Riverbed POC Pre-configuration Survey

Current Date: 12/3/14

Deployment Type: Inpath | Number of:users: 200 | Print Form

Availability: Single | Bandwidth: 6M | *For Riverbed Use Only* **Model**

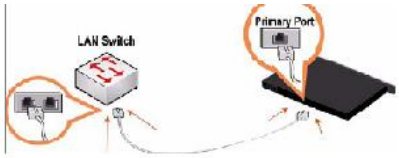
Time Zone: GMT +3

Host Name: IMC-SC-CXA755

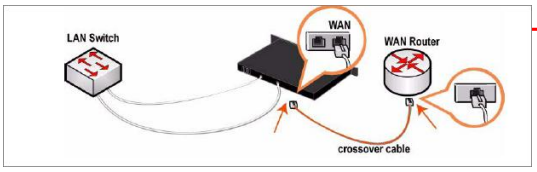
Domain: pbad.sbg.com.sa

Wan Visiblity: Correct Addresing(Default)

Note!!
For OUT-OF-PATH installation, fill only the "Management Interface" Section and leave the "In-Path Interface" Section blank.



- ☐ 250 L
- ☐ 250 M
- ☐ 250 H
- ☐ 550 M
- ☐ 550 H
- ☐ 1050 L
- ☐ 1050 M
- ☐ 1050 H
- ☐ 2050 L
- ☐ 2050 M
- ☐ 2050 H
- ☐ 5050 L
- ☐ 5050 M
- ☐ 5050 H
- ☐ 6050
- ☐ 7050 L
- ☐ 7050 M



Note : *Riverbed appliance has two Port LAN and WAN. Together they are called In-Path or the optimization Ports.The two ports are physically bridged together and require one free LAN IP from your network.*

Desktop models have only one inpath.

1U models and above has 4 ports and capable of 2 inpaths connected to 2 HA router segments

Fill the second inpath if you have 2 physical routers on HSRP.

Out of Path Deployment only fill the Mgmt IP address
For all other Deployments fill Inpath and Mgmt

Inpath 0_0 IP Address:	10.108.255.10	Inpath 0_1 IP Address:		Primary IP Address:	10.108.254.5
Subnet:	255.25.255.0	Subnet:		Subnet:	255.255.255.0
Gateway IP:	10.108.255.1	Gateway IP:		Gateway IP:	10.108.254.1
DNS Server:	10.108.200.5	DNS Server:		Interface Speed:	◉ Auto ○ 10 ○ 100 ○ 1000
				Interface Duplex:	☑ Auto ☐ Half ☐ Full

Network Adapters
- Check Speed and Duplex settings of the Router and Switch

WAN Interface Speed: ◉ Auto ○ 10 ○ 100 ○ 1000
WAN Interface Duplex: ☑ Auto ☐ Half ☐ Full

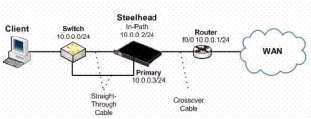
LAN Interface Speed : ◉ Auto ○ 10 ○ 100 ○ 1000
LAN Interface Duplex: ☑ Auto ☐ Half ☐ Full

MTU Size: 1,500

WAN Interface Speed: ○ Auto ○ 10 ○ 100 ○ 1000
WAN Interface Duplex: ☐ Auto ☐ Half ☐ Full

LAN Interface Speed : ○ Auto ○ 10 ○ 100 ○ 1000
LAN Interface Duplex: ☐ Auto ☐ Half ☐ Full

MTU Size:



WAN MTU size (Default is 1500) Try this command to ping from client to any server, (ping -f -l 1500 192.168.1.1)if you see DF set then try to lower till you get the right one (for example1400).

Following ports must be open on Router ACLs and ISA / firewalls inside -> outside for Riverbed

Inpath	Out of path
☒ TCP 7800,7801	☐ TCP 7810

Note:
CIFS SMB/MAPI encryption support for native W2K8 and W2K3 domains in RiOS 5.5.3 only! Only NTLM authentication is supported - end-to-end Kerberos is not supported!

