

# Riverbed® Steelhead® Product Family with Granite

## Model Specifications: Riverbed Steelhead CX Appliances

Model	Mid-Size Office Steelhead					Large Office or Data Center Steelhead		
	555 Series		755 Series			1555 Series		
Configurations	M	H	L	M	H	L	M	H
Profile	Desktop		Desktop			1U		
Upgradeable to	555 H	-	755 M	-	-	1555 M	-	-
Optimized WAN Capacity <sup>a</sup>	6 Mbps	10 Mbps	10 Mbps	10 Mbps	20 Mbps	45 Mbps	45 Mbps	90 Mbps
Optimized TCP and UDP flows <sup>(b)</sup>	350	650	900	1,500	2,300	3,000	4,500	6,000
QoS Bandwidth <sup>c</sup>	10 Mbps	10 Mbps	45 Mbps	45 Mbps	45 Mbps	100 Mbps	100 Mbps	100 Mbps
QoS Rules/Classes <sup>d</sup>	500	500	1,000	1,000	1,000	2,000	2,000	2,000
Raw Capacity <sup>e</sup>	500 GB	500 GB	500 GB	500 GB	410 GB	2,000 GB	2,000 GB	1,320 GB
Data Store Capacity	80 GB	80 GB	100 GB	100 GB	160 GB SSD	400 GB	400 GB	320 GB SSD
Storage Fault Tolerance	-		-			RAID <sup>f</sup>	RAID <sup>f</sup>	RAID <sup>f</sup>
Hot Swappable Drives	-		-			4	4	4
RAM	2 GB		2 GB		4GB	8 GB		
Expansion Slots (PCI-e) <sup>g</sup>	-		-			2		
Onboard Bypass ports (Copper)	4		4			4		
Max # of Bypass Ports	4		4			12		

a. Outbound WAN capacity is up to the amount listed.

(b) TCP Connections and UDP flows can be expected up to the amount listed

(c) Recommended maximum outbound QoS shaping capacity

d. Total of classes plus rules

e. Includes HDD's with SSD's

f. RAID 10 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD/HDD

g. Optional Network Bypass cards: Dual and Quad LX and SX GigE Fiber GigE, Quad Copper GigE,

## Power & Physical Specifications: Riverbed Steelhead CX Appliances

Model	Small Office Steelhead		Large Office or Data Center Steelhead
	555 Series	755 Series	1555 Series
Dual Power Supplies	-	-	✓
Power [Watts] (Typical)	40	50	175
BTU	145	165	605
Temperature	0 - 45 deg C / 32 - 113 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)		10 - 40 deg C / 50 - 104 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)
Relative Humidity <sup>i</sup>	20% - 80% non-condensing (Operating), 5% - 95% non-condensing (Storage)		
Operating Acoustic Noise (Typical)	45 dBA		62 dBA
System Dimensions (LxWxH) <sup>ii</sup>	7.1 x 12 x 1.65 in / 180.3 x 304.8 x 42 mm		25.4 x 17.2 x 1.71 in / 645.4 x 436 x 43.5 mm
Packaging Dimensions	17.5 x 12 x 3.87 in / 444.5 x 304.8 x 174.6 mm		36.25 x 23.38 x 12.5 in / 920.8 x 593.7 x 317.5 mm
Max Weight (without packaging)	4.7 Lbs / 2.15 Kg		36 Lbs / 16.36 Kg
Rail Information	Mounting ears included. Orderable spare part RMK-001		Mounting rail kit included. Orderable spare part RMK-002A

i. Operating altitude up to 10,000 feet

ii. Length is without bezel

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**Model Specifications: Riverbed Steelhead EX Appliances**

