PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5174685

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF PATENTS

CONVEYING PARTY DATA

Name	Execution Date
CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH	10/02/2018

RECEIVING PARTY DATA

Name:	BMC SOFTWARE, INC.	
Street Address:	2103 CITYWEST BOULEVARD	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77042-2828	
Name:	BLADELOGIC, INC.	
Street Address:	2103 CITYWEST BOULEVARD	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77042-2828	
Name:	BMC ACQUISITION L.L.C.	
Street Address:	2103 CITYWEST BOULEVARD	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77042-2828	

PROPERTY NUMBERS Total: 530

Property Type	Number
Patent Number:	6983321
Patent Number:	7774458
Patent Number:	7930396
Patent Number:	5664217
Patent Number:	5579515
Patent Number:	6163783
Patent Number:	5892907
Patent Number:	6115704
Patent Number:	5511220
Patent Number:	5761676

PATENT REEL: 047198 FRAME: 0468

505127923

Property Type	Number
Patent Number:	5625817
Patent Number:	5655081
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Patent Number:	6643614
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Application Number:	15620447
Application Number:	15809380
Application Number:	15658896
Application Number:	15852758
Application Number:	15826192

CORRESPONDENCE DATA

Fax Number: (800)914-4240

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 614-280-3566

Email: james.murray@wolterskluwer.com

Correspondent Name: JAMES MURRAY

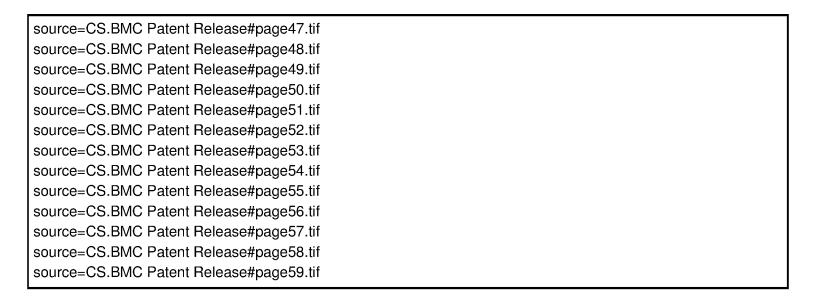
Address Line 1: 4400 EASTON COMMONS WAY, SUITE 125

Address Line 2: CT CORPORATION

Address Line 4: COLUMBUS, OHIO 43219

NAME OF SUBMITTER:DORIS KASIGNATURE:/Doris Ka/

DATE SIGNED: 10/05/2018 **Total Attachments: 59** source=CS.BMC Patent Release#page1.tif source=CS.BMC Patent Release#page2.tif source=CS.BMC Patent Release#page3.tif source=CS.BMC Patent Release#page4.tif source=CS.BMC Patent Release#page5.tif source=CS.BMC Patent Release#page6.tif source=CS.BMC Patent Release#page7.tif source=CS.BMC Patent Release#page8.tif source=CS.BMC Patent Release#page9.tif source=CS.BMC Patent Release#page10.tif source=CS.BMC Patent Release#page11.tif source=CS.BMC Patent Release#page12.tif source=CS.BMC Patent Release#page13.tif source=CS.BMC Patent Release#page14.tif source=CS.BMC Patent Release#page15.tif source=CS.BMC Patent Release#page16.tif source=CS.BMC Patent Release#page17.tif source=CS.BMC Patent Release#page18.tif source=CS.BMC Patent Release#page19.tif source=CS.BMC Patent Release#page20.tif source=CS.BMC Patent Release#page21.tif source=CS.BMC Patent Release#page22.tif source=CS.BMC Patent Release#page23.tif source=CS.BMC Patent Release#page24.tif source=CS.BMC Patent Release#page25.tif source=CS.BMC Patent Release#page26.tif source=CS.BMC Patent Release#page27.tif source=CS.BMC Patent Release#page28.tif source=CS.BMC Patent Release#page29.tif source=CS.BMC Patent Release#page30.tif source=CS.BMC Patent Release#page31.tif source=CS.BMC Patent Release#page32.tif source=CS.BMC Patent Release#page33.tif source=CS.BMC Patent Release#page34.tif source=CS.BMC Patent Release#page35.tif source=CS.BMC Patent Release#page36.tif source=CS.BMC Patent Release#page37.tif source=CS.BMC Patent Release#page38.tif source=CS.BMC Patent Release#page39.tif source=CS.BMC Patent Release#page40.tif source=CS.BMC Patent Release#page41.tif source=CS.BMC Patent Release#page42.tif source=CS.BMC Patent Release#page43.tif source=CS.BMC Patent Release#page44.tif source=CS.BMC Patent Release#page45.tif source=CS.BMC Patent Release#page46.tif



2015 Patent Security Agreement was recorded with the United States Patent and Trademark Office on July 27, 2017 at Reel/Frame 043351/0231, (v) the May 2016 Patent Security Agreement was recorded with the United States Patent and Trademark Office on July 27, 2017 at Reel/Frame 043351/0189, (vi) the July 2017 Patent Security Agreement was recorded with the United States Patent and Trademark Office on August 10, 2017 at Reel/Frame 043514/0845, (vii) the May 2018 Patent Security Agreement was recorded with the United States Patent and Trademark Office on June 22, 2018 at Reel/Frame 046176/0477, (viii) the September 2013 Trademark Security Agreement was recorded with the United States Patent and Trademark Office on September 11, 2013 at Reel/Frame 5111/0736, (ix) the BMC September 2013 Trademark Security Agreement was recorded with the United States Patent and Trademark Office on December 17, 2013 at Reel/Frame 5175/0239, (x) the June 2015 Trademark Security Agreement was recorded with the United States Patent and Trademark Office on August 29, 2017 at Reel/Frame 006141/0339, (xi) the May 2016 Trademark Security Agreement was recorded with the United States Patent and Trademark Office on August 30, 2017 at Reel/Frame 006124/0031 and (xii) the July 2017 Trademark Security Agreement was recorded with the United States Patent and Trademark Office on August 30, 2017 at Reel/Frame 006142/0044;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent hereby agrees as follows:

- 1. <u>Defined Terms</u>. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Security Agreement or the Intellectual Property Security Agreements, as applicable.
- 2. Release. The Agent, without representation or warranty of any kind, hereby releases, discharges, terminates and cancels all of its security interest in and to (i) the Copyright Collateral, including the copyright registrations and applications set forth Schedule A attached hereto, (ii) the Patent Collateral, including the patents and patent applications set forth Schedule B attached hereto and (iii) the Trademark Collateral, including the trademark registrations and applications set forth Schedule C attached hereto, arising under the Security Agreement and the Intellectual Property Security Agreements. If and to the extent that the Agent has acquired any right, title or interest in and to the Copyright Collateral, Patent Collateral or Trademark Collateral under the Intellectual Property Security Agreements, the Agent, without representation or warranty of any kind, hereby re-transfers, re-conveys and re-assigns such right, title or interest to the applicable Grantors.
- 3. <u>Termination</u>. The Agent, without representation or warranty of any kind, terminates and cancels the Intellectual Property Security Agreements.
- 4. <u>Further Assurances</u>. The Agent agrees to take all further actions, and provide to each Grantor and its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by such Grantor, at such Grantor's sole cost and expense, to more fully and effectively effectuate the purposes of this Release.
- 5. <u>Governing Law</u>. This Release shall be governed exclusively under the laws of New York, without regard to conflicts of law or choice of law principles.

[Signature pages follow]

IN WITNESS WHEREOF, the Agent has caused this Release to be executed by its duly authorized representative as of the Effective Date.

Credit Suisse AG, Cayman Islands Branch, acting in its capacity as Collateral Agent for the Secured Parties

By:

Name: Judith E. Smith
Title: Authorized Signatory

Name: D. Andrew Maletta
Title: Authorized Signatory

GRANTORS:

BMC Solfware, Inc.

Name: Stephen B. Solcher

Name: Stephen & Soicher Title: Chief Financial Officer

BladeLogic, Inc.

By: () () () Name: Stephan B. Solcher

Title: President

[Signature page to Intellectual Property Release]

Schedule A

Release of Copyright Security Agreement recorded September 12, 2013 at V3618 D215

		Registration	
Title	Registration No.	Date	Current Owner
Viewpoint : focus on CMDB	TX0006332968	1/31/2006	BMC Software, Inc.
3270 superoptimizer : version 1.0	TXu000277702	3/30/1987	BMC Software, Inc.
Changing DB2 data structures / Jack Olson	TX0002585400	6/6/1989	BMC Software, Inc.
Copy plus	TX0003461950	1/6/1993	BMC Software, Inc.
CPC cross product communication facility	TX0006159410	12/8/2004	BMC Software, Inc.
CRF 1.7.01 concurrent reorganization facility	TX0006159411	12/8/2004	BMC Software, Inc.
CRF QA test environment facility	TXu001323595	12/8/2004	BMC Software, Inc.
Data base recovery control (DBRC) in practice / by Peter Armstrong	TX0002990446	1/7/1991	BMC Software, Inc.
DBI 4.3.01 database integrity plus	TX0006159406	12/8/2004	BMC Software, Inc.
HFR 1.7.01 fast reorganization facility/EP	TX0006159404	12/8/2004	BMC Software, Inc.
HIU 1.7.01 secondary index utility/EP	TX0006159408	12/8/2004	BMC Software, Inc.
HLD 1.7.01 Loadplus/EP	TX0006159407	12/8/2004	BMC Software, Inc.
HUL 1.7.01 unload plus/EP	TX0006159401	12/8/2004	BMC Software, Inc.
MXA 1.1.00 MAXM database advisor for IMS	TX0006159405	12/8/2004	BMC Software, Inc.
PCP 4.3.01 pointer checker plus	TX0006159403	12/8/2004	BMC Software, Inc.
PRP 2.9.08 prefix resolution plus.	TX0006159409	12/8/2004	BMC Software, Inc.
TrialMaster: DB2 sample database & tutorial for testing Mastermind for DB2	TX0003269699	12/18/1992	BMC Software, Inc.
Action request system	TX0005524566	6/20/2002	BMC Software, Inc.

		Registration	6 40
Title	Registration No.	Date	Current Owner
Action Request System V2.0Unix Operating Platform	TX0004684366	12/4/1997	BMC Software, Inc.
Action request system V3.0 for Microsoft NT operating platform	TX0004712607	12/9/1997	BMC Software, Inc.
Action Request System V3.0 for Microsoft NT operating platform	TX0004855952	8/31/1998	BMC Software, Inc.
Action request system V3.0 Unix operating platform	TX0004712528	12/4/1997	BMC Software, Inc.
Action request system V4.0 Microsoft NT operating platform	TX0004955120	4/8/1999	BMC Software, Inc.
Action request system v4.0 unix operating platform	TX0004982850	4/8/1999	BMC Software, Inc.
Action Request System version 1.0 SunOS Operating Platform	TX0004684367	12/4/1997	BMC Software, Inc.
ARWeb 1.0.	TX0004671203	11/18/1997	BMC Software, Inc.
ARWeb V2.0 for Windows NT.	TX0004756299	11/21/1997	BMC Software, Inc.
ARWeb version 2.0Unix version including Sun Solaris 2.4, HPUX 10.01 and AIX4.1	TX0004756301	11/21/1997	BMC Software, Inc.
Flashboards V1.1.3: SunOS, Solaris, AIX, HPUX, and Windows 3.11 operating platforms	TX0004900275	1/28/1998	BMC Software, Inc.
Flashboards V2.0, Sun Solaris, AIX, HPUX and Windows NT operating platforms	TX0004767212	1/28/1998	BMC Software, Inc.
Remedy health profile	TX0004675740	12/9/1995	BMC Software, Inc.
Service management Preexisting material: Service management LX, 2.X, 3.X and 4.X	TX005524541	6/20/2002	BMC Software, Inc.
Supplement to TX004684367	TX0004896698	8/31/1998	BMC Software, Inc.
Action request system version 1.0-SunOS Operating Platform (on original appl.: Action request system version 1.0SunOS Opeating Platform)			
Magic TSD version 7.50.	TX0005741866	6/6/2003	BMC Software, Inc.

Title	Title Registration No.		Current Owner	
Servicemagic	TX0002659373	10/2/1989	BMC Software, Inc.	
SupportMagic	TX0002933285	10/3/1990	BMC Software, Inc.	
ReportMagic : user's manual	TX0003065481	10/4/1990	BMC Software, Inc.	
Intuit Track-It!, v6.0.	TX0005867584	7/16/2003	Numara Software, Inc.	
Supplement to TX0005867584 Intuit Track-It! 6.0 / by Intuit, Inc., Bill Graham, Blue Ocean Software, Inc., Forrest Walter	TX0006179342	7/14/2005	Numara Software, Inc. ¹	
Intuit Track-It!, v6.0.	TX0006051743	10/15/2004	Numara Software, Inc. ²	
Track-It! for Windows 2.0	TX0005336012	7/2/2001	Numara Software, Inc. ³	
Track-It!: the world's no. 1 inventory/help desk management system	TX0005674608	6/24/2002	Numara Software, Inc. ⁴	
Track-It! 4.0.	TX0005336014	7/6/2001	Numara Software, Inc. ⁵	
Track-It! 3.0.	TX0005336013	7/6/2001	Numara Software, Inc. ⁶	
Track-It! / Russ Hobbs	TX0003252337	2/7/1992	Numara Software, Inc. ⁷	
NT manage	TX0004375607	9/18/1996	Numara Software, Inc. ⁸	

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¹ Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. ² Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. ³ Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. ⁴ Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. ⁶ Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. ⁷ Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office. ⁸ Blue Ocean Software, Inc. merged with BOSI Acquisition Corp. in December 2005, and the surviving entity changed its name to Numara Software, Inc. The merger certificate has not been recorded at the Copyright Office.

