



BackHome/TSM V6.0

Quick Start

Installation Guide

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Introduction

This manual will provide you with step-by-step instructions for installing BackHome/TSM and help familiarize yourself with running backup and restore with our software. This manual is divided into five parts:

- Step by step instructions for installation
- Update BackHome/TSM V6.0 to a new release
- Procedure to run the software and to define requests
- Procedure to upgrade from previous releases
- The BackHome/TSM Quick Start worksheets

Conventions Used

Here are some conventions used in this document:

<tmp volume>

This represents the volume that will contain a temporary installation sub-volume on your system. (for example \$DATA)

<tmp sub-volume>

This represents a temporary sub-volume name that will contain installation files. (for example BHINSTAL)

<BH work volume>

This represents the volume where the BackHome/TSM working sub-volume is on your system. (for example \$DATA)

BHV60

This represents the working sub-volume of BackHome/TSM V6.0. We recommend keeping this naming convention to facilitate later maintenance. In the installation phase, you could change this name. If you do, just substitute every reference to BHV60 in this document with the naming convention you choose.

BKV600

This represents the data sub-volume of BackHome/TSM V6.0. We recommend keeping this naming convention to facilitate later maintenance. In the installation phase, you could change this name. If you do, just substitute every reference to BKV600 in this document with the naming convention you choose.

BKV600E

This represents the executable sub-volume of BackHome/TSM V6.0. We recommend keeping this naming convention to facilitate later maintenance. In the installation phase, you could change this name. If you do, just substitute every reference to BKV600E in this document with the naming convention you choose.

<Catalog volume>

This represents the volume that will contain a Catalog sub-volume on your system. (for example \$DATA)

<Catalog sub-volume>

This represents a Catalog sub-volume name that will contain Catalog files. (for example BHV60)

Step by step installation

These instructions will take you through the process of collecting the required information, installing the software and running trial backups and restores. We recommend that you tear out one of the Quick Start worksheet at the end of this document to use as you go through the installation. You will need it to complete the installation.

Note 1: *If you plan to install BackHome/TSM over SNA LU6.2 please contact ETI-NET Support.*

Note1: *If you are upgrading from a previous installation of BackHome/TSM, please follow the present procedure. Once you have installed and tested the new release, you may “migrate” your production environment to the new one by following the steps outlined in the section “Upgrading from previous releases”.*

Collect information

Collect the information needed to install BackHome/TSM on your Tandem system and the information needed from your Tivoli Storage Manager administrator. This includes the registration of the TSM Client Node name, registering the TSM password and taking note of the IP address of the TSM server.

STEP 1 – Register a TSM Client Node Name

You must ask your Tivoli Storage Manager administrator to register your Tandem system TSM node name on the Tivoli Storage Manager server.

We recommend that you use the Tandem System name [minus the \] as the TSM Client Node name. Please note the name on the worksheet under “TSM Client Node name”. You will need this information for the installation procedure.

STEP 2 – Register the TSM password

When registering the Node name, your Tivoli Storage Manager administrator will give you a password. This password is case sensitive, Please note the password on the worksheet under “TSM Password”. You will need this information to complete the configuration process.

STEP 3 – IP Address and TCPIP configuration

Ask your Tivoli Storage Manager administrator to provide you with the IP address of the TSM server. Please note this information on the worksheet under “IP Address”.

You will need this information as input for the installation BackHome/TSM procedure called INSTALL (section 2-part 1).

The default TCP/IP port for the Tivoli Storage Manager server is 1500. Check with your Tivoli Storage Manager administrator that it is the port for your environment. If a different port is to be used note that on the worksheet under “TCP/IP Port”.

The TCP/IP configuration is passed to NSK applications through several DEFINES, such as =TCPIP^PROCESS^NAME. Please note on the worksheet under “TCP/IP configuration” the DEFINES that BackHome/TSM should use.

STEP 4 – Fill out the worksheets

Before continuing please fill out the remainder of the BackHome/TSM Quick Start worksheets. Then use the information on the worksheets to complete the installation that follows.

Restore-Install BackHome/TSM

Running the procedure called INSTALL will unpack the BackHome/TSM files in their working sub-volume and automatically update the TSM API and BackHome/TSM configuration files with the information that you provided.

The INSTALL procedure will create three sub-volumes on your system: BKV600E will contain the executables, BKV600 the data files and BHV60 will be your working sub-volume. This will facilitate eventual upgrades.

STEP 1 – Get the Distribution files

BackHome/TSM is simple to install on your HP Non-Stop system. On the BackHome/TSM CD you will find under the software directory the file BKV600BH.BIN. This file has been created using the PAK/UNPAK utility. The process of getting the distribution files consists of two steps:

- Upload in binary mode the file BKV600BH.BIN, to a temporary sub-volume (for example: \$DATA.BHINSTAL) on your Tandem system. Rename it BKV600BH.
- Upload the file INSTALL.TXT, in text mode, to the same sub-volume renaming it INSTALL.

STEP 2 – Unpack BackHome/TSM

To “unpack” and install the software, run the INSTALL procedure.

Go to the sub-volume where you copied the INSTALL and BKV600BH files. Then, issue the command:

```
>VOLUME <tmp volume>.<tmp sub-volume>
>RUN INSTALL
```

