



BackBox[®] E5.01 NonStop Installation

Abstract

This NonStop Installation document is for BackBox[®] E5.01

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Introduction

E501 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.
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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 INSE501 macro
 - The Guardian BBE501 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 INSE501
- 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
<p>2. On the HPE NonStop system that will run the Domain Manager:</p> <p>Install the NonStop BACKBOX software</p>	<p>Upload the BBE501 PAK file and the INSE501 installation macro.</p> <p>Log in this system Run the INSE501 macro with the option A – Install All.</p> <p>INST-1: Install BackBox on the main NonStop system</p>
<p>3. For the other HPE NonStop system that will managed in the same BACKBOX domain:</p> <p>Install the NonStop BackBox software</p>	<p>Log in this peripheral system Run the IINSE501 macro on the main system with the option P – Install Peripheral node.</p> <p>INST-2: Install BackBox on a peripheral NonStop system</p>
<p>4. For each HPE NonStop system of the domain: Verify the NonStop to NonStop TCPIP communication</p>	<p>Start and stop the EMS Extractor program on the main and peripheral nodes, Verify its correct starting in EMS.</p> <p>TEST-1: Start and stop the EMS Extractor</p>

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 BBE501, in binary mode.
- Macro INSE501, 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 INSE501 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 INSE501
```

```
ETINET QATEST 7>RUN INSE5TXX
Searching for latest PAK file $*.*.BBE501*
press Break key to stop ...
... found $ETINET.BPAKTMPE.BBE501 (2025-SEP-3 21:5)
... found $ETINET.BPAKTMPE.BBE501A (2025-JUN-16 17:19)
... found $ETINET.BPAKTMPE.BBE501B (2025-JUN-10 21:33)
... found $ETINET.BPAKTMPE.BBE501C (2025-JUL-2 20:53)

----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file ..... : $ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol ..... : $ETINET.QATEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $S.#BBOX
6. TCPIP process name ..... : $ZTCO
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) :\$QE501

----- Installation of BackBox E5.01 NSK components -----

- 1. Input PAK file : \$ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
- 2. Target subvol : \$ETINET.QATEST
- 3. Install All or Peripheral node: All
- 4. Initial installation or Update: Initial
- 5. Spooler location : \$S.#BBOX
- 6. TCPIP process name : \$ZTC0
- 31. EMS Extractor (BBEXT) process : \$QE501
- 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): 192.168.20.245

----- Installation of BackBox E5.01 NSK components -----

- 1. Input PAK file : \$ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
- 2. Target subvol : \$ETINET.QATEST
- 3. Install All or Peripheral node: All
- 4. Initial installation or Update: Initial
- 5. Spooler location : \$S.#BBOX
- 6. TCPIP process name : \$ZTC0
- 31. EMS Extractor (BBEXT) process : \$QE501
- 33. Domain manager TCPIP address. : 192.168.20.245
- 34. Domain manager TCPIP port.... : 4561

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

Domain manager TCPIP process port : 4668

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 TA CL 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

```
$ETINET QATEST 7>RUN INSE5TXT
Searching for latest PAK file $*.*.BBE501*
press Break key to stop ...
... found $ETINET.BPAKTMPE.BBE501 (2025-SEP-3 21:5)
... found $ETINET.BPAKTMPE.BBE501A (2025-JUN-16 17:19)
... found $ETINET.BPAKTMPE.BBE501B (2025-JUN-10 21:33)
... found $ETINET.BPAKTMPE.BBE501C (2025-JUL-2 20:53)

----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file ..... : $ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol ..... : $ETINET.QATEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $S.#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) :\$QE501

```
----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file ..... : $ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol ..... : $ETINET.QATEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $S.#BBOX
6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $QE501
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): 192.168.20.245

```
----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file ..... : $ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol ..... : $ETINET.QATEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $S.#BBOX
6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $QE501
33. Domain manager TCPIP address. : 192.168.20.245
34. Domain manager TCPIP port.... : 4561
```

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

Domain manager TCPIP process port : 4668

```
----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file ..... : $ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol ..... : $ETINET.QATEST
3. Install All or Peripheral node: All
4. Initial installation or Update: Initial
5. Spooler location ..... : $S.#BBOX
6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $QE501
33. Domain manager TCPIP address. : 192.168.20.245
34. Domain manager TCPIP port.... : 4668
```

