LAN Driver Installation Guide (Broadcom v20.8)

> January 2018 808-882328-324-A

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1. Preface

Thank you very much for purchasing our product. This installation guide explains how to set up the LAN Drivers.

Note

The images shown in this Installation Guide could be different depending on the system.

1.1. The target server

Refer to the URL below and check the target server.

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

- -> Click model name(product name).
 - -> Click "NEC Express5800/D120h LAN Driver Module(V20.8)" in "Other update".

1.2. Target software

Abbreviated designation	Software Production Name
Windows Server 2016	Microsoft® Windows Server® 2016 Standard Microsoft® Windows Server® 2016 Datacenter
Windows Server 2012 R2	Microsoft® Windows Server® 2012 R2 Standard Microsoft® Windows Server® 2012 R2 Datacenter

*1 Above information is based on 2018/01 Refer the Server Configuration Guide for the latest information. The latest drivers, published on our NEC Express5800 Support Website.

*2 Refer to the Server Configuration Guide for correspondence Option LAN Board.

1.3. Target Driver Version

The target version is v17.2.0.2/v17.4.0.1. If your version is v20.8.0.0 and above, no driver update is required. Refer to [3.2 Confirmation of LAN driver version] for the method of checking driver version.

Software Production Name	Target driver version (b57nd60a.sys)	After update version (b57nd60a.sys)
Windows Server 2016	17.4.0.1	20.8.0.0
Windows Server 2012 R2	17.2.0.2	20.8.0.0

1.4. Registration Trademark

Microsoft, Windows, Windows Server, Hyper-V are registered trademark or trademarks of the Microsoft in the U.S. and other countries. © 2000-2018 Broadcom. All Rights Reserved. The term "Broadcom" refers to Broadcom Limited and/or its subsidiaries. EXPRESSCLUSTER is registered trademark of the NEC Corporation. In addition, TM and a R mark are not specified in the test.

2. Workflow LAN driver update process



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3. Preparation

Sign in the system from local console by administrator account for executing the operation below.
 If using Hyper-V and not using WSFC or EXPRESSCLUSTER, shutdown all the Guest OS and release the setting of auto boot up before the LAN driver update.
 If Physical network adapter or teaming adapter is bound into Hyper-V virtual switch, remove the binding before [3.6 Delete the team].

3.1. Workflow preparation process



3.2. Confirmation of LAN driver version

Check the driver version by the procedure below. When the version is equal or newer than the following version, installation is not necessary.

1. Open the **Device manager** icon on the Control Panel window.



2. Double-click the Broadcom NetXtreme Gigabit Ethernet icon on the Device manager.

Device Manager	~
Eile Action View Help	
⊿ 🚔 WIN-SJ273VILEP1	^
▶ 📮 Computer	
Disk drives	
b Signal bisplay adapters	
DVD/CD-ROM drives	
▶ Um Human Interface Devices	
DE ATA/ATAPI controllers	
b — Keyboards	
Mice and other pointing devices	
b Monitors	
▲ ♥ Network adapters	
💇 Broadcom NetXtreme Gigabit Ethernet	
Broadcom NetXtreme Gigabit Ethernet #2	=
Broadcom NetXtreme Gigabit Ethernet #3	
Broadcom NetXtreme Gigabit Ethernet #4	
Broadcom NetXtreme Gigabit Ethernet #5	
₩ Broadcom NetXtreme Gigabit Ethernet #6	
Broadcom NetXtreme Gigabit Ethernet #7	
Broadcom NetXtreme Gigabit Ethernet #8	
Broadcom NetXtreme Gigabit Ethernet #9	
Ports (COM & LPT)	
>	
b Schere de la serie de la	
P system devices	~
K = DRUPEAR SPEAR NEXT DURINGES	

3. Click the Driver Details on the Driver tab.



4. Confirm the File version.

If the version is 20.8.0.0, no need to update the driver. Otherwise, update it.