Some ports are excluded by default may require optimization needs to removed from secure ports

1494-2598- Citrix & 443 -SSL

Note: request SSL license from support.riverbed.com separately

7800 In-path port for appliance to appliance connections.
7801 Network Address Translation (NAT) port.
7810 Out-of-path server port.
7820 Failover port for redundant appliances.
7850 Connection forwarding (neighbor) port.
7860 Interceptor appliance.
7870 Steelhead Mobile.

Initial Configuration Serial Cable

- The console cable is provided in the Riverbed package.

Use the hyper-terminal to access Riverbed Console

- Use a computer with "COM" port and connect the console cable to this machine

Configuration Step by Step

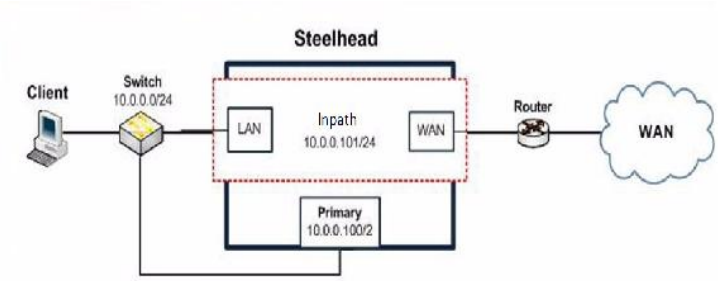
Please use the information provided by your IT department. Don't follow the IP in the screen.

```
amnesiac > en
amnesiac # conf t
amnesiac (config) # configuration jump-start

Riverbed Steelhead configuration wizard.

Step 1: Hostname? [amnesiac]
Step 2: Use DHCP on primary interface? [no] no
Step 3: Primary IP address? [10.1.2.3] 10.2.3.4
Step 4: Netmask? [255.255.255.0] 255.255.255.0
Step 5: Default gateway? 10.2.3.1
Step 6: Primary DNS server?
Step 7: Domain name?
Step 8: Admin password?
Step 9: SMTP server? []
Step 10: Notification email address?
Step 11: Set the primary interface speed? [auto]
Step 12: Set the primary interface duplex? [auto]
Step 13: Would you like to activate the in-path configuration? [no] yes

Step 14: In-Path IP address? 10.2.3.5
Step 15: In-Path Netmask? [0.0.0.0] 255.255.255.0
Step 16: In-Path Default gateway? 10.2.3.1
Step 18: Set the in-path:LAN interface duplex? [auto]
Step 19: Set the in-path:WAN interface speed? [auto]
Step 20: Set the in-path:WAN interface duplex? [auto]
```



Preparation checklist

Obtain network diagram with IP address
Device Staging
Save existing configuration (licenses) - copy output of "Sh run"
Reset factory
Clean Datastore
Upgrade to the latest GA software release
Using SSL (HTTPS)? Did you get SSL licenses for both boxes?
https://sslcert.riverbed.com/ssl/main.php
Pre-configure SH and connect to the customer's network
Line up components for your final POC report
Customize performance (.xls) template for specific transactions that are currently customer's pain points
Obtain bandwidth utilization graph for congested links on PRTG

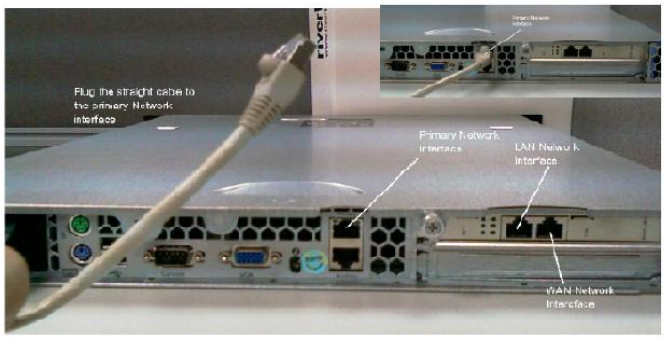
Riverbed Steelhead Graphs to be taken during POC

