

Presentation 5

Service application/ Interactive/data casting

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Manila,Philippines
DiBEG JAPAN
Tomonori Inada
(Fuji Television Network,Inc.)





Contents

□ Features of ISDB-T

- Data casting for Stationary Reception

 Data Broadcasting

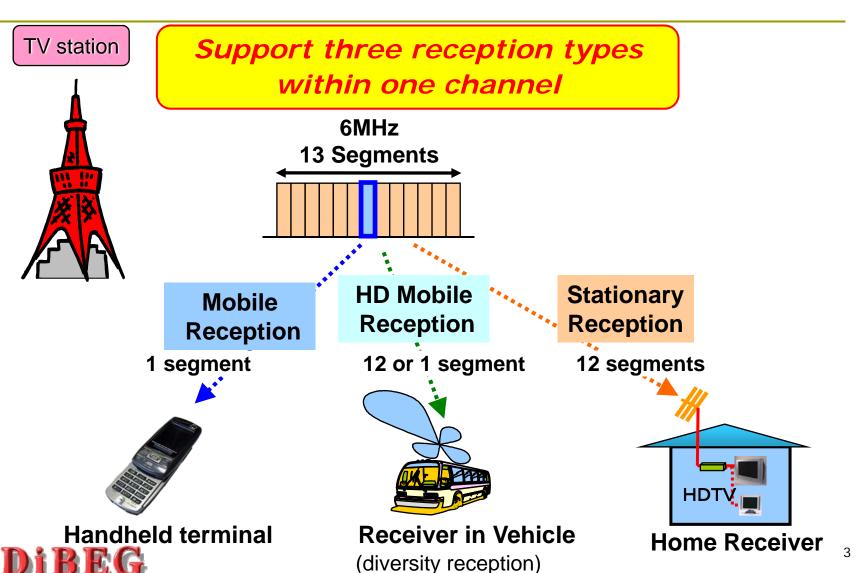
 Interactive Services
- Data casting for Mobile Reception
 ■One-Seg Service
 ■Interactive Services





Features of ISDB-T system

Digital broadcasting experts group





Powerful applications

HDTV

Data broadcasting

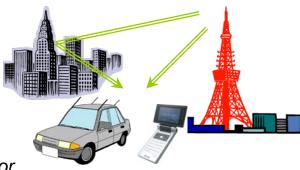
Mobile accesses



 High quality image on wide screen and CD quality sound.



• Local news and weather forecast for viewers at any time.



• Transmission service to Mobile accesses

Multi-channel program

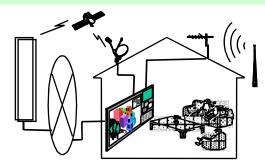






• Standard quality multi-channel service

Interactive TV

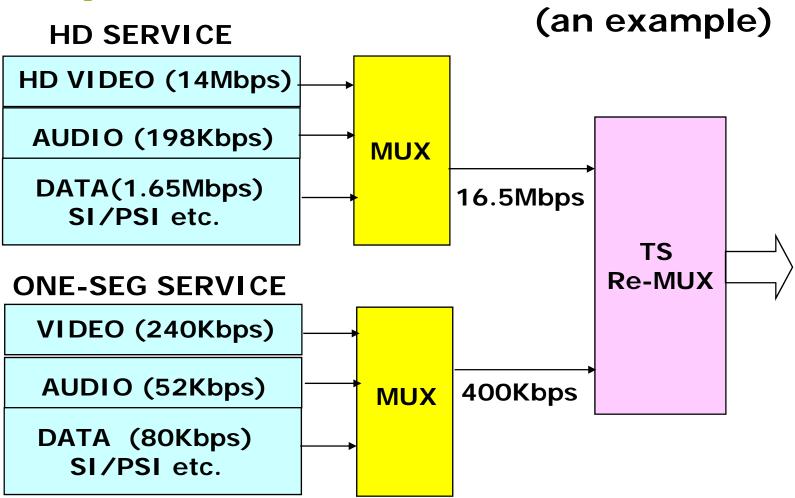


Offers Interactive service





Multiplex of Video/Audio/Data







Stationary Reception

- Data Broadcasting
- Interactive Services
- Advanced Caption
- o EPG





Data broadcasting (1)

□ Data broadcasting - additional service.

■ By clicking on d-button of a remote control unit, you can access your requested information such as local weather forecast, 24H news and traffic information, etc.







