REUTERS WORLD NEWS EXPRESS
Specifications Overview

Introduction

The following equipment and software has been specified to receive Reuters World News Express (WNE) videos and scripts. Reuters is providing this equipment at no extra charge and it includes an IP/DVB Receiver and the WNE PC.

Reception equipment

The reception equipment consists of an IP/DVB digital receiver and a Reuters-supplied PC. The receiver extracts IP data from the Reuters satellite-based transmission signal. This content is then processed on the WNE PC.

Hardware:

SkyStream EMR IP/DVB Receiver

- 19-inch rack-mountable chassis, 1 RU rack height
- Two 10/100 ethernet ports
- Receiving frequency:950 MHz - 2150 MHz
- Input signal level:-25 dBm to -65 dBm
- QPSK & BPSK Ddemodulator
- 1.5 - 45 Msymbols/sec
- Viterbi Inner Code: K=7, R=1/2, 2/3, 3/4, 5/6, 7/8

WNE PC

- Intel Pentium P4, 3.2GHz, 2GB RAM
- 120GB HD/2nd 320GB HD
- 10/1000 ethernet NIC PCI
- Stradis SDM280 MPEG2 Video Decoder Card

Stradis Card

- Video – decodes full MPEG 4:2:2 profile or MP@ML (4:2:0) up to 50 Mbps
- Digital video output - Serial Digital Interface (ANSI/SMPTE 259M-1997) with 8 channels of embedded audio (ANSI/SMPTE 272M-1994), BNC connector
- Audio – decodes four stereo channels of MPEG-1 layers 1 and 2, ISO/IEC 11172-3 or MPEG-2 layers 1 and 2, ISO/IEC 13818-3.SMPTE 302M-1998 uncompressed audio. IEC 61937/SMPTE 337M-2000 compressed digital audio output of AC-3 & ATSC A/52 on AES3 outputs
- Digital audio outputs – Two AES3 digital audio outputs through a DB-15 connector
- Equipment supplied with an Audio Cable with 2 XLR connectors for balanced audio outputs and 1 BNC connector for digital audio output

Software:

- Windows XP Operating System SP3
- Internet Explorer 7
- zBand Client
- Reuters File Direct Software

File reception

World News Express is delivered over the current Reuters satellite-based transmission signal. The WNE stories are taken from the transport stream and processed by the software running on the WNE PC.
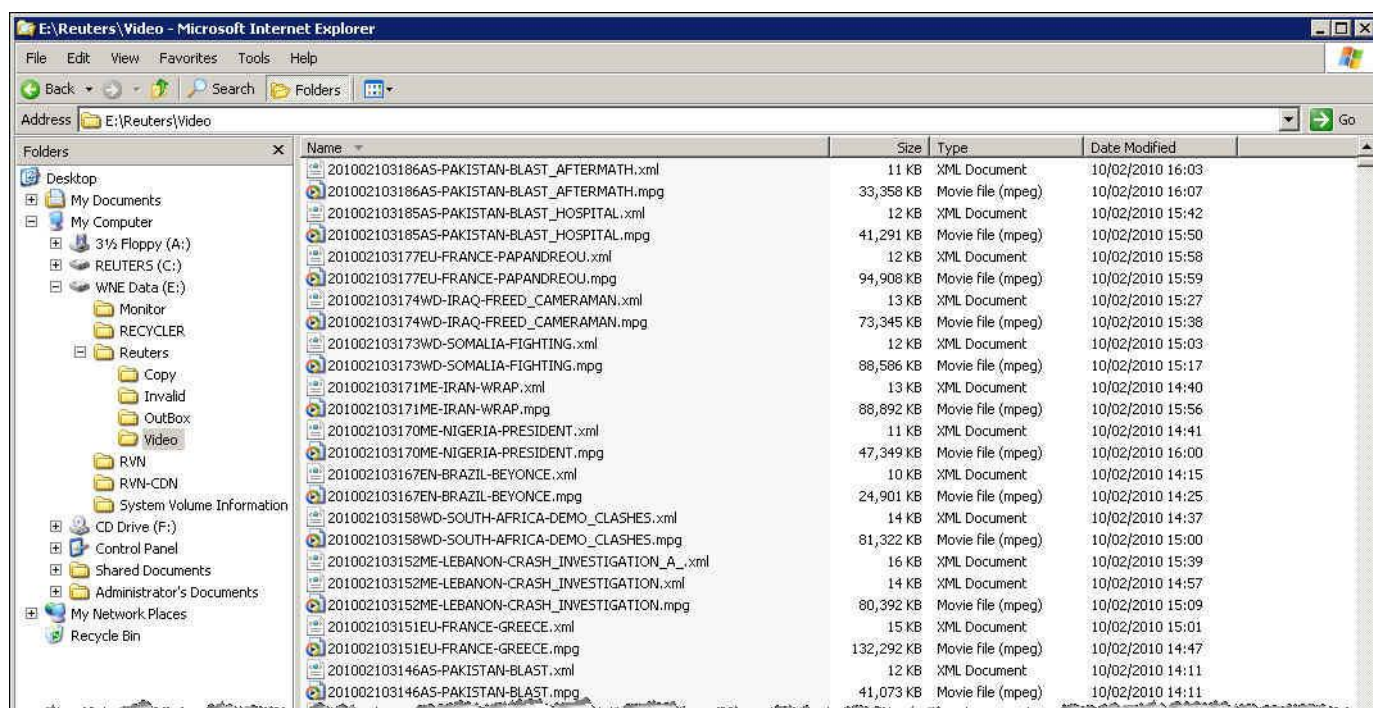Each WNE story is comprised of two files:
- an XML script file (contains metadata describing the news package)
- a video file

WNE file management, transfer and storage

The Reuters-supplied software running on the WNE PC manages the reception, storage and purging of all WNE content as needed. It also automatically manages the utilization of space on the WNE PC hard drive. All stories are available on the WNE PC for approximately 10-14 days (depending on your subscriptions and the size of files being stored). The oldest files are deleted first when the disk drive reaches 90% of its storage capacity. Stories (video & script files) can be accessed at the following locations (sample files shown below for illustration only):
- **Video – E: \Reuters\video [.mpg files]**
- **Script – E: \Reuters\video [.xml files]**

Video and Script [.mpg files/.xml files] files located in E: \Reuters\video

Viewing and Playout of content files

WNE content is presented via your Reuters WNE website. Video can be viewed and output in MPEG2 format via SDI or analog or transferred to a server on your network via Reuters-supplied FTP software. The WNE PC also provides an option to playout the latest stories for viewing in a recurring loop. The number of stories in this loop is configurable by the client. The loop will always contains the latest stories (i.e., older stories will naturally "age-out" of the loop).