



EMC® NetWorker®
Module for SAP with Oracle
Release 4.0

Command Reference Guide

P/N 300-009-527
REV A01

EMC Corporation
Corporate Headquarters:
Hopkinton, MA 01748-9103
1-508-435-1000
www.EMC.com

Copyright © 2007 - 2009 EMC Corporation. All rights reserved.

Published November, 2009

EMC believes the information in this publication is accurate as of its publication date. The information is subject to change without notice.

THE INFORMATION IN THIS PUBLICATION IS PROVIDED "AS IS." EMC CORPORATION MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WITH RESPECT TO THE INFORMATION IN THIS PUBLICATION, AND SPECIFICALLY DISCLAIMS IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Use, copying, and distribution of any EMC software described in this publication requires an applicable software license.

For the most up-to-date listing of EMC product names, see EMC Corporation Trademarks on EMC.com.

All other trademarks used herein are the property of their respective owners.

As part of an effort to improve and enhance the performance and capabilities of its product lines, EMC® periodically releases revisions of its hardware and software. Therefore, some functions described in this document may not be supported by all versions of the software or hardware currently in use. For the most up-to-date information on product features, refer to your product release notes.

If a product does not function properly or does not function as described in this document, please contact your EMC representative.

Audience This guide is part of the EMC NetWorker® Module for SAP with Oracle (NMSAP) documentation set, and is intended for use by system administrators during installation and system configuration of the NMSAP software.

Readers of this document are expected to be familiar with the following topics:

- ◆ SAP terminology and concepts, especially those related to Oracle database backup and recovery
- ◆ Backup and recovery procedures
- ◆ Disaster recovery procedures

Related documentation Documentation related to the use of this product can be found at the EMC website, <http://Powerlink.EMC.com>, including:

- ◆ The NetWorker Module for SAP with Oracle release 4.0 documentation set:
 - Administration guide
 - Installation guide
 - Release notes
- ◆ The NetWorker documentation set:
 - Administration guide
 - Installation guide
 - Release notes
 - Command reference guide
 - License Manager release notes
 - Disaster recovery guide
- ◆ Other EMC documentation:
 - NetWorker PowerSnap Module documentation
 - Software compatibility guide
 - UNIX man pages

Where to get help

EMC support, product, and licensing information can be obtained as follows.

Product information — For documentation, release notes, software updates, or for information about EMC products, licensing, and service, go to the EMC Powerlink website (registration required) at:

<http://Powerlink.EMC.com>

Technical support — For technical support, go to EMC Customer Service on Powerlink. To open a service request through Powerlink, you must have a valid support agreement. Please contact your EMC sales representative for details about obtaining a valid support agreement or to answer any questions about your account.

Your comments

Your suggestions will help us continue to improve the accuracy, organization, and overall quality of the user publications. Please send your opinion of this document to:

techpubcomments@EMC.com

If you have issues, comments, or questions about specific information or procedures, please include the title and, if available, the part number, the revision (for example, A01), the page numbers, and any other details that will help us locate the subject you are addressing.

NAME backint – NetWorker Module for SAP with Oracle (NMSAP) stand-alone binary that implements SAP BC-BRI BACKINT Interface for Oracle database.

SYNOPSIS backint

DESCRIPTION The **backint** command should be invoked only by SAP BR*Tools. Please, refer to the SAP manuals for information on how to backup, restore and recover Oracle data, and how to inquire about existing backups.

NAME nsrsapadm – NetWorker Module for SAP with Oracle (NMSAP) scheduled backup administrative program

SYNOPSIS **nsrsapadm -W -s** *server_name* [*query*]
query: [**-c** *client_name*] [**-g** *group_name*] [**-N** *save_set_name*]
nsrsapadm -P -z *configuration_file_path*

DESCRIPTION The **nsrsapadm -W** command is used to perform conversion of an NMSAP client-side configuration (created *without* the configuration wizard) to an NMSAP server-side configuration (created with the configuration wizard).

Since the **nsrsapadm** command updates the NetWorker Client resource during a conversion, a user that runs the **nsrsapadm -W** command requires the Configure NetWorker privilege. The **nsrsapadm** command must be run as the root user on UNIX or as a member of the Microsoft Windows Administrators group.

The **nsrsapadm -P** command is used to set the encrypted user name and password.

The NMSAP Administration Guide provides more details on use of the **nsrsapadm** command.

OPTIONS **Conversion options**

-W Specifies the conversion mode.

-s *server_name*

Specifies the NetWorker server for which the configuration conversion is run.

query:

-c *client_name*

Specifies the NetWorker client name. If *not* specified, the default value is the hostname of the physical host where the **nsrsapadm** command runs. For cluster environments, this option must be set to the virtual client name.