The following menu will appear on the screen:

```
----- Installation of BackHome/TSM V6.00 -----
1. Input PAK file ..... : $DATA.BHINSTAL.BKV600BH          (OCT-10 16:10)
2. $vol.subvol for executables : $DATA.BKV600E
3. $vol.subvol for other files : $DATA.BKV600
4. Working $vol.subvol ..... : $DATA.BHV60
5. Monitor process name ..... : $Q1T Prim. cpu: 1 Bkup. cpu: 0
6. Logger process name ..... : $Q1LG Prim. cpu: 1 Bkup. cpu: 0
7. Distributor process name .. : $Q1DI Prim. cpu: 1 Bkup. cpu: 0 EMS: OFF
8. Transfer process names .... : $Q1D* $Q1D1 cpu: 1 $Q1D2 cpu: 0
9. Create statistics files ... : N
10. BackHome/TSM license key .. : XXXX XXXX XXXX XXXX XXXX XXXX
11. TSM server TCPIP address .. : tmsrv.some.domain.com port: 1500
12. TSM client node name ..... : LEOMIRA
13. Install OSS environment ... : N
14. TCPIP Defines: =TCPIP^HOST^FILE          \LEOMIRA.$SYSTEM.TCPIP.HOSTS
                  =TCPIP^NETWORK^FILE       \LEOMIRA.$SYSTEM.TCPIP.NETWORKS
                  =TCPIP^PROCESS^NAME        \LEOMIRA.$ZTCL
                  =TCPIP^RESOLVER^FILE      \LEOMIRA.$SYSTEM.TCPIP.RESCONF
```

(Number) to modify, (I) to install, or (Q) to quit: _

The 3 options in the menu are:

- **(number)** to modify: when you want to modify one of the parameters displayed just type the corresponding number, type the new value and hit <ENTER>. The menu will be updated on screen.
- **(Q)** to quit the INSTALL procedure.
- **(I)** to finalize the installation.

Some parameters have no default value and you need to provide one for a successful installation.

Options 10 and 11 are mandatory. You may optionally modify the other parameters, to conform to your own environment or naming convention. These parameters are:

1. **Input PAK file:** The compressed self-extracting file, which you have uploaded in the previous step. On the right-hand side of the screen you will find the date of the BKV600BH file.
2. **\$vol.subvol for executables** (default <current-vol>.BKV600E): To modify the executable files target sub-volume name.
3. **\$vol.subvol for other files** (default <current-vol>.BKV600): To modify the data files sub-volume name.
4. **Working \$vol.subvol** (default <current-vol>.BHV60): To change the name of the working sub-volume. *Take note that the working sub-volume is a copy of BKV600. Several other sub-volumes will also be created to contain TSM API error log files.*
5. **Monitor process name** (default \$Q1T): To change the default name for the monitor process. *This name should be the same as the LOCAL-LOCATION name. Ex.: Monitor name is \$Q1T, LLOC name is %Q1T.*
6. **Logger process name** (default \$Q1LG): To change the name for the logging process and to set the primary and back-up CPU's for this process.
7. **Distributor process name** (default \$Q1DI): To change the name for the EMS distributor process and to set the primary and back-up CPU's for this process. Also, this option lets you activate/deactivate the EMS logging.
8. **Transfer process names** (default \$Q1D*): To change the transfer processes name pattern and the CPU's for these processes. *Take note that the configuration defines by default 2 transfer processes.*
9. **Create statistics files** (default value N): Set to Y for the creation of statistic files. Statistic files contain data about each transfer.

10. **BackHome/TSM License key:** Replace the XXXX ... placeholder with the key provided by ETI-NET. Enter the key, with the spaces, as you received it. This parameter is mandatory.
11. **TSM server TCPIP address:** The IP address of your TSM server. Both dotted address and DNS name are allowed. This parameter is mandatory.
12. **TSM client node name:** The default is the system name without the '\'. It must be the same name as the one created by the TSM server administrator.
13. **Install OSS environment:** By default, the BackHome/TSM OSS environment is not installed. If you do not want to use the OSS option leave this as is.

If you do intend to use OSS option, type 13 and hit <ENTER> to call up the following menu:

```
----- Installation of BackHome/TSM V6.00 -----  
BackHome/TSM OSS environment installation  
  
a. Install OSS environment ..... : N  
b. Working OSS directory ..... : /usr/local/BackHome  
c. OSSTTY process name ..... : $Q1TTY Prim. cpu: 1 Bkup. cpu: 0  
d. Working Guardian sub-volume on  
    a non virtual disk for OSS .. : $data20.bkv600  
  
(Letter) to modify, (M) to return to main menu:
```

- a. **Install OSS environment:** Set to Y to install OSS environment.
 - b. **Working OSS directory:** Point to the default OSS working directory of BackHome/TSM. The installation process will create the last directory level but the parent directory should exist prior to the installation and the user(s) that will perform backup/restore requests must have read/write/execute access.
 - c. **OSSTTY Process name** (default \$Q1TTY): To change the OSSTTY home-term name and to set the primary and back-up CPU's for this process. This option is displayed only if OSSTTY is available on the system. This server will serve to any BackHome/TSM OSS agent.
 - d. **Working Guardian sub-volume on a non-virtual disk for OSS:** This option is displayed only if the BackHome/TSM working directory is on a virtual disk. Some of the files needed by the BackHome/TSM OSS agent must reside on a non-virtual disk.
- M** To return to main menu

14. **TCP/IP DEFINES:** Another menu is displayed that shows the TCP/IP DEFINES that will be used. They are taken from the current TAOL session.

When you are satisfied that you are ready to install BackHome/TSM, hit <I> for Install.

The BackHome/TSM software will be unpacked and the configuration files will be modified to conform to your environment.

STEP 3 – Unpack the Add-On

Depending on the software release condition, the \Add-on directory may exist. If the \Add-on directory exists on the software CD, upload the file BKV600AB.BIN from this \Add-on directory to your Tandem, using BINARY option. Then, use the UNPAK utility to unpack it.

```
RUN UNPAK BKV600AB, *.*.*, &  
MAP NAME *.*.* TO $vol.*.*, MYID, LISTALL
```

The Add-on sub-volume BKV600A and/or BKV600B are created.

If the Add-on subvolume BKV600A exists, replace the corresponding software in BKV600E sub-volume by those on the BKV600A sub-volume, like this:

```
FUP DUP $vol.BKV600A.*, $vol.BKV600E.*, PURGE, SOURCEDATE
```

Similarly, if the Add-on subvolume BKV600B exists, replace the corresponding files in BKV600 sub-volume (and in the working sub-volume BHV60) by those on the BKV600B sub-volume, like this:

```
FUP DUP $vol.BKV600B.*, $vol.BKV600.*, PURGE, SOURCEDATE  
FUP DUP $vol.BKV600B.*, $vol.BHV60.*, PURGE, SOURCEDATE
```

Make sure that to set the correct alternative keys files for the data files like EVNTDB or Catalog files.