Title	Registration No.	Registration Date	Current Owner
Footprints	TX0004487042	3/3/1997	Numara Software, Inc. ⁹
PC2X	TX0003896477	7/26/1994	Numara Software, Inc. ¹⁰
PC2X program / creator, Pieter H. Ditmars	TX0003482161	11/24/1992	Numara Software, Inc. ¹¹
UniPress Emacs : source code / developed by James Gosling	TX0003291485	3/23/1992	Numara Software, Inc. ¹²
UniPress Emacs, version 2.10	TX0003399110	10/2/1992	Numara Software, Inc. ¹³

⁹ Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded

at the Copyright Office.

10 Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded at the Copyright Office.

11 Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded

at the Copyright Office.

at the Copyright Office.

12 Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded at the Copyright Office.

13 Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded

at the Copyright Office.

Schedule B

Release of Patent Security Agreement recorded September 11, 2013 at Reel/Frame 031204/0225

US Patents Issued:

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
09/900,283	6983321	SYSTEM AND METHOD OF	United States	Issued	BMC
		ENTERPRISE SYSTEMS AND	of America		Software,
		BUSINESS IMPACT			Inc.
		MANAGEMENT			
11/211,360	7774458	SYSTEM AND METHOD OF	United States	Issued	BMC
		ENTERPRISE SYSTEMS AND	of America		Software,
		BUSINESS IMPACT			Inc.
		MANAGEMENT			
12/826,455	7930396	SYSTEM AND METHOD OF	United States	Issued	BMC
		ENTERPRISE SYSTEMS AND	of America		Software,
		BUSINESS IMPACT			Inc.
		MANAGEMENT			
08/102,084	5664217	METHOD OF AVOIDING PHYSICAL	United States	Issued	BMC
		I/O VIA CACHING WITH	of America		Software,
		PRIORITIZED LRU MANAGEMENT			Inc.
08/168,962	5579515	IMPROVED METHOD OF	United States	Issued	BMC
		CHECKING INDEX INTEGRITY IN	of America		Software,
		A DB2 DATABASE			Inc.
08/168,976	6163783	CHECK DATA OPERATION FOR	United States	Issued	BMC
		DB2	of America		Software,
					Inc.
08/225,158	5892907	BYPASS SEND AND RECEIVE	United States	Issued	BMC
		OPTIMIZER METHOD FOR VTAM	of America		Software,
		PROCESSES			Inc.
08/239,942	6115704	AN EXTENDED SQL CHANGE	United States	Issued	BMC
		DEFINITION LANGUAGE FOR A	of America		Software,
		COMPUTER DATABASE SYSTEM			Inc.
08/299,700	5511220	MULTI-USER COMPUTER SYSTEM	United States	Issued	BMC
		WITH A CLOCK DRIVEN BATCH	of America		Software,
		DISPATCHING MECHANISM			Inc.
08/308,759	5761676	METHOD OF REMOVING	United States	Issued	BMC
		UNNEEDED DATA FROM DB2	of America		Software,
		LOGS AND OTHER DATA SETS			Inc.
		HAVING DISPLACEMENT-			
		DEPENDENT DATA			
08/395,992	5625817	METHOD OF IDENTIFYING DB2	United States	Issued	BMC
		OBJECTS TO BE RECOVERED	of America		Software,
		FROM AN UNAVAILABLE DASD			Inc.
		VOLUME WITHOUT NEED TO			
		ACCESS THE DASD VOLUME			
		ITSELF AND WITHOUT NEED FOR			
		PRE-FAILURE PREPARATION			
08/400,850		SYSTEM FOR MONITORING AND	United States	Issued	BMC
	5655081	MANAGING COMPUTER	of America		Software,
		RESOURCES AND APPLICATIONS			Inc.

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		ACROSS A DISTRIBUTED			
		COMPUTING ENVIRONMENT			
		USING AN INTELLIGENT			
		AUTONOMOUS AGENT			
00//07/00/		ARCHITECTURE			
08/435,081	5566334	METHOD FOR PROCESSING	United States	Issued	BMC
		INTERRUPT REQUESTS IN A	of America		Software,
		COMPUTER SYSTEM OPERATING			Inc.
		ENVIRONMENT HAVING			
		DIFFERENT TYPES OF			
		SUPERVISOR PROGRAMS			
		CONCERNED WITH DIFFERENT			
		TYPES OF INTERRUPT EVENTS			
08/527,687	5815096	METHOD FOR COMPRESSING	United States	Issued	BMC
		SEQUENTIAL DATA INTO	of America		Software,
		COMPRESSION SYMBOLS USING			Inc.
		DOUBLE-INDIRECT INDEXING			
		INTO A DICTIONARY DATA			
		STRUCTURE			
08/543,467	5572674	METHOD OF DYNAMICALLY	United States	Issued	BMC
		ADJUSTING SNA NETWORK	of America		Software,
		CONTROL PROGRAM			Inc.
		PARAMETERS			
08/648,327	5956507	DYNAMIC ALTERATION OF	United States	Issued	BMC
		OPERATING SYSTEM KERNEL	of America		Software,
		RESOURCE TABLES			Inc.
08/690,257	5919247	METHOD FOR THE DISTRIBUTION	United States	Issued	BMC
		OF CODE AND DATA UPDATES	of America		Software,
		USING IDENTIFIERS TO SELECT			Inc.
		UPDATED PORTIONS			
08/693,726	5761667	METHOD OF OPTIMIZING	United States	Issued	BMC
		DATABASE ORGANIZATION	of America		Software,
		USING SEQUENTIAL			Inc.
		UNLOAD/LOAD OPERATIONS			
08/763,187	5761091	METHOD AND SYSTEM FOR	United States	Issued	BMC
		REDUCING THE ERRORS IN THE	of America		Software,
		MEASUREMENTS OF RESOURCE			Inc.
		USAGE IN COMPUTER SYSTEM			
		PROCESSES AND ANALYZING			
		PROCESS DATA WITH			
		SUBSYSTEM DATA			
08/736,144	6009271	METHOD OF RETRIEVING DATA	United States	Issued	BMC
		FROM A RELATIONAL DATABASE	of America		Software,
					Inc.
08/781,641	5991761	METHOD OF REORGANIZING A	United States	Issued	BMC
		DATA ENTRY DATABASE	of America		Software,
					Inc.
08/807,313	6202136	METHOD OF CREATING AN	United States	Issued	BMC
		INTERNALLY CONSISTENT COPY	of America		Software,
		OF AN ACTIVELY UPDATED DATA			Inc.
		SET WITHOUT SPECIALIZED			

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		CACHING HARDWARE			
08/812,860	5978594	SYSTEM FOR MANAGING COMPUTER RESOURCES ACROSS A DISTRIBUTED COMPUTING	United States of America	Issued	BMC Software, Inc.
		ENVIRONMENT BY FIRST READING DISCOVERY			inc.
		INFORMATION ABOUT HOW TO DETERMINE SYSTEM RESOURCES PRESENCE			
08/835,953	5860069	METHOD OF EFFICIENT COLLECTION OF SQL PERFORMANCE MEASURES	United States of America	Issued	BMC Software, Inc.
08/834,025	6014740	SINGLE INSTRUCTION METHOD OF SEIZING CONTROL OF PROGRAM EXECUTION FLOW IN A MULTIPROCESSOR COMPUTER SYSTEM	United States of America	Issued	BMC Software, Inc.
08/947,665	6011871	METHOD AND APPARATUS FOR COMPRESSING DIGITAL DATA	United States of America	Issued	BMC Software, Inc.
08/975,536	6151707	SYSTEM AND METHOD FOR PRODUCT REGISTRATION	United States of America	Issued	BMC Software, Inc.
08/988,107	6141759	SYSTEM AND ARCHITECTURE FOR DISTRIBUTING, MONITORING AND MANAGING INFORMATION REQUESTS ON A COMPUTER NETWORK	United States of America	Issued	BMC Software, Inc.
09/050,609	6016501	ENTERPRISE DATA MOVEMENT SYSTEM AND METHOD WHICH PERFORMS DATA LOAD AND CHANGED DATA PROPAGATION OPERATIONS	United States of America	Issued	BMC Software, Inc.
10/658,852	7188108	METHOD AND APPARATUS FOR OBTAINING STORAGE INFORMATION FROM A TRANSACTION LOG	United States of America	Issued	BMC Software, Inc.
09/052,223	6029178	ENTERPRISE DATA MOVEMENT SYSTEM AND METHOD WHICH MAINTAINS AND COMPARES EDITION LEVELS FOR CONSISTENCY OF REPLICATED DATA	United States of America	Issued	BMC Software, Inc. and Informatica Corporation
09/052,353	6092086	SYSTEM AND METHOD FOR HANDLING BACKOUT PROCESSING DURING CAPTURE OF CHANGED DATA IN AN ENTERPRISE COMPUTER SYSTEM	United States of America	Issued	BMC Software, Inc. and Informatica Corporation
09/067,319	6327677	METHOD AND APPARATUS FOR MONITORING A NETWORK ENVIRONMENT	United States of America	Issued	BMC Software, Inc.

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
09/118,704	6453346	METHOD AND APPARATUS FOR	United States	Issued	BMC
		INTELLIGENT STORAGE AND	of America		Software,
		REDUCTION OF NETWORK			Inc.
		INFORMATION			
09/133,828	6272519	DYNAMIC ALTERATION OF	United States	Issued	BMC
		OPERATING SYSTEM KERNEL	of America		Software,
		RESOURCE TABLES			Inc.
09/183,521	6418437	METHOD AND APPARATUS FOR	United States	Issued	BMC
		OBTAINING STORAGE	of America		Software,
		INFORMATION FROM A			Inc.
		TRANSACTION LOG			11101
09/231,322	6272536	SYSTEM AND METHOD FOR THE	United States	Issued	BMC
07/231,322	0272330	DISTRIBUTION OF CODE AND	of America	Issueu	Software,
		DATA	of America		Inc.
09/247,199	6430608	METHOD AND APPARATUS FOR	United States	Issued	BMC
09/247,199	0430008	ACCEPTING AND REJECTING	of America	Issued	
			of America		Software,
		FILES ACCORDING TO A			Inc.
00/0/0 104	(5120(5	MANIFEST	TI 's 1 Cs s	T 1	DMC
09/262,194	6513065	ENTERPRISE MANAGEMENT	United States	Issued	BMC
		SYSTEM AND METHOD WHICH	of America		Software,
		INCLUDES SUMMARIZATION			Inc.
		HAVING A PLURALITY OF			
		LEVELS OF VARYING			
		GRANULARITY			
09/262,229	6560647	ENTERPRISE MANAGEMENT	United States	Issued	BMC
		SYSTEM AND METHOD WHICH	of America		Software,
		INCLUDES SEMANTICALLY			Inc.
		CORRECT SUMMARIZATION			
09/287,601	6691067	ENTERPRISE MANAGEMENT	United States	Issued	BMC
		SYSTEM AND METHOD WHICH	of America		Software,
		INCLUDES STATISTICAL			Inc.
		RECREATION OF SYSTEM			
		RESOURCE USAGE FOR MORE			
		ACCURATE MONITORING,			
		PREDICTION, AND			
		PERFORMANCE WORKLOAD			
		CHARACTERIZATION			
09/315,300	6523035	SYSTEM AND METHOD FOR	United States	Issued	BMC
03.010,000	002000	INTEGRATING A PLURALITY OF	of America	100000	Software,
		DISPARATE DATABASE UTILITIES			Inc.
		INTO A SINGLE GRAPHICAL USER			I and .
		INTERFACE			
09/324,891	6381631	METHOD AND APPARATUS FOR	United States	Issued	BMC
07/34T,071	0501051	CONTROLLING CLIENT	of America	Issued	Software,
		COMPUTER SYSTEMS	or ranicilea		Inc.
09/336,424	6901435	PROTOCOL TECHNOLOGY FOR	United States	Issued	BMC
09/330,424	0901433		of America	issued	Software,
		CLIENT/SERVER ENVIRONMENT	of America		
00/2/2 070	6729070	METHOD AND ADDADATHS FOR	TI-:4-J Cr	T1	Inc.
09/343,979	6738970	METHOD AND APPARATUS FOR	United States	Issued	BMC
		IDENTIFYING CHANGES MADE TO	of America		Software,
		A COMPUTER SYSTEM DUE TO			Inc.

