



BackBox[®] E5.00 NonStop Installation

Abstract

This NonStop Installation document is for BackBox[®] E5.00

Published: March 2025



Legal Notice

© Copyright 2013, 2025 ETI-NET Inc. All rights reserved.

Confidential computer software. Valid license from ETI-NET Inc. required for possession, use or copying.

The information contained herein is subject to change without notice. The only warranties for ETI-NET- products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. ETI-NET shall not be liable for technical or editorial errors or omissions contained herein.

BackBox is registered trademark of ETI-NET Inc.

StoreOnce is a registered trademark of Hewlett Packard Development, L.P.

Microsoft, Windows, and Windows NT are U.S. registered trademarks of Microsoft Corporation. Tivoli Storage Manager (TSM) is a registered trademark of IBM Corporation.

QTOS is a registered trademark of Quality Software Associates Inc.

All other brand or product names, trademarks or registered trademarks are acknowledged as the property of their respective owners.

This document, as well as the software described in it, is furnished under a License Agreement or Non- Disclosure Agreement. The software may be used or copied only in accordance with the terms of said Agreement. Use of this manual constitutes acceptance of the terms of the Agreement. No part of this manual may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, and translation to another programming language, for any purpose without the written permission of ETI-NET Inc.

Copyright © 2013, 2025 ETI-NET Inc. All rights reserved.

Table of Contents

- Introduction 4
 - BackBox Distribution Package 4
 - Initial installation 4
- Detailed Installation Activities 6
 - PREP1: Configure the NonStop TCP/IP LISTNER 6
 - INST1: Install BACKBOX on the Main NonStop System 6
 - INST2: Install BACKBOX on a Peripheral NonStop System 11
 - TEST: Start and Stop the EMS Extractor 13

Introduction

This manual describes how to install the BACKBOX software on a NonStop system.

This Installation Guide is organized in two chapters:

1. Introduction - lists the activities for an initial installation on NonStop platform.



The software update is described in separate manuals dedicated to the product update.

2. Detailed Installation Activities - provides the detailed procedure for each installation activity.

BackBox Distribution Package

In the BACKBOX package:

- In the Guardian-DDMMYYY directory:
 - The Guardian INSE macro
 - The Guardian BBE PAK file
- In the Documentation directory, the following guides:
 - [BACKBOX User Manual](#)
 - [BACKBOX Troubleshooting and Messages Manual](#)

Initial installation

In addition to the BackBox package, the following configuration information is needed:

- BackBox software installation location on the NonStop system(s).
All components including the BackBox domain manager will be installed on a single disk sub-volume on the NonStop system.
A subset of the components will be installed, if applicable, on the peripheral node (only one peripheral node is permitted).
The Peripheral node is installed by the same INSTALL macro.
- Domain manager TCP/IP port and address of the NonStop hosting the domain manager.
- BackBox domain name (can be changed after the initial installation)
- BackBox license key (can be changed after the initial installation)
- Process name and start method for the EMS Extractor.
The start method can be either an OBEY file or a persistent process configured in SCF.



A NonStop user ID in the SUPER group is required.



Use an ID in the SUPER group, but not SUPER.SUPER. This user ID will own all installed files.
Because BBSV and BBEXT will be PROGID by the macro, all non-interactive processes that have not logged-in will run under this user ID.



SUPER.SUPER is not accepted.

This user ID, for example SUPER.BBOX, will:

- Run the install macro INSE500
- Own all installed files.
- Be the default user ID running all BackBox processes.
Processes initiated by the BackBox UI will run with the user ID entered by the user at UI start-up.