(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 - T1255L01 - (2023-06-07)

Archive version: 1

File Mode RESTORE Program - T9074L01 (01AUG2024) (AHK)

(C) Copyright 2015 Hewlett Packard Enterprise Development LP

Drives: (\INSIDX.\$Z4L7)

System: \INSIDX Operating System: L06 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: 6Oct2025 19:40 Backup time: 3Sep2025 21:05 Page: 1

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl
---------	------	-----	------------	-------	------	------	-----	----

\$ETINET.QATEST

MACROS	101	128756	8May2025 16:53	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/ \$ETINET.BPAKTMPE.BBE501, (\$*.BBE501.*, \$*.BBE501X.*),
MAP NAMES \$*.* TO \$ETINET.QATEST.*, MYID,OPEN,LISTALL,AUDITED

UNPAK - File decompression program - T1255L01 - (2023-06-07)

Archive version: 1

File Mode RESTORE Program - T9074L01 (01AUG2024) (AHK)

(C) Copyright 2015 Hewlett Packard Enterprise Development LP

Drives: (\INSIDX.\$Z4L8)

System: \INSIDX Operating System: L06 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: 6Oct2025 19:40 Backup time: 3Sep2025 21:05 Page: 1

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl
---------	------	-----	------------	-------	------	------	-----	----

\$ETINET.QATEST

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			
BBS SETUP	101	2922	16Sep2024 15:05	255,101	NNNN			
BBSVCFG	101	2088	16Sep2024 15:05	255,101	NNNN			
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			
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	128756	8May2025 16:53	255,101	NNNN			
NSKCR T		1316	16Sep2024 15:05	255,101	NNNN			
NSKDER		1773	16Sep2024 15:05	255,101	NNNN			
OBB004	101	2580	16Sep2024 15:05	255,101	NNNN			
OBB004B	101	4198	16Sep2024 15:05	255,101	NNNN			
OBB005	101	1536	16Sep2024 15:05	255,101	NNNN			
OBB011	101	722	16Sep2024 15:05	255,101	NNNN			
OBB012	101	736	16Sep2024 15:05	255,101	NNNN			
OBB017	101	2306	16Sep2024 15:05	255,101	NNNN			
OBB018	101	6858	16Sep2024 15:05	255,101	NNNN			
OBB019	101	7248	16Sep2024 15:05	255,101	NNNN			
OBB021	101	7144	16Sep2024 15:05	255,101	NNNN			
OBB025	101	6858	16Sep2024 15:05	255,101	NNNN			
OBB038	101	744	16Sep2024 15:05	255,101	NNNN			
OBB039	101	6858	16Sep2024 15:05	255,101	NNNN			
OBB055	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			

OEMSFILT	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			
SCFIN1	101	612	16Sep2024	15:05	255,101	NNNN			
SCFIN2	101	2294	16Sep2024	15:05	255,101	NNNN			

