

# networkFX

Emulating the effects of the Network

## NetworkFX ConNIE™ Converged Network Impairment Emulator

### TIA-921/ITU-T G.1050 Industry Standard Model for Impairments

The TIA model was developed to answer the following question.

*"What are the impairment levels that an application will encounter when deployed in the 'real world'?"*

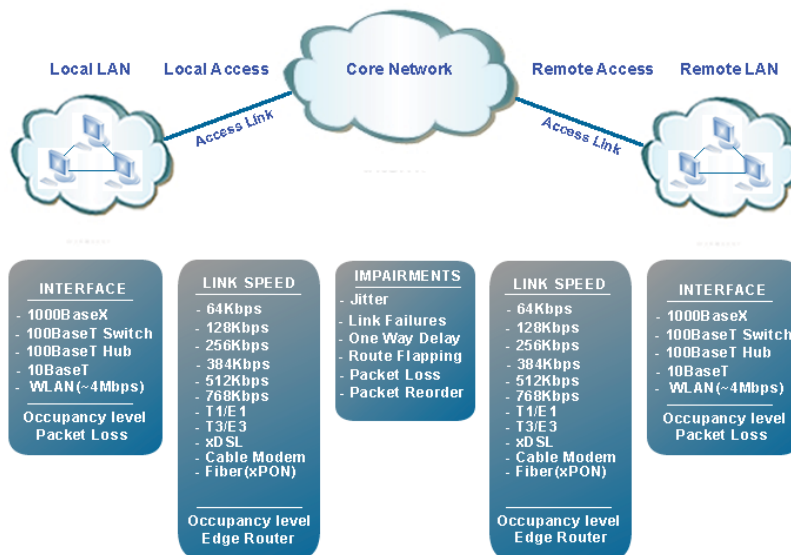
To answer this question the Telecommunications Industry Association (TIA) worked for more than three years on an impairment model based upon information gathered from many service providers as to the impairment levels that exist in different types of networks.

The TIA defined three categories of networks.

- 1) A 'Well Managed' network corresponding to a network with a premium service level.
- 2) A 'Partially Managed' network would have a less stringent service level agreement.
- 3) An 'Unmanaged' network would be like the 'Internet' where impairments can range from good to very bad.

ConNIE™ with TIA Option is the first and foremost implementation of this industry standard model.

#### TIA-921/G.1050 Network Model Topology



The model is based upon five segments defining an end to end communications path. The segments are Local LAN, Local Access Link, Core Network, Remote Access, and Remote LAN Link.