View from the Top

Hiroyasu Asami, Senior Executive Vice President, NTT DOCOMO

"Overview"

Feature phones and smartphones have become an indispensable part of our lives. How can NTT DOCOMO, a company that has a strong connection with its customers, seize the opportunities to leap forward into the society of the future? We sat down with Hiroyasu Asami, Senior Executive Vice President, to learn about the present role of NTT DOCOMO and its strategies for business expansion, and to hear about a work philosophy that is essential for making predictions about the future.

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"Abstract"

To design coverage areas for wireless communication systems and evaluate the performance of the systems, it is necessary to develop a path loss model that can be used for the systems’ frequency bands. The fifth-generation mobile communication system (5G) is expected to use high frequency bands above 6 GHz. Therefore, developing a path loss model for wireless access communication systems using high frequency bands has become a pressing issue. NTT Access Network Service Systems Laboratories has developed path loss models for the 20–40 GHz bands that are suitable for use scenarios of mobile phones and wireless local area networks. This article introduces the developed models.