Local weather forecast

Local news

Traffic Information





Data broadcasting (2)

□ Basic page format



Present time and date

Buttons to select contents

Local weather information

TV station ad banner

News banner

Traffic Information banner





Data broadcasting (3)

- □ 2 types of data services:
 - Program-linked contents
 - Information service linked to on-air programs
 - Accessible during on-air
 - Non-linked contents
 - Information service not linked to onair programs
 - Accessible any time





Data broadcasting (4)

□ Program-linked data contents

On-air program



Click on d-button







Basic page format

Click on Menu button





Data broadcasting (5)

□ Program-linked data contents

Linked data top page









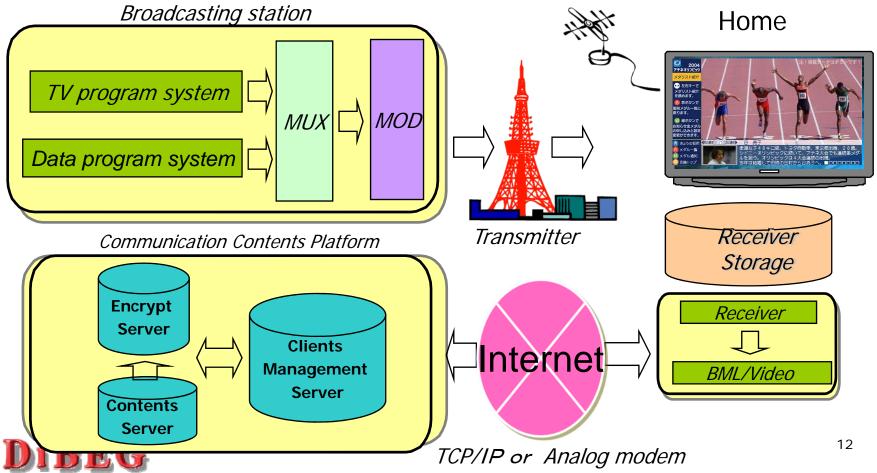






Interactive Services

Interactive services is to realize the interactive communications via internet line.





Advanced Caption

□ Closed Caption can be realized more flexible manner.
Caption of several languages can be sent to receiver.







Caption



EPG

- □ EPG (Electronic Program Guide)
 - ■An Electronic Program Guide (EPG) is an interactive schedule of current and upcoming programs that a viewer can display on-screen simply by pressing a button on his remote control unit.







Mobile Reception

- □ One-Seg Service
- □ Data Broadcasting
- Interactive Services
- **ISDB-Tmm, Future Service**

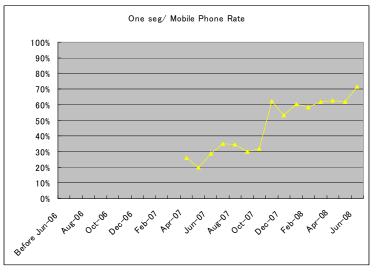


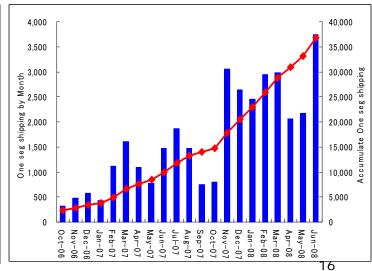


One-Seg service (1)

Hybrid Mobile Phone 39.71 M July. 2008

	May−07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08
Shipping monthly	777	1,468	1,869	1,467	746	795	3054	2,635	2,449	2,948	2,981	2,062	2,172	3,738
Total	8,438	9,906	11,775	13,242	13,988	14,783	17,837	20,473	22,922	25,870	28,851	30,913	33,085	36,823
One seg Rate	20%	29%	35%	35%	30%	32%	62%	53%	60%	58%	62%	63%	62%	71%









One-Seg Service (2)

□ The One-Seg service is transmitting moving images to cell phones, car TVs, personal computers etc, so that you can enjoy One-Seg programs anytime anywhere.

■ Merits

- ✓ Stable reception in a mobile environment.
- ✓ High quality video & audio in a mobile environment.
- ✓ Robustness against noise and multi-pass.





One-Seg Service (3)



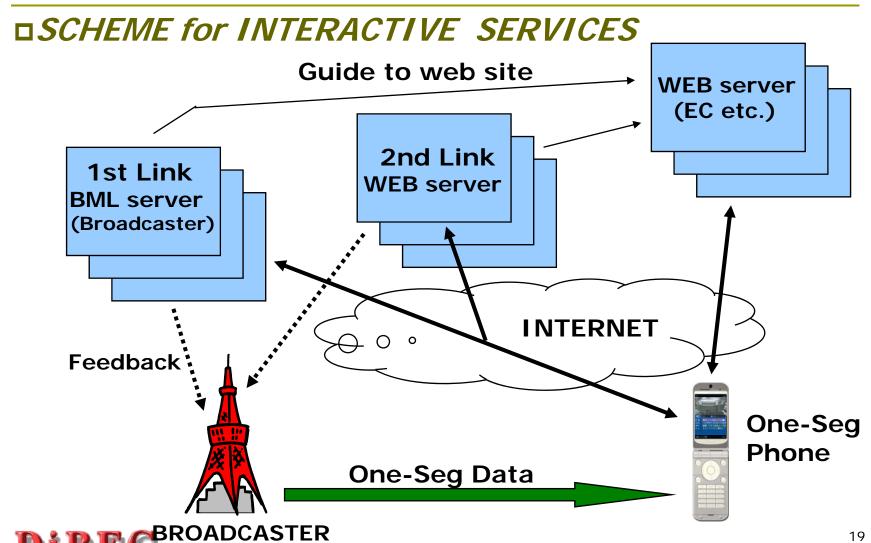
- □ Video (H.264)
 approx. 180-256kbps
- □ Audio (AAC-SBR)
 - approx. 32-64kbps
- □ Data-cast (BML)

 approx. 20-80kbps





One-Seg Service (4)





One-Seg service (5)

Example of Applications

■ TV shopping

The service enables viewers to purchase commercial goods shown on shopping program.