Restore time: 6Oct2025 19:40 Backup time: 3Sep2025 21:05 Page: 2

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl	
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				
VOLEXT		0	16Sep2024 15:05	255,101	NNNN	E	932	4	
VOLUME	*WARNING-7011*	File is audited.							
VOLUME	A	0	16Sep2024 15:05	255,101	NNNN	K	4056	4	
VOLUME0	*WARNING-7011*	File is audited.							
VOLUME0	A	0	16Sep2024 15:05	255,101	NNNN	K	46	4	
VTCCRT		1316	16Sep2024 15:05	255,101	NNNN				
BB010	500	1738648	3Sep2025 20:21	255,101	NNNN				
BB030	500	115536	3Sep2025 20:21	255,101	NNNN				
BB031	500	4488768	3Sep2025 20:17	255,101	NNNN				
BB033	500	43688	3Sep2025 20:09	255,101	NNNN				
BB034	500	54600	3Sep2025 20:09	255,101	NNNN				
BB037	500	332592	3Sep2025 20:17	255,101	NNNN				
BB042	500	226544	3Sep2025 20:17	255,101	NNNN				
BB043	500	55152	3Sep2025 20:09	255,101	NNNN				
BB044	500	659872	3Sep2025 20:17	255,101	NNNN				
BB045	500	256240	3Sep2025 20:21	255,101	NNNN				
BB053	500	1411640	3Sep2025 20:17	255,101	NNNN				
BB055	500	1736664	3Sep2025 20:16	255,101	NNNN				
BB056	500	1727680	3Sep2025 20:21	255,101	NNNN				
BBCMD	500	1526984	3Sep2025 20:22	255,101	NNNN				
BBCRYPTO	500	35655512	3Sep2025 20:15	255,101	NNNN				
BBDBM	500	5979632	3Sep2025 20:16	255,101	NNNN				
BBDELVOL	500	220568	3Sep2025 20:18	255,101	NNNN				
BBEXT	500	2294240	3Sep2025 20:20	255,101	NNNN				
BBFIXVOL	500	221208	3Sep2025 20:22	255,101	NNNN				
BBLIB	500	4638872	3Sep2025 20:16	255,101	NNNN				
BBMERCAT	500	231896	3Sep2025 20:18	255,101	NNNN				
BBPSCODE	500	1399704	3Sep2025 20:22	255,101	NNNN				
BBSSL	500	6126384	3Sep2025 20:15	255,101	NNNN				
BBSV	500	5954768	3Sep2025 20:20	255,101	NNNN				
BBULIST	500	101480	3Sep2025 20:21	255,101	NNNN				
BBVERCER	500	52520	3Sep2025 20:10	255,101	NNNN				
TAPERD	500	103784	3Sep2025 20:18	255,101	NNNN				
TAPEWR	500	250888	3Sep2025 20:22	255,101	NNNN				
TRCLIST	500	110744	3Sep2025 20:22	255,101	NNNN				

Summary Information

Disk related warnings = 2 Disk related errors = 0
Files restored = 82 Files not restored = 0

FUP SECURE \$ETINET.QATEST.BBSV,CCCC,PROGID

FUP SECURE \$ETINET.QATEST.EMSFILT*, NNNN
FUP SECURE \$ETINET.QATEST.OPER, NCNC
FUP SECURE \$ETINET.QATEST.VOLUME*, NCNC

Editing OEMS2...
Editing OBWIN1...
Editing ORWIN1...
Editing OBB018...
Editing OBB019...
Editing OBB021...
Editing OBB025...
OBB032 is missing ...
Editing OBB039...
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing OBB055 ...
Editing OEXT...
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing SCFIN1 ...

```
FUP SECURE $ETINET.QATEST.BBEXT,NCNC,PROGID
Editing BBSETUP...
Editing OBB017...
Editing OEMS...
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing SSLCFG ...
```

Loaded from \$ETINET.QATEST.BBSETUP:

```
BBSV_ADDR      BBSV_PORT      BBSV_TCPIP      VTC_OBJECT      EZX_MAXRETRY
EZX_RETRYDELAY EZX_TIMEOUT
```

Loaded from \$ETINET.QATEST.MACROS:

```
BB_BBOX_PGM_VERSION      BB_041_TIMEOUT
BB_041_DEVICE            BB_041_LABELS
BB_041_PROCESS           BB_VALID_HMMSS
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 $ETINET.QATEST,
-----> from $ETINET.BPAKTMPE.BBE501.
-----> Please verify if any error message was issued above.
Create initial USER Profile List used for BackBox Access Control
Userlist =\INSIDX.$ETINET.QATEST.USERRLIST, user =SUPER.ETINET
```

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 INSE501 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.INSE501
----- Installation of BackBox E5.01 NSK components -----

 1. Input PAK file ..... : $ETINET.BPAKTMPE.BBE501      (SEP-3 21:5)
 2. Target subvol ..... : $ETINET.QATEST
 3. Install All or Peripheral node: All
 4. Initial installation or Update: Initial
 5. Spooler location ..... : $S.#BBOX
 6. TCPIP process name ..... : $ZTC0
31. EMS Extractor (BBEXT) process : $BBEXT
32. Domain subvol ..... : \INSIDX.$ETINET.QATEST