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		SOFTWARE INSTALLATION			
09/345,999	6367075	METHOD AND APPARATUS FOR	United States	Issued	BMC
		PRODUCING INSTRUCTIONS	of America		Software,
		DESCRIBING THE REMOVAL OF			Inc.
		UPDATES TO A COMPUTER			
		SYSTEM			
10/845,977	7448033	SYSTEM AND METHOD FOR	United States	Issued	BMC
		IDENTIFYING CHANGES MADE TO	of America		Software,
		A COMPUTER SYSTEM DUE TO			Inc.
		SOFTWARE INSTALLATION			
09/408,085	6564174	ENTERPRISE MANAGEMENT	United States	Issued	BMC
		SYSTEM AND METHOD WHICH	of America		Software,
		INDICATES CHAOTIC BEHAVIOR			Inc.
		IN SYSTEM RESOURCE USAGE			
		FOR MORE ACCURATE			
101515 105	551551	MODELING AND PREDICTION			
10/317,496	6643614	ENTERPRISE MANAGEMENT	United States	Issued	BMC
		SYSTEM AND METHOD WHICH	of America		Software,
		INDICATES CHAOTIC BEHAVIOR			Inc.
		IN SYSTEM RESOURCE USAGE			
		FOR MORE ACCURATE			
00/412 105	7720005	MODELING AND PREDICTION	TT 1: 10: :	T 1	DAG
09/413,105	7720805	SEQUENTIAL UNLOAD	United States	Issued	BMC
		PROCESSING OF IMS DATABASES	of America		Software,
00/474 (01	6202424	METHOD AND ADDADATHG FOR	TT 1: 1 C: :	T 1	Inc.
09/474,601	6393424	METHOD AND APPARATUS FOR	United States	Issued	BMC
		USING A STATIC METADATA	of America		Software,
		OBJECT TO REDUCE DATABASE			Inc.
09/496,241	6418443	ACCESSES HOT SPOT ANALYSIS OF IMS	United States	Issued	BMC
09/490,241	0418443	DATABASES	of America	Issued	Software,
		DATABASES	Of America		Inc.
09/596,631	6304967	SYSTEM AND ARCHITECTURE	United States	Issued	BMC
09/390,031	0304907	FOR DISTRIBUTING,	of America	Issued	Software,
		MONITORING, AND MANAGING	Of Afficied		Inc.
		INFORMATION REQUESTS ON A			inc.
		COMPUTER NETWORK			
09/608,801	6668054	SERVICE DESK SYSTEM	United States	Issued	BMC
07/000,001	0000034	ARCHITECTURE FOR A MOBILE	of America	Issued	Software,
		SERVICE WORKFORCE	or minerica		Inc.
09/607,671	6671368	SERVICE DESK SYSTEM FOR	United States	Issued	BMC
07/00/,0/1	0071300	ALLOWING EASILY	of America	155404	Software,
		CHANGEABLE ASSOCIATIONS			Inc.
		FOR DATA RETRIEVAL AND			
		DISPLAY			
09/613,653	6678887	CUSTOMIZING BUSINESS LOGIC	United States	Issued	BMC
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		AND DATA SOURCES BY	of America		Software,
	I				Inc.
		MODIFYING METHODS DEFINED			i inc.
		MODIFYING METHODS DEFINED WITHIN AN API			inc.
09/629,656	6502092	WITHIN AN API REFERENTIAL INTEGRITY	United States	Issued	BMC

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		SYSTEM			Inc.
09/615,569	6606631	IMS ON-LINE REORGANIZATION	United States	Issued	BMC
		UTILITY	of America		Software,
					Inc.
09/629,655	6609122	NAVIGATION OF VIEW	United States	Issued	BMC
		RELATIONSHIPS IN DATABASE	of America		Software,
		SYSTEM			Inc.
09/640,967	6816898	INTERFACING EXTERNAL	United States	Issued	BMC
		METRICS INTO A PERFORMANCE	of America		Software,
		MANAGEMENT SYSTEM			Inc.
09/651,408	6895586	ENTERPRISE MANAGEMENT	United States	Issued	BMC
		SYSTEM AND METHOD WHICH	of America		Software,
		INCLUDES A COMMON			Inc.
		ENTERPRISE-WIDE NAMESPACE			
		AND PROTOTYPE-BASED			
		HIERARCHICAL INHERITANCE			
09/680,059	6873989	GRAPHICAL DISPLAY OF IMS	United States	Issued	BMC
		SPACE USAGE CHARACTERISTICS	of America		Software,
					Inc.
09/698,449	6691121	METHOD AND APPARATUS FOR	United States	Issued	BMC
		ONLINE AND DYNAMIC	of America		Software,
		EXTENSION OF IMS DATA ENTRY			Inc.
		DATABASES			
09/710,212	6901438	SYSTEM AND METHOD FOR	United States	Issued	BMC
		REPLAYING A PREDEFINED PATH	of America		Software,
		THROUGH THE INTERNET			Inc.
11/051,564	7849162	A SYSTEM AND METHOD FOR	United States	Issued	BMC
		SELECTING A BEST-FIT FORM OR	of America		Software,
		URL IN AN ORIGINATING WEB			Inc.
		PAGE AS A TARGET URL FOR			
		REPLAYING A PREDEFINED PATH			
		THROUGH THE INTERNET			
09/710,214	6954783	SYSTEM AND METHOD OF	United States	Issued	BMC
		MEDIATING A WEB PAGE	of America		Software,
					Inc.
11/189,057	7631102	SYSTEM AND METHOD OF	United States	Issued	BMC
		MEDIATING A WEB PAGE	of America		Software,
00/5/5	(5.10250	CD A DIVIGAL DEPONDED TATELON	77 1 1 0		Inc.
09/767,664	6748379	GRAPHICAL REPRESENTATION	United States	Issued	BMC
		OF DISORGANIZED DATABASE	of America		Software,
10/551050	50.100.61	RECORDS IN AN IMS DATABASE		- ,	Inc.
10/754,070	7849061	GRAPHICAL REPRESENTATION	United States	Issued	BMC
		OF DISORGANIZED DATABASE	of America		Software,
00/027.064	6622994	RECORDS IN AN IMS DATABASE	TImia - 1 Cr.	To our - J	Inc.
09/827,064	6633884	SYSTEM AND METHOD FOR	United States	Issued	BMC
		ANALYZING A DATABASE FOR	of America		Software,
00/05/ 040	7510605	ON-LINE REORGANIZATION	TI-14-1 Ct	T 1	Inc.
09/855,042	7512635	SYSTEM AND METHOD FOR	United States	Issued	BMC
		UPDATING INFORMATION ON A	of America		Software,
		COMPUTER SYSTEM USING A			Inc.
		LIMITED AMOUNT OF SPACE			

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
09/895,661	7350209	SYSTEM AND METHOD FOR	United States	Issued	BMC
		APPLICATION PERFORMANCE	of America		Software,
		MANAGEMENT			Inc.
09/923,567	6900822	PERFORMANCE AND FLOW	United States	Issued	BMC
		ANALYSIS METHOD FOR	of America		Software,
		COMMUNICATION NETWORKS	01111111111		Inc.
10/940,328	7480866	PERFORMANCE AND FLOW	United States	Issued	BMC
10/5/10,320	7 100000	ANALYSIS METHOD FOR	of America	IBBUCU	Software,
		COMMUNICATION NETWORKS	or runerica		Inc.
09/945,413	7089245	SERVICE DESK DATA TRANSFER	United States	Issued	BMC
07/743,413	7007243	INTERFACE	of America	Issued	Software,
		INTERIACE	of America		Inc.
09/990,583	6944630	DATABASE MANAGEMENT	United States	Issued	BMC
Ź		SYSTEM AND METHOD WHICH	of America		Software,
		MONITORS ACTIVITY LEVELS			Inc.
		AND DETERMINES APPROPRIATE			
		SCHEDULE TIMES			
11/058,775	7302449	DATABASE MANAGEMENT	United States	Issued	BMC
11,000,770	7502117	SYSTEM AND METHOD WHICH	of America	100000	Software,
		MONITORS ACTIVITY LEVELS			Inc.
		AND DETERMINES APPROPRIATE			inc.
		SCHEDULE TIMES			
10/002,273	6606685	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/002,273	0000003	INTERCEPTING FILE SYSTEM	of America	Issueu	Software,
		WRITES	or 7 milerieu		Inc.
10/002,274	6799189	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/002,271	0///10/	CREATING A SERIES OF ONLINE	of America	Issueu	Software,
		SNAPSHOTS FOR RECOVERY	or mileriea		Inc.
		PURPOSES			inc.
09/991,561	6996576	DATABASE MANAGEMENT	United States	Issued	BMC
07/771,501	0770370	SYSTEM AND METHOD WHICH	of America	Issued	Software,
		AUTOMATICALLY SCHEDULES	or minerica		Inc.
		AND PERFORMS ACTIONS AND			inc.
		MONITORS RESULTS			
10/012,114	7490147	METHOD AND APPARATUS FOR	United States	Issued	BMC
10/012,114	/+2014/	COLLECTING PERFORMANCE	of America	199060	
		DATA IN A COMPUTER	of America		Software,
		APPLICATION			Inc.
10/014,337	7028301	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/014,337	/028301			Issued	
		AUTOMATIC WORKLOAD	of America		Software,
10/02/1/29	7299243	CHARACTERIZATION SYSTEM AND METHOD FOR	United States	Table and	Inc. BMC
10/034,438	1299243	CONTROLLING FREE SPACE	of America	Issued	Software,
		DISTRIBUTION BY KEY RANGE	of America		1
					Inc.
11/874,673	7720876	WITHIN A DATABASE SYSTEM AND METHOD FOR	United States	Issued	BMC
11/0/4,0/3	1120010	CONTROLLING FREE SPACE	of America	Issued	
			of America		Software,
		DISTRIBUTION BY KEY RANGE			Inc.
10/002 041	7170964	WITHIN A DATABASE	I Inited State	Toor and	DMC
10/093,941	7170864	SYSTEM AND METHOD FOR WAP	United States	Issued	BMC
		SERVER MANAGEMENT USING A	of America		Software,

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		SINGLE CONSOLE			Inc.
10/100,518	7054891	SYSTEM AND METHOD FOR	United States	Issued	BMC
		COMPARING DATABASE DATA	of America		Software,
					Inc.
10/113,870	7461369	JAVA APPLICATION RESPONSE	United States	Issued	BMC
10,110,070	, 101005	TIME ANALYZER	of America		Software,
			0111111111		Inc.
10/113,808	7506047	SYNTHETIC TRANSACTION	United States	Issued	BMC
		MONITOR WITH REPLAY	of America		Software,
		CAPABILITY			Inc.
12/405,939	7966398	SYNTHETIC TRANSACTION	United States	Issued	BMC
12/ 100,505	,,,,,,,,,	MONITOR WITH REPLAY	of America	100000	Software,
		CAPABILITY	0111111111		Inc.
10/113,322	7792948	METHOD AND SYSTEM FOR	United States	Issued	BMC
10,113,322	,,,,2,,,0	COLLECTING, AGGREGATING	of America	Issue	Software,
		AND VIEWING PERFORMANCE	or runerieu		Inc.
		DATA ON A SITE-WIDE BASIS			inc.
10/135,652	7024420	RUN-TIME ACCESS TECHNIQUES	United States	Issued	BMC
10/133,032	7021120	FOR DATABASE IMAGES	of America	Issued	Software,
		TOR DITTIBILIDE INTROCES	or 7 milerieu		Inc.
10/152,715	6701320	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/132,713	0701320	DETERMINING A CHARACTER	of America	Issued	Software,
		ENCODING SCHEME	of America		Inc.
10/164,464	7131037	METHOD AND SYSTEM TO	United States	Issued	BMC
10/104,404	/131037	CORRELATE A SPECIFIC ALARM	of America	Issued	Software,
		TO ONE OR MORE EVENTS TO	of Afficiea		Inc.
		IDENTIFY A POSSIBLE CAUSE OF			inc.
		THE ALARM			
10/173,278	7020706	METHOD AND SYSTEM FOR	United States	Issued	BMC
10/1/3,2/0	7020700	AUTOMATICALLY UPDATING	of America	Issued	Software,
		MULTIPLE SERVERS	or minerica		Inc.
10/195,649	7111003	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/1/3,04/	7111003	INPUTING DATA TO A SORT	of America	Issued	Software,
		UTILITY FROM A USER PROGRAM	Of Afficiea		Inc.
10/241,879	7877783	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/241,0/9	7677763	SECURE COMMUNICATIONS	of America	Issued	Software,
		WITH A REMOTE SOFTWARE	Of Afficied		Inc.
		PROGRAM			inc.
10/298,860	7194728	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/2/0,000	/1/4/20	PACKAGING UPDATES	of America	Issued	Software,
		TACKAGING OF DATES	Of Afficiea		Inc.
11/676,580	8151261	SYSTEM AND METHOD FOR	United States	Issued	BMC
11/0/0,500	0131201	PACKAGING UPDATES	of America	Issued	Software,
		TACKAGING OF DATES	oi America		Inc.
10/302,165	7680833	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/302,103	7000033	DATABASE STRUCTURE	of America	155000	Software,
		COMPARISON	oi America		Inc.
10/318,908	6976133	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/310,900	09/0133	UPDATING DEVICES USING	of America	199060	Software,
		LIMITED AMOUNTS OF RANDOM	of America		
					Inc.
		ACCESS MEMORY			

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
10/318,891	7287068	SYSTEM AND METHOD FOR	United States	Issued	BMC
		UPDATING DEVICES THAT	of America		Software,
		EXECUTE AN OPERATING			Inc.
		SYSTEM OR APPLICATION			
		PROGRAM DIRECTLY FROM			
		NONVOLATILE STORAGE			
11/872,785	7996501	SYSTEM AND METHOD FOR	United States	Issued	BMC
		UPDATING DEVICES THAT	of America		Software,
		EXECUTE AN OPERATING			Inc.
		SYSTEM APPLICATION PROGRAM			
		DIRECTLY FROM NONVOLATILE			
		STORAGE			
10/377,092	7617073	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/5//,032	,01,0,0	ASSESSING AND INDICATING THE	of America	100000	Software,
		HEALTH OF COMPONENTS	or runerieu		Inc.
12/572,865	8050890	SYSTEM AND METHOD FOR	United States	Issued	BMC
12/3/2,003	0020070	ASSESSING AND INDICATING THE	of America	Issueu	Software,
		HEALTH OF COMPONENTS	or 7 mierieu		Inc.
10/395,915	7076481	METHOD AND APPARATUS FOR	United States	Issued	BMC
10/3/3,/10	7070101	LOGICALLY RECONSTRUCTING	of America	Issue	Software,
		INCOMPLETE RECORDS			Inc.
10/414,958	7249174	METHOD AND SYSTEM FOR	United States	Issued	BladeLogic,
10/11/,550	,215171	EXECUTING AND UNDOING	of America	100000	Inc.
		DISTRIBUTED SERVER CHANGE	or 7 mierieu		inc.
		OPERATIONS			
11/768,094	8296755	METHOD AND SYSTEM FOR	United States	Issued	BladeLogic,
11//00,071	0270733	EXECUTING AND UNDOING	of America	IBBUCU	Inc.
		DISTRIBUTED SERVER CHANGE	or runerica		inc.
		OPERATIONS			
10/420,174	7062683	TWO-PHASE ROOT CAUSE	United States	Issued	BMC
10, 120,17	7.002003	ANALYSIS	of America	100000	Software,
			or runerica		Inc.
10/452,134	7882213	NETWORK MANAGEMENT	United States	Issued	BMC
10/132,131	7002213	SYSTEM TO MONITOR MANAGED	of America	100000	Software,
		ELEMENTS	or 7 mierieu		Inc.
10/618,500	7496572	REORGANIZING DATABASE	United States	Issued	BMC
10/010,500	7470372	OBJECTS USING VARIABLE	of America	Issued	Software,
		LENGTH KEYS	or 7 mierieu		Inc.
10/618,208	7809762	OUTAGE-LESS DATABASE	United States	Issued	BMC
10/010,200	7007702	CHANGE OPERATION	of America	Issued	Software,
		CHANGE OF ERATION	of Afficiea		Inc.
10/684,132	7076397	SYSTEM AND METHOD FOR	United States	Issued	BMC
10/004,132	7070397	STATISTICAL PERFORMANCE	of America	Issued	Software,
		MONITORING	Of Afficied		Inc.
11/277,307	8000932	SYSTEM AND METHOD FOR	United States	Issued	BMC
111211,301	0000932	STATISTICAL PERFORMANCE	of America	155000	Software,
			of America		
10/723,677	7133884	MONITORING UNOBTRUSIVE POINT-IN-TIME	United States	Issued	Inc. BMC
10//23,0//	/133004	CONSISTENT COPIES	of America	188060	
		CONSISTENT COMES	of America		Software,
11/526 400	7760710	LINIODTDIJCINE DOINE IN TIME	Haitad Ctata	Lograd	Inc.
11/536,490	7769718	UNOBTRUSIVE POINT-IN-TIME	United States	Issued	BMC

