

DA

Form PTO-1895 (Rev. 03-09)
OMB No. 0651-0027 (exp. 03/31/2009)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

103665161
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

MORGAN STANLEY & CO.
LLC, as Collateral Agent

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) December 20, 2013

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☒ Other Release of Patent Security Interest

2. Name and address of receiving party(ies)

Name: Riverbed Technology, Inc.

Internal Address: _____

Street Address: 199 Fremont Street

City: San Francisco

State: CA

Country: USA Zip: 94105

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Please see attached schedules.

Please see attached schedules.

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Thomas Fahey

Internal Address: National Corporate Research

Suite 1130

Street Address: 1025 Vermont Avenue N.W.

City: Washington

State: D.C. Zip: 20005

Phone Number: (202) 370-4761

Fax Number: (800) 494-7512

Email Address: tfahey@nationalcorp.com

6. Total number of applications and patents involved: 357

7. Total fee (37 CFR 1.21(h) & 3.41) \$14,280

- ☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name 01/02/2014 HTON11 00000003 5945533 14280.00 3P
01 FC:0021

9. Signature:

Katherine Stewart
Signature

December 20, 2013
Date

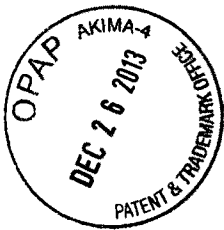
Katherine Stewart
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

28

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 032113 FRAME: 0425



PATENTS

Issued Patents

U.S. PATENTS REGISTRATIONS AND APPLICATIONS

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	09/013,980	5,945,933	1/27/1998	8/31/1999	Adaptive packet compression apparatus and method
Riverbed Technology, Inc.	09/103,621	6,266,337	6/23/1998	7/24/2001	PACKET RETRANSMISSION ELIMINATOR
Riverbed Technology, Inc.	09/103,621	6,266,337	6/23/1998	7/24/2001	Packet retransmission eliminator
Riverbed Technology, Inc.	09/218,953	6,121,903	12/22/1998	9/19/2000	ON-THE-FLY DATA RE-COMPRESSION
Riverbed Technology, Inc.	09/218,953	6,121,903	12/22/1998	9/19/2000	On-the-fly data re-compression
Riverbed Technology, Inc.	09/931,223	7,702,806	8/16/2001	4/20/2010	STATISTICS COLLECTION FOR NETWORK TRAFFIC
Riverbed Technology, Inc.	09/931,291	7,278,159	8/16/2001	10/2/2007	COORDINATED THWARTING OF DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	09/931,344	7,836,498	8/16/2001	11/16/2010	DEVICE TO PROTECT VICTIM SITES DURING DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	09/931,487	7,743,134	8/16/2001	6/22/2010	THWARTING SOURCE ADDRESS SPOOFING-BASED DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	09/931,558	7,124,440	8/16/2001	10/17/2006	MONITORING NETWORKS TRAFFIC DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	09/931,561	7,043,759	8/16/2001	5/9/2006	ARCHITECTURE TO THWART DENIAL OF SERVICE ATTACKS

1 "Owner" defined as of the date hereof.

#85377249v8

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	09/946,787	7,398,317	9/5/2001	7/8/2008	THWARTING CONNECTION-BASED DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	10/062,974	7,213,264	1/31/2002	5/1/2007	ARCHITECTURE TO THWART DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	10/066,232	7,743,415	1/31/2002	6/22/2010	DENIAL OF SERVICE ATTACKS CHARACTERIZATION
Riverbed Technology, Inc.	10/066,252	7,657,934	1/31/2002	2/2/2010	ARCHITECTURE TO THWART DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	10/137,744	7,581,023	4/30/2002	8/25/2009	ARCHITECTURE TO THWART DENIAL OF SERVICE ATTACKS
Riverbed Technology, Inc.	10/285,315	7,120,666	10/30/2002	10/10/2006	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATION SYSTEMS
Riverbed Technology, Inc.	10/285,330	6,667,700	10/30/2002	12/23/2003	CONTENT-BASED SEGMENTATION SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	10/640,405	8,069,225	8/12/2003	11/29/2011	TRANSPARENT CLIENT-SERVER TRANSACTION ACCELERATOR
Riverbed Technology, Inc.	10/640,459	7,650,416	8/12/2003	1/19/2010	CONTENT DELIVERY FOR CLIENT-SERVER PROTOCOLS WITH USER AFFINITIES USING CONNECTION END-POINT PROXIES
Riverbed Technology, Inc.	10/640,459	7,650,416	8/12/2003	1/19/2010	CONTENT DELIVERY FOR CLIENT-SERVER PROTOCOLS WITH USER AFFINITIES USING CONNECTION END-POINT PROXIES
Riverbed Technology, Inc.	10/640,562	7,318,100	8/12/2003	1/8/2008	COOPERATIVE PROXY AUTO-DISCOVERY AND CONNECTION INTERCEPTION
Riverbed Technology, Inc.	10/701,154		11/3/2003		CONNECTION BASED ANOMALY DETECTION
Riverbed Technology, Inc.	10/701,155	7,827,272	11/3/2003	11/2/2010	CONNECTION TABLE FOR

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	10/701,157	7,774,839	11/3/2003	8/10/2010	INTRUSION DETECTION
Riverbed Technology, Inc.	10/701,346	7,949,737	11/3/2003	5/24/2011	FEEDBACK MECHANISM TO MINIMIZE FALSE ASSERTIONS OF A NETWORK INTRUSION
Riverbed Technology, Inc.	10/701,356		11/3/2003		ROLE CORRELATION
Riverbed Technology, Inc.	10/701,376	7,363,656	11/3/2003	4/22/2008	AGGREGATOR FOR CONNECTION BASED ANOMALY DETECTION
Riverbed Technology, Inc.	10/701,381	8,191,136	11/3/2003	5/29/2012	EVENT DETECTION/ANOMALY CORRELATION HEURISTICS
Riverbed Technology, Inc.	10/701,392	8,090,809	11/3/2003	1/3/2012	CONNECTION BASED DENIAL OF SERVICE DETECTION
Riverbed Technology, Inc.	10/701,400	7,461,404	11/3/2003	12/2/2008	ROLE GROUPING
Riverbed Technology, Inc.	10/701,404	7,716,737	11/3/2003	5/11/2010	DETECTION OF UNAUTHORIZED ACCESS IN A NETWORK
Riverbed Technology, Inc.	10/702,073	7,664,963	11/3/2003	2/16/2010	CONNECTION BASED DETECTION OF SCANNING ATTACKS
Riverbed Technology, Inc.	10/731,687	6828925	12/8/2003	12/7/2004	DATA COLLECTORS IN CONNECTION-BASED INTRUSION DETECTION
Riverbed Technology, Inc.	10/803,167	7,698,730	3/16/2004	4/13/2010	CONTENT-BASED SEGMENTATION SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	10/880,332		6/28/2004		SERVICE DETECTION
Riverbed Technology, Inc.	10/880,333	7,929,534	6/28/2004	4/19/2011	RULE BASED ALERTING IN ANOMALY DETECTION
Riverbed Technology, Inc.	10/955,450	7,706,273	9/30/2004	4/27/2010	FLOW LOGGING FOR CONNECTION-BASED ANOMALY DETECTION
Riverbed Technology, Inc.	10/957,850	7,764,626	10/4/2004	7/27/2010	PORT TRACKING ON DYNAMICALLY NEGOTIATED PORTS
Riverbed Technology, Inc.	10/968,868	6961009	10/18/2004	11/1/2005	ROLE GROUPING OF HOSTS IN COMPUTER NETWORKS
Riverbed Technology, Inc.					CONTENT-BASED SEGMENTATION