For an initial installation follow the scenario:

Step	Description
1. On the HPE NonStop system that will run the Domain Manager: Configure TCP/IP LISTNER for the Domain Manager	Modify the PORTCONF file and restart the LISTENER. In some production environments this might require advanced planning. This may also be done well in advance of the actual BackBox installation. PREP-1: Configure the NonStop TCP/IP LISTNER

Step	Description
2. On the HPE NonStop system that will run the Domain Manager: Install the NonStop BACKBOX software	Upload the BBE500 PAK file and the INSE500 installation macro. Log in this system Run the INSE500 macro with the option A – Install All. INST-1: Install BackBox on the main NonStop system
3. For the other HPE NonStop system that will managed in the same BACKBOX domain: Install the NonStop BackBox software	Log in this peripheral system Run the IINSE500 macro on the main system with the option P – Install Peripheral node. INST-2: Install BackBox on a peripheral NonStop system
4. For each HPE NonStop system of the domain: Verify the NonStop to NonStop TCPIP communication	Start and stop the EMS Extractor program on the main and peripheral nodes, Verify its correct starting in EMS. TEST-1: Start and stop the EMS Extractor

Detailed Installation Activities

PREP1: Configure the NonStop TCP/IP LISTNER

The BACKBOX domain manager's program file BBSV is started by the Guardian LISTNER process for each service request. BBSV must be defined in the PORTCONF file.

The LISTNER needs to be configured only on the system that will run the Domain Manager program BBSV.

Choose the installation disk sub-volume (here \$DATA05.BPAK) and TCP/IP port (here 4561).

- a. Update the TCP/IP PORTCONF file using Guardian tools.

Below is an example of a PORTCONF file, where \$DATA05.BPAK.BBSV is the program name and 4561 is the assigned port. Refer to the configuration information table INF-1a for the actual values.

```
ftp                $system.ztcpip.ftpserv
finger            $system.ztcpip.fingerv
7                 $system.ztcpip.echoserv
4561             $DATA05.BPAK.BBSV
Phiwsock          $DSMSCM.ZDSMSCM.PDPEXE
```

- b. Restart the Guardian LISTNER process.

INST1: Install BACKBOX on the Main NonStop System

Upload the installation files to a temporary sub-volume on the NonStop.

- PAK file BBE, in binary mode.
- Macro INSE, in ASCII mode.

If the TCP/IP LISTNER has been configured and restarted, the Domain Manager installed by the INSE412 MACRO will be ready to:

- Receive log messages from the VTCs and forward them to the local EMS.
- Reply to requests from the GUI.

The NonStop content of the distribution PAK file is listed in [Appendix – NonStop files in BackBox Package](#)

The INSE macro will:

- Install the BACKBOX software on the system that will host the Domain Manager and the node's specific components, such as the EMS Extractor.
- Detect the NSK hardware type and install the proper objects (code 700 or 800).
- Update the NSK sample configuration and the OBEY files for a first installation.
- If the target sub-volume already contains configuration or data files, INSTALL executes only a software update by replacing executable and macro files. Configuration, data files, and OBEY files will not be updated.

At a NonStop Guardian TACL prompt, enter:

```
>VOLUME <target-subvol>
```

```
>RUN INSE
```

```
$DATA15 QCTEST 16>run INSE5TXT
```

```
Searching for latest PAK file $*.*.BBE500*
```

```
press Break key to stop ...
```

```
... found $DATA15.BPAKTMPE.BBE500 (2024-NOV-29 15:57)
```

```
... found $DATA15.BPAKTMPE.BBE500A (2024-SEP-18 10:44)
```

```
----- Installation of BackBox E5.00 NSK components -----
```

1. Input PAK file : \$DATA15.BPAKTMPE.BBE500 (NOV-29 15:57)
2. Target subvol : \$DATA15.QCTEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location : \$S.#BB0X
6. TCPIP process name : \$ZTC0
31. EMS Extractor (BBEXT) process : \$BBEXT
33. Domain manager TCPIP address. : 127.0.0.1
34. Domain manager TCPIP port.... : 4561

```
(Number) option to modify, (I) to install, or (Q) to quit :31
```

The macro's menu displays the current values for all options. Enter a number to change the corresponding option until you are satisfied with the displayed values. Then enter the letter "I" to continue installation and extract appropriate files to the target sub-volume. The available options for the INSTALL macro are:

1. Input PAK file: Location of the distribution PAK file.

The macro searches for the latest distribution PAK file on all the local disks. To stop a search executing too long on multiple disks, hit Break key. The file modification time is displayed beside the file name.

If the name of the PAK file to install is not displayed, it can be entered. The file name can be qualified by a remote node name.

2. Target subvol: Installation sub-volume.

Default value is the current sub-volume. It can be a remote sub-volume accessed over Expand.