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		CONSISTENT COPIES	of America		Software,
					Inc.
10/757,741	7555491	REMOVING OVERFLOW ROWS IN	United States	Issued	BMC
		A RELATIONAL DATABASE	of America		Software,
					Inc.
10/794,090	7742423	METHOD OF HEURISTIC	United States	Issued	BMC
		DETERMINATION OF NETWORK	of America		Software,
		INTERFACE TRANSMISSION			Inc.
		MODE AND APPARATUS			
		IMPLEMENTING SUCH METHOD			
12/775,781	7940691	HEURISTIC DETERMINATION OF	United States	Issued	BMC
		NETWORK INTERFACE	of America		Software,
		TRANSMISSION MODE			Inc.
10/871,240	7664790	CASCADE DELETE PROCESSING	United States	Issued	BMC
			of America		Software,
					Inc.
10/871,160	7930291	CONSTRAINT PROCESSING	United States	Issued	BMC
			of America		Software,
					Inc.
11/112,175	7925635	SYSTEM AND METHOD FOR	United States	Issued	BMC
		COLLECTING STATISTICS	of America		Software,
		RELATED TO SOFTWARE USAGE			Inc.
11/160,664	7689628	MONITORING SEVERAL	United States	Issued	BMC
		DISTRIBUTED RESOURCE	of America		Software,
		ELEMENTS AS A RESOURCE POOL			Inc.
11/161,313	7502844	ABNORMALITY INDICATOR OF A	United States	Issued	BMC
		DESIRED GROUP OF RESOURCE	of America		Software,
		ELEMENTS			Inc.
11/306,290	7716353	WEB SERVICES AVAILABILITY	United States	Issued	BMC
		CACHE	of America		Software,
					Inc.
11/308,430	7783744	FACILITATING ROOT CAUSE	United States	Issued	BMC
		ANALYSIS FOR ABNORMAL	of America		Software,
		BEHAVIOR OF SYSTEMS IN A			Inc.
111660.005	=	NETWORKED ENVIRONMENT			22.50
11/669,005	7685167	CONFIGURATION MANAGEMENT	United States	Issued	BMC
		DATABASE REFERENCE	of America		Software,
11/605 114	7720044	INSTANCE	TI '4 1 C4 4	т 1	Inc.
11/695,114	7730044	LOG DATA STORE AND	United States	Issued	BMC
		ASSEMBLER FOR LARGE OBJECTS	of America		Software,
10/760 500	0121002	IN DATABASE SYSTEM	I Inited Ctata	Tooysed	Inc.
12/762,592	8121992	LOG DATA STORE AND	United States	Issued	BMC
		ASSEMBLER FOR LARGE OBJECTS	of America		Software,
11/956,489	7765346	IN DATABASE SYSTEM DYNAMIC COMPRESSION OF	United States	Issued	Inc. BMC
11/930,489	//03340	SYSTEMS MANAGEMENT DATA	of America	Issued	
		5131EM3 MANAGEMENT DATA	of America		Software,
10/016 406	0117261	DVNAMIC COMPRESSION OF	I Init- 1 Ct-t-	Toom - J	Inc.
12/816,426	8117361	DYNAMIC COMPRESSION OF	United States	Issued	BMC
		SYSTEMS MANAGEMENT DATA	of America		Software,
11/069 027	7801865	SYSTEM AND METHOD FOR	United States	Issued	Inc. BMC
11/968,037	/001003	3131EM AND METHOD FOR	United States	1880GG	DIVIC

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		PROVIDING ACCESS TO A DATABASE DURING A RECOVERY PROCESS	of America		Software, Inc.
09/990,770	8271457	DATABASE MANAGEMENT SYSTEM AND METHOD WHICH MONITORS ACTION RESULTS AND ADJUSTS USER PARAMETERS IN RESPONSE	United States of America	Issued	BMC Software, Inc.
10/446,276	8239343	DATABASE REORGANIZATION TECHNIQUE	United States of America	Issued	BMC Software, Inc.
11/153,303	7996515	NETWORK TRANSACTION DISCOVERY	United States of America	Issued	BMC Software, Inc.
10/990,609	7933927	METHOD AND APPARATUS FOR BUILDING INDEX OF SOURCE DATA	United States of America	Issued	BMC Software, Inc.
11/295,364	7941506	USER INTERFACE FOR NETWORK DISCOVERY OPERATIONS	United States of America	Issued	BMC Software, Inc.
11/868,595	8306945	ASSOCIATING DATABASE LOG RECORDS INTO LOGICAL GROUPS	United States of America	Issued	BMC Software, Inc.
11/956,507	8301755	IMPACT PROPAGATION IN A DIRECTED ACYCLIC GRAPH	United States of America	Issued	BMC Software, Inc.
11/956,522	8051164	IMPACT PROPAGATION IN A DIRECTED ACYCLIC GRAPH HAVING RESTRICTED VIEWS	United States of America	Issued	BMC Software, Inc.
12/123,779	8082275	SERVICE MODEL FLIGHT RECORDER	United States of America	Issued	BMC Software, Inc.
12/134,639	8190579	IMS CHANGE MAPPER	United States of America	Issued	BMC Software, Inc.
12/604,592	8335692	SYSTEMS AND METHODS TO SUPPORT INFORMATION TECHNOLOGY BUSINESS DECISIONS	United States of America	Issued	BladeLogic, Inc.
12/604,611	8266096	VENDOR PORTFOLIO MANAGEMENT IN SUPPORT OF VENDOR RELATIONSHIP MANAGEMENT ANALYSIS, PLANNING AND EVALUATION	United States of America	Issued	BladeLogic, Inc.
12/565,287	8346752	SOFTWARE TITLE DISCOVERY	United States of America	Issued	BMC Software, Inc.
12/550,078	8082222	CMDB FEDERATION METHOD AND MANAGEMENT SYSTEM	United States of America	Issued	BMC Software, Inc.
12/545,753	8380749	MDR FEDERATION FACILITY FOR	United States	Issued	BMC

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		CMDBF	of America		Software,
					Inc.
12/437,471	8161001	RELATIONAL DATABASE PAGE-	United States	Issued	BMC
		LEVEL SCHEMA	of America		Software,
		TRANSFORMATIONS			Inc.
12/634,614	7996500	SYSTEMS AND METHODS FOR	United States	Issued	BladeLogic,
		EXTENSIBLE DISTRIBUTED	of America		Inc.
		RESOURCE CONFIGURATION			
		MANAGEMENT			
12/768,923	8353013	AUTHORIZED APPLICATION	United States	Issued	BMC
		SERVICES VIA AN XML MESSAGE	of America		Software,
		PROTOCOL			Inc.
12/550,083	8171005	DATABASE QUIESCE	United States	Issued	BMC
		OPERATIONS	of America		Software,
					Inc.
12/565,549	8352947	METHOD TO AUTOMATICALLY	United States	Issued	BMC
		REDIRECT SRB ROUTINES TO A	of America		Software,
		ZIIP ELIGIBLE ENCLAVE			Inc.
12/582,296	8352948	METHOD TO AUTOMATICALLY	United States	Issued	BMC
		REDIRECT SRB ROUTINES TO A	of America		Software,
		ZIIP ELIGIBLE ENCLAVE			Inc.
12/563,657	8180728	AREA-SPECIFIC RELOAD OF	United States	Issued	BMC
		DATABASE	of America		Software,
					Inc.
12/788,476	8380645	METHOD AND SYSTEM TO	United States	Issued	BMC
		ENABLE INFERENCING FOR	of America		Software,
		NATURAL LANGUAGE QUERIES			Inc.
		OF CONFIGURATION			
		MANAGEMENT DATABASES			
12/954,085	8321480	FULL-FUNCTION TO HIGH	United States	Issued	BMC
		AVAILABILITY LARGE	of America		Software,
		DATABASE CONVERSION			Inc.
09/050,422	6035307	ENTERPRISE DATA MOVEMENT	United States	Issued	BMC
		SYSTEM AND METHOD	of America		Software,
		INCLUDING OPPORTUNISTIC			Inc. and
		PERFORMANCE OF UTILITIES			Informatica
		AND DATA MOVE OPERATIONS			Corporation
00/5/0/15/	((22142	FOR IMPROVED EFFICIENCY	TT 's 1.C.	T 1	DMC
09/548,156	6622142	DATABASE UTILITIES	United States	Issued	BMC
			of America		Software,
10/662.074	7016005	DAMADAGE HIMI IMING	TT 1: 1 C: :	T 1	Inc.
10/662,974	7016905	DATABASE UTILITIES	United States	Issued	BMC
			of America		Software,
11/221 066	7006227	DATADACE UTILITIES	I Imite d Co.	To our - J	Inc.
11/321,966	7096227	DATABASE UTILITIES	United States	Issued	BMC
			of America		Software,
11/047 140	7227100	CDACE MANAGENTE OF AN ESC	TT 14 1 C	т 1	Inc.
11/047,149	7337199	SPACE MANAGEMENT OF AN IMS	United States	Issued	BMC
		DATABASE	of America		Software,
10/02/ 01/	7444226	ENGLIDING THAT A DATABAGE	TT 's 1 C:	т 1	Inc.
10/036,815	7444338	ENSURING THAT A DATABASE	United States	Issued	BMC

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		AND ITS DESCRIPTION ARE	of America		Software,
		SYNCHRONIZED			Inc.
10/923,375	7685122	FACILITATING SUSPENSION OF	United States	Issued	BMC
		BATCH APPLICATION PROGRAM	of America		Software,
		ACCESS TO SHARED IMS			Inc.
		RESOURCES			
12/713,970	8407531	METHOD OF COLLECTING AND	United States	Issued	BMC
		CORRELATING LOCKING DATA	of America		Software,
		TO DETERMINE ULTIMATE			Inc.
12/895,505	8402127	HOLDERS IN REAL TIME SYSTEM AND METHOD FOR	United States	Issued	BMC
12/093,303	0402127	OFFERING VIRTUAL PRIVATE	of America	Issued	Software,
		CLOUDS WITHIN A PUBLIC	of America		Inc.
		CLOUD ENVIRONMENT			inc.
10/414,959	8447963	METHOD AND SYSTEM FOR	United States	Issued	BladeLogic,
10, 11 1,505	0.1750	SIMPLIFYING DISTRIBUTED	of America	155456	Inc.
		SERVER MANAGEMENT			
12/582,948	8510810	SECURE CREDENTIAL STORE	United States	Issued	BladeLogic,
			of America		Inc.
12/608,601	8463899	SYSTEM, METHOD AND	United States	Issued	BMC
		COMPUTER PROGRAM PRODUCT	of America		Software,
		FOR OPTIMIZED ROOT CAUSE			Inc.
		ANALYSIS			
12/614,307	8464246	AUTOMATION OF MAINFRAME	United States	Issued	BMC
		SOFTWARE DEPLOYMENT	of America		Software,
12151000					Inc.
12/649,925	8473951	METHOD AND SYSTEM FOR	United States	Issued	BMC
		TRAVERSING IN REVERSE	of America		Software,
		CHRONOLOGICAL ORDER ALONG			Inc.
		A CRITICAL PATH OF A PLURALITY OF JOBS, AND			
		REDUCING TIME GAPS BETWEEN			
		JOBS UNTIL AN ESTIMATED END			
		TIME OF THE LAST JOB IS LESS			
		THAN OR EQUAL TO A TARGET			
		END TIME			
12/650,107	8473595	METHOD AND SYSTEM TO	United States	Issued	BMC
, .		AUTOMATICALLY ADAPT WEB	of America		Software,
		SERVICES FROM ONE			Inc.
		PROTOCOL/IDIOM TO ANOTHER			
		PROTOCOL/IDIOM			
12/847,391	8457928	AUTOMATIC DETERMINATION OF	United States	Issued	BMC
		DYNAMIC THRESHOLD FOR	of America		Software,
		ACCURATE DETECTION OF			Inc.
		ABNORMALITIES			
12/872,871	8478569	AUTO ADJUSTMENT OF BASELINE	United States	Issued	BMC
		ON CONFIGURATION CHANGE	of America		Software,
12/01/ 724	0.470000	CVCTEM AND ACTUON FOR	TT 1/4 1/0: ·	т 1	Inc.
13/016,734	8478888	SYSTEM AND METHOD FOR	United States	Issued	BMC
		STATELESS, FAULT TOLERANCE	of America		Software,
		AND LOAD BALANCE DATA			Inc.