Identify the node to the TSM server

The password issued by the TSM administrator will be needed for this node to access the TSM server. After being entered once through the BackHome/TSM user interface (BINT), the password will be stored in an encrypted file.

The following instructions assume that you are using BHV60 as the working sub-volume. BackHome/TSM requires the usage of the Tivoli Storage Manager option PASSWORDACCESS GENERATE in the DSMSYS file. The encrypted file will be written in the sub-volume specified by the keyword PASSWORDDIR in the DSMSYS file. The file name will be the name set by the SERVERNAME keyword. The default is DSMTCP.

Note: The identification step must be run under SUPER.SUPER. After it has been completed, normal operation can be run under your normal user id.

Note: In some test environments, the TSM server is set to AUTHENTICATION OFF and there is no need to enter password. For those sites:

- The DSMSYS file can be edited to comment out the line PASSWORDACCESS GENERATE
- Go directly to the Start BackHome/TSM section.

STEP 1 – Start the BackHome/TSM environment

The following TACL commands will compile the configuration and start the BackHome/TSM environment:

```
>VOLUME <BH work volume>.BHV60
>OBEY STRTALL
```

STEP 2 – Enter the TSM password in a SUPER.SUPER session

The first connection must be established in a BFSINT session. BFSINT is the BackHome/TSM user interface. For this step only, BFSINT must be run under the user ID SUPER.SUPER.

Using the TSM CONNECT command with the password parameter, you will identify the node to the server. Start a TACL session with SUPER.SUPER, and then start the user interface:

```
>VOLUME <BH work volume>.BHV60
>OBEY STRTBINT
Etinet Bcom(BFSint) Version V6.00 (2003-07-28) Copyright ETI-NET 2003.
```

- Use the Connect command with the password parameter.

Connect using the remote location and TSM password noted in the Quick Start worksheet. Remember, that the TSM password is case sensitive.

```
~TSM CONNECT %Q1D, PASSWORD <TSM password>
```

The following will appear if successful and the TSM password will be encrypted and stored in a file named DSMTCP.

```
Server connected :
Server address : address
server version  : version
TSM node       : tsm-node
Remote location : %Q1D
```

If “*Server connected ...*” doesn’t appear, type the command LISTLOG to display the log (or visualize the EMS collector if you have EMS logging activated) to see what went wrong and correct the situation. Then, issue the **TSM CONNECT** command again.

Note: If you get error RC=50, check if you have the correct name for the TCPIP^PROCESS^NAME (\$ZTC1 for example) running on your Tandem node and if it’s activated (by issuing the Tacl command >STATUS \$ZTC1).

- Stop the BackHome/TSM environment and exit the user interface

```
~SHUTDOWN
~EXIT
```

- Give read/write access to the file DSMTCP to the user ID’s that will be used to connect to the TSM server.

In a simplified security environment that can be done with:

```
>FUP SECURE DSMTCP, AAAA
```

- Logoff SUPER.SUPER.

SUPER.SUPER is no longer required to use BackHome/TSM.

Start BackHome/TSM

Finalize the BackHome/TSM configuration, and start BackHome/TSM for regular operations.

STEP 1 – Automate the start-up of a transfer process

Although transfer processes (or Requester as they are often called) can be started by the BFSINT command `START $process-name`, they are usually configured to start automatically when the BackHome/TSM environment is launched with the STRTALL Obey file.

Edit the configuration file `BHV60.BCOMCONF` and set `AUTO-STARTUP` to `YES` in the paragraph “`DEFINE TSM-REQUESTOR`” for the requester `$Q1D1`.

STEP 2 – Start BackHome/TSM for regular operations

- Recompile the configuration and restart the BackHome/TSM environment

```
>VOLUME <BH work volume>.BHV60
>OBEY STRTALL
```

- Launch the user interface to check the environment. Use the command “`STATUS ALL`” to confirm that the requester `$Q1D1` is connected to the server.

```
> OBEY STRTBINT
Etinet Bcom(BFSint) Version V6.00 (2003-07-28) Copyright ETI-NET 2003.
```

```
~STATUS ALL
*** CURRENT STATUS AT 2003-09-30 14:59:12
```

PROCESS		JOBS			MAX	ENABLE	DATA	
TYPE	ID	SELECT	STATUS	CONNECTED	RQSTS	COMPRESS	SORTED	ENCRYPT
STNDRD	\$Q1D1	0	ACTIVE	YES	1	NO	YES	

Add BackHome/TSM OSS environment to BackHome/TSM V6.0

Follow those explanations if you have already installed BackHome/TSM V6.0 without OSS environment, and you want to add the OSS environment now.

Start the installer has shown bellow:

```
>VOLUME <BH data volume>.BKV600
>RUN INSTALL OSSENV
```

The following screen would appear.

```
----- Installation of BackHome/TSM V6.00 OSS environment -----
1. Input OSS file ..... : $DATA.BKV600.BHOSSTAR      (SEP-26 15:57)
2. Working $vol.subvol ..... : $DATA.BHV60
3. Working OSS directory ..... : /usr/local/BackHome
4. OSSTTY process name ..... : $Q1TTY Prim. cpu: 1   Bkup. cpu: 0
5. Working Guardian sub-volume on
   a non virtual disk for OSS .. : $data20.bkv600

(Number) to modify, (I) to install, or (Q) to quit:
```

The 3 options in the menu are:

- **(number)** to modify: when you want to modify one of the parameters displayed just type the corresponding number, type the new value and hit <ENTER>. The menu will be updated on screen.
- **(Q)** to quit the INSTALL procedure.
- **(I)** to finalize the installation.

Some parameters have no default value and you need to provide one for a successful installation.