It must be the same as the location of BBSV as listed in the TCP/IP PORTCONF file

during PREP1: Configure the NonStop TCP/IP LISTNER.

3. Install All or Peripheral node: Type of installation.

"A" (All) to install all programs on the NonStop node that will host the BACKBOX Domain Manager.

"P" (Peripheral node) to install only the node's specific components, such as the EMS Extractor.

Select "A"

4. Initial installation or Update

"I" to execute initial installation, including sample files customization.

"U" to update only programs, distributed TACL macro and EMS filter files.

This value is automatically prompted by the macro if configuration files are present in the target sub-volume.

Select "I"



The INSTALL macro doesn't allow overwriting existing configuration files. To re-execute the Initial installation on a target sub-volume that does not contain valuable data, first delete all files in this sub-volume.

5. Spooler location

Will be used in customizing some of the OBEY files.

6. TCP/IP process name (displayed only if Initial install is specified)

The TCP/IP process name that will allow the EMS Extractor and NonStop TACL OBEY files, such as OBB017, to access the Domain Manager.

By default this option is initialized with the value of the default =TCPIP^PROCESS^NAME, if present in the current TACL environment.

31. EMS Extractor (BBEXT) process

Process name of the EMS Extractor.

33. Domain manager TCP/IP address (displayed only if Initial install is specified)

TCP/IP address for the Domain Manager to be used by the EMS Extractor and by the NonStop TACL OBEY files. Default value is 127.0.0.1.

If the Peripheral NonStop nodes are supposed be managed by the same BACKBOX domain, enter the real IP address of the local NonStop node. This address will be used by Peripheral nodes to connect to the domain manager

34. Domain manager TCP/IP port (displayed only if Initial install is specified)

TCP/IP port for the Domain Manager to be used by the EMS Extractor and by the NonStop TACL OBEY files. Default value is 4561.

Enter the same value as the on in TCP/IP PORTCONF file during PREP1: Configure the NonStop TCP/IP LISTNER.

Execution sample

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

```
$DATA15 QCTEST 16>run INSE5TXT
Searching for latest PAK file $*.*.BBE500*
press Break key to stop ...
... found $DATA15.BPAKTMPE.BBE500 (2024-NOV-29 15:57)
... found $DATA15.BPAKTMPE.BBE500A (2024-SEP-18 10:44)

----- Installation of BackBox E5.00 NSK components -----

 1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500 (NOV-29 15:57)
 2. Target subvol ..... : $DATA15.QCTEST
 3. Install All or Peripheral node: All
 4. Initial installation or Update: Initial
 5. Spooler location ..... : $.#BBOX
 6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $BBEXT
33. Domain manager TCPIP address. : 127.0.0.1
34. Domain manager TCPIP port.... : 4561
```

(Number) option to modify, (I) to install, or (Q) to quit :**31**

EMS Extractor (BBEXT) process name (\$BBEXT) :\$QC500

```

----- Installation of BackBox E5.00 NSK components -----
1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
2. Target subvol ..... : $DATA15.QCTEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $.#BBOX
6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $QC500
33. Domain manager TCPIP address. : 127.0.0.1
34. Domain manager TCPIP port.... : 4561

```

(Number) option to modify, (I) to install, or (Q) to quit :33

Domain manager TCPIP address (127.0.0.1 to loop back): 192.168.20.63

```

----- Installation of BackBox E5.00 NSK components -----
1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
2. Target subvol ..... : $DATA15.QCTEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $.#BBOX
6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $QC500
33. Domain manager TCPIP address. : 192.168.20.63
34. Domain manager TCPIP port.... : 4561

```

(Number) option to modify, (I) to install, or (Q) to quit :34

Domain manager TCPIP process port : 4592

```

----- Installation of BackBox E5.00 NSK components -----
1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
2. Target subvol ..... : $DATA15.QCTEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $.#BBOX
6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $QC500
33. Domain manager TCPIP address. : 192.168.20.63
34. Domain manager TCPIP port.... : 4592