Driver File Details	Driver File Details ×
Broadcom NetXtreme Gigabit Ethernet	Broadcom NetXtreme Gigabit Ethernet
Driver files:	Driver files:
C:\Windows\system32\DRIVERS\b57nd60a.sys	C:\Windows\system32\DRIVERS\b57nd60a.sys
Provider: Broadcom Corporation File version: 17.2.0.2 Copyright: Copyright 2000-2015, Broadcom Corporation. Digital Signer: Microsoft Windows Hardware Compatibility	Provider: Broadcom Limited File version: 17.4.0.1 Copyright: Copyright 2000-2016, Broadcom Limited. Digital Signer: Microsoft Windows Hardware Compatibility
ОК	ОК

Software Production Name	Target driver version (b57nd60a.sys)	After update version (b57nd60a.sys)
Windows Server 2016	17.4.0.1	20.8.0.0
Windows Server 2012 R2	17.2.0.2	20.0.0.0

3.3. Preparation of module

3.3.1. Prepare the update module

- - -> Click "NEC Express5800/D120h LAN Driver Module(V20.8)" in "Other update".
- 2. Create a **temp** folder directly under the system drive. (e.g., **C:\temp**)
- Unzip GVO-034742-G01_xxxxxxxxxxxxxzip, copy the BCOM208 folder in the temp folder. (e.g., C:\temp\BCOM208\)

3.3.2. Prepare the recovery module

Use the setup DVD of EXPRESSBUILDER for recovery. Please prepare it in advance.

3.4. Stop the WSFC node service

- 1. Open the Failover Cluster Manager from Server Manager.
- 2. Move the all resource of target node to another node.
- 3. Select the **Nodes** displayed on the left of Failover Cluster Manager.

灎		Failover Cluster Manager	
File Action View Help			
🗢 🔿 🙍 🖬			
Failover Cluster Manager	Nodes		Actions
Poler	Name	Status	Nodes 🔺
Nodes	WIN-HFO0CFUG1K3	(Up	🚰 Add Node
Storage	WIN-OH6VOSNBA1C	💿 Up	View
Networks Guster Events			Q Refresh
			👔 Help
			WIN-HFO0CFUG1K3
			🔒 Pause 🕨
			🗒 Resume 🕨
			💀 Remote Desktop
			Show Critical Events
			More Actions
			Refresh
			I Help
	WIN-HFO0CFUG1K3		
	Version:	Status:	
	0.2.3200	op	
	Service Pack: No Service Pack Installed		

4. Right click the target **node** for driver update from the node list.

File Action View Help File Action View Help	Actions Nodes
■ Failover Cluster Manager Nodes ■ MSFC.CLASS(cdomain.corr	Actions Nodes Add Node View Refresh I Help WIN-HFOOCFUG1K3
WIN-HFOOCFUG1K3 Version: Status: 6.2 9200 Up Service Pask: No Service Pask Intalled	 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii

5. Select the Stop Cluster Service from More Actions.

- 6. Open the **Services** from Server Manager.
- 7. Right click the **Cluster Service**.

8. Select the **Properties**.

		Servi	ces				-	0	X
File Action View	Help								
Þ 🔿 🗖 💿 🤄	à 🔒 📲 🖬 🕨 🔲 🖬 🕨								
Services (Local)	Services (Local)								
	Cluster Service	Name	Description	Status	Startup Type	Log On As			
	Stop the service Restart the service Description: Enables servers to work together as a cluster to keep serve-based applications highly available, regardless of individual component failures; if this service is stopped, clustering will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.	Application Experience Application Identity Application Information Application Layer Gateway Application Management Background Intelligent Tran Computer Service Computer Browser Corpdom Service Service DEOM Server Process Laun Device Association Service Device Setup Manager Device Setup Manager Diagnostic Policy Service Diagnostic Policy Service Diagnostic Policy Service	Processe a Determines Facilitates t Provides su Processe in Transfers fil Windows in The Base Fil Copies user Findels serve. The CNG kee. Supports Sy Manages th Maintains a Provides sen Provides ten The DCOM Enables a c Enables a c Enables ten The Diagno The Diagno	Running Running Running Running Running Running Running Running Running	Manual (Trig Manual (Trig Manual Manual Manual Automatic Automatic Automatic Manual Automatic Manual Automatic Manual Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Manual (Trig Manual (Trig)	Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Start Stop Pause Resume Restart All Tasks → Refresh Help Local Service Local Service			
		Distributed Link Tracking Cl Distributed Transaction Co	Maintains li Coordinates	Running Running	Automatic Automatic (D.,,	Local Syste Network S			
		ONS Client Encrypting File System (EFS)	The DNS Cli Provides th	Running	Automatic (T Manual (Trig	Network S Local Syste			
	Extended Standard /	C Extensible Authentication P	The Extensi		Manual	Local Syste			