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
					SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	10/974,386	7,760,653	10/26/2004	7/20/2010	STACKABLE AGGREGATION FOR CONNECTION BASED ANOMALY DETECTION
Riverbed Technology, Inc.	11/124,807		5/9/2005		RE-USING SERVER SIDE CONNECTIONS
Riverbed Technology, Inc.	11/124,830		5/9/2005		ISOLATED PROCESSING ENVIRONMENT
Riverbed Technology, Inc.	11/124,835	7,523,178	5/9/2005	4/21/2009	ASSUME RESPONSIBILITY ON FAILURE
Riverbed Technology, Inc.	11/145,201		6/3/2005		METHOD AND SYSTEM FOR MANAGING DATA
Riverbed Technology, Inc.	11/223,789	7116249	9/8/2005	10/3/2006	CONTENT-BASED SEGMENTATION SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	11/229,016	7428573	9/15/2005	9/23/2008	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATION SYSTEMS
Riverbed Technology, Inc.	11/242,540		10/3/2005		Peer signaling protocol and system for decentralized traffic management
Riverbed Technology, Inc.	11/243,068		10/3/2005		RELIABILITY AND AVAILABILITY OF DISTRIBUTED SERVERS
Riverbed Technology, Inc.	11/273,861	7853699	11/14/2005	12/14/2010	RULES-BASED TRANSACTION PREFETCHING USING CONNECTION END-POINT PROXIES
Riverbed Technology, Inc.	11/377,906		3/15/2006		CONNECTION FORWARDING
Riverbed Technology, Inc.	11/387,087		3/21/2006		EMAIL-BASED WORM PROPAGATION PROPERTIES
Riverbed Technology, Inc.	11/387,092		3/21/2006		WORM PROPAGATION MITIGATION

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	11/387,114	8,006,306	3/21/2006	8/23/2011	EXPLOIT-BASED WORM PROPAGATION MITIGATION
Riverbed Technology, Inc.	11/489,414		7/18/2006		SPLIT TERMINATION FOR SECURE COMMUNICATION PROTOCOLS
Riverbed Technology, Inc.	11/494,025		7/26/2006		CONGESTION MANAGEMENT OVER LOSSY NETWORK CONNECTIONS
Riverbed Technology, Inc.	11/494,352		7/26/2006		SERIAL CLUSTERING
Riverbed Technology, Inc.	11/494,364	8204058	7/26/2006	6/19/2012	AUTOMATIC FRAMING SELECTION
Riverbed Technology, Inc.	11/508,531	7477166	8/22/2006	1/13/2009	CONTENT-BASED SEGMENTATION SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	11/618,190	7733910	12/29/2006	6/8/2010	DATA SEGMENTATION USING SHIFT-VARYING PREDICATE FUNCTION FINGERPRINTING
Riverbed Technology, Inc.	11/683,325		3/7/2007		ADDRESS MANIPULATION FOR NETWORK TRANSPARENCY AND TROUBLESHOOTING
Riverbed Technology, Inc.	11/754,940		5/29/2007		THROTTLING OF PREDICTIVE ACKS IN AN ACCELERATED NETWORK COMMUNICATION SYSTEM
Riverbed Technology, Inc.	11/755,692	7769834	5/30/2007	8/3/2010	A SYSTEM FOR SELECTING A PROXY PAIR BASED ON CONFIGURATIONS OF AUTODISCOVERED PROXIES ON A NETWORK
Riverbed Technology, Inc.	11/756,584	7480240	5/31/2007	1/20/2009	SERVICE CURVE MAPPING
Riverbed Technology, Inc.	11/762,688		6/13/2007		COOPERATIVE OPERATION OF NETWORK TRANSPORT AND NETWORK QUALITY OF SERVICE MODULES
Riverbed Technology, Inc.	12/044,861		3/7/2008		METHOD AND APPARATUS FOR ACCELERATION BY PREFETCHING ASSOCIATED OBJECTS

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	12/106,272		4/19/2008		EVENT DETECTION/ANOMALY CORRELATION HEURISTICS
Riverbed Technology, Inc.	12/117,629		5/8/2008		A HYBRID SEGMENT-ORIENTED FILE SERVER AND WAN ACCELERATOR
Riverbed Technology, Inc.	12/135,114		6/6/2008		COOPERATIVE PROXY AUTO-DISCOVERY AND CONNECTION INTERCEPTION
Riverbed Technology, Inc.	12/140,184		6/16/2008		
Riverbed Technology, Inc.	12/191,514	8176186	8/14/2008	5/8/2012	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATIONS SYSTEMS
Riverbed Technology, Inc.	12/191,805	7849134	8/14/2008	12/7/2010	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATION SYSTEMS
Riverbed Technology, Inc.	12/210,087	7839781	9/12/2008	11/23/2010	SERVICE CURVE MAPPING
Riverbed Technology, Inc.	12/235,325	8,266,114	9/22/2008	9/11/2012	LOG STRUCTURED CONTENT ADDRESSABLE DEDUPLICATING STORAGE
Riverbed Technology, Inc.	12/235,548		9/22/2008		STORAGE SYSTEM FOR DATA VIRTUALIZATION AND DEDUPLICATION
Riverbed Technology, Inc.	12/266,054		11/6/2008		USER INTERFACE FOR NETWORK EVENTS AND TUNING
Riverbed Technology, Inc.	12/266,081		11/6/2008		IMPACT SCORING AND REDUCING FALSE POSITIVES
Riverbed Technology, Inc.	12/266,105		11/6/2008		DETECTING OUTLIERS IN NETWORK TRAFFIC TIME SERIES
Riverbed Technology, Inc.	12/280,760		10/24/2008		
Riverbed Technology, Inc.	12/296,062		11/6/2008		METHOD FOR PROVIDING WEB APPLICATION SECURITY
Riverbed Technology, Inc.	12/327,681		12/3/2008		SERVER CONFIGURATION SELECTION FOR SSL INTERCEPTION
Riverbed Technology, Inc.	12/327,693		12/3/2008		REDUCING LATENCY OF SPLIT-

