Delivering Mobile TV Today and Tomorrow

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NEC Streaming to Broadcast

Streaming



Broadcast

Analogue mobile

TV in Japan



DTV: ISDB-T

Japan



DTV: DVB-T/H

Europe

Empowered by Innovation



Development of Mobile TV

A positive Mobile TV experience may stimulate HSDPA streaming as well as MBMS multicasting/broadcasting ~ encourage 3G usage

HSUPA

New media services (e.g. Chat, exchanging of video clips while watching movies...) ~ more demand for capacity in the uplink

HSDPA

Recording (storage) facilities on the network will create higher DL traffic

MBMS

Complementary to DVB-H, suited to smaller groups of recipients May be suited for third tier operators

IMS

Presence and messaging can be integrated with TV services



Interactive Digital services

- ESG/EPG
- On-device recording time-slip
- Network based recording PVR. Record on network and stream to mobile or PC.
- Voting interactive tv programmes: Big Brother 3 (5.4 million SMS votes, 13 million total SMS messages)
- Chatting TV station RTL in Germany opened SMS chatting on Teletext service – 5 million SMSs (€150k)/month
- Selling over mobile advertisement over broadcast channel with purchasing transaction over 2.5G/3G channel. Big Brother 4 – 30,000 requests for ring tones, Logos and Java games.
- Subscription payments



Handsets

Content Protection

•NEC has a commercial OMA DRM2.0 solution for protecting content

- •NEC supplies analogue TV handsets to the Japanese and Chinese markets
- •NEC will provide ISDB-T Digital TV handsets to the Japanese market for the launch in 2006

TV Transmission and Access network

- NEC has supplied over 6000 transmitters for both analogue and digital TV networks worldwide
- Supply of TV transmission equipment for 49 years
- Analogue transmitters supplied to 79 countries
- Digital transmitters supplied to 21 countries
- NEC is a major supplier of Microwave access links

Streaming

- NEC has a streaming server currently deployed in mobile networks
- •Streaming of recorded programmes over mobile network would generate revenue for operators