9. Change the **Startup type** on **General** Tab to **Disabled**. Select the **OK**.

Cluster	r Service Properties (Local Computer)
General Log On	Recovery Dependencies
Service name:	ClusSvc
Display name:	Cluster Service
Description:	Enables servers to work together as a cluster to keep server-based applications highly available, v
Path to executabl C:\Windows\Clus	e: ter\clussvc.exe -s
Startup type:	Disabled 🗸 🗸
Help me configure	e service startup options.
Service status:	Running
Start	Stop Pause Resume
You can specify t from here.	he start parameters that apply when you start the service
Start parameters:	
	OK Cancel Apply

3.5. Stop the EXPRESSCLUSTER service

Refer the following website for more information.

http://www.nec.com/en/global/prod/expresscluster/en/support/manuals.html

- -> Reference Guide
 - -> Chapter 10 The system maintenance information
 - -> Replacing the network card

* Perform the procedures prior to the replace of network card. Shut down the system and then start up it again. After that, Go to [3.6 Delete the team].

3.6. Delete the team

Important Please delete the team from [NIC teaming] screen. It cannot be deleted from Device Manager.

- 1. Execute the Sever Manager and select the Local Server.
- 2. Select the **Disabled** or **Enabled** of NIC Teaming.

a	Server Ma	nager			- 🗆 X
E Local Se	erver	• @ 🏲	<u>M</u> anage	<u>T</u> ools	<u>V</u> iew <u>H</u> elp
🖬 Dashboard	PROPERTIES For WIN-SJ273VILEP1				TASKS 👻
Local Server	Computer and	WIN C1272V/ILED1			<u>^</u>
All Servers	Workgroup	WORKGROUP			Wi
File and Storage Services D					La:
	Windows Firewall	Public: On			Wi
	Remote management	Enabled			Cu
	Remote Desktop	Disabled			IEI
	NIC Teaming	Enabled			Tin
	PCI1 Port 1	Not connected			Pro
	PCI2 Port 1	Not connected			
	PCI2 Port 2	Not connected			
	PCI3 Port 1	Not connected			
	PCI3 Port 2	Not connected			
	PCI3 Port 3	Not connected			
	PCI3 Port 4	Not connected			~
	<				>
					~

3. Right click the team name, select the Delete.

		NIC	Teaming			
SERVERS All Servers	1 total				TASK	s 🔻
lame 🕈	Status	Server Type Operat	ing System Version	Team	s	
VIN-SJ273VILEP1	① Online	Physical Microso	oft Windows Server 2012 R2 D	Datacenter 1		
EAMS Il Teams 1 tota		TASKS 💌	ADAPTERS AND INTER	RFACES	TASKS	•
' EAMS II Teams 1 tota Team Status	Teaming Mode	TASKS	ADAPTERS AND INTER	RFACES	TASKS	•
EAMS II Teams 1 tota Team Status Team1 ⑦ OK	Teaming Mode Delete Properties	TASKS Load Balancing amic s	ADAPTERS AND INTER Network Adapters Team Adapter Speed Available to be ad PCI1 Port 1 Disconnected PCI2 Port 1 Disconnected PCI2 Port 2 Disconnected PCI3 Port 1 Disconnected	RFACES Interfaces State Rea Idded to a team d d d d d	TASKS ason (7)	▼

4. Restart the system.

4. LAN driver update

Refer the notice before driver update.