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
					TERMINATED SECURE COMMUNICATION PROTOCOL SESSIONS
Riverbed Technology, Inc.	12/327,766		12/3/2008		TRANSACTION ACCELERATION USING APPLICATION-SPECIFIC LOCKING
Riverbed Technology, Inc.	12/330,197	7852237	12/8/2008	12/14/2010	CONTENT-BASED SEGMENTATION SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	12/331,257	8140690	12/9/2008	3/20/2012	CONNECTION FORWARDING
Riverbed Technology, Inc.	12/352,959		1/13/2009		INTERCEPTING AND SPLIT-TERMINATING AUTHENTICATED COMMUNICATION CONNECTIONS
Riverbed Technology, Inc.	12/391,967	7953869	2/24/2009	5/31/2011	COOPERATIVE PROXY AUTO-DISCOVERY AND CONNECTION INTERCEPTION
Riverbed Technology, Inc.	12/396,904		3/3/2009		SPLIT TERMINATION OF SECURE COMMUNICATION SESSIONS WITH MUTUAL CERTIFICATE-BASED AUTHENTICATION
Riverbed Technology, Inc.	12/398,898	7,984,160	3/5/2009	7/19/2011	ESTABLISHING A SPLIT-TERMINATED COMMUNICATION CONNECTION THROUGH A STATEFUL FIREWALL WITH NETWORK TRANSPARENCY
Riverbed Technology, Inc.	12/416,057		3/31/2009		VIRTUAL FILE SYSTEM STACK FOR DATA DEDUPLICATION
Riverbed Technology, Inc.	12/416,067		3/31/2009		LOG STRUCTURED CONTENT ADDRESSABLE DEDUPLICATING STORAGE
Riverbed Technology, Inc.	12/425,513		4/17/2009		CALL TO EXTERNAL PROCESS

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	12/495,815		7/1/2009		
Riverbed Technology, Inc.	12/496,405		7/1/2009		DEFINING NETWORK TRAFFIC PROCESSING FLOWS BETWEEN VIRTUAL MACHINES
Riverbed Technology, Inc.	12/496,430		7/1/2009		NETWORK TRAFFIC PROCESSING PIPELINE FOR VIRTUAL MACHINES IN A NETWORK DEVICE
Riverbed Technology, Inc.	12/496,466		7/1/2009		EXTENDED NETWORK PROTOCOLS FOR COMMUNICATION METADATA WITH VIRTUAL MACHINES
Riverbed Technology, Inc.	12/496,484		7/1/2009		MAINTAINING VIRTUAL MACHINES IN A NETWORK DEVICE
Riverbed Technology, Inc.	12/502,983		7/14/2009		METHODS AND SYSTEMS FOR SECURE COMMUNICATIONS USING A LOCAL CERTIFICATION AUTHORITY
Riverbed Technology, Inc.	12/511,248		7/29/2009		
Riverbed Technology, Inc.	12/554,113		9/4/2009		OVERLOAD BANDWIDTH REDUCTION
Riverbed Technology, Inc.	12/571,430	8,180,902	9/30/2009	5/15/2012	ESTABLISHING NETWORK CONNECTIONS BETWEEN TRANSPARENT NETWORK DEVICES
Riverbed Technology, Inc.	12/571,433	8,181,060	9/30/2009	5/15/2012	PREVENTING DATA CORRUPTION WITH TRANSPARENT NETWORK CONNECTIONS
Riverbed Technology, Inc.	12/615,340		11/10/2009		TRAFFIC MANAGEMENT APPARATUS
Riverbed Technology, Inc.	12/632,703		12/7/2009		CONTENT DELIVERY FOR CLIENT SERVER PROTOCOLS WITH USER AFFINITIES USING CONNECTION END-POINT PROXIES
Riverbed Technology, Inc.	12/649,627		12/30/2009		

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	12/729,127		3/22/2010		
Riverbed Technology, Inc.	12/730,179		3/23/2010		VIRTUALIZED DATA STORAGE OVER WIDE-AREA NETWORKS
Riverbed Technology, Inc.	12/730,185		3/23/2010		VIRTUALIZED DATA STORAGE SYSTEM ARCHITECTURE
Riverbed Technology, Inc.	12/730,192		3/23/2010		VIRTUALIZED DATA STORAGE SYSTEM CACHE MANAGEMENT
Riverbed Technology, Inc.	12/730,198		3/23/2010		VIRTUALIZED DATA STORAGE SYSTEM OPTIMIZATIONS
Riverbed Technology, Inc.	12/818,872		6/18/2010		VIRTUALIZED DATA STORAGE APPLICATIONS AND OPTIMIZATIONS
Riverbed Technology, Inc.	12/825,296		6/28/2010		SELECTING PROXIES FROM AMONG AUTODISCOVERED PROXIES
Riverbed Technology, Inc.	12/826,430		6/29/2010		METHOD AND APPARATUS FOR SPLIT-TERMINATING A SECURE NETWORK CONNECTION, WITH CLIENT AUTHENTICATION
Riverbed Technology, Inc.	12/843,754		7/26/2010		INTERCEPTION OF A CLOUD-BASED COMMUNICATION CONNECTION
Riverbed Technology, Inc.	12/853,729		8/10/2010		MANAGING CLIENT REQUESTS FOR DATA
Riverbed Technology, Inc.	12/878,992		9/9/2010		
Riverbed Technology, Inc.	12/893,894		9/29/2010		SYSTEM AND METHOD FOR WARMING AN OPTIMIZATION DEVICE
Riverbed Technology, Inc.	12/894,681		9/30/2010		RULES-BASED TRANSACTIONS PREFETCHING USING CONNECTION END-POINT PROXIES
Riverbed Technology, Inc.	12/895,811		9/30/2010		CLOUD SYNTHETIC BACKUPS
Riverbed Technology, Inc.	12/895,835		9/30/2010		CLOUD-BASED DISASTER RECOVERY OF BACKUP DATA AND METADATA

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	12/902,964		10/12/2010		SERVICE CURVE MAPPING
Riverbed Technology, Inc.	12/903,975		10/13/2010		METHOD OF IMPROVING PERFORMANCE OF A DATA STORAGE DEVICE
Riverbed Technology, Inc.	12/916,112	8271688	10/29/2010	9/18/2012	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATIONS SYSTEMS
Riverbed Technology, Inc.	12/940,017		11/4/2010		CONTENT-BASED SEGMENTATION SCHEME FOR DATA COMPRESSION IN STORAGE AND TRANSMISSION INCLUDING HIERARCHICAL SEGMENT REPRESENTATION
Riverbed Technology, Inc.	12/942,988		11/9/2010		DISASTER RECOVERY USING LOCAL AND CLOUD SPANNING DEDUPLICATED STORAGE SYSTEM
Riverbed Technology, Inc.	12/942,991		11/9/2010		WAN-OPTIMIZED LOCAL AND CLOUD SPANNING DEDUPLICATED STORAGE SYSTEM
Riverbed Technology, Inc.	12/978,056		12/23/2010		VIRTUAL DATA STORAGE DEVICES AND APPLICATIONS OVER WIDE AREA NETWORKS
Riverbed Technology, Inc.	12/637,476	7,886,218	12/14/2009	2/8/2011	METHODS AND DEVICES FOR POST PROCESSING RENDERED WEB PAGES HANDLING REQUESTS OF POST PROCESSED WEB PAGES
Riverbed Technology, Inc.	13/070,064		3/23/2011		
Riverbed Technology, Inc.	13/070,089		3/23/2011		
Riverbed Technology, Inc.	13/074,602		3/29/2011		
Riverbed Technology, Inc.	13/074,923		3/29/2011		
Riverbed Technology, Inc.	13/082,186	8316118	4/7/2011	11/20/2012	COOPERATIVE PROXY AUTO-DISCOVERY AND CONNECTION INTERCEPTION
Riverbed Technology, Inc.	13/115,692		5/25/2011		APPARATUS FOR ROUTING REQUESTS