	Small Office Steelhead				Mid-Size Office Steelhead		
Model	EX560 Series				EX760 Series		
Configurations	G	L	M	H	L	M	H
Profile	1U				1U		
Upgradeable to	560 L/M/H	560 M/H	560 H	-	760 M/H	760 H	-
Optimized WAN Capacity <sup>a</sup>	4 Mbps	4 Mbps	6 Mbps	10 Mbps	10 Mbps	10 Mbps	20 Mbps
Optimized TCP & UDP flows <sup>(b)</sup>	N/A	250	350	650	900	1,500	2,300
QoS Bandwidth <sup>c</sup>	10 Mbps	10 Mbps	10 Mbps	10 Mbps	45 Mbps	45 Mbps	45 Mbps
QoS Rules/Classes <sup>d</sup>	500	500	500	500	1,000	1,000	1,000
Raw Storage Capacity	1080 GB				1160 GB		
Data Store Capacity (SSD)	40 GB	40 GB	70 GB	70 GB	150 GB	150 GB	150 GB
VSP Partition <sup>(h)</sup>	N/A	190 GB			190 GB		
Granite block store <sup>(i)</sup>	380 GB	190 GB			190 GB		
Storage Fault Tolerance	-				-		
Hot Swappable Drives	-				-		
RAM (without Granite)	N/A	8 GB			16 GB		
Available for VSP	N/A	2 GB			6 GB		
RAM (with Granite) <sup>g</sup>	16 GB				16 GB		
Available for VSP <sup>k</sup>	N/A	7 GB			6 GB		
Expansion Slots (PCI-e) <sup>j</sup>	-				-		
Onboard Bypass Ports (Copper)	4				4		
Max # of Bypass Ports	4				4		

(a) Outbound WAN capacity is up to the amount listed.

(b) TCP Connections and UDP flows can be expected up to the amount listed

(c) Recommended maximum outbound QoS shaping capacity

(d) Total of classes plus rules

(e) RAID 1 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD

(f) RAID 10 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD

(g) Granite requires extra memory. In some models - EX760 and EX1260 - the memory is always included. On other models, extra memory is needed to support Granite. EX560 requires 16GB of RAM when configured for Granite. EX1160 requires 20GB of RAM when configured for Granite

(h) With the Granite license, the VSP partition can be larger. For more details, see the "Steelhead EX Installation and Configuration Guide"

(i) This is the minimum space. It can grow to encompass the VSP partition. For more details, see the "Steelhead EX Installation and Configuration Guide"

(j) Optional Network Bypass cards: Dual & Quad LX/SX Fiber GigE, EX models support a max of 1 fiber NIC but no additional copper NICs

(k) EX1260 memory can be upgraded to 32GB (2TB model) and 64GB (4TB model)

## Model Specifications: Riverbed Steelhead EX Appliances

Model	Large OfficeSteelhead															
	EX1160 Series					EX1260 Series (2 TB)					EX1260 Series (4 TB)					
Configurations	G	L	M	H	VH	G	L	M	H	VH	G	L	M	H	VH	
Profile	1U					2U					2U					
Upgradeable to	1160 L/M/H	1160 M/H	1160 H	-	-	1260 L/M/H	1260 M/H	1260 H	-	-	1260 L/M/H	1260 M/H	1260 H	-	-	
Optimized WAN Capacity <sup>a</sup>	10 Mbps			20 Mbps	45 Mbps	10 Mbps			20 Mbps	45 Mbps	10 Mbps			20 Mbps	45 Mbps	
Optimized TCP & UDP flows <sup>(b)</sup>	N/A	900	1,500	2,300	4,000	N/A	900	1,500	2,300	4,000	N/A	900	1,500	2,300	4,000	
QoS Bandwidth <sup>c</sup>	100 Mbps					100 Mbps					100 Mbps					
QoS Rules/Classes <sup>d</sup>	1,000					1,000					1,000					
Raw Storage Capacity	2,160 GB			2,320 GB		4,160 GB			4,320 GB		8,160 GB			8,320 GB		
Data Store Capacity (SSD)	150 GB			300 GB		150 GB			300 GB		150 GB			300 GB		
VSP Partition <sup>(h)</sup>	N/A	275 GB				N/A	575 GB				N/A	1230 GB				
Granite block store <sup>(i)</sup>	760 GB	275 GB				1,580 GB	575 GB				3,575 GB	1230 GB				
Storage Fault Tolerance	RAID <sup>e</sup>					RAID <sup>f</sup>					RAID <sup>f</sup>					
Hot Swappable Drives	4					6			8		10			12		
RAM (without Granite)	N/A	16 GB			24 GB		N/A					N/A				
Available for VSP	N/A	8 GB			10 GB		N/A					N/A				
RAM (with Granite) <sup>g</sup>	20 GB			24 GB		24 / 32 <sup>k</sup> GB					32 / 64 <sup>k</sup> GB					
Available for VSP <sup>k</sup>	N/A	8 GB			10 GB		9 / 17 <sup>k</sup> GB			5 / 13 <sup>k</sup> GB		12 / 43 <sup>k</sup> GB			8 / 40 <sup>k</sup> GB	
Expansion Slots (PCI-e) <sup>j</sup>	2					4					4					
Onboard Bypass Ports (Copper)	4					4					4					
Max # of Bypass Ports	4					4					4					

