



Echo Cancellation for International Gateways

Ditech Platform

Ditech's HEC solution for international gateways is available on the following platforms:



BVP Flex f100
OC-3/DS-3/STS-1/STM-1



**Quad 2 E1 or Quad 2 T1
Carrier Shelf**

Ditech Networks' Hybrid Echo Cancellation (HEC) solutions completely remove the annoying hybrid echo frequently encountered on international calls. Ditech's world-class solutions can also provide automatic level adjustment and other voice quality features to meet the needs of international gateways.

In international gateways, hybrid echo is present due to the digital-to-analog conversion at the 4-wire to 2-wire hybrid. International calls often travel over long distances, with significant propagation delay that makes echo more noticeable. Switching, signal processing, and propagation delay also contribute to the total end-to-end signal delay. International gateway switches may not include hybrid echo cancellation, or the echo cancellation performance may be inadequate.

The Solution

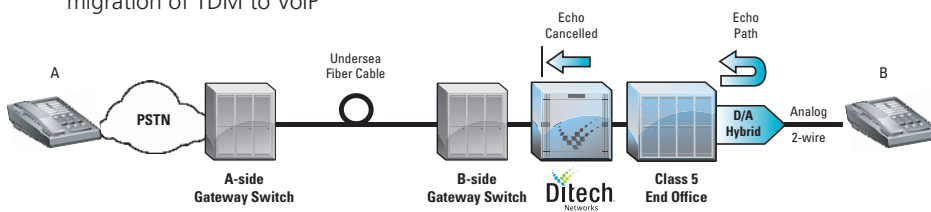
Ditech offers both narrowband and broadband platforms that include the following features:

- Industry's longest dynamic echo cancellation – up to 192 ms tail – ensuring consistently clear, echo-free calls, even in the face of network migration of TDM to VoIP

- Fast, stable convergence of less than 50 ms, with 30 dB or better ERL+ERLE
- Industry-leading performance cancels echo with ERL up to 0 dB; >35 dB ERLE (with 6 dB ERL) at -10 dBm0 input
- G.164, G.165, and G.168-2002 compliance
- Low per-channel power consumption reduces cooling and power costs
- High density saves valuable floor space
- Remote access and provisioning with Ditech's easy-to-use element management systems

For HEC with an expanded suite of sophisticated voice enhancement features, Ditech recommends its VQA™ solutions.

Contact your local sales representative or Ditech's headquarters at the phone number and address below for more information.



Ditech's HEC Solution for International Gateways

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