You may optionally modify the other parameters, to conform to your own environment or naming convention. These parameters are

1. **Input OSS file:** The BHOSSTAR archive file which you had previously extracted in installation step. On the right-hand side of the screen you will find the date of the BHOSSTAR file.
2. **Working \$vol.subvol** (default <current-vol>.BHV60): To change the name of the working sub-volume.
3. **Working OSS directory:** Points to the default OSS working directory of BackHome/TSM. The installation process will create the last directory level but the parent directory should exist prior to the installation and the user(s) that will perform backup/restore requests must have read/write/execute access.

4. **OSSTTY Process name** (default \$Q1TTY): To change the OSSTTY home-term name and to set the primary and back-up CPU's for this process. This option is displayed only if OSSTTY is available on the system. This server will serve to any BackHome/TSM OSS agent.

5. **Working Guardian sub-volume on a non-virtual disk for OSS:** This option is displayed only if the BackHome/TSM working directory is on a virtual disk. Some of the files needed by the BackHome/TSM OSS agent must reside on a non-virtual disk.

When you are satisfied that you are ready to install BackHome/TSM, hit <I> for Install.

The BackHome/TSM OSS agent software will be extracted from the archive and the configuration files will be modified to conform to your environment.

Update BackHome/TSM V6.0 to a new release

Update V6.0 in production to a new release

If you are already using BackHome/TSM V6.0, it is possible to update your current BackHome environment to a new release without performing a complete installation.

In your first installation of BackHome/TSM V6.0, three sub-volumes were used to install and configure BackHome.

The first sub-volume contains the executable modules (by convention BKV600E). The second (by convention BKV600) contains files that are used as reference to update your working environment. The third sub-volume contains your customized BackHome environment files (by convention BHV60).

The update of BackHome in this case will install only executable modules and reference files. The working environment of BackHome will not be modified.

This update procedure assumes that the three sub-volumes approach was kept by the user. Sub-volume names can change but not their utility.

STEP 1 – Shutdown your BackHome/TSM

Be sure that any important pending requests are completed and the QUEUE doesn't have any EXECUTING request. Perform in a BFSINT session the command QLIST to ensure that.

In the same BFSINT session, issue the SHUTDOWN command.

STEP 2 – Rename your current BackHome/TSM

This step is done to keep a copy of your current BackHome executable modules and reference files. Because we want to keep intact your already customized working environment, we need to put the new executable modules and reference files to the same locations currently used. Renaming your current executable modules and reference files gives you the possibility to retrieve or look up previous installation files that could be overwritten otherwise.

To rename use the following command:

```
>FUP RENAME BKV600E.*, R1V600E.*  
>FUP RENAME BKV600.*, R1V600.*
```

STEP 3 – Update BackHome/TSM V6.0

Start the installer as shown below:

```
>VOLUME <tmp volume>.<tmp sub-volume>
>RUN INSTALL ADDON
```

The following screen would appear.

```
----- Update BackHome/TSM V6.00 -----

1. Input PAK file ..... : BKV600BH
2. $vol.subvol for executables : $DATA21.BKV600E
3. $vol.subvol for other files : $DATA21.BKV600
4. Update OSS environment ..... : N
```

(Number) to modify, (I) to install, or (Q) to quit:

The 3 options in the menu are:

- **(number)** to modify: when you want to modify one of the parameters displayed just type the corresponding number, type the new value and hit <ENTER>. The menu will be updated on screen.
- **(Q)** to quit the update procedure.
- **(I)** to finalize the update.

You may optionally modify the other parameters, to conform to your own environment or naming convention. These parameters are:

1. **Input PAK file:** The compressed self-extracting file, which you have uploaded in the previous step. On the right-hand side of the screen you will find the date of the BKV600BH file.
2. **\$vol.subvol for executables** (default <current-vol>.BKV600E): To update the executable files target sub-volume name.
3. **\$vol.subvol for other files:** (default <current-vol>.BKV600): To modify the data files sub-volume name. Verify if you have on this sub-volume the data files that are containing data that is important for you (like Catalog, Request, Queue or Log files). Update macro will warn you if some data files are containing the data. Backup those files before the update macro replace them. Update macro will not customize your working volume. You will find on BKV600 volume the samples for new configuration that you should use to customize your working volume following the new documentation. Note: if you perform the STEP 2, all your files will still be available.

- 4. **Update OSS environment:** By default, the BackHome/TSM OSS environment is not updated. If you do not use the OSS option leave this as is.

If you do intend to update OSS environment, type 4 and hit <ENTER> to call up the following menu:

- a. Working OSS directory : usr/local/BackHome
- b. Working Guardian sub-volume on
a non virtual disk for OSS .. :

(Letter) to modify, (M) to return to main menu:m

- a. **Working OSS directory:** Point to the default OSS working directory of BackHome/TSM. The update process will create the last directory level but the parent directory should exist prior to the update and the user(s) that will perform backup/restore requests must have read/write/execute access.
- b. **Working Guardian sub-volume on a non-virtual disk for OSS:** This option is displayed only if the BackHome/TSM directory for data files is on a virtual disk. Some of the files needed by the BackHome/TSM OSS agent must reside on a non-virtual disk.

When you are satisfied and you are ready to update BackHome/TSM, return to main menu and hit <I> for update.

The BackHome/TSM agent software will be extracted from the archive and environment will be updated.

STEP 4 – Regenerate your configuration file

In your working files sub-volume (by convention BHV60), execute the BFSGEN module to re-compile your configuration file. Submit the STRTBGEN obey file:

```
>OBEY STRTBGEN
```

Or use your customized procedure in your environment to perform this task.

STEP 5 – Restart your BackHome/TSM

In your working files sub-volume (by convention BHV60), submit the STRTALL obey file:

```
>OBEY STRTALL
```

Or used your customized procedure in your environment to perform this task.

Run BackHome/TSM and define backup and restore requests

This chapter explains how to run BackHome/TSM, and define backup and restore requests.

Start BackHome/TSM

This section will explain how to launch the BackHome/TSM environment, check the connection to the server, run the predefined requests to backup then to restore, and check the results before stopping BackHome/TSM.