(a) Outbound WAN capacity is up to the amount listed.

(b) TCP Connections and UDP flows can be expected up to the amount listed

(c) Recommended maximum outbound QoS shaping capacity

(d) Total of classes plus rules

(e) RAID 1 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD

(f) RAID 10 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD

(g) Granite requires extra memory. In some models - EX760 and EX1260 - the memory is always included. On other models, extra memory is needed to support Granite. EX560 requires 16GB of RAM when configured for Granite. EX1160 requires 20GB of RAM when configured for Granite

(h) With the Granite license, the VSP partition can be larger. For more details, see the "Steelhead EX Installation and Configuration Guide"

(i) This is the minimum space. It can grow to encompass the VSP partition. For more details, see the "Steelhead EX Installation and Configuration Guide"

(j) Optional Network Bypass cards: Dual & Quad LX/SX Fiber GigE, EX models support a max of 1 fiber NIC but no additional copper NICs

(k) EX1260 memory can be upgraded to 32GB (2TB model) and 64GB (4TB model)

### Model Specifications: Granite

Model	Granite Core						
	VGC1000			GC2000			
Configurations	U	L	M	L	M	H	VH
Profile	Virtual			2U			
Upgradeable to	VGC1000 L/M	VGC1000 M	-	GC2000 M/H/VH	GC2000 H/VH	GC2000 VH	-
Front Swappable Drives	N/A			2			
RAM	N/A			24 GB			
Expansion Slots (PCI-e) <sup>9</sup>	N/A			4			
Included Ports (Copper)	N/A			6			
Max. # of Ports	N/A			6			
Branches	5	10	20	10	20	40	80
Data Set Size <sup>1</sup>	2 TB	5 TB	10 TB	5 TB	10 TB	20 TB	35 TB

1. Recommended size depending on data type

### Power & Physical Specifications: Riverbed Steelhead EX and Granite Appliances

	Small Office Steelhead	Mid-Size Office Steelhead	Large Office or Data Center Steelhead	Data Center
Model	EX560/760 Series	EX1160 Series	EX1260 Series	GC2000
Dual Power Supplies	-	✓	✓	
Power [Watts] (Typical)	85	175	355	330
BTU	295	605	1,215	1,130
Temperature	10 - 40 deg C / 50 - 104 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)			
Relative Humidity <sup>i</sup>	20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage)			
Operating Acoustic Noise (Typical)	57 dBA	62 dBA	65 dBA	
System Dimensions (LxWxH) <sup>ii</sup>	17.09 x 15.52 x 1.66 in 434.0 x 394.3 x 42.4 mm	25.4 x 17.2 x 1.71 in 645.4 x 436 x 43.5 mm	25.4 x 17.2 x 3.43 in 645.4 x 436 x 87.1 mm	
Packaging Dimensions	36.25 x 23.38 x 12.5 in 920.8 x 593.7 x 317.5 mm			
Max Weight (without packaging)	17.76 Lbs 8.06 Kg	36 Lbs 16.36 Kg	58 Lbs 23.36 Kg	
Rail Information	Mounting ears included. Orderable spare part RMK-005		Mounting rail kit included. Orderable spare part RMK-002A	

i. Operating altitude up to 10,000 feet

ii. Length is without bezel

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## Model Specifications: Riverbed Steelhead xx50 Series Appliances