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		COLLECTION USING OVERLAY			
		NAMESPACES			
13/251,199	8478771	SYSTEMS AND METHODS	United States	Issued	BMC
		RELATED TO A TEMPORAL LOG	of America		Software,
		STRUCTURE DATABASE			Inc.
11/516,531	8443438	METHOD AND SYSTEM FOR	United States	Issued	BMC
		DEPLOYMENT OF AGENTS	of America		Software,
					Inc.
13/437,757	8447791	SYSTEMS AND METHODS FOR	United States	Issued	BMC
		ALTERING LIMIT KEY VALUES	of America		Software,
					Inc.

<u>U.S. Patents Pending:</u>

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
11/378,585	20060161581	SERVICE DESK DATA	United States	Pending	BMC
		TRANSFER INTERFACE	of America		Software,
11/270 500	20060170070	GEDLIIGE DEGIL DATA	TI to 1 Gran	D 11	Inc.
11/378,580	20060179070	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Pending	BMC
		TRANSFER INTERFACE	of America		Software, Inc.
11/928,730	20080052265	DATABASE MANAGEMENT	United States	Pending	BMC
11/926,730	20080032203	SYSTEM AND METHOD WHICH	of America	1 chang	Software,
		MONITORS ACTIVITY LEVELS	or 7 timerica		Inc.
		AND DETERMINES			
		APPROPRIATE SCHEDULE			
		TIMES			
13/655,153	20130103808	METHOD AND SYSTEM FOR	United States	Pending	BladeLogic,
		EXECUTING AND UNDOING	of America		Inc.
		DISTRIBUTED SERVER CHANGE			
12/6/7 022	20100100522	OPERATIONS	** ! ! !	72 11	22.66
12/647,823	20100100533	CASCADE DELETE PROCESSING	United States	Pending	BMC
			of America		Software,
13/027,131	20110137887	CONSTRAINT PROCESSING	United States	Pending	Inc. BMC
13/02/,131	20110137667	CONSTRAINT FROCESSING	of America	rending	Software,
			of America		Inc.
13/174,744	20110264801	NETWORK TRANSACTION	United States	Allowed	BMC
		DISCOVERY	of America		Software,
					Inc.
10/869,220	20060004846	LOW-OVERHEAD RELATIONAL	United States	Pending	BMC
		DATABASE BACKUP AND	of America		Software,
		RESTORE OPERATIONS			Inc.
10/998,399	20060117029	METHOD AND APPARATUS FOR	United States	Pending	BMC
		LOADING DATA INTO MULTI-	of America		Software,
11/204 190	20060136585	TABLE TABLESPACE	United States	Danding	Inc. BMC
11/204,189	20000130383	RESOURCE RECONCILIATION	of America	Pending	Software,
			of America		Inc.
11/295,363	20060123104	GENERIC DISCOVERY FOR	United States	Pending	BMC
111275,505	20000123104	COMPUTER NETWORKS	of America	1 chang	Software,
		COM CIDITIDI WORLD	of Timorica		Doremano,

11/315,857 20060136459 SYSTEM AND METHOD FOR BUSINESS SERVICE MANAGEMENT SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MANAGEMENT SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MODEL United States of America BMC Software, Inc. 12/440,218 20100191624 SYSTEM AND METHOD FOR CLASSIFYING REQUESTS United States of America BMC Software, Inc. 11/538,377 20070282810 OVERLAY DATASET United States of America BMC Software, Inc. 11/741,709 20070256050 BI-DIRECTIONAL COMMUNICATION BETWEEN CHANGE MANAGEMENT TOOL AND IMPLEMENTATION TOOLS GAMERICA Pending of America Software, Inc. 11/538,393 20070282856 DATABASE APPLICATION OF America DATA MAND IMPLEMENTATION TOOLS OF America Software, Inc. 11/745,971 20080281865 DATABASE APPLICATION United States of America BMC Software, Inc. 11/745,971 20080281865 DATABASE RECOVERY USING LOGS APPLIED TO CONSISTENT COPIES DATABASE RECOVERY USING LOGS APPLIED TO CONSISTENT COPIES DATABASE PRODUS SERVER CONFIGURATION MANAGEMENT CHONG STATE United States of America Software, Inc. 11/956,498 20090158192 DYNAMIC FOLDING OF LISTED HETEROSHBOUS SERVER CONFIGURATION MANAGEMENT United States of America BMC Software, Inc. 11/939,391 2008013329 DYNAMIC FOLDING OF LISTED HETEROSHBOUS SERVER CONFIGURATION MANAGEMENT INFORMATION TECHNOLOGY ENTERPRISE MANAGER AND PRODUCT PORTFOLIO MANAGEMENT DATABASE Pending of America BladeLogic Inc. 10/745,837 20050137920 INFORMATION TECHNOLOGY ENTERPRISE MANAGER AND PRODUCT PORTFOLIO MANAGEMENT DATABASE SOFTWARE LICENSE Pending of America Database Pending of America Software, Inc. 10/745,837 20050137920 INFORMATION TECHNOLOGY ENTERPRISE MANAGER AND PRODUCT PORTFOLIO MANAGEMENT DATABASE SOFTWARE LICENSE Pending of America Inc. 10/745,837 20050137920 INFORMATION TECHNOLOGY ENTERPRISE MANAGER AND PRODUCT PORTFOLIO MANAGEMENT DATABASE Pending of America 10/745,837 20050137920 INFORMATION TECHNOLOGY ENTERPRISE MANAGEMENT DATAB	APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
BUSINESS SERVICE MANAGEMENT						Inc.
MANAGEMENT	11/315,857	20060136459	SYSTEM AND METHOD FOR	United States	Pending	BMC
11/316,025 20060161466 SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MODEL 12/440,218 20100191624 SYSTEM AND METHOD FOR CLASSIFYING REQUESTS United States of America Software, Inc. 11/538,377 20070282810 OVERLAY DATASET United States of America United States of			BUSINESS SERVICE	of America		Software,
BUILDING BUSINESS SERVICE MODEL MODEL 12/440,218 20100191624 SYSTEM AND METHOD FOR CLASSIFYING REQUESTS of America 11/538,377 20070282810 OVERLAY DATASET United States of America 11/538,377 20070282810 OVERLAY DATASET United States of America 11/741,709 20070256050 BI-DIRECTIONAL COMMUNICATION BETWEEN CHANGE MANAGEMENT TOOL AND IMPLEMENTATION TOOLS 11/538,393 20070282856 DATABASE APPLICATION FEDERATION FEDERATION 11/848,298 20080059972 AUTOMATED CAPACITY PROVISIONING METHOD USING HISTORICAL PERFORMANCE DATA 11/745,971 20080281865 DATABASE RECOVERY USING LOGS APPLIED TO CONSISTENT COPIES 11/956,498 20090158192 DYNAMIC FOLDING OF LISTED ITEMS FOR DISPLAY 11/956,498 20090158192 DYNAMIC FOLDING OF LISTED ITEMS FOR DISPLAY 11/941,4887 20030233431 METHOD AND SYSTEM FOR MODEL-BASED HISTORICAL PERFORMANCE ONFIGURATION MANAGEMENT 11/939,391 20080133259 INFORMATION TECHNOLOGY ENTERPRISE MANAGEM OF America 11/745,837 20050137920 INFORMATION TECHNOLOGY ENTERPRISE MANAGER 11/976,334 20100251379 METHOD AND SYSTEM FOR ONANAGEMENT UNITED HISTORICALION MANAGEMENT ON MANAGEMENT DATABASE 11/9634,534 20100251379 METHOD AND SYSTEM FOR CONFIGURATION MANAGE APPLICATION MANAGE PRODUCT PORTFOLIO MANAGER APPLICATION MANAGEMENT DATABASE 11/9634,534 20100251379 METHOD AND SYSTEM FOR CONFIGURATION MANAGEMENT DATABASE 11/9634,534 20100251379 METHOD AND SYSTEM FOR CONFIGURATION MANAGEMENT DATABASE 11/9634,534 20100251379 METHOD AND SYSTEM FOR CONFIGURATION MANAGEMENT DATABASE			MANAGEMENT			Inc.
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12/552,169 20100114948 SYSTEM AND METHOD FOR United States Pending BMC	12/552 169	20100114948		United States	Pending	BMC
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APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		AND DATA TO MANY THOUSANDS OF CLIENTS OVER A NETWORK USING DYNAMIC			
12/570,628	20100161577	VIRTUAL PROXIES METHOD OF RECONCILING PEROLINGES IN THE META DATA	United States	Pending	BMC
		RESOURCES IN THE METADATA HIERARCHY	of America		Software, Inc.
12/614,307	20110113117	ASYNCHRONOUS COLLECTION AND CORRELATION OF TRACE AND COMMUNICATIONS EVENT DATA	United States of America	Allowed	BMC Software, Inc.
12/506,842	20100146498	METHOD TO MAKE SMP/E BASED PRODUCTS SELF DESCRIBING	United States of America	Allowed	BMC Software, Inc.
12/485,632	20100199058	DATA SET SIZE TRACKING AND MANAGEMENT	United States of America	Pending	BMC Software, Inc.
12/485,664	20100318497	UNOBTRUSIVE COPIES OF ACTIVELY USED COMPRESSED INDICES	United States of America	Pending	BMC Software, Inc.
12/650,302	20100223166	UNIFIED SERVICE MODEL FOR BUSINESS SERVICE MANAGEMENT	United States of America	Pending	BMC Software, Inc.
12/626,109	20110125745	BALANCING DATA ACROSS PARTITIONS OF A TABLE SPACE DURING LOAD PROCESSING	United States of America	Pending	BMC Software, Inc.
12/603,026	20100228750	SYSTEMS AND METHODS FOR DIGITAL FILE CHANGE MONITORING	United States of America	Pending	BladeLogic, Inc.
12/685,096	20100179945	NORMALIZATION ENGINE TO MANAGE CONFIGURATION MANAGEMENT DATABASE INTEGRITY	United States of America	Allowed	BMC Software, Inc.
12/641,155	20110154362	AUTOMATED COMPUTER SYSTEMS EVENT PROCESSING	United States of America	Published	BMC Software, Inc.
13/612,071	_	A METHOD TO AUTOMATICALLY REDIRECT SRB ROUTINES TO A ZIIP ELIGIBLE ENCLAVE	United States of America	Pending	BMC Software, Inc.
13/612,187	_	METHOD TO AUTOMATICALLY REDIRECT SRB ROUTINES TO A ZIIP ELIGIBLE ENCLAVE	United States of America	Pending	BMC Software, Inc.
12/640,549	20110153580	INDEX PAGE SPLIT AVOIDANCE WITH MASS INSERT PROCESSING	United States of America	Published	BMC Software, Inc.
12/563,637	20110071982	OFFLINE RESTRUCTURING OF DEDB DATABASES	United States of America	Pending	BMC Software, Inc.
12/872,921	20110213885	AUTOMATING APPLICATION PROVISIONING FOR	United States of America	Published	BMC Software,

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		HETEROGENEOUS			Inc.
		DATACENTER ENVIRONMENTS			
12/893,301	20110213886	INTELLIGENT AND ELASTIC	United States	Allowed	BMC
		RESOURCE POOLS FOR	of America		Software,
		HETEROGENEOUS			Inc.
		DATACENTER ENVIRONMENTS			
12/628,155	20110131186	EXTENDING A DATABASE	United States	Pending	BMC
		RECOVERY POINT AT A	of America		Software,
		DISASTER RECOVERY SITE			Inc.
12/752,951	20110246585	EVENT ENRICHMENT USING	United States	Pending	BMC
		DATA CORRELATION	of America		Software,
					Inc.
12/772,047	20110154353	DEMAND DRIVEN WORKLOAD	United States	Published	BMC
		SCHEDULING OPTIMIZATION	of America		Software,
		ON SHARED COMPUTING			Inc.
		RESOURCES			
12/789,663	20110161964	UTILITY-OPTIMIZED	United States	Published	BMC
		SCHEDULING OF TIME-	of America		Software,
		SENSITIVE TASKS IN A			Inc.
		RESOURCE- CONSTRAINED			
		ENVIRONMENT			
12/750,291	20110153559	MECHANISM FOR	United States	Published	BMC
		DEPRECATING OBJECT	of America		Software,
		ORIENTED DATA			Inc.
12/646,330	20110148880	SMART IMPACT VIEWS	United States	Published	BMC
			of America		Software,
					Inc.
12/750,347	20110161048	METHOD TO OPTIMIZE	United States	Published	BMC
		PREDICTION OF THRESHOLD	of America		Software,
10/500000	***********	VIOLATIONS USING BASELINES			Inc.
12/750,370	20110161928	METHOD TO PROVIDE	United States	Published	BMC
		TRANSPARENT I/O CONTEXT	of America		Software,
		ON A REMOTE OS WHILE			Inc.
		RETAINING LOCAL			
12/700 126	20110206400	PROCESSING	77 1. 1.0.	D 111 1 1	DIC
12/790,426	20110296499	SECURITY CONTEXT PASSING	United States	Published	BMC
		FOR STATELESS SYSTEM	of America		Software,
10/767 205	20110224505	MANAGEMENT CDARH EXPANSION MINI VIEW	United Ctatas	Danding	Inc. BMC
12/767,285	20110234595	GRAPH EXPANSION MINI-VIEW	United States	Pending	
			of America		Software, Inc.
12/788,890	20110293096	MULTI-LEVEL KEY	United States	Published	BladeLogic,
12//00,090	20110293090	MOLTI-LEVEL KEY MANAGEMENT	of America	r ublished	Inc.
12/835,908	20110239190	METHOD FOR CUSTOMIZING	United States	Pending	BMC
12/033,700	20110233130	SOFTWARE APPLICATIONS	of America	rending	Software,
		SOLI WARL ALL LICATIONS	OI AIIICICA		Inc.
12/895,284	20110238691	MECHANISM TO DISPLAY	United States	Pending	BMC
121073,204	20110230091	GRAPHICAL IT	of America	rending	Software,
		INFRASTRUCTURE USING	or ranicilea		Inc.
		CONFIGURABLE SMART			1110.
		NAVIGATION			
		NAVIGATION			

