олт росомо Technical Journal

Vol.17

Oct.2015 | No.2

DOCOMO Today

Seeking Evolution of Networks to Satisfy Customers

Technology Reports (Special Articles)

Special Articles on PREMIUM 4G – Introduction of LTE-Advanced –

- LTE-Advanced as Further Evolution of LTE for Smart Life
- Commercial Development of LTE-Advanced Applying Advanced C-RAN Architecture

- Expanded Capacity by Add-on Cells and Stable Communications by Advanced Inter-Cell Coordination -

- Radio Equipment and Antennas for Advanced C-RAN Architecture
- Router-type Mobile Terminals for LTE-Advanced Category 6 Carrier Aggregation

Further Development of LTE-Advanced

- Release12 Standardization Trends –
- LTE-Advanced Release 12 Standardization Technology Overview
- Carrier Aggregation Enhancement and Dual Connectivity Promising Higher Throughput and Capacity
- Higher Order Modulation, Small Cell Discovery and Interference Cancellation Technologies in LTE-Advanced Release 12
- D2D Communications in LTE-Advanced Release 12
- Access Class Control Technology in LTE/LTE-Advanced Systems

Technology Reports

 Wearable Skin Acetone Analyzer and its Applications in Health Management

Collaboration Projects

• Green Base Station Power Control Technologies for Reducing Costs and Disaster Risks





onten

DOCOMO Today



Seeking Evolution of Networks to Satisfy Customers 1 Akihiro Maebara

Technology Reports (Special Articles)

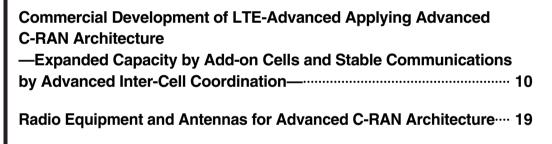


(P.19)

Special Articles on PREMIUM 4G—Introduction of LTE-Advanced—

LTE-Advanced as Further Evolution of LTE for Smart Life 4





Router-type Mobile Terminals for LTE-Advanced Category 6



(P.25)

Further Development of LTE-Advanced—Release12 Standardization Trends—

Carrier Aggregation ------25

LTE-Advanced Release 12 Standardization Technology Overview ---- 31

Carrier Aggregation Enhancement and Dual Connectivity

Higher Order Modulation, Small Cell Discovery and Interference Cancellation Technologies in LTE-Advanced Release 12 47

D2D Communications in LTE-Advanced Release 12 56

Access Class Control Technology in LTE/LTE-Advanced Systems- 65







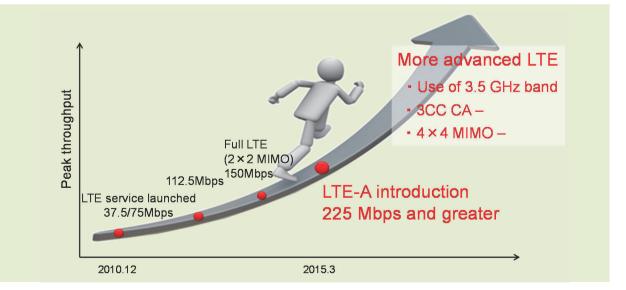
| Wearable Skin Acetone Analyzer and its Applications in Health |
|---|
| Management 77 |

Collaboration Projects



(P.83)

| Green Base Station Power Control Technologies for Reducing | |
|--|--|
| Costs and Disaster Risks 83 | |



Technology Reports (Special Articles) LTE-Advanced as Further Evolution of LTE for Smart Life (P.4) Toward more advanced LTE

NTT DOCOMO Technical Journal Vol.17 No.2

Editorship and Publication

NTT DOCOMO Technical Journal is a quarterly journal edited by NTT DOCOMO, INC. and published by The Telecommunications Association.

Editorial Correspondence

NTT DOCOMO Technical Journal Editorial Office R&D Strategy Department NTT DOCOMO, INC. Sanno Park Tower 2-11-1, Nagata-cho, Chiyoda-ku, Tokyo 100-6150, Japan e-mail: dtj@nttdocomo.com

Copyright

©2015 NTT DOCOMO, INC. Copies of articles may be reproduced only for personal, noncommercial use, provided that the name NTT DOCOMO Technical Journal, the name(s) of the author(s), the title and date of the article appear in the copies.