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

EMS Extractor (BBEXT) process name ($BBEXT) :$QE501
```

Execution sample

```
$ETINET QATEST 7>RUN INSE5TXT
Searching for latest PAK file $*.*.BBE501*
press Break key to stop ...
```

... found \$ETINET.BPAKTMPE.BBE501 (2025-SEP-3 21:5)
... found \$ETINET.BPAKTMPE.BBE501A (2025-JUN-16 17:19)
... found \$ETINET.BPAKTMPE.BBE501B (2025-JUN-10 21:33)
... found \$ETINET.BPAKTMPE.BBE501C (2025-JUL-2 20:53)

----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file : \$ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol : \$ETINET.QATEST
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) :\$QE501

----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file : \$ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol : \$ETINET.QATEST
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 : \$QE501
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): 192.168.20.245

----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file : \$ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol : \$ETINET.QATEST
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 : \$QE501
33. Domain manager TCPIP address. : 192.168.20.245
34. Domain manager TCPIP port.... : 4561

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

Domain manager TCPIP process port : 4668

----- Installation of BackBox E5.01 NSK components -----

1. Input PAK file : \$ETINET.BPAKTMPE.BBE501 (SEP-3 21:5)
2. Target subvol : \$ETINET.QATEST
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 : \$QE501
33. Domain manager TCPIP address. : 192.168.20.245
34. Domain manager TCPIP port.... : 4668

(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 - T1255L01 - (2023-06-07)

Archive version: 1

File Mode RESTORE Program - T9074L01 (01AUG2024) (AHK)

(C) Copyright 2015 Hewlett Packard Enterprise Development LP

Drives: (\INSIDX.\$Z4L7)

System: \INSIDX Operating System: L06 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: 6Oct2025 19:40 Backup time: 3Sep2025 21:05 Page: 1

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl
\$ETINET.QATEST								
	MACROS	101	128756	8May2025	16:53	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/ \$ETINET.BPAKTMP.E.BBE501, (\$*.BBE501.*, \$*.BBE501X.*),
 MAP NAMES \$*.* TO \$ETINET.QATEST.*, MYID,OPEN,LISTALL,AUDITED
 UNPAK - File decompression program - T1255L01 - (2023-06-07)

Archive version: 1
 File Mode RESTORE Program - T9074L01 (01AUG2024) (AHK)
 (C) Copyright 2015 Hewlett Packard Enterprise Development LP
 Drives: (\INSIDX.\$Z4L8)

System: \INSIDX Operating System: L06 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: 6Oct2025 19:40 Backup time: 3Sep2025 21:05 Page: 1

Tape: 1	Code	EOF	Last modif	Owner	RWEP	Type	Rec	Bl
\$ETINET.QATEST								
	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	
	BBSETUP	101	2922	16Sep2024	15:05	255,101	NNNN	
	BBSVCFG	101	2088	16Sep2024	15:05	255,101	NNNN	
	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	
	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	128756	8May2025	16:53	255,101	NNNN	
	NSKCR		1316	16Sep2024	15:05	255,101	NNNN	