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	13/152,152	8,255,544	6/2/2011	8/28/2012	ESTABLISHING A SPLIT-TERMINATED COMMUNICATION CONNECTION THROUGH A STATEFUL FIREWALL, WITH NETWORK TRANSPARENCY
Riverbed Technology, Inc.	13/166,321		6/22/2011		BOOTING DEVICES USING VIRTUAL STORAGE ARRAYS OVER WIDE-AREA NETWORKS
Riverbed Technology, Inc.	13/170,063		6/27/2011		
Riverbed Technology, Inc.	13/218,504		8/26/2011		MONITORING CONNECTIONS
Riverbed Technology, Inc.	13/249,177		9/29/2011		
Riverbed Technology, Inc.	13/249,183		9/29/2011		
Riverbed Technology, Inc.	13/249,195		9/29/2011		
Riverbed Technology, Inc.	13/249,201		9/29/2011		
Riverbed Technology, Inc.	13/250,200		9/30/2011		
Riverbed Technology, Inc.	13/251,148	8312101	9/30/2011	11/13/2012	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATIONS SYSTEMS
Riverbed Technology, Inc.	13/282,393		10/26/2011		
Riverbed Technology, Inc.	13/315,619		12/9/2011		
Riverbed Technology, Inc.	13/341,825		12/30/2011		
Riverbed Technology, Inc.	13/410,032		3/1/2012		CONNECTION FORWARDING
Riverbed Technology, Inc.	13/410,689		3/2/2012		
Riverbed Technology, Inc.	13/415,815		3/8/2012		
Riverbed Technology, Inc.	13/415,819		3/8/2012		
Riverbed Technology, Inc.	13/415,821		3/8/2012		
Riverbed Technology, Inc.	13/415,823		3/8/2012		
Riverbed Technology, Inc.	13/436,873		3/31/2012		
Riverbed Technology, Inc.	13/436,874		3/31/2012		
Riverbed Technology, Inc.	13/441,681		4/6/2012		TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATIONS

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	13/453,731		4/23/2012		SYSTEMS
Riverbed Technology, Inc.	13/459,065	8321580	4/27/2012	11/27/2012	TRANSACTION ACCELERATOR FOR CLIENT-SERVER COMMUNICATION SYSTEMS
Riverbed Technology, Inc.	13/460,392		4/30/2012		ESTABLISHING NETWORK CONNECTIONS BETWEEN TRANSPARENT NETWORK DEVICES
Riverbed Technology, Inc.	13/464,713		5/4/2012		
Riverbed Technology, Inc.	13/464,714		5/4/2012		
Riverbed Technology, Inc.	13/471,956		5/15/2012		
Riverbed Technology, Inc.	13/491,501		6/7/2012		
Riverbed Technology, Inc.	13/530,740		6/22/2012		
Riverbed Technology, Inc.	13/536,770		6/28/2012		
Riverbed Technology, Inc.	13/589,896		8/20/2012		
Riverbed Technology, Inc.	13/650,354		10/12/2012		
Riverbed Technology, Inc.	13/670,753		11/7/2012		
Riverbed Technology, Inc.	61/494,390		6/7/2011		
Riverbed Technology, Inc.	61/502,856		6/29/2011		
Riverbed Technology, Inc.	61/503,487		6/30/2011		
Riverbed Technology, Inc.	61/606,893		3/5/2012		
Riverbed Technology, Inc.	61/699,730		9/11/2012		
Riverbed Technology, Inc.	61/730,392		11/27/2012		
Riverbed Technology, Inc.	95/002,308		9/14/2012		Transaction Accelerator for Client-Server Communications Systems
Riverbed Technology, Inc.	95/002,310		9/14/2012		Transaction Accelerator for Client-Server Communications Systems
Riverbed Technology, Inc.	PCT/US2009/004084		7/14/2009		
Riverbed Technology, Inc.	PCT/US2011/030776		3/31/2011		
Riverbed Technology, Inc.	PCT/US2012/28382		3/8/2012		ACCESSING NETWORK TRAFFIC DATA AT MULTIPLE TIME SCALES

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
					AND LEVELS OF DETAIL

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	09/151,748	11.09.1998	6,240,416	29.05.2001	DISTRIBUTED METADATA SYSTEM AND METHOD
Riverbed Technology, Inc.	09/108,503	01.07.1998	6,278,963	21.08.2001	SYSTEM ARCHITECTURE FOR DISTRIBUTION OF DISCRETE-EVENT SIMULATIONS
Riverbed Technology, Inc.	09/345,249	30.06.1999	6,600,752	29.07.2003	METHOD FOR REDUCING EXCESS QUEUE TIME IN COMMUNICATION NODES
Riverbed Technology, Inc.	10/186,401	01.07.2002	6,643,613	04.11.2003	SYSTEM AND METHOD FOR MONITORING PERFORMANCE METRICS
Riverbed Technology, Inc.	09/539,434	30.03.2000	6,674,717	06.01.2004	METHOD FOR REDUCING PACKET LOSS AND INCREASING INTERNET FLOW BY FEEDBACK CONTROL
Riverbed Technology, Inc.	09/624,092	24.07.2000	6,820,042	16.11.2004	MIXED MODE NETWORK SIMULATOR
					MONITORING AND CONTROL ENGINE FOR MULTI-TIERED SERVICE-LEVEL MANAGEMENT OF DISTRIBUTED WEB-APPLICATION SERVERS
Riverbed Technology, Inc.	09/682,324	20.08.2001	6,823,382	23.11.2004	METHOD FOR CORRELATING CONGESTION TO PERFORMANCE METRICS IN INTERNET TRAFFIC
Riverbed Technology, Inc.	10/205,101	23.07.2002	6,928,472	09.08.2005	METHOD FOR REDUCING PACKET LOSS BY PHASE TRANSITION IDENTIFICATION IN COMMUNICATION NETWORKS
Riverbed Technology, Inc.	09/846,449	30.04.2001	6,947,381	20.09.2005	SOFTWARE INSTRUMENTATION METHOD AND APPARATUS
Riverbed Technology, Inc.	09/879,838	21.06.2001	6,968,540	22.11.2005	

