



HPE NonStop Remote Database Facility (RDF) Workshop U4146S

HPE course number	U4146S
Course length	4 days
Delivery mode	ILT
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This 4-day course provides an introduction, including hands-on exercises, to the new Independent Product version of RDF. After a brief review of Transaction Monitoring Facility (TMF) operation and audit trails, there will be an overview of RDF operational features and functions.

Audience

- Anyone interested in receiving an introduction to RDF

Prerequisites

- Concepts and Facilities for NonStop Systems (U4-147S)
- NonStop Transaction Manager/MP Operations and Management (U4-186S)

Course objective

- Understanding of the proper use and integration of RDF in the customer's Disaster Recovery Plan
- Understanding of RDF's basic software process, file, and performance requirements
- Defining an effective environment for RDF operation
- Understanding RDF installation and management

- Commands and procedures needed to run RDF
- Recognition of (and planning for) various failure scenarios
- Use of various RDF-related utility programs designed to monitor RDF operations and the associated databases

Benefits to you

- To provide an introduction, including hands-on exercises, to the new Independent Product version of RDF

Detailed course outline

Module 1: Introduction to the Remote Database Facility	<ul style="list-style-type: none"> • RDF purpose and features • RDF system requirements 	<ul style="list-style-type: none"> • RDF volume, file and network considerations
Module 2: RDF System Description	<ul style="list-style-type: none"> • TMF concepts • RDF processing tasks • RDF processes • RDF Process Functions: <ul style="list-style-type: none"> Monitor Extractor Receiver Updater Purger 	<ul style="list-style-type: none"> • RDF modes of operation • Report generation on backup database
Module 3: RDF Installation and Characteristics	<ul style="list-style-type: none"> • RDF product family • RDF/IMPX product architecture • Overview of RDF installation • Security attributes 	<ul style="list-style-type: none"> • RDF control files • Performance and sizing considerations • Optimizing expand line performance for RDF • Lab exercise: Installing RDF software
Module 4: Introduction to RDFCOM Commands	<ul style="list-style-type: none"> • RDF command interface • RDF command categories • RDFCOM utility commands: <ul style="list-style-type: none"> HELP OBEY and HISTORY FIX OPEN OUT 	<ul style="list-style-type: none"> • The STATUS command • Status RTD calculation
Module 5: Configuring an RDF Environment	<ul style="list-style-type: none"> • Preparing RDF for the first time test • The INITIALIZE RDF command • RDF configuration commands: <ul style="list-style-type: none"> SET SHOW and RESET ADD • RDF global configuration parameters • Receiver and purger configuration parameters • Image-Trail parameter • Volume (Updater) configuration parameters • The INFO command • The VALIDATE CONFIGURATION command 	<ul style="list-style-type: none"> • The ALTER command • The DELETE IMAGETRAIL command • The DELETE VOLUME command • RDF configuration sample • Lab exercises: <ul style="list-style-type: none"> – Creating an RDF configuration for the Master Audit Trail (MAT) – Initializing RDF and activating the configuration
Module 6: Running an RDF Environment	<ul style="list-style-type: none"> • Starting RDF • Controlling the application of updates • Stopping RDF processes • Database synchronization concepts • Synchronization methods 	<ul style="list-style-type: none"> • Overview of online database synchronization • Planned primary system switchover to backup system • Plan for controlled switchover, controlled switchover procedure • Lab exercise: Starting the RDF environment

Course data sheet

Module 7: RDF Working with NonStop SQL	<ul style="list-style-type: none">• Summary of RDF Working with NonStop SQL/MP• NonStop SQL/MP objects defined, NonStop SQL/MP objects protected by RDF• Configuring the replication of Enscribe purges• Enscribe purge replication• Planning the backup database• Index replication• Program object files	<ul style="list-style-type: none">• Recommended procedure for RDF database structure changes• NonStop SQL/MX considerations• Lab exercises:<ul style="list-style-type: none">– Understanding RDF features– Online database synchronization– Creating an RDF configuration for an auxiliary audit trail– Understanding various RDF features with an auxiliary audit trail
Module 8: Takeover Processing	<ul style="list-style-type: none">• The TAKEOVER command• Tasks not performed by RDF following a takeover	<ul style="list-style-type: none">• Switching back to the primary system• Lab exercise: RDF takeover and reversal
Module 9: RDF Failure Scenarios and Utilities	<ul style="list-style-type: none">• Communications and process failures• File resynchronization considerations and procedures• NonStop TMF volume crash, NonStop TMF system crash	<ul style="list-style-type: none">• FileIncomplete, FileComplete audit records, and the problem with FileIncomplete records• RDF health checks, problem escalation• RDF utilities: RDRCHEK, RDFSNOOP• Lab exercise: RDF utilities
Module 10: RDF Advanced Topics	<ul style="list-style-type: none">• RDF versions: 1.1, 1.3, 1.4, 1.6, 1.7• Configuring RDF with SMF• SMF catalogs• Interactions between RDF and SMF• File placement of new files• Adding and removing disks in the SMF pools• RDFCOM validation changes• Errors and troubleshooting• Updater opens• Lockstep operation• Introduction to NonStop AutoTMF	<ul style="list-style-type: none">• AutoTMF Software and Runtime• NonStop TMF and AutoTMF performance• Introduction to ASAP• Architectural overview• Installation and auto discovery• Monitoring of specific RDF environments• Adding and removing RDF environments• ASAP version compatibility• RDF metrics reported by ASAP• Additional enhancements in RDF 1.6 & 1.7• Product installation instructions
Onsite-Delivery Equipment Requirements	<ul style="list-style-type: none">• Two NonStop servers with: D46.xx or later version of the NonStop Kernel operating system for K-series servers, or G06.03xx or later version for NonStop S-series servers• RDF/IMP IMPX installed	<ul style="list-style-type: none">• Eight volumes each• NonStop SQL/MP• Terminal access for each attendee

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