```

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

Confirm to proceed (Y/N) : y
must replace these files, before upgrade
UNPAK - File decompression program - T1255H01 - (2016-02-15)

```

Archive version: 1
File Mode RESTORE Program - T9074H01 (19OCT2016) (AGX)
(C)Copyright 2015 Hewlett Packard Enterprise Development LP
Drives: (\ETINIUM.$Z80G)
System: \ETINIUM Operating System: J06 Tape Version: 3
Backup options: AUDITED, BLOCKSIZE 8, NO IGNORE, OPEN, PARTONLY OFF,
INDEXES IMPLICIT
*WARNING-7147* Files created and stored via OSS and SQL/MX objects are not
supported.
Restore time: 18Feb2025 16:39 Backup time: 29Nov2024 15:57 Page: 1

Tape: 1      Code      EOF      Last modif  Owner RWEP  Type  Rec Bl
$DATA15.QCTEST
MACROS      101      140702 17Sep2024 13:40 255,101 NNNN
OBB011      101      722 16Sep2024 15:05 255,101 NNNN
OBB012      101      736 16Sep2024 15:05 255,101 NNNN

```

Summary Information

Files restored = 3 Files not restored = 0
UNPAK /NAME/ \$DATA15.BPAKTMPE.BBE500, (\$*.BBE500.*, \$*.BBE500E.*),
MAP NAMES \$*.* TO \$DATA15.QCTEST.*, MYID,OPEN,LISTALL,AUDITED
UNPAK - File decompression program - T1255H01 - (2016-02-15)

```

Archive version: 1
File Mode RESTORE Program - T9074H01 (19OCT2016) (AGX)
(C)Copyright 2015 Hewlett Packard Enterprise Development LP
Drives: (\ETINIUM.$Z80H)

```


System: \ETINIUM Operating System: J06 Tape Version: 3
Backup options: AUDITED, BLOCKSIZE 8, NO IGNORE, OPEN, PARTONLY OFF,
INDEXES IMPLICIT
WARNING-7147 Files created and stored via OSS and SQL/MX objects are not
supported.

Restore time: 18Feb2025 16:39 Backup time: 29Nov2024 15:57 Page: 1

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl
\$DATA15.QCTEST								
BB011	888	5632	16Sep2024 15:05	255,101	NNNN			
BB012	888	5120	16Sep2024 15:05	255,101	NNNN			
BB018	888	12288	16Sep2024 15:05	255,101	NNNN			
BB019	888	8704	16Sep2024 15:05	255,101	NNNN			
BB021	888	11776	16Sep2024 15:05	255,101	NNNN			
BB025	888	7680	16Sep2024 15:05	255,101	NNNN			
BB032	888	4608	16Sep2024 15:05	255,101	NNNN			
BB038	888	5120	16Sep2024 15:05	255,101	NNNN			
BB039	888	11264	16Sep2024 15:05	255,101	NNNN			
BBREST	101	27248	16Sep2024 15:05	255,101	NNNN			
BBSSETUP	101	2922	16Sep2024 15:05	255,101	NNNN			
BBSVCFG	101	2088	16Sep2024 15:05	255,101	NNNN			
EMSFLT1	101	162	16Sep2024 15:05	255,101	NNNN			
EMSFLT2	845	178	16Sep2024 15:05	255,101	NNNN			
EMSUPIN	101	2190	16Sep2024 15:05	255,101	NNNN			
EMSOUT		0	16Sep2024 15:05	255,101	NNNN	E	560	4
JOBSTAT		0	16Sep2024 15:05	255,101	NNNN	K	1288	4
JOBSTAT0		0	16Sep2024 15:05	255,101	NNNN	K	146	4
MACROS	101	140702	17Sep2024 13:40	255,101	NNNN			
NSKCR		1316	16Sep2024 15:05	255,101	NNNN			
NSKDER		1773	16Sep2024 15:05	255,101	NNNN			
OB004	101	2580	16Sep2024 15:05	255,101	NNNN			
OB004B	101	4198	16Sep2024 15:05	255,101	NNNN			
OB005	101	1536	16Sep2024 15:05	255,101	NNNN			
OB011	101	722	16Sep2024 15:05	255,101	NNNN			
OB012	101	736	16Sep2024 15:05	255,101	NNNN			
OB015	101	2254	16Sep2024 15:05	255,101	NNNN			
OB017	101	2306	16Sep2024 15:05	255,101	NNNN			
OB018	101	6858	16Sep2024 15:05	255,101	NNNN			
OB019	101	7248	16Sep2024 15:05	255,101	NNNN			
OB021	101	7144	16Sep2024 15:05	255,101	NNNN			
OB025	101	6858	16Sep2024 15:05	255,101	NNNN			
OB032	101	470	16Sep2024 15:05	255,101	NNNN			
OB038	101	744	16Sep2024 15:05	255,101	NNNN			
OB039	101	6858	16Sep2024 15:05	255,101	NNNN			
OB055	101	850	16Sep2024 15:05	255,101	NNNN			
OBWIN1	101	318	16Sep2024 15:05	255,101	NNNN			
OEMS	101	2278	16Sep2024 15:05	255,101	NNNN			
OEMS2	101	2580	16Sep2024 15:05	255,101	NNNN			
OEMSFLT	845	152	16Sep2024 15:05	255,101	NNNN			
OEXT	101	2712	16Sep2024 15:05	255,101	NNNN			
OPER		0	16Sep2024 15:05	255,101	NNNN	K	4062	4
ORWIN1	101	2370	16Sep2024 15:05	255,101	NNNN			