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	09/846,174	30.04.2001	6,990,071	24.01.2006	METHOD FOR REDUCING FETCH TIME IN A CONGESTED COMMUNICATION NETWORK
Riverbed Technology, Inc.	09/846,450	30.04.2001	7,072,297	04.07.2006	METHOD FOR DYNAMICAL IDENTIFICATION OF NETWORK CONGESTION CHARACTERISTICS
Riverbed Technology, Inc.	10/198,689	18.07.2002	7,076,695	11.07.2006	SYSTEM AND METHODS FOR ADAPTIVE THRESHOLD DETERMINATION FOR PERFORMANCE METRICS
Riverbed Technology, Inc.	10/325,148	20.12.2002	7,139,692	21.11.2006	FLOW PROPAGATION ANALYSIS USING ITERATIVE SIGNALING
Riverbed Technology, Inc.	10/243,534	13.09.2002	7,219,034	15.05.2007	SYSTEM AND METHODS FOR DISPLAY OF TIME-SERIES DATA DISTRIBUTION
					SIMULATION WITH CONVERGENCE-DETECTION
Riverbed Technology, Inc.	10/112,179	28.03.2002	7,219,047	15.05.2007	SKIP-AHEAD
Riverbed Technology, Inc.	09/854,321	11.05.2001	7,248,564	24.07.2007	METHOD FOR DETERMINING NETWORK CONGESTION AND LINK CAPACITIES
Riverbed Technology, Inc.	10/821,558	09.04.2004	7,254,389	07.08.2007	WIRELESS LINK SIMULATION WITH GENERIC CACHING
Riverbed Technology, Inc.	10/195,905	15.07.2002	7,277,843	02.10.2007	METHOD FOR REAL-TIME AUTO-DETECTION OF OUTLIERS
Riverbed Technology, Inc.	09/846,452	30.04.2001	7,333,431	19.02.2008	METHOD FOR ACCELERATING TCP FLOWS IN COMMUNICATION NETWORKS WITH DYNAMIC CONTROL
Riverbed Technology, Inc.	10/195,904	15.07.2002	7,337,206	26.02.2008	METHOD FOR DETECTING CONGESTION IN INTERNET TRAFFIC
Riverbed Technology, Inc.	10/923,576	20.08.2004	7,443,870	28.10.2008	METHOD FOR PRIORITIZING GROUPED DATA REDUCTION

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	11/832,319	01.08.2007	7,444,263	28.10.2008	PERFORMANCE METRIC COLLECTION AND AUTOMATED ANALYSIS
Riverbed Technology, Inc.	10/923,214	20.08.2004	7,469,203	23.12.2008	WIRELESS NETWORK HYBRID SIMULATION
Riverbed Technology, Inc.	10/205,135	23.07.2002	7,509,229	24.03.2009	BAYESIAN APPROACH TO CORRELATING CONGESTION TO PERFORMANCE METRICS IN INTERNET TRAFFIC
Riverbed Technology, Inc.	11/061,978	18.02.2005	7,519,700	14.04.2009	Method and System for Topological Navigation of Hierarchical Data Groups
Riverbed Technology, Inc.	09/846,451	30.04.2001	7,551,560	23.06.2009	Method of Reducing Packet Loss by Resonance Identification in Communication Networks
Riverbed Technology, Inc.	10/914,603	09.08.2004	7,570,669	04.08.2009	Synchronizing Packet Traces
Riverbed Technology, Inc.	11/173,758	30.06.2005	7,593,351	22.09.2009	Method and System for Collecting and Consolidating Network Traffic Information
Riverbed Technology, Inc.	11/778,053	15.07.2007	7,639,609	29.12.2009	Controlled Incremental Multi-Protocol Label Switching (MPLS) Traffic Engineering
Riverbed Technology, Inc.	11/835,130	07.08.2007	7,672,238	02.03.2010	Mapping Off-Network Traffic to an Administered Network
Riverbed Technology, Inc.	11/494,692	27.07.2006	7,688,743	30.03.2010	Tracing Routing Differences
Riverbed Technology, Inc.	11/503,553	11.08.2006	7,693,699	06.04.2010	Incremental Update of Virtual Devices in a Modeled Network
Riverbed Technology, Inc.	11/173,752	30.06.2005	7,729,240	01.06.2010	Method and System for Identifying Duplicate Packets in Flow-Based Network Monitoring System
Riverbed Technology, Inc.	11/180,879	13.07.2005	7,729,256	01.06.2010	Correlating Packets
Riverbed Technology, Inc.	11/506,665	18.08.2006	7,730,099	01.06.2010	Storage and Retrieval of Richly Typed Hierarchical Network Models
Riverbed Technology, Inc.	12/098,436	06.04.2008	7,813,281	12.10.2010	Interactive MPLS Traffic Engineering
Riverbed Technology, Inc.	11/776,736	12.07.2007	7,839,790	23.11.2010	Network Congestion Analysis

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	11/752,283	22.05.2007	7,843,815	30.11.2010	Estimation of Time-Varying Latency Based on Network Trace Information
Riverbed Technology, Inc.	12/195,393	20.08.2008	7,843,840	30.11.2010	Traffic Independent Survivability Analysis
Riverbed Technology, Inc.	11/875,900	20.10.2007	7,844,423	30.11.2010	Modeling and Simulating Wireless MAC Protocols
Riverbed Technology, Inc.	10/845,517	14.05.2004	7,848,259	07.12.2010	System and Methods for Inferring Services on a Network
Riverbed Technology, Inc.	11/397,359	04.04.2006	7,885,200	08.02.2011	Application Delay Analysis
Riverbed Technology, Inc.	12/397,356	04.03.2009	7,885,206	08.02.2011	Method and System for Topological Navigation of Hierarchical Data Groups
Riverbed Technology, Inc.	11/779,429	18.07.2007	7,889,641	15.02.2011	Path Flow Formulation for Fast Reroute Bypass Tunnels in MPLS
Riverbed Technology, Inc.	11/506,648	18.08.2006	7,894,369	22.02.2011	Network Physical Connection Inference for IP Tunnels
Riverbed Technology, Inc.	12/478,775	05.06.2009	8,005,006	23.08.2011	Discovery of Multiple-Parent Dependencies in Network Performance Analysis
Riverbed Technology, Inc.	11/125,562	10.05.2005	8,005,019	23.08.2011	Fuzzy Routing
Riverbed Technology, Inc.	11/735,474	15.04.2007	8,005,945	23.08.2011	Aggregating Policy Criteria Parameters into Ranges for Efficient Network Analysis
Riverbed Technology, Inc.	10/903,585	02.08.2004	8,010,643	30.08.2011	System and Methods for Simulating Traffic Generation
Riverbed Technology, Inc.	11/829,925	29.07.2007	8,089,904	03.01.2012	Link Inference in Large Networks Based on Incomplete Data
Riverbed Technology, Inc.	11/755,089	30.05.2007	8,095,645	10.01.2012	Traffic Flow Inference Based on Link Loads and Gravity Measures
Riverbed Technology, Inc.	12/060,271	01.04.2008	8,095,649	10.01.2012	Network Delay Analysis Including Parallel Delay Effects
Riverbed Technology, Inc.	10/903,586	02.08.2004	8,130,661	06.03.2012	Systems and Methods for Intelligent Probe Testing
Riverbed Technology, Inc.	11/494,441	27.07.2006	8,130,759	06.03.2012	Routing Validation