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
12/860,334	20110238637	STATISTICAL IDENTIFICATION	United States	Pending	BMC
		OF INSTANCES DURING	of America		Software,
		RECONCILIATION PROCESS			Inc.
12/847,949	20110321033	APPLICATION BLUEPRINT AND	United States	Published	BMC
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		DYNAMIC BUSINESS SERVICE			Inc.
		MANAGEMENT (BSM)			
12/904,785	20160179499	SYSTEM AND METHOD FOR	United States	Pending	BladeLogic,
,		CLOUD PROVISIONING AND	of America		Inc.
		APPLICATION DEPLOYMENT			
12/939,857	20110238805	TOPOLOGY AWARE SMART	United States	Pending	BladeLogic,
12/757,057	20110230003	MERGE	of America	renamg	Inc.
12/895,490	20110239275	CENTRALLY MANAGED	United States	Pending	BMC
12/093,490	20110239213	IMPERSONATION	of America	1 Chang	Software,
		IMPERSONATION	of America		Inc.
10/025 011	20110216956	CDOTLICIT CD A DUC	United States	Published	BMC
12/835,911	20110316856	SPOTLIGHT GRAPHS		Published	
			of America		Software,
12/052 022	20110220220	AVEOUGA TERR GENERAL TRANSPORT	** 1 1 0		Inc.
12/872,933	20110320228	AUTOMATED GENERATION OF	United States	Published	BMC
		MARKOV CHAINS FOR USE IN	of America		Software,
		INFORMATION TECHNOLOGY			Inc.
12/977,780	20120166317	AUTO-SUGGESTING IT ASSET	United States	Published	BladeLogic,
		GROUPS USING CLUSTERING	of America		Inc.
		TECHNIQUES			
12/967,456	20120151274	CLIENT-SIDE APPLICATION	United States	Published	BMC
		SCRIPT ERROR PROCESSING	of America		Software,
					Inc.
13/070,388	20120246179	LOG BASED DDL GENERATION	United States	Published	BMC
			of America		Software,
					Inc.
13/074,653	20120254113	CONTINUOUS CONTENT	United States	Allowed	BladeLogic,
		SHARING THROUGH	of America		Inc.
		INTELLIGENT RESOLUTION OF			
		FEDERATED HIERARCHICAL			
		GRAPHS			
12/978,002	20120166811	SYSTEM AND METHOD FOR	United States	Allowed	BMC
		EFFICIENTLY DETECTING	of America		Software,
		ADDITIONS AND ALTERATIONS			Inc.
		TO INDIVIDUAL APPLICATION			
		ELEMENTS FOR MULTIPLE			
		RELEASES OF APPLICATIONS IN			
		THE ENVIRONMENTS WHERE			
		THE APPLICATIONS CAN BE			
		ALTERED			
13/074,540	20120254278	DYNAMIC DISPATCH FOR	United States	Allowed	BMC
13/0/7,370	20120237270	DISTRIBUTED OBJECT-	of America	7 HIO WCG	Software,
		ORIENTED SOFTWARE	oi America		
		SYSTEMS			Inc.
12/006 127	20120195200		United States	Dublished	DMC
13/006,127	20120185290	INTEGRATING ACTION		Published	BMC
		REQUESTS FROM A PLURALITY	of America		Software,
		OF SPOKE SYSTEMS AT A HUB			Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		SYSTEM			
12/967,204	20120151284	RECORDING METHOD CALLS	United States	Published	BMC
		THAT LED TO AN UNFORESEEN	of America		Software,
		PROBLEM			Inc.
13/018,084	20120198373	FOCUS-DRIVEN USER	United States	Published	BMC
		INTERFACE	of America		Software,
		1112111102			Inc.
12/967,211	20120151464	RUNNING INJECTED CODE	United States	Published	BMC
		PRIOR TO EXECUTION OF AN	of America		Software,
		APPLICATION			Inc.
13/074,983	20120254254	DIRECTED GRAPH TRANSITIVE	United States	Published	BMC
13/07 1,203	20120231231	CLOSURE	of America	Tuonsnea	Software,
		CLOSURE	or rimerica		Inc.
13/082,194	20120259812	COOPERATIVE NAMING FOR	United States	Published	BMC
13/062,194	20120239612	CONFIGURATION ITEMS IN A	of America	rublished	Software,
		DISTRIBUTED CONFIGURATION	of America		1
		MANAGEMENT DATABASE			Inc.
12/07/1 00/	20120254422	ENVIRONMENT	TT '4 1 C4 4	D 11' 1 1	DMC
13/074,996	20120254433	PRE-BURSTING TO EXTERNAL	United States	Published	BMC
		CLOUDS	of America		Software,
					Inc.
13/433,678	20120254414	USE OF METRICS SELECTED	United States	Published	BMC
		BASED ON LAG CORRELATION	of America		Software,
		TO PROVIDE LEADING			Inc.
		INDICATORS OF SERVICE			
		PERFORMANCE DEGRADATION			
13/082,233	20120259960	DYNAMIC SELF-	United States	Published	BMC
		CONFIGURATION OF	of America		Software,
		HETEROGENEOUS			Inc.
		MONITORING AGENT			
		NETWORKS			
13/070,412	20120246317	CLOUD-BASED RESOURCE	United States	Published	BMC
		IDENTIFICATION AND	of America		Software,
		ALLOCATION			Inc.
13/174,668	20130007435	SERVER MANAGEMENT WITH	United States	Published	BMC
,		DYNAMIC CONSTRUCTION OF	of America		Software,
		PRE-BOOT IMAGES			Inc.
13/174,308	20130006935	METHODS AND APPARATUS	United States	Published	BMC
		RELATED TO GRAPH	of America		Software,
		TRANSFORMATION AND			Inc.
		SYNCHRONIZATION			11101
13/198,369	20130006940	METHODS AND APPARATUS	United States	Published	BMC
13/1/3,307	20130000710	RELATED TO COMPLETION OF	of America	Labilitio	Software,
		LARGE OBJECTS WITHIN A DB2			Inc.
		DATABASE ENVIRONMENT			1110.
13/174,736	20130006987	EVENT PROCESSING BASED ON	United States	Allowed	BMC
13/11/7,/30	20130000707	META-RELATIONSHIP	of America	1 HIO WCG	Software,
		DEFINITION	or micrica		Inc.
13/174,358	20130002668	SYSTEMS AND METHODS FOR	United States	Published	BMC
13/1/4,338	20130002008		of America	rubhshea	
		DISPLAYING, VIEWING AND	of America		Software,
		NAVIGATING THREE			Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		DIMENSIONAL			
		REPRESENTATIONS			
13/169,846	20120330929	SERVICE CONTEXT	United States	Published	BMC
			of America		Software,
					Inc.
13/432,888	20120330702	MOBILE SERVICE CONTEXT	United States	Published	BMC
			of America		Software,
					Inc.
13/174,374	20130002723	SYSTEMS AND METHODS FOR	United States	Published	BMC
		DISPLAYING AND VIEWING	of America		Software,
		DATA MODELS			Inc.
13/174,464	20120042164	MONITORING BASED ON	United States	Published	BMC
		CLIENT PERSPECTIVE	of America		Software,
					Inc.
13/174,473	20120042064	MONITORING BASED ON	United States	Published	BMC
		CLIENT PERSPECTIVE	of America		Software,
12/1=1=2	20120111077				Inc.
13/174,725	20120144055	DETERMINATION OF QUALITY	United States	Published	BMC
		OF A CONSUMER'S	of America		Software,
		EXPERIENCE OF STREAMING			Inc.
12/2/7 010	20120090462	MEDIA	United States	Dan Har	BMC
13/247,818	20130080462	METHODS AND APPARATUS FOR MONITORING EXECUTION	of America	Pending	
		OF A DATABASE QUERY	of America		Software,
		PROGRAM			Inc.
13/251,190	20130086038	PROVISION OF INDEX	United States	Pending	BMC
13/231,190	20130060036	RECOMMENDATIONS FOR	of America	1 Chang	Software,
		DATABASE ACCESS	of America		Inc.
13/250,999	20130086587	DYNAMIC EVOCATIONS FOR	United States	Pending	BMC
13,230,333	20130000307	COMPUTER EVENT	of America	remains	Software,
		MANAGEMENT			Inc.
13/251,176	20130086552	SYSTEMS AND METHODS FOR	United States	Pending	BMC
,		APPLYING DYNAMIC	of America		Software,
		RELATIONAL TYPING TO A			Inc.
		STRONGLY-TYPED OBJECT-			
		ORIENTED API			
13/251,101	20130085985	METHODS AND APPARATUS	United States	Pending	BMC
		FOR PERFORMING DATABASE	of America		Software,
		MANAGEMENT UTILITY			Inc.
		PROCESSES			
13/340,302	20130173558	DATABASE RECOVERY	United States	Pending	BMC
		PROGRESS REPORT	of America		Software,
10/051 105	20120005707	DIGDI A WANDAD CATA TATA	77 1. 1.0	D 11	Inc.
13/251,187	20130086507	DISPLAY WINDOW WITH	United States	Pending	BMC
		MULTI-LAYER, PARALLEL TAB	of America		Software,
12/2/1 1/4	20120172779	DISPLAY MONITORING NETWORK	IInited State	Dan die -	Inc.
13/341,144	20130173778	MONITORING NETWORK	United States	Pending	BMC
		PERFORMANCE REMOTELY	of America		Software,
12//22 9/7		MONITORING NETWORK	United States	Danding	Inc. BMC
13/432,847	_	PERFORMANCE OF ENCRYPTED	of America	Pending	
		TERTORMANCE OF ENCRIPTED	of America		Software,

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		COMMUNICATIONS			Inc.
13/341,171	20130173770	REGISTRY SYNCHRONIZER	United States	Pending	BMC
		AND INTEGRITY MONITOR	of America		Software,
					Inc.
13/341,676	20130173546	SYSTEMS AND METHODS FOR	United States	Pending	BMC
		MIGRATING DATABASE DATA	of America	_	Software,
					Inc.
13/341,693	20130173547	SYSTEMS AND METHODS FOR	United States	Pending	BMC
		MIGRATING DATABASE DATA	of America		Software,
					Inc.
12/032,087	_	SYSTEM AND METHOD FOR	United States	Pending	
		INSTALLING, UPDATING AND	of America		
		UNINSTALLING APPLICATIONS			
13/433,177	<u> </u>	DYNAMIC SERVICE RESOURCE	United States	Pending	
		CONTROL	of America	_	
13/436,249	_	WINDOW-BASED SCHEDULING	United States	Pending	
		USING A KEY-VALUE DATA	of America	_	
		STORE			
13/443,875	_	SELF-EVOLVING COMPUTING	United States	Pending	
		SERVICE TEMPLATE	of America	_	
		TRANSLATION			
13/433,162		AUTOMATED BLUEPRINT	United States	Pending	
		ASSEMBLY FOR ASSEMBLING	of America		
		AN APPLICATION			
13/533,388	_	SYSTEMS AND METHODS FOR	United States	Pending	
		DIRECTING WORK UNITS TO A	of America		
		zAAP			
13/453,628	_	UNIQUE ATTRIBUTE	United States	Pending	
		CONSTRAINTS FOR VERSIONED	of America	_	
		DATABASE OBJECTS			
61/618,771	_	UNIQUE ATTRIBUTE	United States	Pending	
		CONSTRAINTS FOR VERSIONED	of America		
		DATABASE OBJECTS			
13/436,887	_	OPTIMIZATION OF PATH	United States	Pending	
		SELECTION FOR TRANSFERS OF	of America		
		FILES			
13/457,189	_	APPLICATION	United States	Pending	
		INSTRUMENTATION CODE	of America		
		EXTENSION			
61/618,755	_	APPLICATION	United States	Pending	
		INSTRUMENTATION CODE	of America		
		EXTENSION			
13/538,591	_	HYBRID-CLOUD	United States	Pending	
		INFRASTRUCTURES	of America		
13/546,765	_	SEMI-AUTOMATIC DISCOVERY	United States	Pending	
		AND GENERATION OF USEFUL	of America		
		SERVICE BLUEPRINTS			
13/623,593	_	ESTIMATING INDIRECT	United States	Pending	
		INTERFACE IMPLEMENTATION	of America		
		BEFORE LOAD TIME BASED ON			
		DIRECTLY IMPLEMENTED			