Restore time: 18Feb2025 16:39 Backup time: 29Nov2024 15:57 Page: 2

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl
SCFIN1	101	612	16Sep2024 15:05	255,101	NNNN			
SCFIN2	101	2294	16Sep2024 15:05	255,101	NNNN			
SCFIN4	101	158	16Sep2024 15:05	255,101	NNNN			
SCFIN5	101	2424	16Sep2024 15:05	255,101	NNNN			
SCFIN6	101	2430	16Sep2024 15:05	255,101	NNNN			
SSLCFG	101	2286	16Sep2024 15:05	255,101	NNNN			
STATE		0	16Sep2024 15:05	255,101	NNNN	K	446	4
STATS		0	16Sep2024 15:05	255,101	NNNN	E	4000	4
USERLIST	180	3253	16Sep2024 15:05	255,101	NNNN			
VOEXT		0	16Sep2024 15:05	255,101	NNNN	E	932	4
VOLUME		0	16Sep2024 15:05	255,101	NNNN	K	4056	4
VOLUME0		0	16Sep2024 15:05	255,101	NNNN	K	46	4
VTCCRT		1316	16Sep2024 15:05	255,101	NNNN			
BB010	800	2043360	29Nov2024 14:14	255,101	NNNN			

BB030	800	119728	29Nov2024	14:14	255,101	NNNN
BB031	800	5207056	29Nov2024	14:13	255,101	NNNN
BB033	800	56008	29Nov2024	14:11	255,101	NNNN
BB034	800	50680	29Nov2024	14:11	255,101	NNNN
BB037	800	515768	29Nov2024	14:13	255,101	NNNN
BB042	800	393856	29Nov2024	14:13	255,101	NNNN
BB043	800	51168	29Nov2024	14:11	255,101	NNNN
BB044	800	902456	29Nov2024	14:12	255,101	NNNN
BB045	800	426096	29Nov2024	14:14	255,101	NNNN
BB053	800	1686032	29Nov2024	14:12	255,101	NNNN
BB055	800	2080048	29Nov2024	14:12	255,101	NNNN
BB056	800	1996936	29Nov2024	14:13	255,101	NNNN
BBCMD	800	1785760	29Nov2024	14:14	255,101	NNNN
BBCRYPTO	800	44994488	29Nov2024	14:10	255,101	NNNN
BBDBM	800	7081088	29Nov2024	14:20	255,101	NNNN
BBDELVOL	800	231568	29Nov2024	14:10	255,101	NNNN
BBEXT	800	2738024	29Nov2024	14:11	255,101	NNNN
BBFIXVOL	800	232312	29Nov2024	14:11	255,101	NNNN
BBLIB	800	5390392	29Nov2024	14:11	255,101	NNNN
BBMERCAT	800	244720	29Nov2024	14:10	255,101	NNNN
BBPSCODE	800	1670928	29Nov2024	14:10	255,101	NNNN
BBSSL	800	7435744	29Nov2024	14:09	255,101	NNNN
BBSV	800	6705584	29Nov2024	14:11	255,101	NNNN
BBULIST	800	97624	29Nov2024	14:10	255,101	NNNN
BBVERCER	800	25984	29Nov2024	14:09	255,101	NNNN
TAPERD	800	102824	29Nov2024	14:11	255,101	NNNN
TAPEWR	800	273736	29Nov2024	14:10	255,101	NNNN
TRCLIST	800	111192	29Nov2024	14:11	255,101	NNNN

