## Japan Broadcasting Corporation

#### Latest file transfer situation at NHK



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  - News coverage of the 2008 Sichuan earthquake in China
  - Transmission on the sea from the coast of Eastern Somalia

- 2. New reception server system for file transfer Integrated file reception and playback are available
- 3. Remote Camera Monitoring system

  A huge streaming and storing system for remote cameras



### Latest topics

#### The Sichuan big earthquake in China was transmitted using IP equipment



IP Video Phone



Streambox











Streambox



FTP server



# Latest topics

#### Transmission on the sea from Somalia

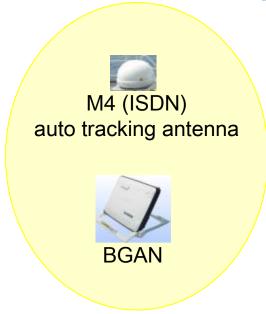
using satellite equipment

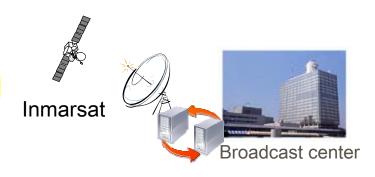




Streambox









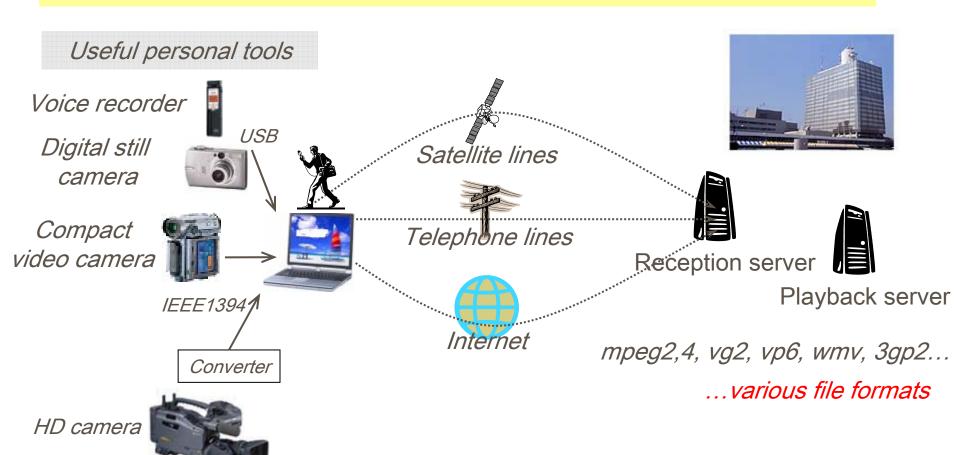






# Background of file transmission

Material delivery using commercial equipments, personal tools



A totally Integrated Reception System is desirable



#### 1. Various file formats must be playback

- Video file format; wmv, mp4, mov, avi.....
- Audio file format; wma, mp3, m4a.....

# 2. A new application that will display the remaining transmission time

- This system gets the file size from header information in the file.
- In order to get material ready in time for a news program.