Model	Small Office Steelhead						Mid-Size Office Steelhead								
	150 Series	250 Series			550 Series		1050 Series				2050 Series				
Configurations	M	L	M	H	M	H	U	L	M	H	L	M	H		
Profile	Desktop						1U				1U				
Upgradeable to	-	250-M/H	250-H	-	550-H	-	-	1050-M/H	1050-H	-	2050-M/H	2050-H	-		
Optimized WAN Capacity <sup>a</sup>	1 Mbps	1 Mbps	2 Mbps <sup>(i)</sup>	2 Mbps	2 Mbps	4 Mbps	4 Mbps	8 Mbps <sup>o</sup>	10 Mbps <sup>o</sup>	20 Mbps <sup>o</sup>	45 Mbps <sup>b</sup>				
Optimized TCP Connections <sup>d</sup>	20 <sup>(i)</sup>	40 <sup>(i)</sup>	125	200	300	600	600	800	1,300	2,300	2,500	4,000	6,000		
QoS Bandwidth <sup>q</sup>	2	4	4	4	10	10	45	45	45	45	100	100	100		
QoS Rules/Classes <sup>r</sup>	100	300	300	300	500	500	1000	1000	1000	1000	2000	2000	2000		
Raw Capacity	120GB	120 GB			160 GB		250 GB	250 GB		500 GB	1 TB				
Data Store Capacity	40GB	40 GB			80 GB		100 GB	100 GB		200 GB	400 GB				
RSP Partition <sup>k</sup>	-	55 GB			55 GB		100 GB	100 GB (Default) 200 GB (RAID)		200 GB	75 GB				
RSP 64 Bit Packages	-	No						Yes				Yes			
Storage Fault Tolerance	-	-						-	Optional RAID				RAID		
Front Swappable Drives	-	-						1	1 (default) 4 <sup>g</sup> (RAID)		2 (de- fault) 4 <sup>g</sup> (RAID)		4 <sup>g</sup>		
RAM <sup>m</sup>	-	1 GB			2 GB		2 GB	2 GB	2 GB	4 GB	6 GB				
Expansion Slots (PCI-e) <sup>h</sup>	-	-						1				1			
Onboard Bypass ports (Copper)	-	2						4				4			
Max # of Bypass Ports	-	2						8				8			

Model	Large Office or Data Center Steelhead						Management		
	5050			6050	7050		INT 9350	CMC 8150	SMC 8650
Configurations	L	M	H		L	M			
Profile	3U			3U	3U		3U	1U	1U
Upgradeable to	5050-M/H	5050-H	-	-	7050-M		-	-	-
Optimized WAN Capacity <sup>a</sup>	90 Mbps <sup>b, o</sup>	90 Mbps <sup>b, o</sup>	155 Mbps <sup>b</sup>	310 Mbps	1 Gbps <sup>b, c, n</sup>		40 Gbps <sup>p</sup>	NA	NA
Optimized TCP Connections <sup>d</sup>	7,500	10,000	18,000	50,000	75,000	100,000	1,000,000	-	-
QoS Bandwidth <sup>q</sup>	200	200	200	310	1000	1000	-	-	-
QoS Rules/Classes <sup>r</sup>	2000	2000	2000	2000	2000	2000	-	-	-
Raw Capacity	2 TB	2 TB	3 TB	8 TB	2.8 TB	5 TB	-	1 TB	1 TB
Data Store Capacity	600 GB	600 GB	800 GB	3.5 TB	2.2 TB SSD	4.4 TB SSD	-	NA	N/A
RSP Partition <sup>k</sup>	100 GB <sup>e</sup>	100 GB <sup>e</sup>	150 GB <sup>e</sup>	150 GB <sup>e</sup>	100 GB <sup>e</sup>	100 GB <sup>e</sup>	-	-	-
RSP 64 Bit Packages	Yes			Yes	Yes		-	-	-
Storage Fault Tolerance	RAID			RAID	RAID <sup>f</sup>		RAID	-	-
Front Swappable Disks	8 <sup>g</sup>	8 <sup>g</sup>	12 <sup>g</sup>	16 <sup>g</sup>	16 <sup>g</sup>	30 <sup>g</sup>	3 <sup>g</sup>	2	2
RAM <sup>m</sup>	8 GB			24 GB	32 GB	48 GB	8 GB	6 GB	6 GB
Expansion Slots (PCI-e) <sup>h</sup>	4	4		4	4		4	-	-
Onboard Bypass ports (Copper)	4	4		4	4		4	-	-
Max # of Bypass Ports	20	20		20	20		20	-	-