Summary Information

Files restored = 85 Files not restored = 0

FUP SECURE \$DATA15.QCTEST.BBSV,CCCC,PROGID

FUP SECURE \$DATA15.QCTEST.EMSFLT*, NNNN

FUP SECURE \$DATA15.QCTEST.OPER, NCNC

FUP SECURE \$DATA15.QCTEST.VOLUME*, NCNC

Editing OEMS2...

Editing OBWIN1...

Editing ORWIN1...

Editing OBB018...

Editing OBB019...

Editing OBB021...

Editing OBB025...

Editing OBB032...

Editing OBB039...

Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE

Editing OBB055 ...

Editing OEXT...

Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE

Editing SCFIN1 ...

FUP SECURE \$DATA15.QCTEST.BBEXT,NCNC,PROGID

Editing BBSETUP...

Editing OBB017...

Editing OEMS...

Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE

Editing SSLCFG ...

Loaded from \$DATA15.QCTEST.BBSETUP:

BBSV_ADDR	BBSV_PORT	BBSV_TCPIP	VTC_OBJECT	EZX_MAXRETRY
EZX_RETRYDELAY	EZX_TIMEOUT			

Loaded from \$DATA15.QCTEST.MACROS:

BB_BBOX_PGM_VERSION	BB_041_TIMEOUT
BB_041_DEVICE	BB_041_LABELS
BB_041_PROCESS	BB_VALID_HHMMSS
BB_QUALIFY_SUBVOL	BB_GET_EXISTING_FILE
BB_CHECK_EXIST_FILE	BB_FILENAME_SYNTAX
BB_VALID_TIMESTAMP	BB_TCPIP
BB_GET_TMP_FILE	IS_NUMERIC
LOG_TEXT	BB_GET_DEFAULT_VOL
BB_GET_IN_SUBVOL	BB000_COLLECT
BB001_TIME_EDIT	BB002_VERSION
BB003_UPGRADE	BB003_GET_OPTION
BB003_VALID_TARGET	BB003_VALID_BKUP
BB003_UPGRADE_EXEC	BB017_FREE_EXPIRED

```

BB018_DEFAULTS          BB030_EXTRACT_STATS
BB020_RESERVE           BB022_CHECK_SPACE
BB004_DATASTORE_UPDATEPW BB004_DATASTORE_VALIDATE_ACC
BB005_DATASTORE_MIGRATION BB023_DEL_BACKEDUP
BB024_LIB_SYNC          BB026_EXPORT_CATALOG
BB027_IMPORT_CATALOG    BB036_BACKUP_STORE
BB038_FREE_LIB_MEDIA     BB040_VIRTUALIZE_PREP
BB041_VIRTUALIZE_START   BB042_VIRTUALIZE
LISTT                   VIEWT
TMFC2                   BB054_SHUTDOWN
-----> NonStop BackBox installed in $DATA15.QCTEST,
-----> from $DATA15.BPAKTMPE.BBE500.
-----> Please verify if any error message was issued above.
Create initial USER Profile List used for BackBox Access Control
Userlist =\ETINIUM.$DATA15.QCTEST.USERLIST, user =SUPER.ETINET

$DATA15 QCTEST 17>

```

INST2: Install BACKBOX on a Peripheral NonStop System



Since version 4.09 each peripheral node is controlled and managed by its own peripheral node license. Licenses are available upon request. Contact [ETI-NET Support](#) for peripheral node license request. The license file received has to be uploaded on the NonStop in binary mode. See license file content \ETINIUM.\$DATA05.BPAK.BBEXTLIC in the sample below.