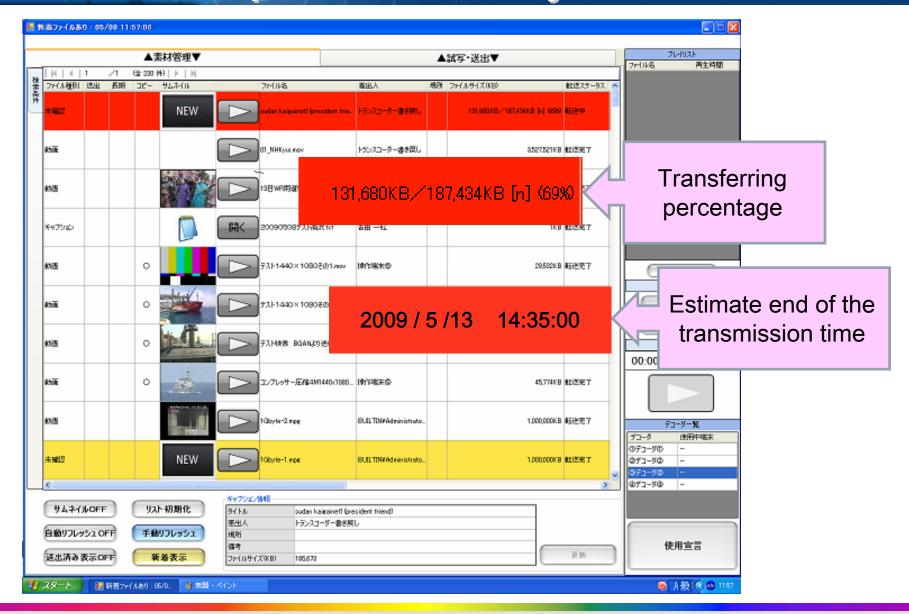
#### 3. Transfer protocol

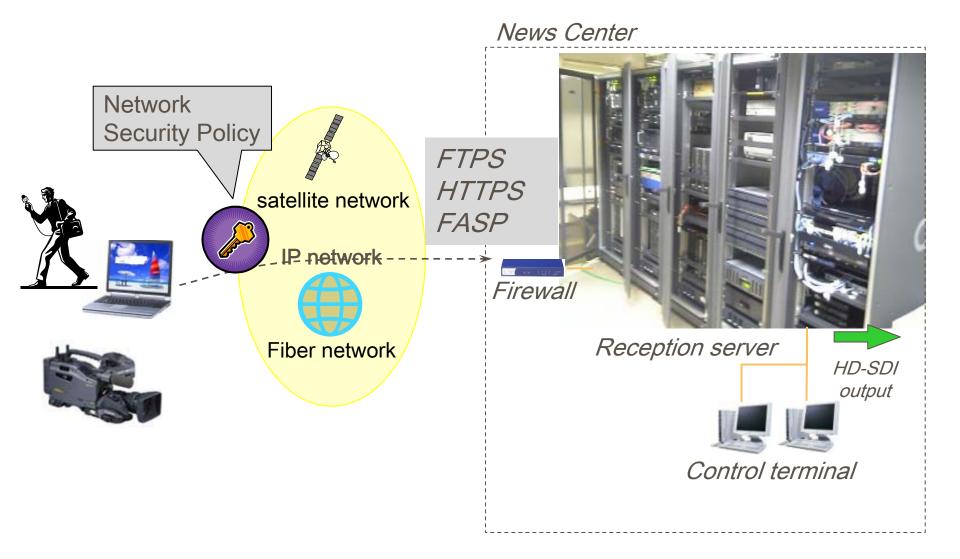
- FTPS (File Transfer Protocol) is main method.
- HTTPS (Hyper Text Transfer Protocol) is available
- Fast file transfer application is available

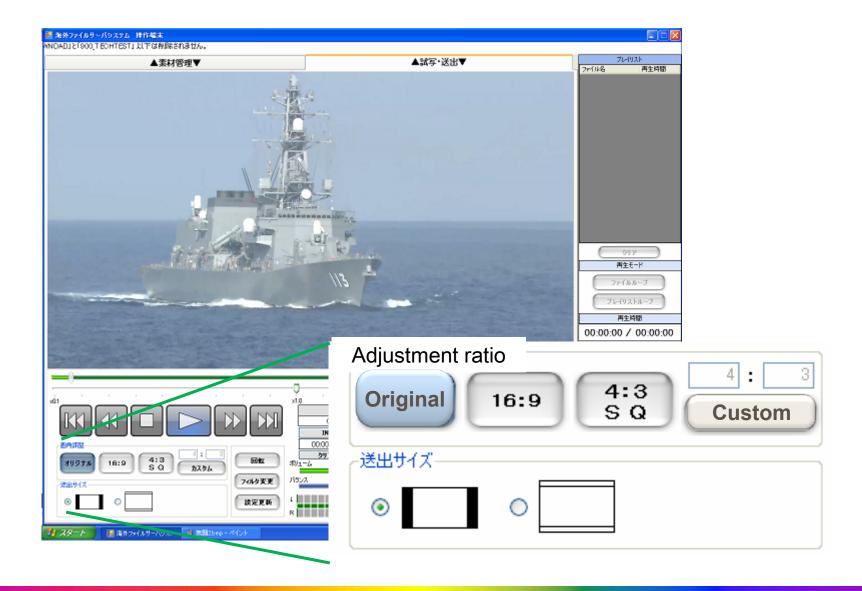
#### 4. Supporting various aspect ratios

- 4:3 ratio and 16:9 ratio.
- There is capturing it with a special aspect picture









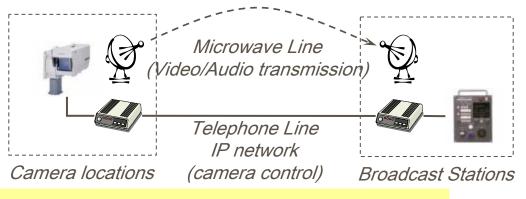
### Remote Camera Monitoring System

#### REMOTE CAMERAS at NHK

NHK has installed around 450 remote cameras across Japan

- Attractive daily weather report programs

- Remote control from broadcast stations



NHK Broadcasting Center (TOKYO)

#### If cameras catch these instants ...

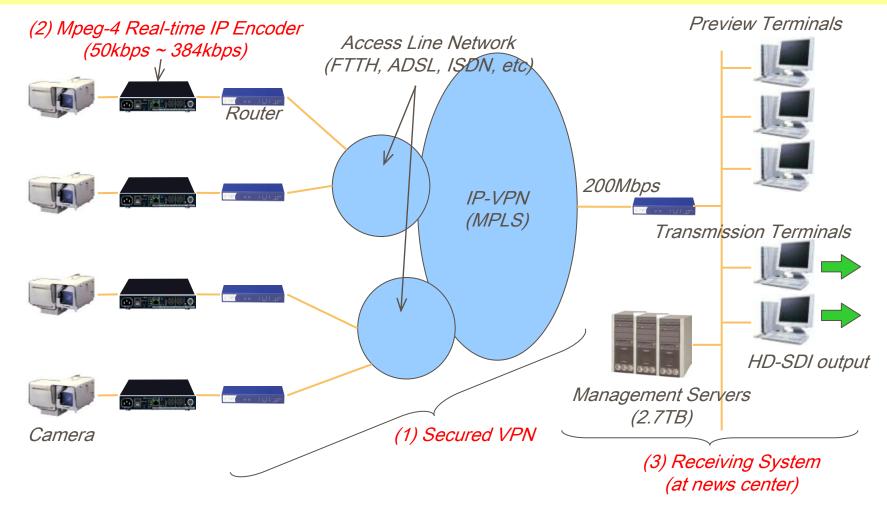


A few minutes for making up transmission / control Lines



### Remote Camera Monitoring System

#### Video Streaming/Storing/Playback System for emergency newscasts



# Remote Camera Monitoring System

#### Recoded files of Cargo plane failed its landing







# Thank you

