

CWDM Networks with Dual Sub-channel Interface for Mobile Fronthaul and Backhaul Deployment

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Abstract—This paper describes the SK Telecom's mobile fronthaul deployment via CWDM networks with dual sub-channel interface. It also describes requirements for the next generation optical fronthaul and backhaul CWDM network evolution to support next generation fixed, mobile, and converged network services.

Keyword—CWDM, mobile fronthaul, mobile backhaul

Jongyoon Shin was born in 1976. He received the B.S. and M.S. degrees in electrical engineering from Seoul National University, Seoul, Korea, in 2000 and 2002, respectively. He worked as a Senior Researcher in the Electronics Telecommunications and Research Institute, Daejeon, Korea, from 2002 to 2012. Since 2012, he has worked in SK Telecom, Seoul, Korea, where he is currently a manager in the Broadband Technology laboratory. He has several years of experience in embedded systems development as well as communication systems design including fiber optic transport, and networking. His research interests include transport network architecture, protocol and applications.



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Gwangyong Yi was born in 1965. He received MS. from KAIST, B.S. and Ph.D. degrees from Seoul National University. He had worked with designing ATM Switching System of N-ISDN and B-ISDN technology. He had managed the development area of DSLAM, Mobile WiFi application, Wireless Local Loop CPE, WiMAX femto, and STB for IPTV Service. His current work area is WDM based access system and Mobile Backhaul application.