A peripheral system can be installed only after the Domain manager has been installed on the main system. Login to the peripheral node with an account registered in SUPER group. Run the INSE macro to install the BACKBOX software. Only the node's specific components, such as the EMS Extractor, will be installed.

At a NonStop Guardian TACL prompt (SUPER group), enter:

```

>VOLUME <target-subvol>
>RUN \main-node.$vol.subvol.INSE
----- Installation of BackBox E5.00 NSK components -----

```

```

Domain subvol \node.$vol.subvol () :\insidx.$etinet.qae500
 1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
 2. Target subvol ..... : $DATA15.QCTEST
 3. Install All or Peripheral node: Peripheral node only (EMS Extractor)
 4. Initial installation or Update: Initial
 5. Spooler location ..... : $S.#BBOX
 6. TCPIP process name ..... : $ZTC2
31. EMS Extractor (BBEXT) process : $BBEXT
32. Domain subvol ..... : \INSIDX.$ETINET.QAE500

```

(Number) option to modify, (I) to install, or (Q) to quit :31

Execution sample

```

$DATA15 QCTEST 36> run INSE5TXT
Searching for latest PAK file $*.*.BBE500*
press Break key to stop ...
... found $DATA15.BPAKTMPE.BBE500 (2024-NOV-29 15:57)
... found $DATA15.BPAKTMPE.BBE500A (2024-SEP-18 10:44)

```

```

----- Installation of BackBox E5.00 NSK components -----

 1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
 2. Target subvol ..... : $DATA15.QCTEST
 3. Install All or Peripheral node: All
 4. Initial installation or Update: Initial
 5. Spooler location ..... : $S.#BBOX
 6. TCPIP process name ..... : $ZTC2
31. EMS Extractor (BBEXT) process : $BBEXT
33. Domain manager TCPIP address. : 127.0.0.1
34. Domain manager TCPIP port.... : 4561

```

(Number) option to modify, (I) to install, or (Q) to quit :3

What to install (A-All / P-Peripheral node EMS Extractor):p

----- Installation of BackBox E5.00 NSK components -----

```
Domain subvol \node.$vol.subvol () :\insidx.$etinet.qae500
 1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
 2. Target subvol ..... : $DATA15.QCTEST
 3. Install All or Peripheral node: Peripheral node only (EMS Extractor)
 4. Initial installation or Update: Initial
 5. Spooler location ..... : $S.#BBOX
 6. TCPIP process name ..... : $ZTC2
31. EMS Extractor (BBEXT) process : $BBEXT
32. Domain subvol ..... : \INSIDX.$ETINET.QAE500
```

(Number) option to modify, (I) to install, or (Q) to quit :31

EMS Extractor (BBEXT) process name (\$BBEXT) :\$sn500

----- Installation of BackBox E5.00 NSK components -----

```
 1. Input PAK file ..... : $DATA15.BPAKTMPE.BBE500      (NOV-29 15:57)
 2. Target subvol ..... : $DATA15.QCTEST
 3. Install All or Peripheral node: Peripheral node only (EMS Extractor)
 4. Initial installation or Update: Initial
 5. Spooler location ..... : $S.#BBOX
 6. TCPIP process name ..... : $ZTC2
31. EMS Extractor (BBEXT) process : $SN500
32. Domain subvol ..... : \INSIDX.$ETINET.QAE500
```

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

```
Confirm to proceed (Y/N) : y
UNPAK /NAME/ $DATA15.BPAKTMPE.BBE500, ($*.BBE500E.BBEXT, $*.BBE500E
.BBLIB, $*.BBE500E.BBSSL, $*.BBE500E.BBCRYPTO, $*.*.OEXT,
$*.*.SCFIN1, $*.*.OBWIN1, $*.*.ORWIN1,
$*.*.EMSFILT1, $*.*.EMSFILT2, $*.*.EMSFUPIN, $*.*.OEMS*), VOL $DATA15
.QCTEST, MYID,OPEN,LISTALL, AUDITED
UNPAK - File decompression program - T1255H01 - (2016-02-15)
```

Archive version: 1

File Mode RESTORE Program - T9074H01 (19OCT2016) (AGX)

(C)Copyright 2015 Hewlett Packard Enterprise Development LP

Drives: (\ETINIUM.\$Z9TS)

System: \ETINIUM Operating System: J06 Tape Version: 3

Backup options: AUDITED, BLOCKSIZE 8, NO IGNORE, OPEN, PARTONLY OFF,
INDEXES IMPLICIT

WARNING-7147 Files created and stored via OSS and SQL/MX objects are not
supported.

