Hewlett Packard Enterprise

Cloud RAN Overview H0MA1AAE (NWV_111)

HPE course number	H0MA1AAE
Course length	1 hour
Delivery mode	WBT
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Mobile Communication Service Providers (CSPs) are on the cusp of a multitude of network and business transformation choices. A good conceptual understanding of the new networking and CSP business paradigms is essential for professionals in the communication industry. This course provides a high-level view of the impact and benefits of Cloud RAN, the vision, and opportunities created by future CSP networks, as well as a number of technology challenges that need to be solved to make Cloud RAN a reality.

Audience

The course is intended for all that are interested in understanding what Cloud RAN is and how it will transform the CSP network over the next few years.

Course objectives

After completing this course, the student will be able to:

- Describe the concept of Cloud RAN
- Illustrate the Cloud RAN architecture and key protocols
- Describe the operational benefits of Cloud RAN

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
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*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Current RAN architecture	• RAN architecture – Macro cells – Small cells • RAN connectivity
Module 2: Challenges of today	• RAN equipment requirements • RAN power requirements • Why Cloud RAN? • Problems Cloud RAN solves
Module 3: Cloud RAN architecture	• Remote radio head • Baseband unit • Fronthaul
Module 4: Benefits and challenges	• OpEx/CapEx • Operational • Radio • Mobility
Module 5: Baseband unit virtualization	• Virtualization of BBU overview • Virtualized BBU-Pool • Advantages of Virtualizing BBU
Module 6: Connectivity topologies	• Fronthaul technologies • Fronthaul protocols
Module 7: Cloud RAN and virtualization	• C-RAN interworking with NFV • C-RAN interworking with SDN
Module 8: End of course assessment	

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