Owner	Application No.	Application Date	Patent/ Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	11/834,058	06.08.2007	8,135,990	13.03.2012	Multi-Variate Network Survivability Analysis
Riverbed Technology, Inc.	11/507,114	19.08.2006	8,140,665	20.03.2012	Managing Captured Network Traffic Data
Riverbed Technology, Inc.	12/498,786	07.07.2009	8,144,627	27.03.2012	Inferring Connectivity in the Presence of Conflicting Network Data
Riverbed Technology, Inc.	11/844,765	24.08.2007	8,159,971	17.04.2012	System and Method for Inferring Connectivity Among Network Segments in the Absence of Configuration Information
Riverbed Technology, Inc.	12/192,103	14.08.2008	8,165,038	24.04.2012	Network Physical Connection Inference for IP Tunnels
Riverbed Technology, Inc.	12/176,317	18.07.2008	8,166,004	24.04.2012	Verifying Data Consistency Among Multiple Structured Files
Riverbed Technology, Inc.	11/358,536	21.02.2006	8,195,443	05.06.2012	Predictive Modeling and Graphical Editing of Application Logic
Riverbed Technology, Inc.	11/832,923	02.08.2007	8,195,736	05.06.2012	Mapping Virtual Internet Protocol Addresses
Riverbed Technology, Inc.	12/143,799	22.06.2008	8,228,804	24.07.2012	Tuning Routing Metrics to Reduce Maximum Link Utilization and/or Provide Failure Resiliency
Riverbed Technology, Inc.	11/503,554	11.08.2006	8,230,491	24.07.2012	Automatic Access to Network Devices Using Various Authentication Schemes
Riverbed Technology, Inc.	11/501,388	09.08.2006	8,249,094	21.08.2012	Wireless MAC and Link-Layer Simulation Modeling
Riverbed Technology, Inc.	12/196,044	21.08.2008	8,255,906	28.08.2012	Modeling Overhead for a Plurality of Virtualization Technologies in a Computer System
Riverbed Technology, Inc.	12/861,832	24.08.2010	8,296,424	23.10.2012	Network Capacity Planning
Riverbed Technology, Inc.	61/611,781	16.03.2012			
Riverbed Technology, Inc.	61/588,357	19.01.2012			
Riverbed Technology, Inc.	61/576,172	15.12.2011			
Riverbed Technology, Inc.	61/568,678	09.12.2011			
Riverbed Technology, Inc.	61/559,923	15.11.2011			

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	61/559,917	15.11.2011			
Riverbed Technology, Inc.	13/654,859	18.10.2012			
Riverbed Technology, Inc.	13/657,541	22.10.2012			
Riverbed Technology, Inc.	13/645,688	05.10.2012			
Riverbed Technology, Inc.	13/595,372	27.08.2012			
Riverbed Technology, Inc.	13/590,088	20.08.2012			
Riverbed Technology, Inc.	13/570,572	09.08.2012			
Riverbed Technology, Inc.	13/568,988	07.08.2012			
Riverbed Technology, Inc.	13/556,178	23.07.2012			
Riverbed Technology, Inc.	13/556,174	23.07.2012			
Riverbed Technology, Inc.	13/487,895	04.06.2012			
Riverbed Technology, Inc.	13/487,863	04.06.2012	2012/0246307	27.09.2012	Mapping Virtual Internet Protocol Addresses
Riverbed Technology, Inc.	13/454,050	23.04.2012	2012/0209867	16.08.2012	Verifying Data Consistency Among Multiple Structured Files
Riverbed Technology, Inc.	13/454,034	23.04.2012	2012/0207058	16.08.2012	Network Physical Connection Inference for IP Tunnels
					System and Method for Inferring Connectivity Among Network Segments in the Absence of Configuration Information
Riverbed Technology, Inc.	13/448,389	16.04.2012	2012/0201168	09.08.2012	
Riverbed Technology, Inc.	13/444,583	11.04.2012			Inferring Connectivity in the Presence of Conflicting Network Data
Riverbed Technology, Inc.	13/430,541	26.03.2012	2012/0182903	19.07.2012	Managing Captured Network Traffic Data
Riverbed Technology, Inc.	13/424,005	19.03.2012	2012/0179816	12.07.2012	
Riverbed Technology, Inc.	13/412,623	06.03.2012			
Riverbed Technology, Inc.	13/412,615	06.03.2012	2012/0163227	28.06.2012	Systems and Methods for Intelligent Probe Testing
					Routing Validation Methods and Systems Based on Simulating Route Convergence
Riverbed Technology, Inc.	13/412,604	05.03.2012	2012/0163197	28-06-2012	

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	13/400,973	21.02.2012			
Riverbed Technology, Inc.	13/365,496	03.02.2012			
Riverbed Technology, Inc.	13/365,484	03.02.2012	2012/0246287	27.09.2012	Correlating Input and Output Requests between Client and Server Components in a Multi-Tier Application
Riverbed Technology, Inc.	13/346,453	09.01.2012	2012/0179813	12.07.2012	Traffic Flow Inference Based on Link Loads and Gravity Measures
Riverbed Technology, Inc.	13/333,955	09.05.2007			
Riverbed Technology, Inc.	13/301,688	11.21.2011			
Riverbed Technology, Inc.	13/210,351	15.08.2011	2012/0207161	16.08.2012	Network Path Discovery and Analysis
Riverbed Technology, Inc.	13/186,776	20.07.2011	2011/0276887	10.11.2011	Organizing, Displaying, and Manipulating Network Traffic Data
Riverbed Technology, Inc.	13/165,728	21.06.2011	2011/0252136	13.10.2011	Fuzzy Routing
Riverbed Technology, Inc.	13/165,589	21.06.2011	2011/0320242	29-12-2011	Multi-Variate Sales Performance Analysis System
Riverbed Technology, Inc.	13/117,105	26.05.2011	2011/0296012	01.12.2011	Multi-Tier Message Correlation
Riverbed Technology, Inc.	13/021,709	04.02.2011	2011/0197191	11.08.2011	Correcting Packet Timestamps in Virtualized Environments
Riverbed Technology, Inc.	12/963,481	08.12.2010	2011/0145715	16.06.2011	Web Transaction Analysis
Riverbed Technology, Inc.	12/907,225	19.10.2010	2011/0040864	17.02.2011	System and Methods for Inferring Services on a Network
Riverbed Technology, Inc.	12/900,357	07.10.2010	2011/0085450	14.04.2011	Network Path Discovery and Analysis
Riverbed Technology, Inc.	12/900,348	07.10.2010	2011/0085449	14.04.2011	Network Path Discovery and Analysis
Riverbed Technology, Inc.	12/705,570	13.02.2010	2010/0211754	19.08.2010	Memory Utilization Analysis
Riverbed Technology, Inc.	12/652,499	05.01.2010	2010/0138688	03.06.2010	Managing Service Levels on a Shared Network
Riverbed Technology, Inc.	12/623,592	23.11.2009	2010/0128623	27.05.2010	End-to-End Analysis of Transactions in Networks with Traffic-Altering Devices
Riverbed Technology, Inc.	12/544,317	20.08.2009	2010/0046395	25.02.2010	Incremental and Targeted Auto-Discovery of Network Device