(a) Inbound (WAN to LAN) Steelhead capacity is unrestricted; outbound WAN capacity can be expected up to the amount listed. On the 2050, 5050, and 6050, total WAN capacity equals inbound traffic + outbound traffic

(b) No enforced optimized WAN bandwidth limit

(c) For Data Center to Data Center workloads, WAN capacity is up to 1 Gbps. For DC to remote office workloads, recommended WAN capacity is up to 622 Mbps

(d) TCP and UDP flows can be expected up to the amount listed

(e) No PFS support

(f) Data store uses fault tolerant striped configuration

(g) Hot swappable disks

(h) Optional Network Bypass cards: Dual and Quad LX and SX GigE Fiber GigE, Quad Copper GigE, Dual 10GbE SR/LR

(i) Requires RIOS 7.0.3a, 6.5.5a onwards

(k) Raw disk capacity allocated to the RSP partition. About 7GB is used by RSP package and filesystem. Partner packages need additional storage (based on the size of the package)

(l) RSP requires additional 2GB of memory. 6050 requires 4GB, 7050 requires 8GB. RSP packages on the 550 are limited to 1.5GB memory since the software is unable to use the full 2GB of additional memory.

(m) Over 4Gbps of LAN performance with 2.5X data reduction when configured to use jumbo Ethernet frames.

(n) The 5050L and the 1050 B/W increases require RIOS 5.5.7 or 6.0.2 onwards

(o) Multiple inpath interfaces were used to achieve this throughput. Up to 40Gbps throughput (rx+tx traffic). Requires version INT 3.0 with XBridge enabled. WCCP and PBR configurations are not supported when XBridge is enabled.

(p) Recommended maximum outbound QoS shaping capacity

(r) Total of classes plus rules

**Power & Physical Specifications: Riverbed Steelhead xx50 Series Appliances**

Model	Small Office Steelhead				Mid-Size Office Steelhead									
	150 Series	250 Series			550 Series		1050 Series				2050 Series			
Configurations	M	L	M	H	M	H	U	L	M	H	L	M	H	
Profile	Desktop				Desktop		1U				1U			
Dual Power Supplies	-				-		(Optional)				✓			
Power [Watts] (Typical)	40				66.5		138				151			
BTU	135				227		471				515			
Temperature	0 - 45 deg C / 32 - 113 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)						10 - 40 deg C / 50 - 95 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)							
Relative Humidity <sup>i</sup>	20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage)													
Operating Acoustic Noise	45 dBA Sound Pressure (Typical)						61 dBA Sound Pressure (Typical)							
System Dimensions (LxWxH) <sup>ii</sup>	12 x 7.1 x 1.65 in 304.8 x 180.3 x 42 mm						25.4 x 17.2 x 1.71 in 645.4 x 436 x 43.5 mm							
Packaging Dimensions	24.5 x 12 x 4 in 622 x 305 x 102 mm						33.6 x 22.9 x 8.6 in 854 x 582 x 219 mm							
Max Weight (without packaging)	4.7 Lbs / 2.15 Kg						29 Lbs / 13.1 Kg				30 Lbs / 13.6 Kg		35 Lbs / 15.9 Kg	
Rail Information	Mounting ears included. Orderable spare part RMK-001						Mounting rail kit included. Orderable spare part RMK-002							

Model	Large Office or Data Center Steelhead						Management		
	5050			6050	7050	7050	INT 9350	CMC 8150	SMC8650
Configurations	L	M	H		L	M			
Profile	3U			3U	3U		3U	-	-
Dual Power Supplies	✓			✓	✓		✓	-	-
Power [Watts] (Typical)	203	225		352	425	430	320	153	
BTU	693	768		1670	1455	1470	1091	515	
Temperature	10 - 40 deg C / 50 - 95 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)						10 - 35 deg C / 50-95 deg F (Operating) -40-70 deg C / -40-158 deg F (Storage)		
Relative Humidity <sup>i</sup>	20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage)								
Operating Acoustic Noise	61 dBA Sound Pressure (Typical)						Same as 1050		
System Dimensions (LxWxH) <sup>ii</sup>	25.72 x 17.0 x 5.2 in 653.4 x 431.6 x 131.9 mm						Same as 1050		
Packaging Dimensions	34.1 x 23.7 x 15.9 in 866 x 602 x 403 mm						Same as 1050		
Max Weight (without packaging)	59 Lbs / 26.7 Kg	64 Lbs / 29 Kg	71 Lbs / 32.2 Kg	55 Lbs / 25 Kg	59 Lbs / 25.8 Kg	51 Lbs / 23.2 Kg	30 lbs / 13.6 kg		
Rail Information	Mounting rail kit included. Orderable spare part RMK-003						Mounting rail kit included. Orderable spare part RMK-002		

