



IP-SAN LAN Driver Installation Guide

1. Preface

This installation guide explains how to install of LAN Driver/BACS(LAN Driver Utility) that are required to set up a system of iSCSI boot.

1.1. Target

This installation guide is Scope of Application as follows.

<Target Server>

Express5800/B110d, B120d, B120d-h

Express5800/B120e, B120e-h

<Target LAN boards>

- N8403-064/064F (Standard network adapter)
- N8403-067/067F (Optional LAN boards)

<The target software>

Abbreviated designation	Software Production Name
Windows Server 2008 (32Bit)	Microsoft® Windows Server® 2008 Standard (32Bit) Microsoft® Windows Server® 2008 Enterprise (32Bit)
Windows Server 2008 (64Bit)	Microsoft® Windows Server® 2008 Standard (64Bit) Microsoft® Windows Server® 2008 Enterprise (64Bit)
Windows Server 2008 R2	Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows Server® 2008 R2 Enterprise
Windows Server 2012	Microsoft® Windows Server® 2012 Standard Microsoft® Windows Server® 2012 Datacenter

1.2. Registration Trademark

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* In addition, TM and a R mark are not specified in the text.

1.3. Installation preparation

The following indicates the possible installation method.

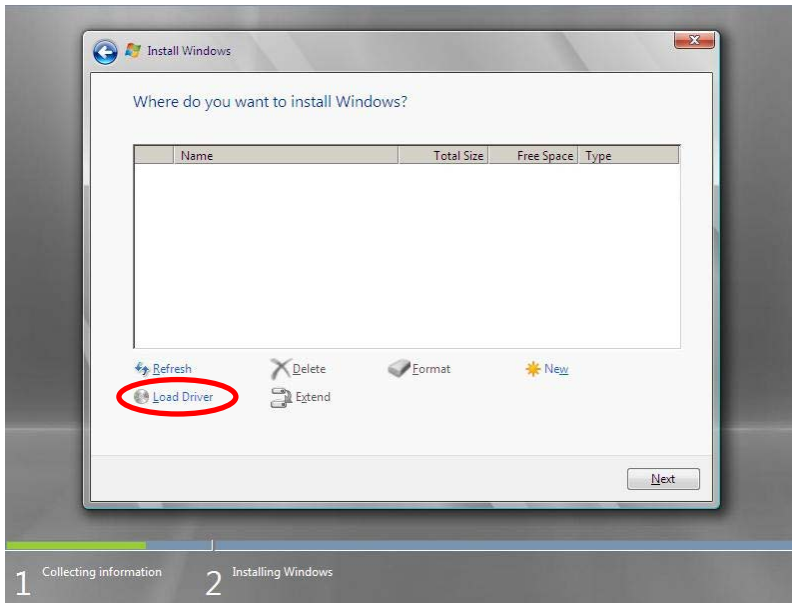
- * : EXPRESSBUILDER is used for setup / windows standard installer is used for setup
- : Windows standard installer is used for setup
- : Not support

Server	LAN boards	Windows Server 2008 (32Bit)	Windows Server 2008 (64Bit)	Windows Server 2008 R2	Windows Server 2012
Express5800/ B110d, B120d, B120d-h	N8403-064/064F	*	*	*	-
	N8403-067/067F	-	●	●	-
Express5800/ B120e, B120e-h	N8403-064/064F	●	●	●	●
	N8403-067/067F	-	●	●	●

2. Install Driver

2.1. LAN driver loading procedure at the time of OS installation

1. Click to [Load Driver] in OS installation screen.



2. Click to [Browse].
3. Remove **OS installation media** and then insert the **EXPRESSBUILDER DVD**.
4. Specify the following locations, and then click to [OK].

