

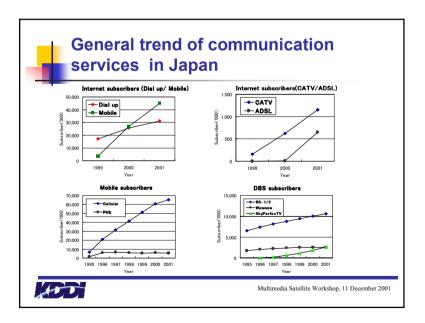
衛星インターネットマルチメディアワークショップ 講演資料韓国宇宙技術学会

(KOSST主催:2001年12月11日、ソウル市教育文化会館にて)

発表テーマ: 日本でのIPベース衛星通信サービスの動向」

発表者: KDDI(株) 河合 宣行

あらまし:日本における衛星通信サービスをとりまく環境、KDDIが提供する KDDIスカイキャストサービスの提供事例を含むIP衛星通信サービスの動向、日本、欧州での衛星通信に関する取組みを紹介するとともに、今後のアジア地域での衛星サービスに向けたアプローチについても紹介している。





IP-based Satellite Communication Services in Japan

11 December 2001

Nobuyuki Kawai KDDI Corporation

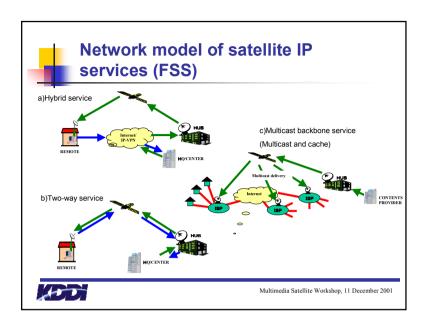


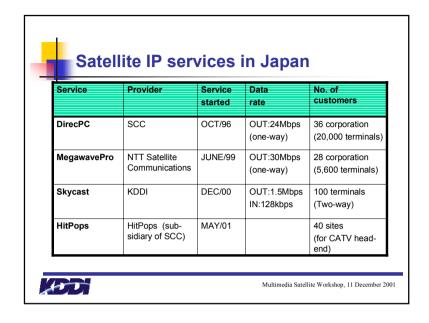
Perspective on the role of satellite IP services

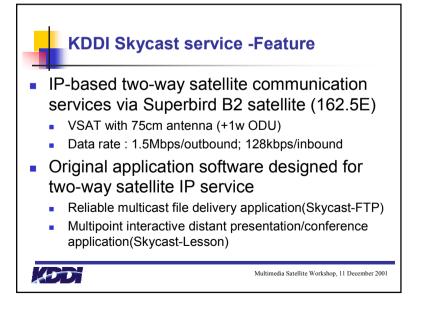
- Multicast oriented services
 - Contents delivery to end users/ head ends of wired services
 - Intranet/Extranet for corporate users featuring "multicast"
- Wide coverage services
 - Broadband mobile satellite services
 - International services (regional)
 - Public infrastructure
- Full IP transmission with advantages in flexible QOS control and highly secured transmission (Mesh/Star topology depending on the nature of traffic)

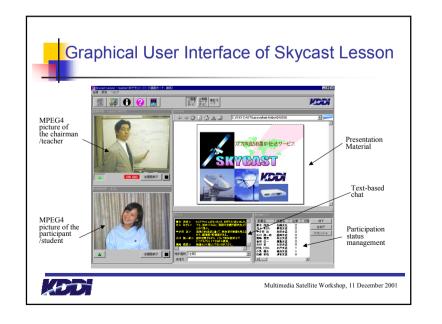


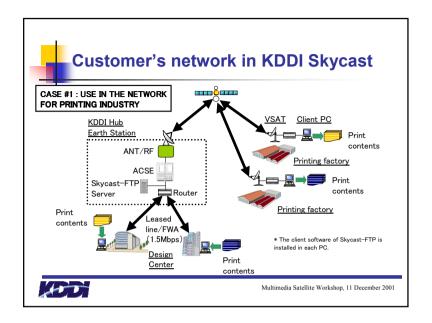
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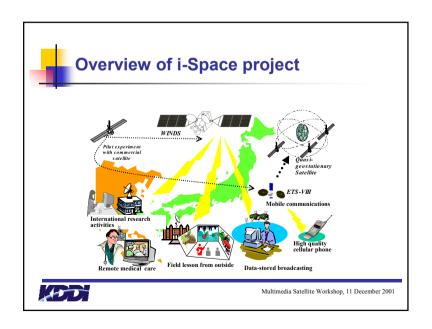


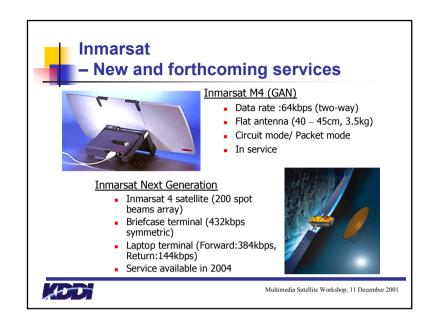


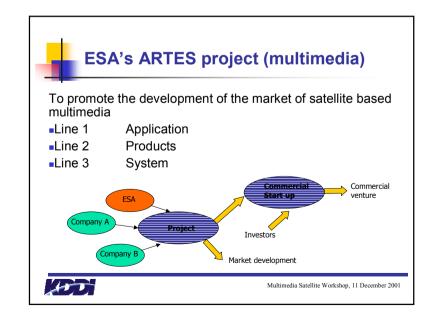


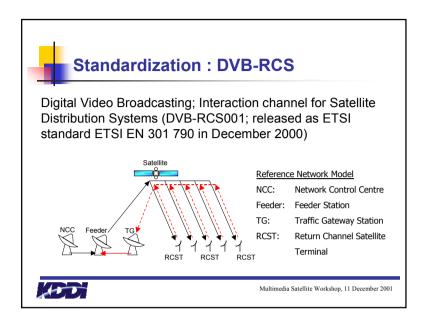














Toward full-fledged satellite IP services over Asian countries - Approach

- Development of satellite application platform for collaboration in various business/experimental areas
 - Independent from constraints due to variation of terrestrial infrastructures of countries
 - User friendly terminal with "All-in-One" package of user terminal
 (H/W: VSAT, PC; S/W: real time and non real time)=> Guaranteed inter-operability
 - Commercial service to be provided by telecoms



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Toward full-fledged satellite IP services over Asian countries - Challenges

- Business
 - Low cost terminal and reasonable communication charge
 - Cooperation between telecoms toward new satellite business
 - Exploration of new applications/customers
- Regulatory
 - Cross-border operation (Access control on VSAT stations located in different countries; Licensing)
- Technical
 - Development of "user friendly" terminal in size and weight
 - Standardization of the satellite communication system (Physical/MAC layer; Protocol)
 - Development of application software specifically for the satellite communication



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