

NonStop NET/MASTER Tips and Techniques
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Introduction

This is an ongoing column with NonStop NET/MASTER tips and techniques. Each column is also accessible from <http://www.greshamsoftwarelabs.com.au/> (Gresham Software Labs). Please send all comments and suggestions to John New at jnew@greshamsoftwarelabs.com.au.

Biography

John New is a technical writer. He has written and updated various Tandem manuals. He currently writes hard-copy, online, and web documents for a variety of software products.

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NonStop NET/MASTER MS Tips and Techniques
If You Lose the Security Administrator's Password
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This column discusses how to restore access to user ID definition records in the User ID Management Services (UMS) database if your NonStop NET/MASTER MS system has only one fully privileged Security Administrator user ID and you lose this user ID's password. It discusses how to recreate the Security Administrator user ID record and recover the UMS database.

Note: The technique described in this column assumes that you have followed the initial installation tasks described in the *NonStop NET/MASTER MS System Management Guide* to correctly secure all NonStop NET/MASTER MS files. If so, only the super ID (255,255) and the owner of the NonStop NET/MASTER MS system can use this technique.

Background Information

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NonStop NET/MASTER MS is distributed with program files and data files. Among the distributed data files are model data files that are used to create site-specific data files. When you start NonStop NET/MASTER MS for the first time, the startup process copies each distributed model data file to create site-specific data files. The site-specific data file name is created by prefixing the distributed data file name with the NonStop NET/MASTER MS process character.

One distributed model data file is called UMSFILE. This is the original UMS database, which contains a user ID called INSTALL. If you start NonStop NET/MASTER MS with a process character of Z (the default), the startup process copies UMSFILE to a new file called ZUMSFILE. You then use the INSTALL user ID to log on when you start your NonStop NET/MASTER MS system for the first time. The INSTALL user is deleted when you log off for the first time.

After logging on as INSTALL your first task must be to create the user ID record for the NonStop NET/MASTER MS Security Administrator (for convenience we will call this user ID SECADMIN). In addition to other access privileges, SECADMIN must have access to UMS and Utility Maintenance Services. This enables SECADMIN to add and manage other NonStop NET/MASTER MS users and to give other users the privilege of using Utility Maintenance Services.

The Problem

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You have a problem if your NonStop NET/MASTER MS system has only one fully privileged SECADMIN user ID and you lose this user ID's password. This means that you lose access to all user ID records in the UMS database. If this occurs you must recreate the SECADMIN user ID record and recover the UMS database. The steps to solve this problem are described next.

The Solution =====

For convenience the following solution assumes that you are running a NonStop NET/MASTER MS system with a process character of Z. The process name for the NonStop NET/MASTER Control Process (NCP) is \$ZNNM and the UMS database is called ZUMSFIL. You can apply the solution however to any NonStop NET/MASTER MS system.

Recreating the SECADMIN User ID Record -----

Your first task is to recreate the SECADMIN user ID record in a new UMS database. Follow these steps:

1. Shut down the running NonStop NET/MASTER MS system (\$ZNNM). This closes all open data files.
2. Rename ZUMSFIL (for example rename ZUMSFIL to ZUMSBAD). ZUMSBAD now contains all user ID records, including the SECADMIN user ID record for which you have lost the password.
3. Dup the model UMS database, UMSFIL, to the same subvolume as the site-specific UMS database and call it ZUMSFIL, for example:

```
FUP DUP old_subvol.UMSFIL,new_subvol.ZUMSFIL.
```

ZUMSFIL now contains only the INSTALL user ID. Secure ZUMSFIL following the instructions in the NonStop NET/MASTER MS System Management Guide.

4. Restart NonStop NET/MASTER MS by using the new ZUMSFIL.
5. Log on to NonStop NET/MASTER MS by using the INSTALL user ID (the password is 99999999) and create a new SECADMIN user ID record that is identical to the old SECADMIN user ID record.

Note: You will be unable to choose option Z - Maintain Utility Maintenance Users. This is because the INSTALL user ID is not included in the existing list of users who have access privileges to Utility Maintenance Services; therefore, INSTALL cannot grant this access privilege to the new SECADMIN user ID. However this is not a problem because the SECADMIN user ID you are recreating is already included in the authorised list. After you recreate SECADMIN, log off as INSTALL, and log on as SECADMIN, you will find that SECADMIN has access privileges to Utility Maintenance Services.

6. Shut down the running NonStop NET/MASTER MS system.

Recovering the UMS database -----

After recreating the SECADMIN user ID record in the new ZUMSFIL your next task is to copy all user ID records (except the SECADMIN user ID for which you have lost the password) from ZUMSBAD to ZUMSFIL. Copying the records is preferable to manually adding the records again (especially if you have hundreds of records). Follow these steps:

1. Start FUP from TACL.
2. At the FUP prompt type ALLOW 1 SEVERE ERRORS.

You should expect one ERR 10 error message when you copy ZUMSBAD to ZUMSFILe because FUP (correctly) fails to copy the old SECADMIN user ID record from ZUMSBAD to ZUMSFILe.

If more than one severe error occurs, the copy operation stops. If this occurs, you should investigate why.

3. At the FUP prompt type COPY ZUMSBAD, ZUMSFILe.

FUP attempts to copy all user ID records from ZUMSBAD to ZUMSFILe but fails to copy the old SECADMIN user ID record.

4. Exit FUP and restart NonStop NET/MASTER MS using the new ZUMSFILe.
5. Log on to NonStop NET/MASTER MS by using the SECADMIN user ID. Confirm that the SECADMIN user ID record is correct. Confirm that all other user ID records are present.
6. After confirming that all users can log on, delete ZUMSBAD.

Note: You may want to make a backup of ZUMSBAD before deleting it.