Important Sign in the system from local console by administrator account for executing the operation below.

4.1. Existing LAN driver uninstallation

Important If team is existed, remove it first.

- 1. Open the **Program and Function** icon on the Control Panel window.
- 2. Click the **Broadcom Gigabit Integrated Controller** in the list, right click it and select **Uninstall**. Continue the uninstallation according to the popup message.
- 3. Restart the system.

4.2. New LAN driver installation

1. Run a command prompt as administrator. Enter the following command at the command prompt.

cd C:\temp\BCOM208\LAN\

(For file info, refer the [3.3.1 Prepare the update module])

- 2. Enter the following, and then press Enter key.
 - Windows Server 2012 R2 INSTALL_WS2012R2.bat
 - Windows Server 2016 INSTALL_WS2016.bat
- 3. When the following message is displayed, restart the system. Installation Completed!
- 4. Check that the driver version is 20.8.0.0 by following [3.2 Confirmation of LAN driver version].

5. After LAN driver install

 Important
 •Sign in the system from local console by administrator account for executing the operation below.

 Important
 •If physical network adapter or teaming adapter is bound into Hyper-V Virtual Switch, rebind it after [5.2 Setup the Team].

 •If using Hyper-V and not using WSFC or EXPRESSCLUSTER, shutdown all the Guest OS if necessary and reset the system to auto boot up after this chapter.

5.1. Workflow after LAN driver install



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5.2. Setup the Team

- 1. Execute the **Sever Manager** and select the **Local Server**.
- 2. Select the **Disabled** or **Enabled** of NIC Teaming.
- 3. Select the TASKS of TEAMS tab and select the New Team.

All Server	: S rs 1 total			TASKS 🔻
Name	Status	Server Type	Operating System Version	Teams
VIN-SJ273VILE	P1 🕣 Online	Physical	Microsoft Windows Server 2012 R2 Datacenter	0
TEAMS			ADAPTERS AND INTERFACES	
TEAMS All Teams 0 to	tal	TASK	ADAPTERS AND INTERFACES	TASKS
FEAMS All Teams 0 to Team Statu	tal s Teaming Mode	TASK Lo:	ADAPTERS AND INTERFACES	TASKS 💌
TEAMS All Teams 0 to Team Statu	tal s Teaming Mode	TASK : Lo	ADAPTERS AND INTERFACES New Team Adapters Delete Team Interfaces Properties Speed State	TASKS 👻 Reason
TEAMS All Teams 0 to Team Statu	tal s Teaming Mode	TASK Lot	ADAPTERS AND INTERFACES New Team Adapters Delete Speed Properties Available to be added to a	TASKS Reason team (9)
TEAMS All Teams 0 to Teâm Statu	tal s Teaming Mode		ADAPTERS AND INTERFACES New Team Adapters Team Interfaces Delete Speed State Properties 4 Available to be added to a LAN1 1 Gbps	TASKS Reason team (9)
TEAMS All Teams 0 to Teâm Statu	tal s Teaming Mode		ADAPTERS AND INTERFACES New Team Delete Properties Adapters Team Interfaces Speed State Adapters LAN1 1 Gbps LAN2 1 Gbps	TASKS Reason team (9)
TEAMS All Teams 0 to Team Statu	tal s Teaming Mode	TASK Lo	ADAPTERS AND INTERFACES New Team Delete Properties Adapters Team Interfaces Speed State Adapters LAN1 1 Gbps LAN2 1 Gbps PCI1 Port 1 Disconnected	TASKS Reason team (9)
TEAMS All Teams 0 to Team Statu	tal s Teaming Mode	TASK Lo	ADAPTERS AND INTERFACES New Team Delete Properties	TASKS Reason team (9)

4. Setup the team referring to teaming information which had noted in advance.

5.3. Reset LAN driver

Refer the following steps for resetting the parameter of LAN driver.