Restore time: 19Feb2025 15:38 Backup time: 29Nov2024 15:57

Page: 1

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec Bl
\$DATA15.QCTEST							
EMSFILT1	101	162	16Sep2024 15:05	255,101	NNNN		
EMSFILT2	845	178	16Sep2024 15:05	255,101	NNNN		
EMSFUPIN	101	2190	16Sep2024 15:05	255,101	NNNN		
OBWIN1	101	318	16Sep2024 15:05	255,101	NNNN		
OEMS	101	2278	16Sep2024 15:05	255,101	NNNN		
OEMS2	101	2580	16Sep2024 15:05	255,101	NNNN		
OEMSFILT	845	152	16Sep2024 15:05	255,101	NNNN		
OEXT	101	2712	16Sep2024 15:05	255,101	NNNN		
ORWIN1	101	2370	16Sep2024 15:05	255,101	NNNN		
SCFIN1	101	612	16Sep2024 15:05	255,101	NNNN		
BBCRYPTO	800	44994488	29Nov2024 14:10	255,101	NNNN		
BBEXT	800	2738024	29Nov2024 14:11	255,101	NNNN		
BBLIB	800	5390392	29Nov2024 14:11	255,101	NNNN		
BBSSL	800	7435744	29Nov2024 14:09	255,101	NNNN		

Summary Information

Files restored = 14 Files not restored = 0

FUP SECURE \$DATA15.QCTEST.EMSFILT*, NNNN

Editing OEMS2...

Editing OBWIN1...

```
Editing ORWIN1...
Editing OEXT...
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing SCFIN1 ...
```

```
FUP SECURE $DATA15.QCTEST.BBEXT,NCNC,PROGID
Editing OEMS...
-----> BackBox Peripheral node installed in $DATA15.QCTEST,
-----> from $DATA15.BPAKTMPE.BBE500.
-----> Please verify if any error message was issued above.
```

TEST: Start and Stop the EMS Extractor

EMS Extractor must run in all NonStop systems that will have tape devices configured in the domain. The EMS Extractor can be started by a simple OBEY file (provided OEXT), which is convenient for initial testing. It can also be defined as a persistent process to the NonStop Kernel (sample SCF commands are provided in file SCFIN1.)



For production use, it is recommended that the Extractor be configured as a persistent process so that it will be automatically restarted in the event of any NonStop system restart. This will avoid the possibility of tape mounts going un-serviced because the Extractor is not running.

The INSTALL macro previously executed performed minimal EMS Extractor configuration. More configurations are possible, see the [User Manual > Configuration](#) section.

If the Extractor is to be started using the OEXT OBEY file, check and customize its process name before running it:

```
TEDIT OEXT
OBEY OEXT
```

If the Extractor is to be started using SCF:

- The NSK Kernel will start the EMS Extractor automatically at machine load or at process ABEND.
 - Customize the provided SCFIN1 file before using it. The Extractor process must be initially manually started by SCF.
- For example:

```
TEDIT SCFIN1
```

```
SCF
```

```
1-> OBEY SCFIN1
```

```
2-> START PROCESS $ZZKRN.#BBOXEXT
```

After starting the Extractor, check in EMS for the message on the local node:

I3517 EMS Extractor started for Domain <domain-id>(BBEXT BackBox-version)

Then stop it. The EMS Extractors will be restarted after the implementation of tape drives before the first test of a tape application.

For example:

```
STOP $BBEXT
```

```
SCF ABORT PROCESS $ZZKRN.#BBOXEXT
```

Check also the EMS console for tape events started in the system that hosts the domain manager.

If BBEXT abends at startup with the EMS message "F1001- Error 70 from second FILE_OPEN_ on EMSDIST", see "\$BBEXT EMS Extractorabend at startup" in the [BACKBOX Troubleshooting and Messages Manual](#)