

# Teaming function for Broadcom NIC

User's Guide



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# **Chapter 1 Introduction**

### 1.1 What are BACS2 and BASP?

Broadcom Advanced Control Suite 2 (BACS2) is an integrated utility that provides useful information about each Broadcom network adapter that is installed in your server. BACS2 also enables you to perform detailed tests, diagnostics, and analyses on each adapter, as well as to view and modify property values and view traffic statistics.

Broadcom Advanced Server Program (BASP), which runs within Broadcom Advanced Control Suite 2, is used to configure teams for load balancing, fault tolerance, and virtual local area networks (VLANs). BASP functionality is available only on servers that use at least one Broadcom NetXtreme Gigabit Ethernet adapter.



# **Chapter 2 BACS2 Installation and Setting**

## 1.2 How to install BACS2 and BASP?

- 1. Launch NetXtreme Software installation guide.
- 2. Choose Management application.

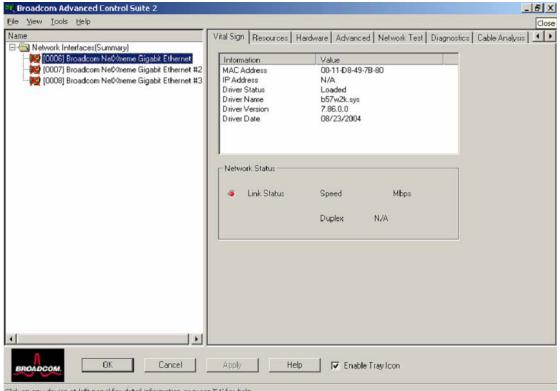
Broadcom	
NetXtre	me Software
DRIVER IN STALLER	Click here to install Broadcom Management Applications, which
MANAGEMENT APPLICATIONS	include the following:
MAKEDISK UTILITY	- Broadcom Advanced Control Suite - BASP (Intermediate Driver for VLAN
BROWSE CD CONTENTS	and Teaming) - SNMP sub-agent
USERS GUIDE	- CIM provider. - DMI PCI service provider
RELEASE NOTES	and and a second a
10	01
EXIT	BROADCOM
	and the second



# **1.3 Teaming Function Setting Steps**

## 1.3.1 Step1

Open the Broadcom Advanced Control Suite utility.



Click on any device at left panel for detail information or press 'F1' for help



# 1.3.2 Step2

Left-click on the "Tools", and choose "Create a Team" option.

Image: Second		Value 00-11-D8-49-7B-80 N/A Loaded b57w2k.sys 7.86.0.0 08/23/2004	Ĩ
	Network Status	Speed Mbps Duplex N/A	
	1		



## 1.3.3 Step3

Enter a name for the Team and choose a Team Type. Click Next to continue.

<ul> <li>Smart Load Balance and Fail Over</li> <li>Link Aggregation (802.3ad)</li> <li>Generic Trunking (FEC/GEC)/802.3ad-Draft Static</li> <li>SLB (Auto-Failback Disable)</li> </ul>	eam Type —		eam Jyoyo		
<ul> <li>Link Aggregation (802.3ad)</li> <li>Generic Trunking (FEC/GEC)/802.3ad-Draft Static</li> </ul>	• Smart	Load Balance and Fail	Over		
C SLB (Auto-Fallback Disable)	C Gene	ic Trunking (FEC/GEC)	)/802.3ad-Draft Statio	c	
	O SLB (	Auto-Fallback Disable)			

#### • Smart Load Balancing and Fail Over

Smart Load Balancing provides both load balancing and failover when configured for Load Balancing, and only failover when configured for fault tolerance.

#### • Link Aggregation (IEEE 802.3ad)

Link Aggregation is similar to Generic Trunking except that it uses the Link Aggregation Control Protocol to negotiate the ports that will make up the team.

#### • Generic Trunking

Generic Trunking is a switch-assisted teaming mode and requires configuring ports at both ends of the link: server interfaces and switch ports.

#### • SLB (Auto-Fail back disable)

SLB (Smart Load Balancing) provides for switch-independent, bi-directional, fault-tolerant teaming and load balancing.



## 1.3.4 Step4

Choose the available adapters to Load Balance Members or Standby Member.

New Team Configuration		×
Member Assignment for Team : yoyo Available Adapters [0005] Broadcom NetXtreme Gigabit Ethernet [0007] Broadcom NetXtreme Gigabit Ethernet [0008] Broadcom NetXtreme Gigabit Ethernet		Load Balance Members
< <u>B</u> ack	preview	Apply Cancel Help

- Load Balance Members groups the adapter into a Load Balancing team.
- **Standby Member** adapter is idle until a failover event (for example, loss of link occurs) while primary member is handling all incoming and outgoing traffic.

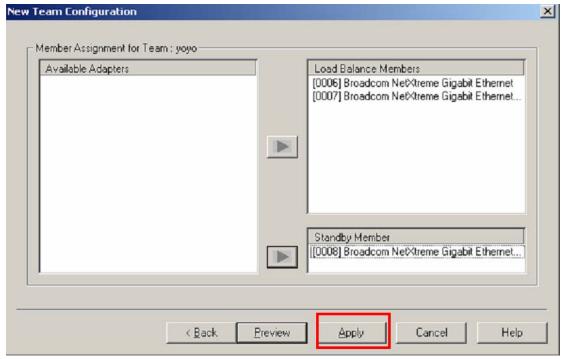
Tip: Teaming is only fully supported by server controllers, such as Broadcom 5721, 5722 etc. 5754, 5755, 5753 are client controllers, do not support teaming, it will report the error below if you try to build a team.

Broadcor	m Advanced Control Suite 2	×
<u>.</u>	[0008] Broadcom NetXtreme Gigabit Ethernet is not fully certified for supportion of you want to continue?	orting teaming.



## 1.3.5 Step5

Add the adapters to Load Balance Members or Standby Member. Click Apply to continue.





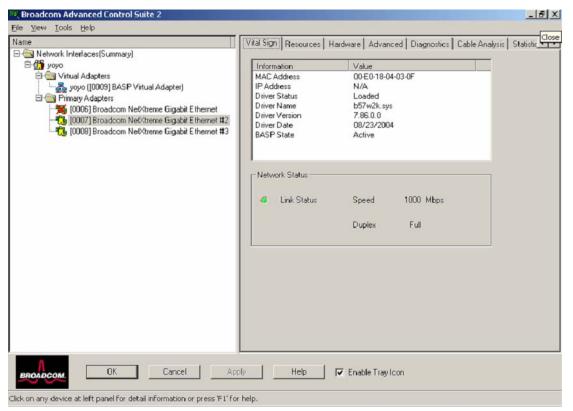
## 1.3.6 Step6

Click Yes to continue.

Broadcom Advanced Control	Suite 2	×
Network connection will be temp Connection will resume after the Do you want to continue?		tasks.
Yes	No	

### 1.3.7 Step7

The result of teaming





# Reference

# **Chapter 1**

Broadcom Corporation: www.broadcom.com

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