STEP 1 – Start the BackHome/TSM environment

If you did not start BackHome/TSM at the end of the last section, do it now.

```
>VOLUME <BH work volume>.BHV60
>OBEY STRTALL
```

STEP 2 – Check the connection to the server

The following TACL command will place you at the prompt of the BackHome/TSM command line interface.

```
>VOLUME <BH work volume>.BHV60
>OBEY STRTBINT
```

- The command LISTLOG will display the log.
- Issue the command STATUS ALL.

```
~status all
*** CURRENT STATUS AT 2003-09-30 14:59:12

  PROCESS           JOBS           MAX           ENABLE           DATA
TYPE  ID           SELECT  STATUS  CONNECTED  RQSTS  COMPRESS  SORTED  ENCRYPT
STNDRD  $Q1D1      0      ACTIVE   YES         1      NO        YES     YES
```

On the status line you should have CONNECTED YES as in the example.

The command HELP will give the syntax of available BackHome/TSM commands.

STEP 3 – Run the pre-defined backup

At the prompt of the BackHome/TSM user interface:

- Issue the command OBEY DEMOREQ. This will execute the BINT Obey file DEMOREQ that will create the demo requests.
- Issue the command INFO #DEMLAK; this will display the definition of that request. #DEMLAK will back up the sub-volume BKV600E.
- Issue the command QUEUE #DEMLAK to start the backup.
- Issue the command STATUS #DEMLAK to see the state of the request.
- Issue the command LISTLOG, see trace of the execution.
- When the backup has completed, issue the command TSM QOB * (QueryObject) to view the backup objects stored on the server.

*Note: If the Catalog is enabled (BACK-UP CATALOG parameter set to YES in the configuration file), you will be able to query the Catalog, with the commands LISTBK * and LISTSF *.*

STEP 4 – Run the pre-defined restore

At the BackHome/TSM user interface's prompt:

- To see the restore request, issue the command INFO #DEMRES
- To start the restore, issue the command QUEUE #DEMRES
- Issue the command STATUS #DEMRES until the request complete
- Issue the command EXIT, to return to the TACL prompt.

STEP 5 – Examine the results and stop BackHome/TSM

You can check the files in BackHome/TSM restored sub-volume, use PERUSE to inspect the spooler outputs of the Tandem Backup and Restore utilities.

Define a request

STEP 1 – Define a request from an existing one

If you have exited BINT, issue the command OBEY STRTBINT:

```
>VOLUME <BH work volume>.BHV60  
>OBEY STRTBINT
```

At the BINT command prompt, issue the command “show” to see the default parameters of a request:

```
~SHOW
```

Suppose we want to create a new request #DEMBA2 that resembles #DEMLAK. To set the request parameters to the same values as the #DEMLAK request.

```
~SET LIKE #DEMLAK
```

The SHOW command will display a new request model identical to #DEMLAK.

```
~SHOW
```

Change the name of the out file.

```
~SET LATTR01 OUTFILE=$S.#BAKH.DEMBA2
```

Change the sub-volume to be backed up.

```
~SET LATTR02 BRPARAMS=(BKV600.*), LISTALL, OPEN
```

Change the remote object name:

```
~SET REMOTE-FILE $DEM.DEMBA2.*
```

Check the newly set values

```
~SHOW
```

In case the request already exists you need to purge it before saving. If it does not, you will get a warning error.

```
~PURGE #DEMBA2
```

Add the request by giving it a name:

```
~ADD #DEMBA2
```

STEP 2 – Start a second requester

To do concurrent transfers, you will need to start the second requester defined in the basic configuration. In production, you can define up to 16 requesters. Issue the command:

```
~START $Q1D2
```

Issue the command

```
~STATUS ALL
```

It should show you both requesters as connected.

STEP 3 – Queue two requests

To queue both requests at the same time issue the command:

```
~QUEUE #DEMLAK, #DEMLA2
```

This will start both requests to be executed simultaneously on the two requesters.

To see the status of the requests, issue:

```
~STATUS #DEMLAK  
~STATUS #DEMLA2
```

or

```
~STATUS #DEMLAK, #DEMLA2
```

After the two requests have completed you can see the objects stored on the server by issuing the command:

```
~TSM QOB *
```

Issue the command SHUTDOWN, to stop all BackHome/TSM processes

```
~SHUTDOWN  
~EXIT
```

Define an OSS request

In the file DEMOREQ, two examples of OSS request are created. The sample backup request is called #DEMOSSB and the restores is called #DEMOSSR.

Issue the command INFO at the BINT command prompt to see the detail of those requests.

```
~INFO #DEMOSSB, #DEMOSSR
```

Step by step migration from previous releases

This chapter explains how to upgrade from older versions of BackHome/TSM.

Compatibility of backup versions

The backup of an older version can be restored by a newer version. The reverse is not true.

Migrate from previous BackHome/TSM version

Note that a special transition license key for BackHome/TSM version is required to run both new and old environments in parallel, as the monitor process name is bound into the license key. This migration procedure assumes that two license keys are available:

- A temporary license key used to prepare the new environment. Please contact ETI-NET to obtain this license key. This license key can be used with any monitor process name to configure and test the new environment.
- A permanent license key to use in the new version with the usual production process name for the Monitor.
- BackHome/TSM V6.0 uses the same Catalog format as V5.2x. No Catalog conversion is required but new files must be added to the V5.2 Catalog.

STEP 1 – Install BackHome/TSM V6.0

Install BackHome/TSM V6.0 with the temporary license key in a new environment. Ref: “Step by step instructions for installation” above.

Please note that the Catalog used during tests and evaluation will be deleted if you plan to migrate the Catalog of a previous version.

STEP 2 – Preliminary migration of the Catalog

BackHome pre-5.20 Catalog

If the production version uses a BackHome pre-5.20 Catalog, a conversion must be done. Please refer to the “*Convert an older Catalog with CATCNV utility*” Section later in this document and execute the **step 1, 2 and 3**.

BackHome 5.20 Catalog

If the production version uses a BackHome/TSM 5.20 Catalog, you do not need to **convert it**.