	NSKDER		1773	16Sep2024	15:05	255,101	NNNN	
	OBB004	101	2580	16Sep2024	15:05	255,101	NNNN	
	OBB004B	101	4198	16Sep2024	15:05	255,101	NNNN	
	OBB005	101	1536	16Sep2024	15:05	255,101	NNNN	
	OBB011	101	722	16Sep2024	15:05	255,101	NNNN	
	OBB012	101	736	16Sep2024	15:05	255,101	NNNN	
	OBB017	101	2306	16Sep2024	15:05	255,101	NNNN	
	OBB018	101	6858	16Sep2024	15:05	255,101	NNNN	
	OBB019	101	7248	16Sep2024	15:05	255,101	NNNN	
	OBB021	101	7144	16Sep2024	15:05	255,101	NNNN	
	OBB025	101	6858	16Sep2024	15:05	255,101	NNNN	
	OBB038	101	744	16Sep2024	15:05	255,101	NNNN	
	OBB039	101	6858	16Sep2024	15:05	255,101	NNNN	
	OBB055	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	
	OEMSFILT	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
SCFIN1	101	612	16Sep2024	15:05	255,101	NNNN
SCFIN2	101	2294	16Sep2024	15:05	255,101	NNNN

Restore time: 6Oct2025 19:40 Backup time: 3Sep2025 21:05 Page: 2

Tape: 1	Code	EOF	Last	modif	Owner	RWEP	Type	Rec	Bl
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			
VOLEXT		0	16Sep2024	15:05	255,101	NNNN	E	932	4
VOLUME	*WARNING-7011*	File is audited.							
VOLUME	A	0	16Sep2024	15:05	255,101	NNNN	K	4056	4
VOLUME0	*WARNING-7011*	File is audited.							
VOLUME0	A	0	16Sep2024	15:05	255,101	NNNN	K	46	4
VTCCRT		1316	16Sep2024	15:05	255,101	NNNN			
BB010	500	1738648	3Sep2025	20:21	255,101	NNNN			
BB030	500	115536	3Sep2025	20:21	255,101	NNNN			
BB031	500	4488768	3Sep2025	20:17	255,101	NNNN			
BB033	500	43688	3Sep2025	20:09	255,101	NNNN			
BB034	500	54600	3Sep2025	20:09	255,101	NNNN			
BB037	500	332592	3Sep2025	20:17	255,101	NNNN			
BB042	500	226544	3Sep2025	20:17	255,101	NNNN			
BB043	500	55152	3Sep2025	20:09	255,101	NNNN			
BB044	500	659872	3Sep2025	20:17	255,101	NNNN			
BB045	500	256240	3Sep2025	20:21	255,101	NNNN			
BB053	500	1411640	3Sep2025	20:17	255,101	NNNN			
BB055	500	1736664	3Sep2025	20:16	255,101	NNNN			
BB056	500	1727680	3Sep2025	20:21	255,101	NNNN			
BBCMD	500	1526984	3Sep2025	20:22	255,101	NNNN			
BBCRYPTO	500	3565512	3Sep2025	20:15	255,101	NNNN			
BBDBM	500	5979632	3Sep2025	20:16	255,101	NNNN			
BBDELVOL	500	220568	3Sep2025	20:18	255,101	NNNN			
BBEXT	500	2294240	3Sep2025	20:20	255,101	NNNN			
BBFIXVOL	500	221208	3Sep2025	20:22	255,101	NNNN			
BBLIB	500	4638872	3Sep2025	20:16	255,101	NNNN			
BBMERCAT	500	231896	3Sep2025	20:18	255,101	NNNN			
BBPCODE	500	1399704	3Sep2025	20:22	255,101	NNNN			
BBSSL	500	6126384	3Sep2025	20:15	255,101	NNNN			
BBSV	500	5954768	3Sep2025	20:20	255,101	NNNN			
BBULIST	500	101480	3Sep2025	20:21	255,101	NNNN			
BBVERCER	500	52520	3Sep2025	20:10	255,101	NNNN			
TAPERD	500	103784	3Sep2025	20:18	255,101	NNNN			
TAPEWR	500	250888	3Sep2025	20:22	255,101	NNNN			
TRCLIST	500	110744	3Sep2025	20:22	255,101	NNNN			

Summary Information

Disk related warnings = 2 Disk related errors = 0
Files restored = 82 Files not restored = 0

FUP SECURE \$ETINET.QATEST.BBSV,CCCC,PROGID

FUP SECURE \$ETINET.QATEST.EMSFILT*, NNNN
FUP SECURE \$ETINET.QATEST.OPER, NCNC
FUP SECURE \$ETINET.QATEST.VOLUME*, NCNC

Editing OEMS2...
Editing OBWIN1...
Editing ORWIN1...
Editing OBB018...
Editing OBB019...
Editing OBB021...
Editing OBB025...
OBB032 is missing ...
Editing OBB039...

