This system offers broadcasting services for highly realistic media at a low price, achieving highly reliable UHD video distribution, by combining software and hardware encoders compatible with H.265/HEVC*1, MMT technology*2 that enables media synchronous transmission, and the FireFort-LDGM FEC*3 to efficiently correct errors with low complexity.

**Features**

- Having high efficiency compression performance suitable for the delivery of UHD video such as 4K/8K
- Achieving real-time encoding of HD/30P video by optimizing encoding algorithms of software encoder
- 4K/60P real-time encoding apparatus for test broadcasting was implemented by FPGA in last fiscal year’s testbed project of the Ministry of Internal Affairs and Communications
- LSI and apparatus of HEVC encoder are under development. The encoder is scheduled to achieve 4K/8K and 60P real-time encoding by the end of FY 2015
- MMT transmission simply enables personal ad-insertion and multi-language adaptation (audio, subtitles)
- FireFort-LDGM FEC provides highly reliable and stable video distribution services

**Application Scenarios**

- Super high realistic live video distribution and public viewing such as real-time concerts or sport events from home and abroad
- Cloud-based video encoding service for storage media

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This exhibition contains the results of a testbed project on next generation satellite broadcasting sponsored by MIC.

*1 H.265/HEVC: The ITU-T standard was ratified at the end of April 2013.
*3 FireFort-LDGM FEC: Forward error correcting technology which NTT labs advanced LDGM (Low Density Generator Matrix) FEC.