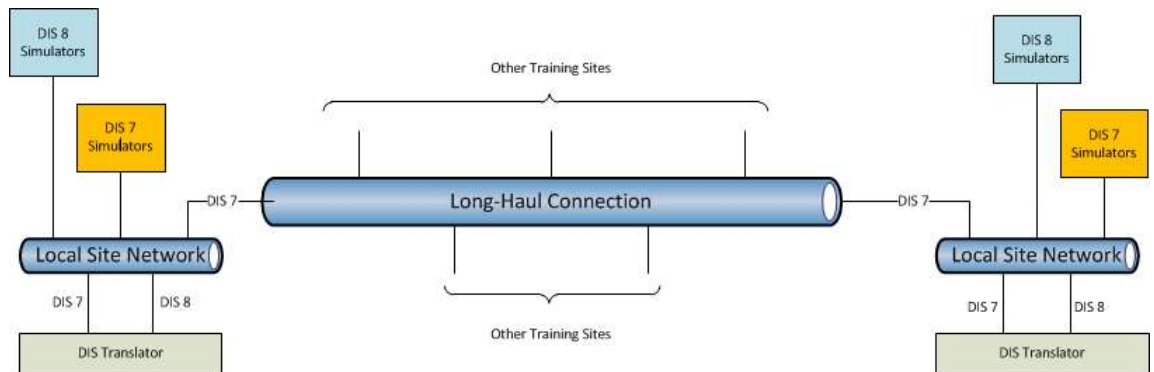# DIS Translator™



## BACKWARD COMPATIBLE

Ensures older DIS versions (ver 5 thru 7) remain operational by seamless translating traffic from local and long hall connections that are controlled by a single easy to use interface.

## TIMELY AND EFFICIENT

DIS Translator provides significant advantages in the translation workflow and will save hundreds of hours typically needed to resolve compatibility issues, not accounting for mission training downtime. Our DIS Translator will save significant time and cost through automatic translation, eliminating mission impact.

## CONSISTENCY

One of the most significant advantages of using DIS Translator is ensuring fully integrated simulations using multiple DIS protocol versions, ensuring mission training readiness. DIS Translator provides consistency and reliability across numerous simulator training programs.

## DEMO READY

Contact DIS Appliance Co. to setup a demonstration of our DIS Translator.

sales@disapplco.com
505-890-8356
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With the advent of DIS Version 8 (DIS 8) Protocol Data Units (PDUs), the world of simulator networking is changing. DIS 8 is the third generation of DIS and it will not be backward compatible with older versions of DIS. It is unreasonable to expect that the hundreds of simulators will be upgraded to the new standard at the same time. Newly updated simulator systems using DIS 8 will be unable to communicate with those simulators that have not been updated, thus eliminating the integration of essential simulators to cohesively participate in mission rehearsals. This may cause critical disruption in the training capabilities across all branches of the military.

All the previous DIS Protocol versions, up until version 8 have been backward compatible. If a simulator were to receive a different version PDU, there would not be a major impact. Worst case, the PDU may be ignored.

The latest version, **DIS 8, which is currently being defined, is not backward compatible**! This will be problematic as all simulators have to be updated to operate on a DIS 8 network. If a legacy simulator receives a DIS 8 packet, the results are unpredictable due to the format of the new DIS PDU's. Receiving a DIS 8 PDU could crash a simulator expecting a version 5-7 PDU.

### DIS TRANSLATOR

The DIS Appliance Co. **DIS Translator** solves this compatibility problem by providing a bridge between legacy DIS Versions 5 to 7 protocols and those using newer versions such as DIS Version 8. It seamlessly translates the traffic generated on each side of the translator and outputs compatible information on the other side. It performs this task very quickly (less than 50 µSec) so as not to introduce additional latency into the system.

Physically, it consists of a single rack mounted computer that handles all the traffic for a given exercise for a site.

All the inter-site data for a given mission is transmitted using a single version of DIS, which means long-haul bandwidth is not affected.

If multiple exercises are occurring simultaneously, this can be handled by installing additional DIS Translators for each exercise. The translators are controlled through a single easy-to-use user interface.

**DISApplianceCo.**