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	12/435,932	05.05.2009	2009/0279496	12.11.2009	Dedicated and Priority Based Allocation in Multi-Hop Wireless Systems
Riverbed Technology, Inc.	12/176,325	18.07.2008	2009/0055802	26.02.2009	Selective Monitoring of Software Applications
Riverbed Technology, Inc.	12/023,026	30.01.2008	2008/0189353	07.08.2008	System and Methods for Inferring Services on a Network
Riverbed Technology, Inc.	11/941,186	16.11.2007	2008/0120081	22.05.2008	Modeling and Simulating Flow Propagation in Dynamic Bandwidth Systems
Riverbed Technology, Inc.	11/838,417	14.08.2007	2008/0043627	21.02.2008	Network Simulation and Analysis Using Operational Forwarding Data
Riverbed Technology, Inc.	11/776,721	12.07.2007	2008/0022357	24.01.2008	Assessing Network and Device Compliance with Security Policies
Riverbed Technology, Inc.	11/776,708	12.07.2007	2008/0016056	17.01.2008	Identifying and Reporting Differences in Network Activity Data Files
Riverbed Technology, Inc.	11/678,595	24.02.2007	2007/0214206	13.09.2007	User-Configurable Network Performance Monitors
Riverbed Technology, Inc.	11/506,651	18.08.2006	2007/0097883	03.05.2007	Generation of a Network Topology Hierarchy
Riverbed Technology, Inc.	11/506,650	18.08.2006	2007/0043547	22.02.2007	Integrated Debugging Environment for a Network Simulation
Riverbed Technology, Inc.	11/505,228	16.08.2006	2007/0058570	15.03.2007	A Method for Identifying and Analyzing Network Configuration Differences
Riverbed Technology, Inc.	11/505,176	16.08.2006	2007/0043861	22.02.2007	Capture, Analysis, and Visualization of Concurrent System and Network Behavior of an Application
Riverbed Technology, Inc.	11/505,171	16.08.2006	2007/0157286	05.07.2007	Analyzing Security Compliance Within a Network
Riverbed Technology, Inc.	11/503,555	11.08.2006	2007/0044032	22.02.2007	Visualizing a Complex Network Based on a Set of Objects of Interest
Riverbed Technology, Inc.	11/501,389	09.08.2006	2007/0043752	22.02.2007	Disparate Network Model Synchronization
Riverbed Technology, Inc.	11/490,586	21.07.2006	2007/0041335	22.02.2007	Automatic Estimation of Node Location Based on Trace Information

Owner	Application No.	Application Date	Patent / Publication No.	Registration / Publication Date	Title
Riverbed Technology, Inc.	11/358,538	21.02.2006	2006/0190231	24.08.2006	Tracking, Analyzing, and Visualizing Application Delay
Riverbed Technology, Inc.	11/180,888	13.07.2005	2006/0015604	19.01.2006	Network Difference Reporting
Riverbed Technology, Inc.	11/180,878	13.07.2005	2006/0013228	19.01.2006	Packet Tracing
Riverbed Technology, Inc.	11/092,226	28.03.2005	2006/0253566	09.11.2006	Method and System for Managing a Distributed Network of Network Monitoring Devices
Riverbed Technology, Inc.	11/001,985	01.12.2004	2006/0075094	06.04.2006	Method for Discovery and Troubleshooting of Network Application Usage and Performance Issues
Riverbed Technology, Inc.	10/937,986	10.09.2004	2006/0069768	30.03.2006	Method and System for Grouping Diagnostic Information
Riverbed Technology, Inc.	10/914,602	09.08.2004	2005/0047440	03.03.2005	Division of Data Structures for Efficient Simulation
Riverbed Technology, Inc.	10/912,704	05.08.2004	2005/0044215	24.02.2005	System for Automatic Import, Analysis, and Reporting of Network Configuration and Status Information

**SCHEDULE II
TO
RELEASE OF PATENT SECURITY INTEREST**

PATENTS

Patent Registrations and Applications

Owner ²	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	12/940,017	8508389	11/4/2010	8/13/2013	Content-based segmentation scheme for data compression in storage and transmission including hierarchical segment representation
Riverbed Technology, Inc.	10/701,154	8504879	11/3/2003	8/6/2013	Connection based anomaly detection
Riverbed Technology, Inc.	12/818,872	8504670	6/18/2010	8/6/2013	Virtualized data storage applications and optimizations
Riverbed Technology, Inc.	12/176,325	8495577	7/18/2008	7/23/2013	Selective monitoring of software applications
Riverbed Technology, Inc.	11/505,228	8493883	8/16/2006	7/23/2013	Identifying and analyzing network configuration differences
Riverbed Technology, Inc.	12/623,592	8493871	11/23/2009	7/23/2013	End-to end analysis of transactions in networks with traffic-altering devices
Riverbed Technology, Inc.	10/701,356	8479057	11/3/2003	7/2/2013	Aggregator for connection based anomaly detection
Riverbed Technology, Inc.	12/327,693	8478986	12/3/2008	7/2/2013	Reducing latency of split-terminated secure communication protocol sessions
Riverbed Technology, Inc.	12/843,754	8473620	7/26/2010	6/25/2013	Interception of a cloud-based communication connection
Riverbed Technology, Inc.	12/266,081	8472328	11/6/2008	6/25/2013	Impact scoring and reducing false positives
Riverbed Technology, Inc.	12/140,184	8463941	6/16/2008	6/11/2013	Cross-session protocol acceleration and its application to storage area network file systems
Riverbed Technology, Inc.	12/106,272	8458795	4/19/2008	6/4/2013	Event detection/anomaly correlation heuristics
Riverbed Technology, Inc.	11/683,325	8447802	3/7/2007	5/21/2013	Address manipulation to provide for the use of network tools even when transaction acceleration is in

² "Owner" defined as of the date hereof.