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		METHODS			
13/625,257	_	ZERO-OUTAGE DATABASE	United States	Pending	
		REORGANIZATION	of America		
13/630,852	_	AUTOMATED CAPACITY	United States	Pending	
,		AWARE PROVISIONING	of America		
13/631,189	_	ELASTIC PACKAGING OF	United States	Pending	
		APPLICATION CONFIGURATION	of America	8	
13/630,784	_	EFFICIENT METHOD DATA	United States	Pending	
		RECORDING	of America		
13/631,328	_	APPLICATION OF BUSINESS	United States	Pending	
10, 001,020		PROCESS MANAGEMENT	of America	Tomanig	
		STANDARDS FOR DYNAMIC	or runerica		
		INFORMATION TECHNOLOGY			
		MANAGEMENT PROCESS AND			
		INTEGRATIONS			
13/731,211		PROGRESSIVE ANALYSIS FOR	United States	Pending	
101101,211		BIG DATA	of America	Tonding	
61/711,189		PROGRESSIVE ANALYSIS FOR	United States	Pending	
01//11,109	_	BIG DATA	of America	Tending	
61/714,222		PROGRESSIVE ANALYSIS FOR	United States	Pending	
01//14,222	_	BIG DATA	of America	rending	
12/721 264		USER-CENTRIC ANNOTATED	United States	Dan din a	
13/731,264	—			Pending	
		LOCATION AWARE ASSET	of America		
(1/717 (25		MAPPING WORKELAGE AGGET	TT '4 1 C4 4	D 1'	
61/717,635	_	WORKPLACE ASSET	United States	Pending	
		IDENTIFICATION, LOCATION	of America		
		AND CONTEXT AWARE			
12/721 200		TAGGING AND STATUS	TT 1: 1 C	D 1'	
13/731,309		MANAGEMENT OF ANNOTATED	United States	Pending	
12/710 (0)		LOCATION AWARE ASSETS	of America	D 1'	
13/719,686	—	RELATIVE ADDRESSING USAGE	United States	Pending	
12/722 202		FOR CPU PERFORMANCE	of America		
13/732,292	—	ADDITIVE INDEPENDENT	United States	Pending	
12:00 2:00		OBJECT MODIFICATION	of America		
13/793,568	—	SYSTEM AND METHODS FOR	United States	Pending	
		REMOTE ACCESS TO IMS	of America		
		DATABASES			
13/727,017	—	AUTOMATIC CREATION OF	United States	Pending	
		GRAPH TIME LAYER OF MODEL	of America		
		OF COMPUTER NETWORK			
		OBJECTS AND RELATIONSHIPS			
13/007,992	20120185840	COMPUTER-READABLE	United States	Pending	BMC
		MEDIUM, APPARATUS, AND	of America		Software,
		METHODS OF AUTOMATIC			Inc.
		CAPABILITY INSTALLATION			
13/732,197	<u> </u>	MEMORY LEAK DETECTION	United States	Pending	
			of America		
13/731,330	<u> </u>	PROACTIVE ROLE AWARE	United States	Pending	
		ASSET MONITORING	of America		
		COMPUTING INFRASTRUCTURE	United States	Pending	
13/780,548		com chio hi markeciere	O III CO O CONTO	1 chang	

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
13/793,365	_	SYSTEMS AND METHODS FOR	United States	Pending	
		REMOTE ACCESS TO DB2	of America		
		DATABASES			
13/772,040	_	EXCEPTION BASED QUALITY	United States	Pending	
		ASSESSMENT	of America		
13/789,542	_	IMS DL/I APPLICATION	United States	Pending	
		ACCELERATOR	of America		
13/795,071	_	BEHAVIORAL RULES	United States	Pending	
		DISCOVERY FOR INTELLIGENT	of America		
		COMPUTING ENVIRONMENT			
		ADMINISTRATION			
61/777,830	_	UNICODE CHARACTER	United States	Pending	
		CONVERSION	of America		
13/932,742	_	[Claims benefit of 13/007,992]	United States	Pending	BMC
			of America		Software,
					Inc.
13/932747	_	[Claims benefit of 13/007,992]	United States	Pending	BMC
			of America		Software,
					Inc.
13/958,283	_	[Claims benefit of 12/582948]	United States	Pending	BladeLogic,
			of America		Inc.
13/856,089	_	[Unpublished application]	United States	Pending	
			of America		
10/152,509	20020178262	SYSTEM AND METHOD FOR	United States	Pending	BMC
		DYNAMIC LOAD BALANCING	of America		Software,
					Inc.

Release of Patent Security Agreement recorded July 27, 2017 at Reel/Frame 043351/0181

Additional US Patents Issued:

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
12/684,036	8898237	INFORMATION PORTAL BASED ON PARTNER INFORMATION	United States of America	Issued	BMC Software Acquisition, L.L.C.

Additional US Patents Pending:

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
13/359,236		NETWORK BASED APPLICATION MANAGEMENT	United States of America	Pending	BMC Software Acquisition, L.L.C.
14/136,879	20140181803	APPLICATION WRAPPING SYSTEM AND METHOD	United States of America	Published	BMC Software Acquisition, L.L.C.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14/244,527	20140366014	SYSTEM AND METHOD FOR AUTOMATED CUSTOMIZATION OF APPLICATIONS	United States of America	Published	BMC Software Acquisition, L.L.C.

Release of Patent Security Agreement recorded July 27, 2017 at Reel/Frame 043351/0231

Additional US Patents Issued:

APPLN#	PATENT #	TITLE	COUNTRY	STATUS	OWNER
09/050,609	6016501	ENTERPRISE DATA MOVEMENT SYSTEM AND METHOD WHICH PERFORMS DATA LOAD AND CHANGED DATA PROPAGATION OPERATIONS	United States of America	Issued	BMC Software, Inc. and Informatica Corporation
09/728,937	6772411	SOFTWARE PERFORMANCE AND MANAGEMENT SYSTEM	United States of America	Issued	BMC Software, Inc.
08/993,964	5887274	RESTARTABLE FAST DB2 TABLESPACE REORGANIZATION METHOD	United States of America	Issued	BMC Software, Inc.
08/588,862	5758357	FAST DB2 TABLESPACE REORGANIZATION METHOD THAT IS RESTARTABLE AFTER INTERRUPTION OF THE PROCESS	United States of America	Issued	BMC Software, Inc.

Additional US Patents Pending:

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14/512,919		SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MODEL	United States of America	Pending	BMC Software, Inc.
14/513,676		UTILITY-OPTIMIZED SCHEDULING OF TIME- SENSITIVE TASKS IN A	United States of America	Published	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14/535,030		BI-DIRECTIONAL COMMUNICATION BETWEEN CHANGE MANAGEMENT TOOL	United States of America	Published	BMC Software, Inc.
14/563,830		SYSTEMS AND METHODS FOR DISPLAYING AND VIEWING DATA MODELS	United States of America	Pending	BMC Software, Inc.
14/568,928		AUTOMATED BLUEPRINT ASSEMBLY FOR ASSEMBLING AN APPLICATION	United States of America	Pending	BMC Software, Inc.
14/568,958		AUTOMATED BLUEPRINT ASSEMBLY FOR ASSEMBLING AN APPLICATION	United States of America	Pending	BMC Software, Inc.
14/579,436		ENFORCING REFERENTIAL INTEGRITY FOR OBJECT DATA DOCUMENTS	United States of America	Pending	BMC Software, Inc.
14/610,117		DYNAMIC VIRTUAL PORT PROVISIONING	United States of America	Pending	BMC Software, Inc.
14/624,129		WINDOW-BASED SCHEDULING USING A KEY-VALUE DATA STORE	United States of America	Pending	BMC Software, Inc.
14/635,489		MULTI-LEVEL KEY MANAGEMENT	United States of America	Pending	BladeLogic, Inc.
14/640,581		MEMORY LEAK DETECTION	United States of America	Pending	BMC Software, Inc.
14/659,002		MECHANISM FOR DEPRECATING OBJECT ORIENTED DATA	United States of America	Pending	BMC Software, Inc.
14/659,337		MAINTAINING VIRTUAL MACHINE TEMPLATES	United States of America	Pending	BMC Software, Inc.
14/665,950		DYNAMIC WORKLOAD CAPPING	United States of America	Pending	BMC Software, Inc.
14/674,742		SMART RECORDER	United States of America	Pending	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14/674,751		SYSTEMS AND METHODS FOR FORMLESS INFORMATION TECHNOLOGY AND SOCIAL	United States of America	Pending	BMC Software, Inc.
13/804,694	20140279992	STORING AND RETRIEVING CONTEXT SENSITIVE DATA IN A MANAGEMENT SYSTEM	United States of America	Published	BMC Software, Inc.
13/835,739	20140281891	CONFIGURABLE USER INTERFACE INTERACTIONS USING A STATE MACHINE	United States of America	Published	BMC Software, Inc.
13/838,605	20140278818	BUSINESS DEVELOPMENT CONFIGURATION	United States of America	Published	BMC Software, Inc.
13/840,053	20140282519	MANAGING A SERVER TEMPLATE	United States of America	Allowed	BMC Software, Inc.
13/842,072	20140280130	MULTI-ENTITY NORMALIZATION	United States of America	Published	BMC Software, Inc.
13/842,252	20140266818	STORY-MODE USER INTERFACE	United States of America	Published	BMC Software, Inc.
13/843,648	20140279977	DATA ACCESS OF SLOWLY CHANGING DIMENSIONS	United States of America	Published	BMC Software, Inc.
13/850,724	20140282225	OFF-SCREEN WINDOW CONTROLS	United States of America	Published	BMC Software, Inc.
13/874,202	20140278326	SERVICE PLACEMENT TECHNIQUES FOR A CLOUD DATACENTER	United States of America	Published	BMC Software, Inc.
13/915,233	20140266818	UNICODE CHARACTER CONVERSION	United States of America	Allowed	BMC Software, Inc.
13/929,351	20140278646	WORK ASSIGNMENT QUEUE ELIMINATION	United States of America	Published	BMC Software, Inc.
13/930,453	20140280346	METHOD AND SYSTEM TO RELEASE IMS RESOURCES USED BY IMS BATCH APPLICATION	United States of America	Published	BMC Software, Inc.
13/930,466	20140278600	AUCTION BASED DECENTRALIZED TICKET ALLOTMENT	United States of America	Published	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
13/931,560	2015-0007291	AUTHENTICATION PROXY AGENT	United States of America	Published	BMC Software, Inc.
14/041,753		WORKLOAD MANAGEMENT FOR LICENSE COST OPTIMIZATION	United States of America	Pending	BMC Software, Inc.
14/041,973	20140025647	NORMALIZATION ENGINE TO MANAGE CONFIGURATION MANAGEMENT DATABASE	United States of America	Published	BMC Software, Inc.
14/044,614	20140032768	AUTOMATED CAPACITY PROVISIONING METHOD USING HISTORICAL PERFORMANCE	United States of America	Allowed	BMC Software, Inc.
14/067,824	20140280068	ADAPTIVE LEARNING OF EFFECTIVE TROUBLESHOOTING PATTERNS	United States of America	Published	BMC Software, Inc.
14/069,819		SYSTEMS AND METHODS FOR EFFICIENT DB2 OUTAGE OPERATIONS	United States of America	Pending	BMC Software, Inc.
14/143,517		LIFECYCLE REFERENCE PARTITIONING FOR DATABASE OBJECTS	United States of America	Pending	BMC Software, Inc.
14/145,216		SERVER PROVISIONING BASED ON JOB HISTORY ANALYSIS	United States of America	Pending	BMC Software, Inc.
14/164,524	20140143416	GENERIC DISCOVERY FOR COMPUTER NETWORKS	United States of America	Published	BMC Software, Inc.
14/185,563	20140172786	OFFLINE RESTRUCTURING OF DEDB DATABASES	United States of America	Published	BMC Software, Inc.
14/204,437	20140195504	STATISTICAL IDENTIFICATION OF INSTANCES DURING RECONCILIATION PROCESS	United States of America	Published	BMC Software, Inc.
14/265,923	20140237560	SECURITY CONTEXT PASSING FOR STATELESS SYSTEM MANAGEMENT	United States of America	Published	BladeLogic, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14/285,434		SELF-EVOLVING COMPUTING SERVICE TEMPLATE TRANSLATION	United States of America	Pending	BMC Software, Inc.
14/290,291	20140278824	SERVICE CONTEXT	United States of America	Published	BMC Software, Inc.
14/310,539		MONITORING SIGNED RESOURCES TRANSFERRED OVER A NETWORK	United States of America	Pending	BMC Software, Inc.
14/319,918		CAPACITY RISK MANAGEMENT FOR VIRTUAL MACHINES	United States of America	Pending	BMC Software, Inc.
14/454,122	20140358966	METHOD FOR CUSTOMIZING SOFTWARE APPLICATIONS	United States of America	Published	BMC Software, Inc.
14/463,236		UNOBTRUSIVE COPIES OF ACTIVELY USED COMPRESSED INDICES	United States of America	Published	BMC Software, Inc.
14/466,528	20140365121	USER-CENTRIC ANNOTATED LOCATION AWARE ASSET MAPPING	United States of America	Published	BMC Software, Inc.
14/466,559	20140365489	MANAGEMENT OF ANNOTATED LOCATION AWARE ASSETS	United States of America	Published	BMC Software, Inc.
14/467,743	20140365439	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Published	BMC Software, Inc.
14/467,768		SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Published	BMC Software, Inc.