- 1. Open the **Device manager** icon on the Control Panel window.
- 2. Double-click the **Broadcom NetXtreme Gigabit Ethernet** icon on the Device manager.

3. Select the **Advanced** tab and change the value of property which you need to set by referring to the LAN driver setting which had noted in advance.

Broadcom NetXtreme Gigabit Ethernet #8 Properties	s X
General Advanced Driver Details Events Power Management The following properties are available for this network adapter. Click the property you want to change on the left, and then select its value on the right. Property: Value: B122 Saz EEE (Copper Only) ARP Offload Image: Copper Only) Ether met@WireSpeed (Copper Only) Thermet@WireSpeed (Copper Only) Image: Copper Only) Interrupt Moderation Image: Send Offload V2 (IPv4) Image: Copper Only (Image: Network Address NS Offload Provide address NS Offload Value: Receive Buffers V Value: Value:	
OK Car	ncel

5.4. Start the WSFC node service

Refer the following steps for starting the service of node which has been stopped in [3.4 Stop the WSFC node service].

- 1. Open the **Services** from Server Manager in the node which LAN driver updated.
- 2. Right-click the **Cluster Service** in service screen and select the **Properties**.

		50111	000				
le Action View	Help						
a 🖬 🖬 🖉	à 🔒 🛛 🖬 🕨 🔲 🗤 🕪						
Services (Level)							
services (Local)	Services (Local)						
	Cluster Service	Name -	Description	Status	Startup Type	Log On As	
		Application Experience	Processes a		Manual (Trig	Local Syste	
	Start the service	Application Identity	Determines		Manual (Trig	Local Service	
		Application Information	Facilitates t	Running	Manual	Local Syste	
	Description:	Application Layer Gateway	Provides su		Manual	Local Service	
	Enables servers to work together as a	Application Management	Processes in		Manual	Local Syste	
	cluster to keep server-based	🔍 Background Intelligent Tran	Transfers fil		Manual	Local Syste	
	regardless of individual component	Background Tasks Infrastru	Windows in	Running	Automatic	Local Syste	
	failures. If this service is stopped,	🤐 Base Filtering Engine	The Base Fil	Running	Automatic	Local Service	
	clustering will be unavailable. If this	🔍 Certificate Propagation	Copies user		Manual	Local Syste	
	service is disabled, any services that	Cluster Service			Start	/ste	
	explicitly depend on it will fail to start.	Section CNG Key Isolation	The CNG ke		Stop	/ste	
		🌼 COM+ Event System	Supports Sy	Running	Stop	ervice	
		COM+ System Application	Manages th		Pause	/ste	
		鵒 Computer Browser	Maintains a		Resume	/ste	
		鵒 Credential Manager	Provides se		Restart	/ste	
		鵒 Cryptographic Services	Provides thr	Running	All Tacks	k S	
		COM Server Process Laun	The DCOM	Running	All Tasks	/ste	
		Device Association Service	Enables pair		Refresh	/ste	
		Device Install Service	Enables a c		Properties	/ste	
		Device Setup Manager	Enables the	Running		/ste	
		C DHCP Client	Registers an	Running	нер	ervice	
		Diagnostic Policy Service	The Diagno	Running	Automatic (D	Local Service	
		Q Diagnostic Service Host	The Diagno		Manual	Local Service	
		Canadia Diagnostic System Host	The Diagno		Manual	Local Syste	
		Contraction Classical Clas	Maintains li	Running	Automatic	Local Syste	
		Distributed Transaction Co	Coordinates	Running	Automatic (D	Network S	
		Client	The DNS Cli	Running	Automatic (T	Network S	
		Encrypting File System (EFS)	Provides th		Manual (Trig	Local Syste	
		Extensible Authentication P	The Extensi		Manual	Local Syste	
	Extended Standard						