```
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing OBB055 ...
Editing OEXT...
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing SCFIN1 ...
```

```
FUP SECURE $ETINET.QATEST.BBEXT,NCNC,PROGID
Editing BBSETUP...
Editing OBB017...
Editing OEMS...
Editing in CUSTOMIZE_EXPAND_OBFILE ROUTINE
Editing SSLCFG ...
```

Loaded from \$ETINET.QATEST.BBSETUP:

```
BBSV_ADDR      BBSV_PORT      BBSV_TCPIP      VTC_OBJECT      EZX_MAXRETRY
EZX_RETRYDELAY EZX_TIMEOUT
```

Loaded from \$ETINET.QATEST.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 $ETINET.QATEST,
-----> from $ETINET.BPAKTMPE.BBE501.
-----> Please verify if any error message was issued above.
Create initial USER Profile List used for BackBox Access Control
Userlist =\INSIDX.$ETINET.QATEST.USERLIST, user =SUPER.ETINET
```

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:

13517 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 Extractor abend at startup" in the [BACKBOX Troubleshooting and Messages Manual](#).

Appendix – NonStop Files in BackBox Package

NonStop File Identifier	Code	Description
BBREST	101 - OBEY file	Sample Obey file for Restore. It prompts for parameters to generate the MEDIACOM commands INFO DISKFILE and RECOVER DISKFILE. Only backups executed with the CATALOGFILES option can be restored by BBREST.
BBSETUP	101 - editable file	TACL macros customization
BBSVCFG	101 - editable file	Startup Domain configuration
EMSFILT1	101 - editable file	Source EMS filter used by BBEXT
EMSFILT2	845 - filter file	Object EMS filter used by OEMS
EMSFUPIN	101 - editable file	Input file used in obey file to create
MACROS	101 - editable file	BackBox Domain Macros
EMSOUT		Output of the Obey file OEMS
JOBSTAT		BackBox jobs Status file
JOBSTAT0		BackBox jobs Status file (AltKey file)
NSKCRT		Demo NSK SSL certificate
NSKDER		Demo NSK SEVER SSL certificate
OBB004	101 - OBEY file	Sample Obey file to update a DataStore password
OBB004B	101 - OBEY file	Sample Obey file to validate the account of a DataStore
OBB005	101 - OBEY file	Sample Obey file for Volume migration
OBB011	101 - OBEY file	Sample Obey file for list BackBox Catalog. It lists the virtual volumes stored in Data Stores of Windows files, sorted by Windows disk path
OBB012	101 - OBEY file	Sample Obey file for list BackBox Catalog. It lists the virtual volumes registered in the BackBox catalog
OBB017	101 - OBEY file	Sample Obey file for cleanup.
OBB018	101 - OBEY file	Sample Obey file for report. It lists the VTC activity-related info
OBB019	101 - OBEY file	Sample Obey file for report. It lists script activities related to Script Controller
OBB021	101 - OBEY file	Sample Obey file for report. It lists the tape emulation activity only
OBB025	101 - OBEY file	Sample Obey file for report
OBB038	101 - OBEY file	Sample Obey file for report. It lists the Encrypted volumes whose label matches an entered volume label pattern
OBB039	101 - OBEY file	Sample Obey file for report. It lists the virtualizations, i.e. copies of physical volumes to BackBox virtual volumes and materializations, i.e. the copy of virtual volumes to physical volumes.
OBB055	101 - OBEY file	Sample Obey file for Nonstop virtualization. OBEY command creates a clone copy of a physical tape or of any non-BackBox virtual tape to a BackBox virtual tape.
OBWIN1	101 - OBEY file	Sample Obey file for Backup. Obey file to execute a test backup on a WINDISK Data Store
OEMS	101 - OBEY file	Sample Obey file for collecting EMS message. Obey file to extract to a file the EMS events related to tapes
OEMS2	101 - OBEY file	Sample Obey file for listing EMS messages.
OEMSFILT	845 - filter file	EMS filter used in obey file OEMS
OEXT	101 - OBEY file	Obey file to start BackBox extractor
OPER		BackBox domain uses this file to store the latest operations on the domain such as LOAD, EXPORT,...
ORWIN1	101 - OBEY file	Sample Obey file for Restore
SCFIN1	101 - OBEY file	Sample file to create permanent Extractor process on the system
SCFIN2	101 - OBEY file	Sample file to add tape devices connected by SCSI PMF controller

SCFIN5	101 - OBEY file	Sample file to add tape devices connected by FCSA controller
SCFIN6	101 - OBEY file	Sample SCF commands to add tapes connected by CLIM
SSLCFG	101 - editable file	BackBox SSL configuration file
STATE		File that stores encrypted TSM password(s)
STATS		File that stores the backup restore statistics info
USERLIST		Encrypted user access list accessed by UI
VOLEXT		Temporary extracted volume list file
VOLUME		BackBox tape volume Catalog
VOLUME0		BackBox tape volume Catalog (altKey file)
VTCCRT		Demo VTC SSL certificate
EMSFUPIN		Input file used in obey file to create EMSOUT
EMSOUT		Output of the Obey file OEMS