Owner	Application No.	Patent No.	Filing Date	Issue Date	Title
Riverbed Technology, Inc.	12/826,430	8438628	6/29/2010	5/7/2013	use over a network
Riverbed Technology, Inc.	11/145,201	8412685	6/3/2005	4/2/2013	Method and apparatus for split-terminating a secure network connection, with client authentication
Riverbed Technology, Inc.	11/494,352	8411570	7/26/2006	4/2/2013	Method and system for managing data
Riverbed Technology, Inc.	13/441,681	8402085	4/6/2012	3/19/2013	Serial Clustering
					Transaction accelerator for client-server communications systems
Riverbed Technology, Inc.	12/023,026	8400941	1/30/2008	3/19/2013	Systems and methods for inferring services on a network
Riverbed Technology, Inc.	13/410,032	8386637	3/1/2012	2/26/2013	Connection Forwarding
Riverbed Technology, Inc.	12/495,432	8370309	6/30/2009	2/5/2013	Revision-tolerant data de-duplication
Riverbed Technology, Inc.	11/243,068	8364815	10/3/2005	1/29/2013	Reliability and availability of distributed servers
Riverbed Technology, Inc.	12/705,570	8359450	2/13/2010	1/22/2013	Memory utilization analysis
Riverbed Technology, Inc.	13/289,377	8244691	11/4/2011	8/14/2012	Dictionary architecture and methodology for revision-tolerant data de-duplication
Riverbed Technology, Inc.	12/549,787	8078593	8/28/2009	12/13/2011	Dictionary architecture and methodology for revision-tolerant data de-duplication
Riverbed Technology, Inc.	61/818,954		5/3/2013		
Riverbed Technology, Inc.	61/818,951		5/3/2013		
Riverbed Technology, Inc.	61/814,016		4/19/2013		
Riverbed Technology, Inc.	61/787,122		3/15/2013		
Riverbed Technology, Inc.	61/781,856		3/14/2013		
Riverbed Technology, Inc.	61/781,838		3/14/2013		
Riverbed Technology, Inc.	61/763,165		2/11/2013		
Riverbed Technology, Inc.	61/751,310		1/11/2013		
Riverbed Technology, Inc.	13/975,049		8/23/2013		
Riverbed Technology, Inc.	13/965,605		8/13/2013		
Riverbed Technology, Inc.	13/949,163		7/23/2013		
Riverbed Technology, Inc.	13/949,162		7/23/2013		
Riverbed Technology, Inc.	13/918,329		6/14/2013		
Riverbed Technology, Inc.	13/874,044		4/30/2013		
Riverbed Technology, Inc.	13/746,273		1/21/2013		
Riverbed Technology, Inc.	13/745,055		1/18/2013		Using Routing Information and Inter-layer

Owner ²	Application No.	Patent No.	Filing Date	Issue Date	Title
					Relationships to Determine Utilization in a Transport Network



RELEASE OF PATENT SECURITY INTEREST

This RELEASE is made as of December 20, 2013 by MORGAN STANLEY & CO. LLC, as Collateral Agent for the Lenders (the "**Secured Party**").

WITNESSETH:

WHEREAS, the Secured Party, Riverbed Technology, Inc., a Delaware corporation ("**Riverbed**"), and OPNET Technologies LLC, a Delaware limited liability company (formerly known as OPNET Technologies, Inc.) (each a "**Grantor**" and collectively, the "**Grantors**"), are parties to that certain Guarantee and Collateral Agreement, dated as of December 18, 2012 (the "**Guarantee and Collateral Agreement**") in favor of the Secured Party and Morgan Stanley Senior Funding, Inc., as Administrative Agent;

WHEREAS, in connection with the Guarantee and Collateral Agreement, the Secured Party and the Grantors are parties to that certain Patent Security Agreement, dated as of December 18, 2012 (the "**2012 Patent Security Agreement**"), pursuant to which the Grantors granted a security interest to the Secured Party in the Patent Collateral (as defined in the 2012 Patent Security Agreement) (the "**2012 Patent Collateral**") set forth in Schedule I attached hereto;

WHEREAS, the Secured Party recorded the 2012 Patent Security Agreement with the Assignment Recordation Branch of the U.S. Patent and Trademark Office on December 20, 2012 at Reel 029646, Frame 0060;

WHEREAS, in connection with the Guarantee and Collateral Agreement, the Secured Party and Riverbed are parties to that certain Patent Security Agreement, dated as of September 13, 2013 (the "**2013 Patent Security Agreement**" and, together with the 2012 Patent Security Agreement, the "**Patent Security Agreements**"), pursuant to which Riverbed granted a security interest to the Secured Party in the Patent Collateral (as defined in the 2013 Patent Security Agreement) (the "**2013 Patent Collateral**" and, together with the 2012 Patent Collateral, the "**Pledged Patent Collateral**") set forth in Schedule II attached hereto;

WHEREAS, the Secured Party recorded the 2013 Patent Security Agreement with the U.S. Patent and Trademark Office on September 13, 2013 at Reel 031216, Frame 0968; and

WHEREAS, pursuant to that certain Patent Assignment Agreement dated April 1, 2013 (the "**Patent Assignment Agreement**"), OPNET TECHNOLOGIES LLC sold, conveyed, assigned, transferred, and delivered the entire right, title and interest in and to, or arising under its Patents (as defined in the Patent Security Agreement) to RIVERBED TECHNOLOGY, INC.;

WHEREAS, RIVERBED TECHNOLOGY, INC. recorded the Patent Assignment Agreement with the U.S. Patent and Trademark Office on May 21, 2013 at Reel 030462, Frame 0135, Reel 030462, Frame 0148 and Reel 030462, Frame 0372; and

WHEREAS, the Secured Party has agreed to release its rights under the Guarantee and Collateral Agreement and each of the Patent Security Agreements and to reconvey to Riverbed any and all rights Riverbed may possess in and to the Pledged Patent Collateral.

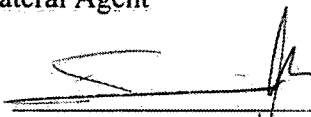
NOW THEREFORE, in consideration for the premises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

1. The Secured Party hereby terminates, releases and discharges its security interest in the Pledged Patent Collateral originally granted to the Secured Party pursuant to the Guarantee and Collateral Agreement and each Patent Security Agreement and releases all other rights it may have to the Pledged Patent Collateral under the Guarantee and Collateral Agreement and any Patent Security Agreement.
2. The Secured Party, to the extent granted in the Guarantee and Collateral Agreement or any Patent Security Agreement, hereby assigns, grants and otherwise re-conveys to Riverbed, without any representation, recourse or undertaking by the Secured Party, all of its right, title and interest (if any) in and to the Pledged Patent Collateral originally granted to the Secured Party pursuant to such Guarantee and Collateral Agreement or Patent Security Agreement.
3. Upon the request of the Grantors, the Secured Party, at the Grantors' expense, further agrees to execute all documents necessary to demonstrate and confirm the parties' intent under this Release of Patent Security Interest.

[Signature Page Follows]

IN WITNESS WHEREOF, the Secured Party has caused this Release of Patent Security Interest to be duly executed by its duly authorized officer as of the day and year first above written.

MORGAN STANLEY & CO. LLC, as
Collateral Agent

By: 

Name: STEPHEN B. KING
Title: Executive Director

[Signature Page – Release of Patent Security Interest]