DashBoard Resolution of BlackStorm IP Addresses

BlackStorm Video Servers are equipped with multiple network interface cards (NICs), which you might need to use for different purposes. For example:

- NIC 1 editing stations use this NIC to upload media files to the BlackStorm Server.
- NIC 2 controllers use this NIC to control BlackStorm Server playout.

In most situations the IP address assigned to each NIC belongs to a different subnet. Unless explicitly allowed by your Network Administrator, communication between subnets is not permitted. To ensure that Dashboard communicates with your BlackStorm Server through the correct NIC you need to create new connections-props.xml file and modifying NIC binding order on your server.

The connections-props.xml File

After installing BlackStorm Server software on a BlackStorm Server computer the installer automatically starts the BlackStorm Web Server, which in turn creates a connection-props.xml file in the C:\Ross\BlackStorm\connect folder. The connection-props.xml file contains information about the BlackStorm Server that DashBoard uses to make a connection to nodes in the Tree view.



Figure 1 BlackStorm Server Node in the DashBoard Tree View

The BlackStorm Web Server uses the IP address specified by the m_boundAddress parameter in the C:\Ross\BlackStorm\SOAPConfig.xml.file as node IP address in the connection-props.xml file. When the m_boundAddress parameter does not contain an IP address, the BlackStorm Web Server uses the BlackStorm Server computer name.

The SOAPConfig.xml file does not exist when the BlackStorm Web Server starts for the first time, which results in the computer name being saved in connection-props.xml instead of an IP address. When you add a node to the DashBoard Tree view, DashBoard copies the connection-props.xml file to the computer running DashBoard and uses it to set the IP address for the new node.

Be aware that when the connection-prop.xml file contains the BlackStorm Server computer name and both of the BlackStorm Server NICs are enabled, that the Windows OS selects the IP address to which to bind. Letting the Windows OS select the IP address to which to bind can occasionally lead to problems when Dashboard tries to connect to an IP address that the BlackStorm Server is not listening on. To fix this problem, complete the following procedures:

- To create a new connection-prop.xml file on page 2.
- To modify the NIC binding order in Windows 7 on page 3.



BlackStorm

To create a new connection-prop.xml file:

- 1. On the BlackStorm Server computer, open the Windows Task Manager.
- 2. Click the Service tab.
- 3. In the Name column, right-click the BlackStormHttpService service and select Stop Service from the Shortcut menu.

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ile Options View Help					
Applications Processes Services Perfo	rmance	Networking Users			
Name	PID	Description	Status	•	
BDESVC	1154	BitLocker Drive Encryption Service	Stopped		
BITS	952	Base Filtering Engine Background Intelligent Transfer Service	Running		
BlackStormHttpService	1372	Black Storm Web Server	Running		
Browser Start Service		Computer Browser	Running 🗏	=	
bthserv Ston Service		Bluetooth Support Service	Stopped		
CertPropSvq		Certificate Propagation	Running		
clr_optimizat Go to Process		Microsoft .NET Framework NGEN v2.0.50727_X86	Stopped	_	
clr_optimization_v2.0.50727_64		Microsoft .NET Framework NGEN v2.0.50727_X64	Stopped		

- 4. Delete the C:\Ross\BlackStorm\connect\connection-props.xml file.
- 5. Use a text editor to open the C:\Ross\BlackStorm\SOAPConfig.xml file.
- 6. Change the value of the <code>m_boundAddress</code> parameter to the IP address of your BlackStorm Server.
- 7. Save the updated SOAPConfig.xml file.
- 8. In the Windows Task Manager, right-click the BlackStormHttpService service and select Start Service from the Shortcut menu.

🌉 Windows Task Mana	ger				
File Options View	Help				
Applications Processes	Services Perfo	rmance	Networking Users		
Name		PID	Description	Status	*
BDESVC			BitLocker Drive Encryption Service	Stopped	
BFE		1156	Base Filtering Engine	Running	_
BITS		952	Background Intelligent Transfer Service	Running	
BlackStormHttpS====i=	·		Black Storm Web Server	Stopped	
Browser	Start Service		Computer Browser	Running	Ξ
bthserv	Stop Service		Bluetooth Support Service	Stopped	
CertPropSvc			Certificate Propagation	Running	
clr_optimization_	Go to Process		Microsoft .NET Framework NGEN v2.0.50727_X86	Stopped	
clr_optimization_v2.0	.50727_64		Microsoft .NET Framework NGEN v2.0.50727_X64	Stopped	

9. Close the Windows Task Manager.



To modify the NIC binding order in Windows 7:

Open the Network Connections dialog box. 1.



- 2. Press ALT to display the Menu toolbar.
- 3. Use the Advanced menu to select Advanced Settings.

🙀 Network Connections								
COC - Control Panel - Network and Internet - Network Connections -								
<u>File E</u> dit <u>V</u> iew <u>T</u> ools	Advanced Help							
Organize 🔻	Operator-Assisted Dialing Remote Access Preferences							
Local Area Conr Unidentified net Broadcom BCMS	Bridge Connections Advanced Settings	cal Area Connection 2 ssvideo.com padcom BCM5716C NetXtreme II G						

Reorder the **Connections** list so that the NIC with the desired IP is at the top of the list. 4.



5. Close the Network Connections dialog box.



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