



# Open System Services (OSS) Adv. Commands and Utilities for HPE NonStop Servers U5517S

HPE course number	U5517S
Course length	2 days
Delivery mode	ILT/VILT
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OSS is the open interface to the NonStop Kernel operating system running on the HPE NonStop servers. This course focuses on advanced OSS commands and utilities, with special emphasis on those that make it possible to interoperate between the Guardian environment and the OSS environment.

## Audience

- UNIX® application designers and developers who are preparing to work in the OSS environment
- UNIX system administrators who will have responsibility for managing HPE NonStop servers
- Experienced HPE NonStop server application designers and programmers who are preparing to work in the OSS environment
- HPE NonStop system managers with basic OSS knowledge who are interested in expanding their skills

## Course objectives

- Give students a hands-on feel of Open System Services (OSS) on HPE NonStop servers, emphasizing the interoperability between the OSS and Guardian environments

## Prerequisites

- OSS HPE NonStop Server Fundamentals course (U5515S) or Concepts & Facilities course (U4147S) or equivalent experience with HPE NonStop servers
- OSS Basic Commands/Utilities (U5516S) or working knowledge of basic UNIX commands & utilities

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

## Detailed course outline

### Module 1: Introduction to Open System Services (OSS)

- What is an open system?
- OSS and Guardian comparisons
- OSS versus UNIX
- Advantages of OSS

### Module 2: The OSS Shell

- Terminal requirements
- OSS shell and utilities overview
- Accessing OSS
- Configuring the OSS service
- Modifying the user environment
- Shell environment variables
- Lab exercise: Managing your OSS environment

### Module 3: OSS Commands

- Editing files
- Commands and utilities
- Using pax to archive and recover files
- Compressing files
- Load balancing

### Module 4: OSS File System

- File system characteristics
- Common directories
- File types
- OSS pathnames to Guardian files
- OSS filesets
- POSIX and Guardian security
- Converting OSS files to their physical file names
- Lab exercise: OSS file permissions

### Module 5: OSS/Guardian Interoperability

- The osh bridge program
- The gtacl bridge program
- Accessing the /G and /E fileset extensions
- Using the OSSTTY program
- Spooling operations
- Interoperability considerations
- Lab exercises:
  - OSS to Guardian interoperability
  - Printing from OSS

### Module 6: Command Scripting

- Comments and metacharacters
- Shell scripts
- Variables
- Control structures
- Test command
- Expr and read commands
- Arguments
- Error tracing
- Miscellaneous statements
- Arithmetic on shell variables
- Let and select commands
- Functions and function management
- Lab exercise: command scripting

### Onsite-Delivery Equipment Requirements

- Access to a NonStop server with OSS installed
- OSS configured with sufficient logon IDs for students
- Individual PCs (Windows® 95 or later) with network access and a TELNET type emulator

## Next steps

- Open System Services (OSS) Application Development and Porting course (U5518S)

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