-g *group_name*

Specifies the NetWorker group name of the client being converted. If *not* specified, this criteria is not used to query the server resource database.

-N *save_set_name*

Specifies the save set name used in the client resource. If *not* specified, this criteria is not used to query the server resource database.

User name and password encryption options

-P Sets the encrypted user name and password in the specified NMSAP configuration file.

-z *configuration_file_path*

Specifies the full pathname of the NMSAP configuration file.

SEE ALSO nsrsapsv(1m)

NAME nsrsapprobe – The NMSAP probe program for probe-based backups

SYNOPSIS `nsrsapprobe -s server -c client -g group [-t state] [-o cmd_options] saveset`

< cmd_options >:

`LOG_THRESHOLD=<Threshold number>`

`NSR_DEBUG_DIR=<Debug Directory>`

`ORACLE_SERVICE=<Oracle Net service name>`

DESCRIPTION The nsrsapprobe program is used to automatically start an NMSAP backup when a specified number or size of logs have been generated since the previous probe-based backup. The nsrsapprobe command should not be manually invoked, but, it should be executed as part of a probe-based savegrp.

When nsrsapprobe is first invoked, it returns success and triggers probe-based savegrp backup. Once the backup has successfully completed, the transaction log state is recorded in the State field of the corresponding NSR Probe resource on the NetWorker server. When nsrsapprobe is subsequently invoked, a comparison is made to determine whether the delta between the current number or the current size of the transaction logs and the value recorded in the State field is greater than or equal to <Threshold number> in which case the backup would proceed.

Use of the nsrsapprobe program requires the NetWorker server versions to be 7.5 or later.

OPTIONS

- c Specifies the NetWorker client name.
- g Specifies the NetWorker group name.
- o Specifies the command options set in the NSR Probe resource.
- s Specifies the NetWorker server name.
- t Specifies the state of the NSR Probe resource.

EXAMPLES The following is an example of nsrsapprobe and arguments that a probe-based savegrp can call:

```
nsrsapprobe -s example.server.com -c example.client.com -g probegroup -o
"LOG_THRESHOLD=50, ORACLE_SERVICE=CER.world" -t
"LAST_INCARNATION=1, LAST_SEQUENCE_NUMBER=55" BACKINT:CER
```

SEE ALSO savegrp(1m), nsrsapsv(8m)

NAME nsrsapsv – NetWorker Module for SAP with Oracle (NMSAP) scheduled backup command

SYNOPSIS nsrsapsv [-f *filename*]

DESCRIPTION The **nsrsapsv** command provides scheduled backups of SAP with Oracle databases. **nsrsapsv** command should not be launched from the command line. It should only be entered in the Backup Command attribute field in the NetWorker Client Resource configured for a NMSAP scheduled backup.

For a complete description of the NMSAP scheduled backup configuration, see the NetWorker Module for SAP with Oracle Administrator's Guide.

OPTIONS -f *filename*

Specifies the absolute path and filename of the NMSAP scheduled backup configuration file. Optional parameter used for scheduled backups configured without the NMSAP configuration wizard. This file contains information that is required for NMSAP to find the appropriate SAP with Oracle environment.

For a complete description of the scheduled backup configuration file, see the NetWorker Module for SAP with Oracle Administrator's Guide.

SEE ALSO nsrsapadm(1m), backint(1m)

NAME sapclone – NetWorker Module for SAP with Oracle (NMSAP) command to clone NMSAP savesets

SYNOPSIS sapclone [-a] [-b *pool*] [-c *client*] [-n] [-s *server*] -u *user*

DESCRIPTION The **sapclone** command is used to clone savesets created by the NMSAP Interface. The **sapclone** program can be run from either the NetWorker server or the SAP server running Oracle. If periodic execution is desired, the **sapclone** command can be scheduled by (**cron**(1m)) or some other scheduling mechanism.

The **sapclone** command works with **nsrclone** to write the cloned data to NetWorker server.

OPTIONS

- a Clone all SAP saveset, not just those from the last 24 hours.
- b *pool* Clone to this pool instead of the default clone pool.
- c *client*
Clone data belonging the given client. NetWorker uses the client's file index to find and clone the client's data.

This option should be used for cloning data backed up from a cluster. For example, you may want to set this option to the name of the cluster's virtual node.
- n Test the clone operation. It doesn't actually initiate the cloning operation.
- s *server*
Clone data to the specified NetWorker server.
- u *user*
Clone data identified by the specified user ID.

SEE ALSO **cron**(1m), **nsrclone**(1m), **nsr_pool**(5),