3. Change the **Startup type** to **Automatic** on **General** Tab then select **OK**.

Cluster Service Properties (Local Computer)						
General Log On	Recovery Dependencies					
Service name:	ClusSvc					
Display name:	Cluster Service					
Description:	Enables servers to work together as a cluster to keep server-based applications highly available,					
Path to executable: C:\Windows\Cluster\clussvc.exe -s						
Startup type:	Automatic 🗸 🗸					
Help me configure service startup options.						
Service status: Stopped						
Start	Stop Pause Resume					
You can specify the start parameters that apply when you start the service from here.						
Start parameters:						
	OK Cancel Apply					

- 4. Right click the **Cluster Service** at service screen and select the **Start**.
- 5. Open the Failover Cluster Manager from Server Manager.
- 6. Select the **node** from the left side of **Failover Cluster Manager**.
- 7. Right click the target **node** for driver update from the node list. Select the **Start Cluster Service** from **More Actions**.

电	Failover		x		
File Action View Help					
🗢 🔿 🙍 🖬 🚺 🗊					
Hailover Cluster Manager	Nodes	Actions			
Roles	Name Status		Nodes		
Nodes	VIN-HFO0CFUG1K3 💽 Down	Pause		🍄 Add Node	
Storage	WIN-OH6VOSNBA1C (1) Up	Resume +		View	•
Cluster Events		Remote Desktop		Refresh	
		Show Critical Events		Help	
		More Actions	Start Cluster Service	I-HFO0CFUG1K3	
	•	Refresh	Stop Cluster Service	Pause	•
		Help	Evict	Resume	•
		1 01		Nemote Desktop	
				B Show Critical Events	
				More Actions	•
				Q Refresh	
				Help	
	WIN-HFO0CFUG1K3				
	6.2.9200 Down				
	Sanvica Pack:				
	No Service Pack Installed				
< III >					
This action starts the Cluster service	on this node, after which the node can participate in	the cluster and host resources.			

5.5. Start the EXPRESSCLUSTER service

Refer to the following URL.

http://www.nec.com/en/global/prod/expresscluster/en/support/manuals.html

- -> Reference Guide
 - -> Chapter 10 The system maintenance information
 - -> Replacing the network card
 - * Perform the procedures beyond replacing network card procedure. In addition, no need to reset the network configuration.

6. Procedure of rewinding LAN driver

- Logon or sign in the system from local console by administrator account for executing the operation below.
- If necessary, execute [3.4 Stop the WSFC node service], [3.5 Stop the EXPRESSCLUSTER service] and [3.6 Delete the team] in advance.

Important

- If physical network adapter or teaming adapter is bound into Hyper-V Virtual Switch, stop the guest OS and remove the binding before [3.6 Delete the team].
- After rewinding, execute [5 After LAN driver install] and reset the network setting.

6.1. New LAN driver uninstallation

Important If team is already existed, refer to [3.6 Delete the team] for deleting all the teams before uninstallation.

- 1. Open the **Program and Function** icon on the Control Panel window.
- Click the Broadcom Gigabit Integrated Controller in the list, right click it and select the Uninstall. Continue the uninstallation according to the popup message.
- 3. Restart the system.

6.2. Old LAN driver installation

- 1. Refer to the **installation guide** for installing **StarterPack**. After the installation, restart the system.
- 2. Check that the driver version is 17.2.0.0 or 17.4.0.1 by following [3.2 Confirmation of LAN driver version].

7. Notice

This section describes notice of LAN driver. Read the following notes or information before installation.

7.1. About the operation by remote desktop

For all the operation described in this document, it has to be performed from the local console. Remote desktop of OS or remote operation tool is not supported.

7.2. Account of operation

For all the operation described in this document, it has to be performed by logging on with an administrator account. In addition, open command prompt as Administrator.

7.3. For removing an adapter teaming

If you want to uninstall the LAN driver in the teaming environment, please remove the team adapter before the uninstallation. In addition, if the team is bound into Hyper-V virtual adapter, remove the binding before the removal of team.

7.4. Uninstall the driver

Note the setting information of network(IP Address etc...) and teaming(when is team environment) and default gateway. After LAN driver install or teaming setup (when was team environment), set it again.