If you plan to use the actual catalog, you must create four new Catalog files (CATOSS, CATOSS0, CATOSSX and CATOSSX0) in each TSM-REMOTE-IDENTIFICATION Catalog defined in the production BCOMCONF file. To do that, edit the FUPCAT file and comment out the file definitions that you do not need and change the default file attributes if desired.

To use the FUPCAT file to create the Catalog files, enter the following command:

```
>VOLUME <Catalog volume>.<Catalog sub-volume>  
>FUP / IN <BH work volume> .BHV60.FUPCAT /
```

STEP 3 – Shutdown the production environment

Be sure that any important pending requests are completed and the Queue file is empty. The content of the Queue file will not be transferred to the new system.

Make a backup of your current BackHome/TSM production environment.

Shutdown your current BackHome/TSM production environment.

STEP 4 – Migrate the production configuration

Use the TACL macro MIGTOV60 to copy the configuration files and prepare a conversion script to import the Request file from the production environment to the new working sub-volume. The macro assumes that the files are still named as distributed.

The macro copies the files BCOMCONF, DSMOPT, DSMSYS, INCLEXCL, and changes the current working sub-volume name to the new working sub-volume name.

To run this macro, select the BackHome/TSM V6.0 working sub-volume and start the macro as shown below:

```
>VOLUME <BH work volume> .BHV60  
>RUN MIGTOV60
```

First, the macro will list all available BackHome/TSM configuration sub-volumes. Then, the following screen would appear.

```
----- Migrate to BackHome/TSM V6.00 -----  
1. Source sub-volume ..... : $DATA.BHVXX  
2. Target sub-volume ..... : $DATA.BHV60  
3. BackHome/TSM license key .. : XXXX XXXX XXXX XXXX XXXX XXXX  
  
(Number) to modify, (M) to migrate configuration, or (Q) to quit:
```

The 3 options in the menu are:

- **(number)** to modify: when you want to modify one of the parameters displayed just type the corresponding number, type the new value and hit <ENTER>. The menu will be updated on screen.
- **(Q)** to quit the MIGRATION procedure.
- **(M)** to finalize the migration.

You must provide the source sub-volume and you may optionally modify the other parameters, to conform to your own environment or naming convention. These parameters are:

Source sub-volume: The sub-volume that contains the BackHome/TSM configuration. The migration macro will copy from this sub-volume. The date displayed is the “last modified date” of the configuration file DSMSYS.

Target sub-volume: The sub-volume destination where the source BackHome/TSM configuration will be copied.

1. **BackHome/TSM License key:** Replace the XXXX ... placeholder with the new permanent key obtained from ETI-NET. Enter the key, with the spaces, as you received it. This parameter is mandatory.

The macro also prepares a conversion script (STRTCNRQ) that will import the current production Request file. Edit the script file to verify the names of the source and target Request files, or to change parameter. Then, issue the following:

```
>OBEY STRTCNRQ
```

If customized macros or special obey files are used to start BackHome/TSM processes, revise these macros and obey files according to the STRTALL, STRTBLOG, STRTDIST, STRTBGEN, STRTBMON, STRTBINT, STRTOTTY and STRTPCAT prepared in the working sub-volume by the macro INSTALL executed in the “Step by step instructions for installation” above.

STEP 5 – Final migration of the Catalog

BackHome pre-5.20 Catalog

Please refer to the “*Convert an older Catalog with CATCNV utility*” Section later in this document and execute the final **step 4**.

Edit BCOMCONF and enter the new keyword CATALOG-PREFIX for each TSM-REMOTE-IDENTIFICATION to identify the all files that make up a Catalog:

For example, “CATALOG-PREFIX \$DATA.BHV60.CAT” identifies the files:

\$DATA.BHV60.CATBK (and its alternative key file CATBK0)
\$DATA.BHV60.CATCHP
\$DATA.BHV60.CATGUAR (and its alternative key file CATGUAR0)
\$DATA.BHV60.CATOSS (and its alternative key file CATOSS0)
\$DATA.BHV60.CATOSSX (and its alternative key file CATOSSX0)

A Catalog cannot be shared by different remote locations; CATALOG-PREFIX must be different in each TSM-REMOTE-IDENTIFICATION section.

Convert an older Catalog with CATCNV Utility

This utility converts Catalog files from V5.1x format to V6.xx format. **You do not need to convert your BackHome/TSM 5.20 Catalog.** The procedure below is the same whether you are converting from V5.1x to V5.20 or to V6.xx

In pre-V5.20 BackHome, the Catalog file set consists of 2 files:

CATBK (and its alternative key file CATBK0)
CATBKFIL (and its alternative key file CATBKFI0)

In V5.20 BackHome, the Catalog file set is expanded into 3 files

CATBK (and its alternative key file CATBK0)
CATCHP
CATGUAR (and its alternative key file CATGUAR0)

In V6.XX BackHome, 2 supplementary files are added to the V5.20 Catalog file¹ set

CATOSS (and its alternative key file CATOSS0)
CATOSSX (and its alternative key file CATOSSX0)

The V5.20/V6.xx BackHome Catalog also contains the TSM objects owner information and the Tandem system name where the original backup taken place.

The CATCNV utility must be used to convert the Catalog into V5.20/V6.xx format.

To minimize down time for the current BackHome/TSM environment, the Catalog conversion procedure is divided into four steps. **All four steps are mandatory.** Please read to the end of this section before starting the conversion.

¹ The two supplementary files CATOSS and CATOSSX (with their alternate key files) must be created with each occurrence of V5.20 Catalog set even if the OSS option is not enabled.

STEP 1 – Files preparation

This step prepares the output files/Catalog used by the CATCNV utility. This step involves:

1. Determine the size of the V5.20/V6.xx Catalog.

Please note down the extent sizes and the MAXEXTENTS value of the current Catalog files (CATBK, CATBK0, CATBKFIL and CATBKFI0).