Express5800/B110d, B120d, B120d-h

- **Windows Server 2008 (32Bit):**
 - **\005\win\winnt\loemfd\ws2008\levbd**
- **Windows Server 2008 (64Bit):**
 - **\005\win\winnt\loemfd\ws2008x64\levbd**
- **Windows Server 2008 R2:**
 - **\005\win\winnt\loemfd\ws2008r2\levbd**

Express5800/B120e

- Windows Server 2008 (32Bit):
 - \002\win\winnt\ws2008\lan\bcom\ws2008x86\lan\bcom\iscsiboot\07040403levbd
- Windows Server 2008 (64Bit):
 - \002\win\winnt\ws2008x64\r1\lan\bcom\ws2008x64\lan\bcom\iscsiboot\07040403levbd
- Windows Server 2008 R2:
 - \002\win\winnt\ws2008x64\r2\lan\bcom\ws2008_r2\lan\bcom\iscsiboot\07040403levbd
- Windows Server 2012:
 - \002\win\winnt\ws2012\lan\bcom\ws2012x64\lan\bcom\drvinst\07040403\windows_64levbd

Express5800/B120e-h

- Windows Server 2008 (32Bit):
 - \001\win\winnt\ws2008\lan\bcom\ws2008x86\lan\bcom\iscsiboot\07040403levbd
- Windows Server 2008 (64Bit):
 - \001\win\winnt\ws2008x64\r1\lan\bcom\ws2008x64\lan\bcom\iscsiboot\07040403levbd
- Windows Server 2008 R2:
 - \001\win\winnt\ws2008x64\r2\lan\bcom\ws2008_r2\lan\bcom\iscsiboot\07040403levbd
- Windows Server 2012:
 - \001\win\winnt\ws2012\lan\bcom\ws2012x64\lan\bcom\drvinst\07040403\windows_64levbd

5. Select the following device and then click [Next].

Broadcom BCM57810 NetXtreme II 10 GigE Multi Function



If install Windows Server 2012 to Express5800/B120e, B120e-h, go to step 8.

6. Run to step1, 2 again, specify the following locations, and then click to [OK].

Express5800/B110d, B120d, B120d-h

- **Windows Server 2008 (32Bit):**
 - \005\win\winnt\loemfd\ws2008\ois
- **Windows Server 2008 (64Bit):**
 - \005\win\winnt\loemfd\ws2008x64\ois
- **Windows Server 2008 R2:**
 - \005\win\winnt\loemfd\ws2008r2\ois

Express5800/B120e

- **Windows Server 2008 (32Bit):**
 - \002\win\winnt\ws2008\lan\bcom\ws2008x86\lan\bcom\iscsiboot\07040403\ois
- **Windows Server 2008 (64Bit):**
 - \002\win\winnt\ws2008x64\r1\lan\bcom\ws2008x64\lan\bcom\iscsiboot\07040403\ois
- **Windows Server 2008 R2:**
 - \002\win\winnt\ws2008x64\r2\lan\bcom\ws2008_r2\lan\bcom\iscsiboot\07040403\ois

Express5800/B120e-h

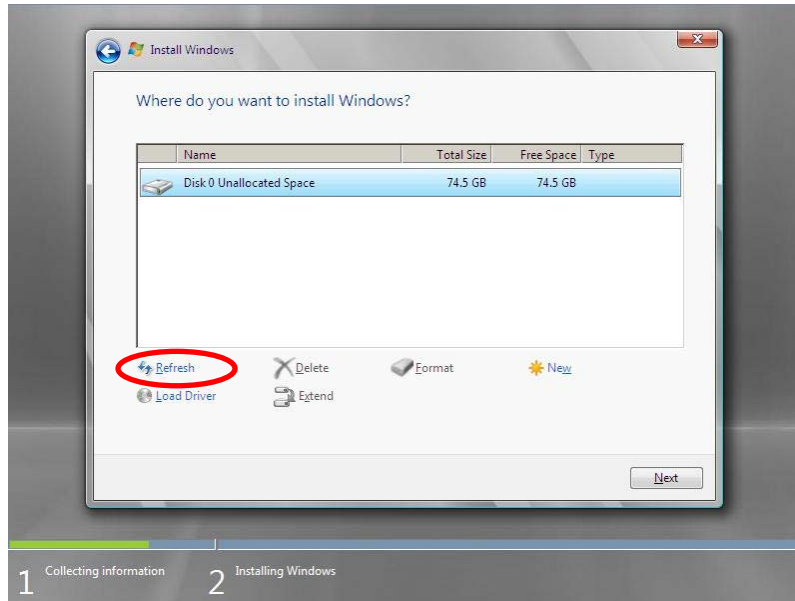
- **Windows Server 2008 (32Bit):**
 - \001\win\winnt\ws2008\lan\bcom\ws2008x86\lan\bcom\iscsiboot\07040403\ois
- **Windows Server 2008 (64Bit):**
 - \001\win\winnt\ws2008x64\r1\lan\bcom\ws2008x64\lan\bcom\iscsiboot\07040403\ois
- **Windows Server 2008 R2:**
 - \001\win\winnt\ws2008x64\r2\lan\bcom\ws2008_r2\lan\bcom\iscsiboot\07040403\ois