Bandwidth optimization (Period=last week; Period=last month)
Data Reduction (Period=last week; Period=last month)
HTTP Statistics (Period=last month)
Throughput (Period=last month; traffic=All)
Throughput (Period=last month; traffic=<choose the important application TCP port>)
Traffic Summary (type=optimized; Period=last month)
Traffic Summary (type=passthrough; Period=last month)
Connection History (Period=last month)
Current Connections (print to .pdf during peak office hour e.g. 10am)
Interface Statistics
Sysdump for all the SHs
Configuration file "show run" of the SH (or via HTTP)
Asymmetric Routes detection:
In RiOS 5.x click "Configure -> Networking -> Asymmetric Routing"
In RiOS 4.x or before, click "Setup -> Advanced Networking -> Asymmetric Routing"
Note: copy and paste the window (ALT-Print screen) and paste to Excel

				Cold		Warm	
Operation	Data	Baseline		Steelhead Appliance		Steelhead Appliance	
		Bandwidth	Seconds	Bandwidth	Seconds	Bandwidth	Seconds
File-sharing (Windows CIFS)	2 MB						
	7 MB						
	Folder						
File-sharing (Mac CIFS)	2 MB						
	7 MB						
	Folder						
File-sharing	2 MB						
	7 MB						
	Folder						
E-mail messages	2 MB						
	7 MB						
E-mail	2 MB						
	7 MB						
FTP	2 MB						
	7 MB						
HTTP	2 MB						
	7 MB						
Backup	Repository						
Restore	Repository						

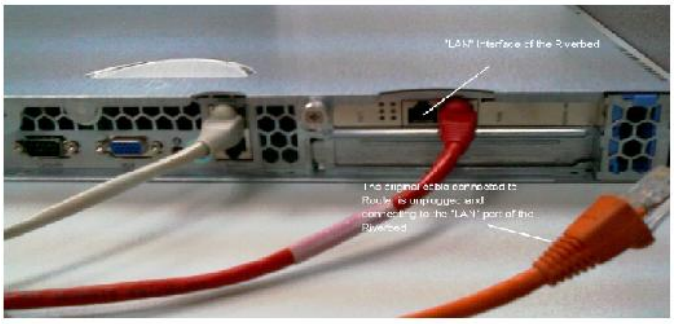
Cables provided by Riverbed

Primary Interface Connection



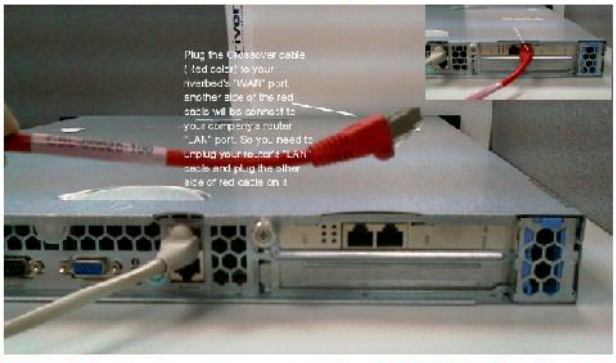
- Plug the straight cable to the Primary Interface

Connect original Router cable to Riverbed LAN Interface



- The original cable connected to Router is unplugged and connecton to the LAN port of the Riverbed

Connect the "Red" Cross cable to WAN Interface



Plug the Crossover cable to your riverbed's "WAN" Port. Another side of the Red cable will be connect to your company's router LAN port.

Note :
Steelhead factory default configuration (Be careful it will erase all existing data and config) on the command prompt

```
amnesiac >  Login ; admin
amnesiac > Password: password
amnesiac > Enable
amnesiac > Config t
amnesiac (config)  #  Reset factory
```

The system will come to a halt, unplug the power cable out and connect it back

To Start Quick configuration mode at any time

```
amnesiac > Enable
amnesiac > Config t
amnesiac (config)  #  Configuration jump-start
```


Print Form