The size of the V5.20 CATBK (and CATBK0) and CATCHP is similar to the size of the pre-V5.20 CATBK (and CATBK0). The size of the V5.20/V6.xx CATGUAR and CATGUAR0 is similar to the size of the pre-V5.20 CATBKFIL and CATBKFI0.

You might use this opportunity to increase the sizes of the V5.20/V6.xx Catalog in order to handle future space needs. You may also increase the Extent sizes and reduce the MAXEXTENTS value. When needed, BackHome/TSM will automatically increase the Catalog's MAXEXTENTS value during normal operation.

2. Determine the name of the V5.20/V6.xx Catalog.

V5.20 Catalog file names MUST have the same 1-to-4 characters prefix. For example, if the prefix is "CAT", the V5.20/V6.xx Catalog will consist of the following files: CATBK (and CATBK0), CATCHP, CATGUAR (and CATGUAR0), CATOSS (and CATOSS0) and CATOSSX (and CATOSSX0).

Please note that the "BK", "BK0", "CHP", "GUAR", "GUAR0", "OSS", "OSS0", "OSSX" and "OSSX0" are fixed values. Only the prefix can have different values.

In V5.20/V6.xx, only the Catalog prefix is specified, the software will deduce the file name from this prefix.

3. Edit the FUPCAT

Edit the FUPCAT file to specify the correct files extent sizes, MAXEXTENTS value and the Catalog file names. The values are based on steps 1 and 2 above.

4. Execute this FUPCAT file: At the TAFL prompt, issue the following command

```
FUP /IN FUPCAT/
```

5. Edit the STRTCNV1

This file also creates several other temporary files. Their extent sizes and MAXEXTENTS value must also be compatible with the V5.20/V6.xx Catalog files.

6. Execute this STRTCNV1 file: At the TAFL prompt, issue the following command

```
FUP /IN STRTCNV1/
```

STEP 2 – Run CATCNV utility (first pass)

This runs the CATCNV utility to convert the pre-V5.20 Catalog into a V5.20/V6.xx Catalog.

You do not need to stop BackHome/TSM V5.1x for the first pass. **Please note that this step can proceed while the current BackHome/TSM is running.**

The obey file STRTCNV2 is provided for this step:

```
DELETE  DEFINE  =BCOMF-*
RESET   DEFINE  *
SET     DEFINE  CLASS MAP
ADD     DEFINE  =BCOMF-CATBK-OLD,      FILE  BHV5.CATBK
ADD     DEFINE  =BCOMF-CATBKFIL-OLD,   FILE  BHV5.CATBKFIL
ADD     DEFINE  =BCOMF-CATALOG-PREFIX, FILE  BHV60.TMP
ADD     DEFINE  =BCOMF-CATCNV-INFO,    FILE  BHV60.NEXTPASS

CLEAR   ALL PARAM
PARAM   BK-REMOTE-OWNER      TSMNODE1
PARAM   EXECUTION-NODE       \SYST1

RUN BKV600E.CATCNV /OUT <out-file>, NAME/
```

where:

=BCOMF-CATBK-OLD	The old CATBK file name
=BCOM-CATBKFIL-OLD	The old CATBKFIL file name.
=BCOMF-CATALOG-PREFIX	File name prefix for the temporary files created in Step 1.
=BCOM-CATCNV-INFO	Name of the NEXTPASS file created in Step 1.
BK-REMOTE-OWNER	The TSM node that owns the backup, i.e. Nodename in the DSMSYS file.
EXECUTION-NODE	Tandem system name where the backups have been executed.
<out-file>	Name of out-file where WARNINGS are logged to. Default is the home-term.

Note 1: If your current Catalog is very large, this step may take a while.

Note 2: You must provide the exact TSM Client Node name in the BK-REMOTE-OWNER startup PARAM. If the name is incorrect, all restore attempt using the converted entries will fail. To correct this situation, please contact ETI-NET.

Pre-Conversion step

Before running this utility, prepare a small backup request and execute it. We will try to restore this backup at the end of the conversion. This will validate that the conversion had succeeded and we are able to restore converted Catalog entries.

After the execution of the validation backup, start the conversion Step 3. Step 3 should be executed immediately or as soon as possible. The longer the delay, the longer it will take to run Step 4.

STEP 3 – Load records in the V5.20/V6.xx Catalog

The temporary V5.20/V6.xx Catalog files contents will be loaded into the final V5.20/V6.xx Catalog files which were created in Step 1.

Please EDIT the STRTCNV3 file, and specify the correct V5.20/V6.xx Catalog files; then obey it.

Post-Conversion step

Try to restore a file from your validation backup. If it works, your conversion had succeeded. You can pass to the final step

The next step will allow you to convert whatever records were written to the old Catalog while the first 3 steps were executed. Be aware that after step 4, you should use only the new BackHome/TSM V5.20/V6.xx installation.

Bring down you current BackHome/TSM V5.1x environment gracefully (i.e. no more entries in the QUEUE file with “RESTART” or “AUTOSTART”.) Start your BackHome/TSM V5.20/V6.xx environment and that you have access to the the Catalog by using LISTSF and LISTBK. Bring it down again.

Step 4 should be started immediately (or as soon as possible) after Step 3 completes. The longer the delay, the longer it will take to run Step 4.

STEP 4 – Run CATCNV utility (second pass)

In this step, the CATCNV utility is run again to convert all Catalog entries since the completion of Step 2 into V5.20/V6.xx Catalog. This step can only be performed after the environment of BackHome/TSM V5.1x has been shutdown.