7. Select the following device and then click [Next].

Broadcom BCM57810 NetXtreme II 10 GigE iSCSI Adapter

8. Make sure that server is aware of the target disk.

If target disk is not display, click to [Refresh].

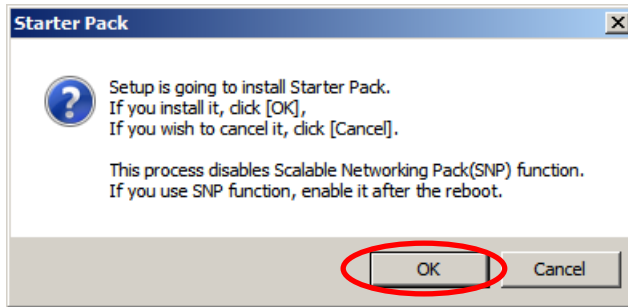


9. Remove EXPRESSBUILDER DVD and then insert the OS installation media, continue with the OS installation.

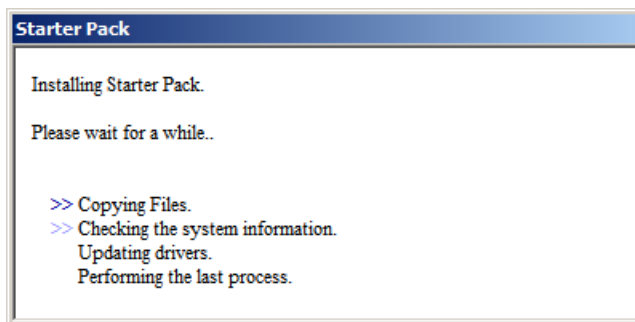
2.2. OS Post-installation step

Install Starter Pack by following step.

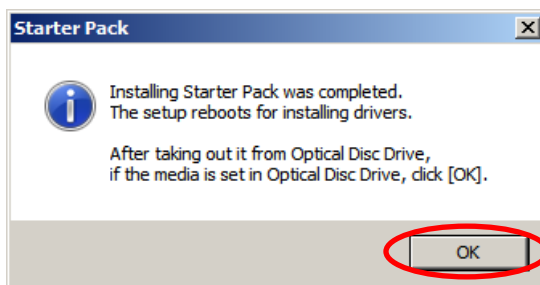
1. Insert EXPRESSBUILDER DVD into the optical disk drive, and installing Starter Pack.
2. Click to [OK].



3. State of progress of Starter Pack appears.



4. Click OK to restart the system.



3. Confirmation of driver version

Check the LAN driver and BACS version by the procedure below.



To change the LAN driver and BACS settings, log on to the system from a local console using an administrator's account. Remotely changing the settings by using the operating system's remote desktop feature is not supported.

1. Open the [Device Manager].
2. Expand [System Device]/[Network Adapters]/[Controller], double-click to [Broadcom BCM57810 xxx] of under each device, appears property.
3. Select to [Driver] tab, make sure that it is a driver version of the following.

Express5800/B110d, B120d, B120d-h

[System Device] - [Broadcom BCM57810 xxx]	: 7.0.45.0
[Network Adapters]-[Broadcom BCM57810 xxx]	: 7.0.11.0
[Controller]-[Broadcom BCM57810 xxx]	: 7.0.13.0

Express5800/B120e, B120e-h

[System Device] - [Broadcom BCM57810 xxx]	: 7.4.33.0
[Network Adapters]-[Broadcom BCM57810 xxx]	: 7.4.23.0
[Controller]-[Broadcom BCM57810 xxx]	: 7.4.4.0

4. Open the [Control Panel], double-click to [Broadcom Control Suite], appears [Broacom Advanced Control Suite].
5. Select to [Help], Click to About], make sure that it is a BACS version of the following.

