

CSP Network Performance Overview

HOMA2AAE (NWV_114)

HPE course number	HOMA2AAE
Course length	1 Hour
Delivery mode	WBT
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Communication Service Providers (CSPs) are on the cusp of a multitude of network and business transformation choices. Those transformation choices will have an impact on the performance of the CSP. This course provides a high-level view of how a CSP currently manages the performance of the network. The course describes the key elements of the OA&M network, the key concepts related to Key Performance Indicators, and the key procedures related to Fault, Configuration, Accounting, Performance, and Security (FCAPS).

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Audience

The course is intended for all that are interested in understanding how CSPs manage the performance of their network today.

- Describe KPIs and their use
- List the performance requirements of the key services used by a CSP
- Describe FCAPS
- Illustrate the various redundancy schemes used with in the CSP
- Describe how the CSP will detect, isolate, and correct faults

Course objectives

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

- List the key elements of the CSP network
- Illustrate the CSP OA&M network

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: CSP network architecture	<ul style="list-style-type: none">• A conceptual Mobile CSP network
Module 2: OA&M architecture	<ul style="list-style-type: none">• OSS/BSS network• Element management system
Module 3: Key Performance Indicator (KPI)	<ul style="list-style-type: none">• Counters• Primary use of KPI• Example KPIs
Module 4: Key services and performance requirements	<ul style="list-style-type: none">• Voice services• VoIP call• Data session• Video session
Module 5: FCAPS	<ul style="list-style-type: none">• What is FCAPS?<ul style="list-style-type: none">– Fault– Configuration– Accounting– Performance– Security
Module 6: Redundancy schemes	<ul style="list-style-type: none">• What is 5 9's availability?• Types of redundancy
Module 7: Fault management	<ul style="list-style-type: none">• Fault detection• Fault isolation• Fault correction
Module 8: The road ahead	
Module 9: End of course assessment	

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c04964970, November 2016, Rev. 3