The obey file STRTCNV4 is provided. The high-lighted lines show the differences between STRTCNV4 and STRTCNV2:

```
DELETE  DEFINE  =BCOMF- *
RESET   DEFINE  *
SET      DEFINE  CLASS MAP
ADD      DEFINE  =BCOMF-CATBK-OLD,      FILE  BHV5.CATBK
ADD      DEFINE  =BCOMF-CATBKFIL-OLD,   FILE  BHV5.CATBKFIL
ADD      DEFINE  =BCOMF-CATALOG-PREFIX, FILE  BHV60.CAT
ADD      DEFINE  =BCOMF-CATCNV-INFO,   FILE  BHV60.NEXTPASS

CLEAR   ALL  PARAM
PARAM   BK-REMOTE-OWNER      TSMNODE1
PARAM   EXECUTION-NODE      \SYST1

RUN  BKV600E.CATCNV /OUT <outfile>, NAME/ 2
```

where:

=BCOMF-CATBK-OLD	The old CATBK file name
=BCOM-CATBKFIL-OLD	The old CATBKFIL file name.
=BCOMF-CATALOG-PREFIX	File name prefix for the V5.20 Catalog files created in Step 1.
=BCOM-CATCNV-INFO	Name of the NEXTPASS file created in Step 1.
BK-REMOTE-OWNER	The TSM node that own the backup. Nodename in the DSMSYS file.
EXECUTION-NODE	Tandem system name where the backup taken place
<out-file>	Name of out-file where WARNINGS are logged to. Default is the home-term.
2	Signify that this is the second pass.

Note: You must provide the exact value for the BK-REMOTE-OWNER startup PARAM as in Step 2. If the name is incorrect, all restore attempt using the converted entries will fail. To correct this situation, please contact ETI-NET.

Pre-Conversion step

Before running this utility, prepare a small backup request and execute it. We will try to restore this backup at the end of the conversion. This will validate that the conversion had succeeded and we are able to restore converted Catalog entries.

After the execution of the validation backup, start the conversion.

Post-Conversion step

Try to restore a file from your validation backup. If it works, your conversion had succeeded.

After this step is successfully completed you may start using BackHome/TSM V5.20/V6.xx. If need be you can use FUP to AUDIT option for the new V5.20/V6.xx Catalog files;

All the temporary files created in Step 1 can be deleted.

Be aware that after Step 4, you should use only the new BackHome/TSM V5.20/V6.xx environment.

Quick Start worksheets

For Tivoli Storage Manager [SERVER]

Name	Comment	Value
TSM Client Node name	Name by which the Tandem will be known by the TSM Server. [It is recommended to use the Tandem system name without the \.]	----- Example: <u>N</u> <u>S</u> <u>K</u> <u>P</u> <u>R</u> <u>O</u> <u>D</u>
TSM Password	The TSM password for the above node name that will be entered in the step 2 of “ Identify the node to the TSM server ”. Notes: This field can be up to 64 Characters in length, and it is case sensitive.	----- -----
IP Address	The IP address of the server that will be used by the Tandem	----- . ----- . ----- . ----- Example: <u>1</u> <u>9</u> <u>2</u> . <u>1</u> <u>6</u> <u>8</u> . <u>1</u> <u>1</u> <u>1</u> . <u>1</u> <u>1</u> <u>1</u> .
TCP/IP port	The TCP/IP Port that will be used by the Tandem [default port is 1500]	----- Example: <u>1</u> <u>5</u> <u>0</u> <u>0</u>

For Tandem Technical Person [CLIENT]

Name	Comment	Value
Local location name	The logical name assigned by the customer; begins with % followed by: 1 to 5 characters.	% _____ Example: % <u>Q1I</u> __
BackHome/TSM license key	This will be given to you by ETI-NET. [It will be 24 digits in length and you will need to provide ETI-NET with your System Name & Local Location Name to have created]	_____ _____
System name	1 to 7 characters; on WHO command, this is the first field of the TACL	\ _____ Example: \ <u>N S K P R O D</u>
Catalog	YES / NO	YES NO
TCP/IP configuration	Set of DEFINES that configure TCPIP for BackHome/TSM. The most frequent used defines are: =TCPIP^PROCESS^NAME =TCPIP^HOST^FILE =TCPIP^RESOLVER^NAME	TCPIP^PROCESS^NAME = \$ _____ Example: \$ZTC0
Installation volume	Volume where BackHome/TSM will be installed.	\$ _____ Example: \$ <u>D A I A 2 1</u>

For Tivoli Storage Manager [SERVER]

Name	Comment	Value
TSM Client Node name	Name by which the Tandem will be known by the TSM Server. [It is recommended to use the Tandem system name without the \.]	<p>-----</p> <p>Example: <u>N</u><u>S</u><u>K</u><u>P</u><u>R</u><u>O</u><u>D</u></p>
TSM Password	<p>The TSM password for the above node name that will be entered in the step 2 of “Identify the node to the TSM server”.</p> <p>Notes: This field can be up to 64 Characters in length, and it is case sensitive.</p>	<p>-----</p> <p>-----</p>
IP Address	The IP address of the server that will be used by the Tandem	<p>-----</p> <p>Example: <u>1</u><u>9</u><u>2</u> . <u>1</u><u>6</u><u>8</u> . <u>1</u><u>1</u><u>1</u> . <u>1</u><u>1</u><u>1</u> .</p>
TCP/IP port	The TCP/IP Port that will be used by the Tandem [default port is 1500]	<p>-----</p> <p>Example: <u>1</u><u>5</u><u>0</u><u>0</u></p>

For Tandem Technical Person [CLIENT]

Name	Comment	Value
Local location name	The logical name assigned by the customer; begins with % followed by: 1 to 5 characters.	% _____ Example: % <u>Q1I</u> __
BackHome/TSM license key	This will be given to you by ETI-NET. [It will be 24 digits in length and you will need to provide ETI-NET with your System Name & Local Location Name to have created]	_____ _____
System name	1 to 7 characters; on WHO command, this is the first field of the TACL	\ _____ Example: \ <u>N S K P R O D</u>
Catalog	YES / NO	YES NO
TCP/IP configuration	Set of DEFINEs that configure TCPIP for BackHome/TSM. The most frequent used defines are: =TCPIP^PROCESS^NAME =TCPIP^HOST^FILE =TCPIP^RESOLVER^NAME	TCPIP^PROCESS^NAME = \$ _____ Example: \$ZTC0
Installation volume	Volume where BackHome/TSM will be installed.	\$ _____ Example: \$ <u>D A I A 2 1</u>