Express5800/B110d, B120d, B120d-h

[BACS] : 15.0.30.0

Express5800/B120e, B120e-h

[BACS] : 15.5.7.0

4. Note



When want to boot with iSCSI port other than the one used to during Windows Server 2008 R2 installation, it will be necessary to install the KB976042.

<http://support.microsoft.com/kb/976042>



LAN controller that are used in iSCSI boot cannot teaming.



- Setting procedure of teaming by LAN controller other than the one that are using in the iSCSI boot, Refer to [Installation Guide (Windows)] in the EXPRESSBUILDER DVD.
- Teaming by LBFO, refer to [NIC Teaming (LBFO) Setup Guide] in the following page.

<http://www.58support.nec.co.jp/global/download/w2012/index.html>

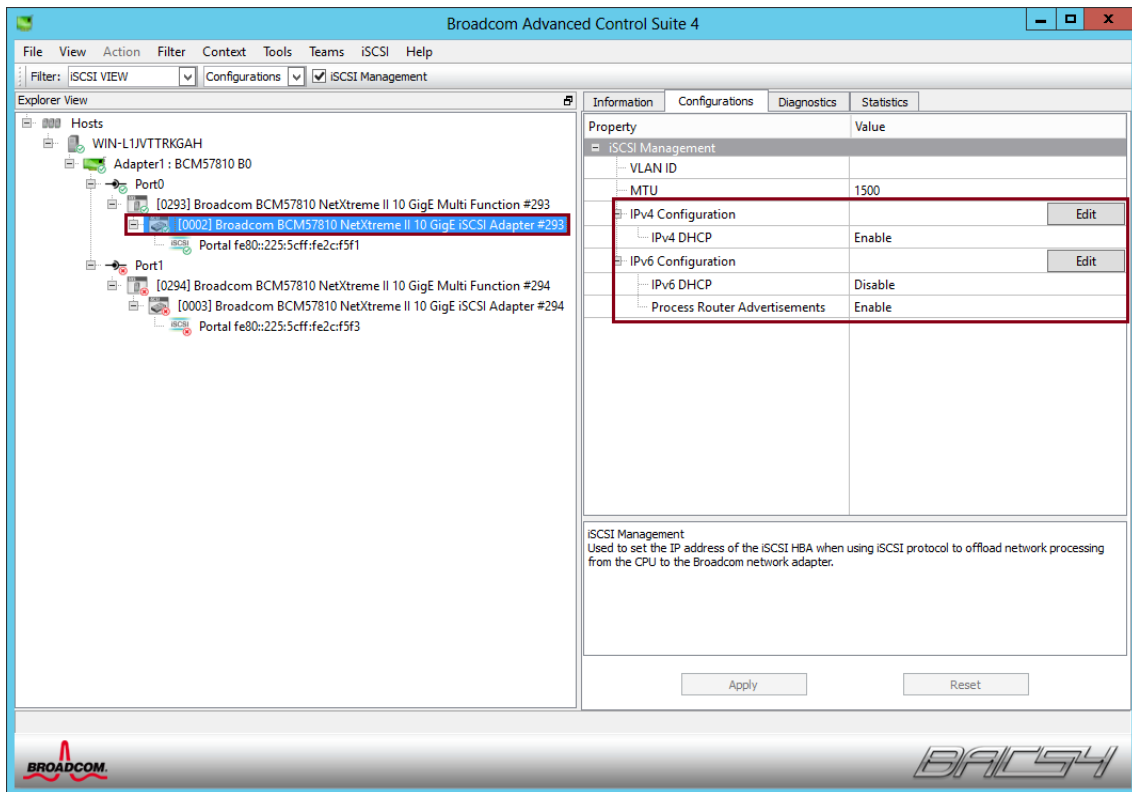


If using iStorage E1, it is supporting crash dump at the time active for iSCSI boot path.

5. About iSCSI controller

iSCSI controller is the point where you are enclosed in red below.

[BACS]



[Device Manager]

