



Case : Online Data Compression on International High-Speed Satellite Links

Client: AMADEUS Airline Reservation System

One of the world's largest airline reservation systems.

Problem:

How to achieve more throughput on the existing 256 kb/s satellite links to the Far East and also terrestrial links to France (Air Inter); satellite link systems are expensive and not freely available when required on short notice. Provide data security during transport. Response time in online terminal situation is long due to satellite delay time.

Aim:

Reduce link cost and reduce response time for better customer service with added data security. Do not change existing front end systems.

Solution:

Install *Online Data Compression Systems* in Munich and Bangkok to handle both satellite links; install same hardware on Munich – Toulouse link to Air France. Compression ratio over time (2.5 years) has shown to be about 2.5:1 making more efficient use of the satellite and terrestrial link. Efficient HDLC protocol handling reduces total system response time significantly over the satellite (customer terminal response is about equal for processing carried out in Munich compared to on site in Bangkok, despite satellite link!). Cost reduction is about DM 3 million in three years. Due to compressed data, data security during transport is inherent. Line management software provided in our units shows all link data with downtime, etc. and helps to monitor the line(s).