■ Local service

The service can provide local information such as emergency alerts, local events, notice from local government or hospital.

□ Coupon ticket

Service enables to get coupon tickets such as grommet ,movie, book.

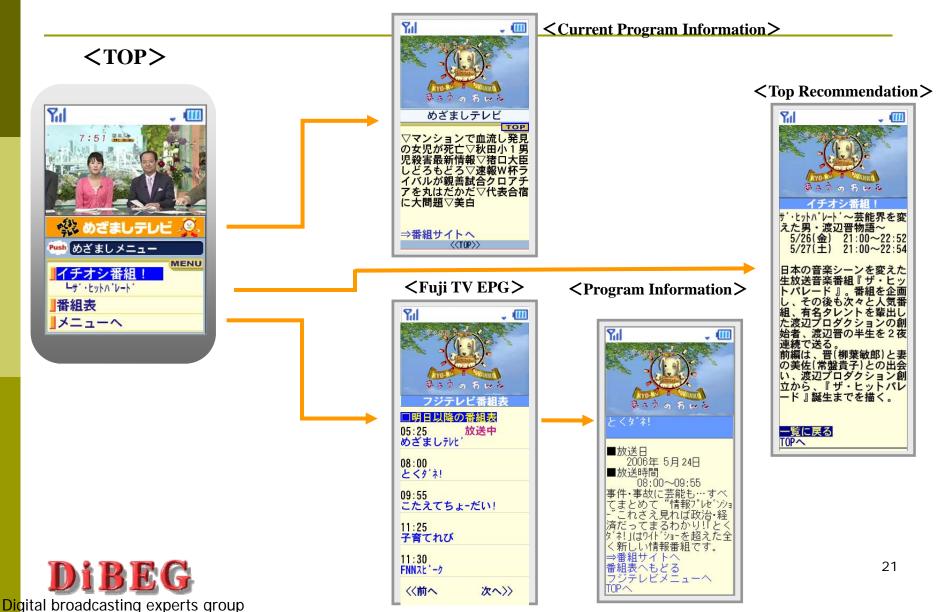
■ Additional information service

The additional information linked to on-air programs are supplement service such as information on athletes and celebrities, recipes, questionnaire and answer to a quiz.





One-Seg service (6)





One-Seg Service (7)



No subscription fee and Powerful terrestrial television contents



Unique & Unparalleled Feature in the world!





Please watch Video





ISDB-Tmm(1)

□ What is ISDB-Tmm?

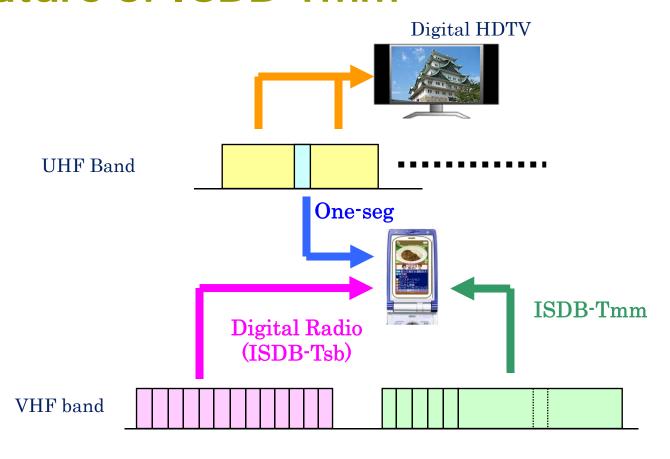
- "mm" is Mobile Multimedia broadcasting.
- Mm success to ISDB-T technology
- Seamless use with One-seg is promised
- Streaming video and Filecasting are supported





ISDB-Tmm(2)

Feature of ISDB-Tmm







ISDB-Tmm(3) Variety of Multimedia contents





ENTERTAINMENT



File type contents



Audio Visual contents





Audio + image contents









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ISDB-Tmm(3)

Schedule for ISDB-Tmm

- •March 5, 2008 : Tokyo trial started.
- July 2008: Telecommunications Council starts study of technical standard to July 2009.
- 2009: Amendment of radio regulation.
- 2010: Call for candidate of licenser.
- July 24, 2011: Analog switchover.
- MM broadcasting service will begin.





Please watch Video





ISDB-T seminar in Manila



Thank you for your attention!



DIBEGDigital Broadcasting Expert Group

http://www.dibeg.org

mail: info@dibeg.org

