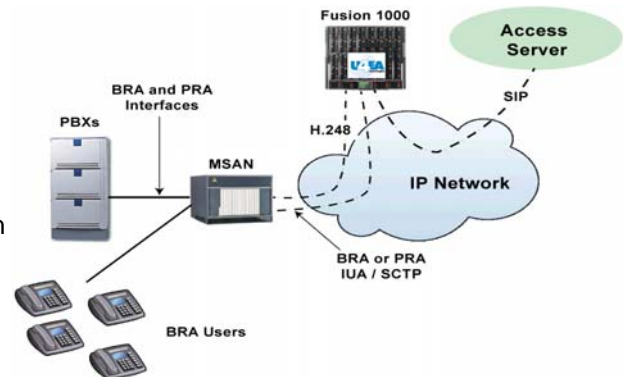
In this example the Fusion 1000 receives ISDN signalling channels from the Media Gateway carried over RTP. The Fusion 1000 terminates the ISDN signalling and converts it to another ISDN signalling protocol and forwards this over another RTP link to the SoftSwitch. The SoftSwitch controls the Media Gateway using H.248.



### ISDN-SIP Conversion with H.248 media control

The Fusion 1000 in this example is used to add support for legacy ISDN services to a Multi Service Access Node (MSAN) and Access Server network.

In this example ISDN signalling links (PRA or BRA) are forwarded from the MSAN to the Fusion 1000 over IUA. The Fusion 1000 registers the users on each ISDN link with the Access Server using SIP. ISDN calls from the attached equipment are then converted by the Fusion 1000 to SIP calls towards the Access Server. The Fusion 1000 then sets up the media paths to and from the MSAN via H.248 using information provided by the Access Server.



ISDN users thus appear as SIP users to the network.