<sup>i</sup> Operating altitude up to 10,000 feet

<sup>ii</sup> Length is without bezel

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## System Requirements: Steelhead Mobile

Steelhead Mobile software optimizes application performance over the WAN for the mobile workforce.

<b>Operating System</b>	Windows XP SP3 (32-bit versions only); Vista and Windows 7 (32-bit and 64-bit versions). Mac OSX 10.5 and 10.6 (Intel only)
<b>CPU</b>	Celeron 650 MHz
<b>Memory</b>	256 MB
<b>Disk Store</b>	256 MB free disk space (min. required)
<b>Steelhead Appliance<sup>1</sup></b>	Required
<b>Steelhead Mobile Controller (SMC)</b>	Required: Either Steelhead Mobile Controller Appliance or Steelhead Mobile Controller Virtual Edition

1. At least one Steelhead appliance is required running RIOS version 4.x or higher.

## Software Specifications: Steelhead Mobile

<b>Concurrent Clients Supported per SMC</b>	4000 (SMC-Appliance) / 100 (SMC-Virtual Edition)
<b>Concurrent Clients Supported with SMC Cluster<sup>2</sup></b>	n x 4000
<b>VPN Compatibility<sup>3</sup></b>	Cisco, Juniper, Nortel, OpenVPN, Microsoft, Aventail, Citrix, AT&T Netclient, Array, Checkpoint, F5, Sonicwall, Fortinet, WatchGuard
<b>Wireless PC Card Compatibility<sup>4</sup></b>	Verizon, AT&T, Sprint

2. SMCs can operate in clustered mode to support additional Steelhead Mobile clients.

3. Partial listing. VPN compatibility may be impacted by vendor software version, client configuration, and other factors. Refer to detailed VPN specifications at [http://www.riverbed.com/products/steelhead\\_mobile/vpn\\_specs/](http://www.riverbed.com/products/steelhead_mobile/vpn_specs/) for more information.

4. Partial listing. Wireless PC Card compatibility may be impacted dependent upon hardware and driver versions, bundled software and other factors. Refer to detailed wireless specifications at [http://www.riverbed.com/products/steelhead\\_mobile/wireless/](http://www.riverbed.com/products/steelhead_mobile/wireless/) for more information.



### About Riverbed

Riverbed delivers performance for the globally connected enterprise. With Riverbed, enterprises can successfully and intelligently implement strategic initiatives such as virtualization, consolidation, cloud computing, and disaster recovery without fear of compromising performance. By giving enterprises the platform they need to understand, optimize and consolidate their IT, Riverbed helps enterprises to build a fast, fluid and dynamic IT architecture that aligns with the business needs of the organization. Additional information about Riverbed (NASDAQ: RVBD) is available at [www.riverbed.com](http://www.riverbed.com).



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**Riverbed Technology**  
199 Fremont Street  
San Francisco, CA 94105  
Tel: +1 415 247 8800  
Fax: +1 415 247 8801  
[www.riverbed.com](http://www.riverbed.com)

**Riverbed Technology Ltd.**  
One Thames Valley  
Wokingham Road, Level 2  
Bracknell RG42 1NG  
United Kingdom  
Tel: +44 1344 401900

**Riverbed Technology Pte. Ltd.**  
391A Orchard Road #22-06/10  
Ngee Ann City Tower A  
Singapore 238873  
Tel: +65 6508-7400

**Riverbed Technology K.K.**  
Shiba-Koen Plaza Building 9F  
3-6-9, Shiba, Minato-ku  
Tokyo, Japan 105-0014  
Tel: +81 3 5419 1990

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