Release of Patent Security Agreement recorded July 27, 2017 at Reel/Frame 043351/0189

Additional US Patents Issued:

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
11928730	9,037,536	DATABASE	United States	Issued	BMC Software, Inc.
		MANAGEMENT SYSTEM	of America		
		AND METHOD WHICH			
		MONITORS ACTIVITY			
		LEVELS AND			
		DETERMINES			
		APPROPRIATE			
		SCHEDULE TIMES			

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
11204189	9,137,115	RESOURCE	United States	Issued	BMC Software, Inc.
		RECONCILIATION	of America		
14512919	9,239,857	SYSTEM AND METHOD	United States	Issued	BMC Software, Inc.
		FOR BUILDING	of America		
		BUSINESS SERVICE MODEL			
14535030	9,152,413	BI-DIRECTIONAL	United States	Issued	BMC Software, Inc.
11333030	7,132,113	COMMUNICATION	of America	Issueu	Divic gottware, inc.
		BETWEEN CHANGE			
		MANAGEMENT TOOL			
		AND IMPLEMENTATION			
		TOOLS			
11538393	9,122,719	DATABASE	United States	Issued	BMC Software, Inc.
		APPLICATION	of America		
14044614	9,065,783	FEDERATION AUTOMATED CAPACITY	United States	Issued	BMC Software, Inc.
14044014	9,003,763	PROVISIONING METHOD	of America	Issued	DIVIC Software, file.
		USING HISTORICAL	or rinerica		
		PERFORMANCE DATA			
13856089	9,100,283	METHOD AND SYSTEM	United States	Issued	BladeLogic, Inc.
		FOR SIMPLIFYING	of America		_
		DISTRIBUTED SERVER			
		MANAGEMENT			
13958283	9,094,217	SECURE CREDENTIAL	United States	Issued	BladeLogic, Inc.
12485632	9,251,149	STORE DATA SET SIZE	of America United States	Issued	BMC Software, Inc.
12463032	9,231,149	TRACKING AND	of America	Issued	Divic Software, file.
		MANAGEMENT	or runerieu		
12626109	9,177,004	BALANCING DATA	United States	Issued	BMC Software, Inc.
		ACROSS PARTITIONS OF	of America		
		A TABLE SPACE DURING			
		LOAD PROCESSING			
12617504	9,037,555	ASYNCHRONOUS	United States	Issued	BMC Software, Inc.
		COLLECTION AND CORRELATION OF	of America		
		TRACE AND			
		COMMUNICATIONS			
		EVENT DATA			
13612187	9,158,572	METHOD TO	United States	Issued	BMC Software, Inc.
		AUTOMATICALLY	of America		
		REDIRECT SRB			
		ROUTINES TO A ZIIP			
1/105562	0.129.076	ELIGIBLE ENCLAVE	United States	Looned	DMC Software In-
14185563	9,128,976	OFFLINE RESTRUCTURING OF	United States of America	Issued	BMC Software, Inc.
		DEDB DATABASES	OI AIRCICA		
12872921	9,122,536	AUTOMATING	United States	Issued	BMC Software, Inc.
	-,1 -2, 550	APPLICATION	of America		_ 1.12 2011
		PROVISIONING FOR			
		HETEROGENEOUS			

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		DATACENTER ENVIRONMENTS			
12904785	9,274,811	SYSTEM AND METHOD FOR CLOUD PROVISIONING AND APPLICATION DEPLOYMENT	United States of America	Issued	BladeLogic, Inc.
12967456	9,003,378	CLIENT-SIDE APPLICATION SCRIPT ERROR PROCESSING	United States of America	Issued	BMC Software, Inc.
13433678	9,195,563	USE OF METRICS SELECTED BASED ON LAG CORRELATION TO PROVIDE LEADING INDICATORS OF SERVICE PERFORMANCE DEGRADATION	United States of America	Issued	BMC Software, Inc.
13174668	9,250,918	SERVER MANAGEMENT WITH DYNAMIC CONSTRUCTION OF PRE- BOOT IMAGES	United States of America	Issued	BMC Software, Inc.
13174308	9,116,968	METHODS AND APPARATUS RELATED TO GRAPH TRANSFORMATION AND SYNCHRONIZATION	United States of America	Issued	BMC Software, Inc.
13247818	9,015,188	METHODS AND APPARATUS FOR MONITORING EXECUTION OF A DATABASE QUERY PROGRAM	United States of America	Issued	BMC Software, Inc.
13251101	9,104,429	METHODS AND APPARATUS FOR PERFORMANCE DATABASE MANAGEMENT UTILITY PROCESSES	United States of America	Issued	BMC Software, Inc.
13251187	9,189,134	DISPLAY WINDOW WITH MULTI- LAYER, PARALLEL TAB DISPLAY	United States of America	Issued	BMC Software, Inc.
13341144	9,100,320	MONITORING NETWORK PERFORMANCE REMOTELY	United States of America	Issued	BMC Software, Inc.
13432847	9,197,606	MONITORING NETWORK PERFORMANCE OF ENCRYPTED COMMUNICATIONS	United States of America	Issued	BladeLogic, Inc.

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APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
13341171	9,300,624	REGISTRY	United States	Issued	BMC Software, Inc.
		SYNCHRONIZER AND	of America		
10011500		INTEGRITY MONITOR			
13341693	9,152,659	SYSTEMS AND	United States	Issued	BMC Software, Inc.
		METHODS FOR	of America		
		MIGRATING DATABASE			
10400177	0.000.600	DATA	TI ' 10'	T 1	DMC C C I
13433177	9,223,623	DYNAMIC SERVICE	United States	Issued	BMC Software, Inc.
14205424	0.207.100	RESOURCE CONTROL	of America	T 1	DMC C C I
14285434	9,286,189	SELF-EVOLVING	United States	Issued	BMC Software, Inc.
		COMPUTING SERVICE	of America		
		TEMPLATE TRANSLATION			
13457189	9,251,026	APPLICATION	United States	Issued	BMC Software, Inc.
1545/169	9,231,020	INSTRUMENTATION	of America	Issued	bivic software, file.
		CODE EXTENSION	of America		
13538591	9,122,552	HYBRID-CLOUD	United States	Issued	BMC Software, Inc.
13336331	9,122,332	INFRASTRUCTURES	of America	Issued	Divic Software, inc.
13630852	9,135,076	AUTOMATED CAPACITY	United States	Issued	BMC Software, Inc.
13030032	7,133,070	AWARE PROVISIONING	of America	Issueu	bivic software, me.
14466528	9,261,372	USER-CENTRIC	United States	Issued	BMC Software, Inc.
14400320	7,201,372	ANNOTATED LOCATION	of America	Issued	Bivic Software, me.
		AWARE ASSET MAPPING	or runerica		
13719686	9,122,495	RELATIVE ADDRESSING	United States	Issued	BMC Software, Inc.
13/1/000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	USAGE FOR CPU	of America	Issued	Bivio Software, me.
		PERFORMANCE			
13793568	9,218,226	SYSTEM AND METHODS	United States	Issued	BMC Software, Inc.
		FOR REMOTE ACCESS	of America		,
		TO IMS DATABASES			
13727017	9,208,051	AUTOMATIC CREATION	United States	Issued	BMC Software, Inc.
		OF GRAPH TIME LAYER	of America		
		OF MODEL OF			
		COMPUTER NETWORK			
		OBJECTS AND			
		RELATIONSHIPS			
13840053	9,098,322	MANAGING A SERVER	United States	Issued	BMC Software, Inc.
		TEMPLATE	of America		
13007992	9,207,928	COMPUTER-READABLE	United States	Issued	BladeLogic, Inc.
		MEDIUM, APPARATUS,	of America		
		AND METHODS OF			
		AUTOMATIC			
		CAPABILITY			
12722107	0.002.222	INSTALLATION	United States	Issued	DMC Softwood La
13732197	9,003,233	MEMORY LEAK DETECTION	United States of America	Issued	BMC Software, Inc.
13850724	9,213,555	OFF-SCREEN WINDOW	United States	Issued	BMC Software, Inc.
13030724	9,213,333	CONTROLS	of America	Issued	bivic software, file.
13793365	9,218,401	SYSTEMS AND	United States	Issued	BMC Software, Inc.
13/33303	9,210,401	METHODS FOR REMOTE	of America	155000	DIVIC SUITWAIC, IIIC.
		ACCESS TO DB2	Of Afficied		
	<u> </u>	ACCESS TO DB2			

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
		DATABASES			
13772040	9,052,980	EXCEPTION BASED	United States	Issued	BMC Software, Inc.
		QUALITY ASSESSMENT	of America		
13804694	9,158,799	STORING AND	United States	Issued	BMC Software, Inc.
		RETRIEVING CONTEXT	of America		
		SENSITIVE DATA IN A			
		MANAGEMENT SYSTEM			
13789542	9,098,557	IMSDL/I APPLICATION	United States	Issued	BMC Software, Inc.
		ACCELERATOR	of America		
13843648	9,208,183	DATA ACCESS OF	United States	Issued	BladeLogic, Inc.
		SLOWLY CHANGING	of America		
		DIMENSIONS			
13795071	9,195,943	BEHAVIORAL RULES	United States	Issued	BladeLogic, Inc.
		DISCOVERY FOR	of America		
		INTELLIGENT			
		COMPUTING			
		ENVIRONMENT			
		ADMINISTRATION			
13915233	9,048,854	UNICODE CHARACTER	United States	Issued	BMC Software, Inc.
		CONVERSION	of America		

Additional US Patents Pending:

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14729684	US-2015-0269276-A1	SERVICE DESK DATA	United States	Published	BMC Software,
		TRANSFER INTERFACE	of America		Inc.
14851899	US-2015-0381419-Al	RESOURCE	United States	Published	BMC Software,
		RECONCILIATION	of America		Inc.
14997945		SYSTEM AND METHOD	United States	Pending	BMC Software,
		FOR BUILDING SERVICE	of America		Inc.
		MODEL			
14872869	US-2016-0019059-A1	BI-DIRECTIONAL	United States	Published	BMC Software,
		COMMUNICATION	of America		Inc.
		BETWEEN CHANGE			
		MANAGEMENT TOOL			
		AND IMPLEMENTATION			
		TOOLS			
14839167		DATABASE	United States	Pending	BMC Software,
		APPLICATION	of America		Inc.
		FEDERATION			
14743161	US-2015-0309840-A1	AUTOMATED CAPACITY	United States	Allowed	BMC Software,
		PROVISIONING METHOD	of America		Inc.
		USING HISTORICAL			
		PERFORMANCE DATA			
14802507	US-2015-0326423-A1	METHOD AND SYSTEM	United States	Published	BladeLogic, Inc.
		FOR SIMPLIFYING	of America		
		DISTRIBUTED SERVER			
		MANAGEMENT			
14836517	US-2015-0363235-A1	AUTOMATING	United States	Published	BMC Software,

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APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		APPLICATION	of America		Inc.
		PROVISIONING FOR			
		HETEROGENEOUS			
		DATACENTER			
		ENVIRONMENTS			
15072948		STATISTICAL	United States	Pending	BMC Software,
		IDENTIFICATION OF	of America		Inc.
		INSTANCES DURING			
		RECONCILIATION			
		PROCESS			
15054710		SYSTEM AND METHOD	United States	Pending	BladeLogic, Inc.
		FOR CLOUD	of America		
		PROVISIONING AND			
		APPLICATION			
		DEPLOYMENT			
14798029		METHODS AND	United States	Pending	BMC Software,
		APPARATUS RELATED	of America		Inc.
		TO GRAPH			
		TRANSFORMATION AND			
		SYNCHRONIZATION			
14682804	US-2015-0213017-A1	METHODS AND	United States	Published	BMC Software,
		APPARATUS FOR	of America		Inc.
		MONITORING			
		EXECUTION OF A			
		DATABASE QUERY			
1101=750		PROGRAM			
14947569		MONITORING NETWORK	United States	Pending	BladeLogic, Inc.
		PERFORMANCE OF	of America		
		ENCRYPTED			
15046064		COMMUNICATIONS	TT 1: 1 C:	D 1'	DMCC C
15046964		REGISTRY	United States	Pending	BMC Software,
		SYNCHRONIZER AND	of America		Inc.
14007060	TIC 2017 02/2470 A1	INTEGRITY MONITOR	TT ': 1 C: :	D 11: 1 1	DMC C C
14837862	US-2015-0363458-A1	SYSTEMS AND METHODS	United States	Published	BMC Software,
		FOR MIGRATING	of America		Inc.
15005550		DATABASE DATA	TI-it-1 Ct-t-	D 1	DMC C - C
15005550		APPLICATION INSTRUMENTATION	United States	Pending	BMC Software,
			of America		Inc.
14821376	US-2016-0041817-A1	CODE EXTENSION HYBRID-CLOUD	United States	Published	BMC Software,
140213/0	US-2010-004181/-A1 	INFRASTRUCTURES	of America	ruonsnea	· ·
14943669	US-2016-0072909-A1	SYSTEM AND METHODS	United States	Published	Inc. BMC Software,
14743009	US-2010-00/2909-A1 	FOR REMOTE ACCESS TO	of America	ruonsnea	l '
		IMS DATABASES	of America		Inc.
14961235	US-2016-0092623-A1	AUTOMATIC CREATION	United States	Published	BMC Software,
14701233	US-2010-0092025-A1 	OF GRAPH TIME LAYER	of America	rublished	Inc.
		OF GRAPH TIME LAYER OF MODEL OF	of America		inc.
		COMPUTER NETWORK			
		OBJECTS AND			
		RELATIONSHIPS			
	<u> </u>	KLLATIONSIII S			

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
14789627	US-2015-0301851-A1	MANAGING A SERVER	United States	Published	BMC Software,
		TEMPLATE	of America		Inc.
14943717	US-2016-0070798-A1	SYSTEMS AND METHODS	United States	Published	BMC Software,
		FOR REMOTE ACCESS TO	of America		Inc.
		DB2 DATABASES			
14877332	US-2016-0034503-A1	STORING AND	United States	Published	BMC Software,
		RETRIEVING CONTEXT	of America		Inc.
		SENSITIVE DATA IN A			
		MANAGEMENT SYSTEM			
14947625	US-2016-0078356-A1	BEHAVIORAL RULES	United States	Published	BladeLogic, Inc.
		DISCOVERY FOR	of America		
		INTELLIGENT			
		COMPUTING			
		ENVIRONMENT			
17076100		ADMINISTRATION	77.1.10		73.50.0.0
15056108		LIFECYCLE REFERENCE	United States	Pending	BMC Software,
		PARTITIONING FOR	of America		Inc.
1.47505.40		DATABASE OBJECTS	77.1.1.0	75 11	DMG G G
14750549		DYNAMIC RANKING OF	United States	Pending	BMC Software,
(22(0217		CONFIGURATION ITEMS	of America	75 11	Inc.
62268317		USING MULTI-FACTOR	United States	Pending	BMC Software,
		CONTEXT FOR	of America		Inc.
		RESOLVING CUSTOMER			
14840954		SERVICE ISSUES METHOD FOR LIMITLESS	United States	Dandina	DMC Coftwore
14840934		EXTENSIBILITY OF	of America	Pending	BMC Software,
		BUSINESS LOGIC	of America		Inc.
		SHARED ACROSS			
		BUSINESS PROCESS			
		ORCHESTRATION			
		ENGINE, RULE ENGINE			
		AND USER INTERFACE			
		RESULTING IN RAPID			
		DEVELOPMENT OF			
		FLEXIBLE BUSINESS			
		PROCESS APPLICATIONS			
14840708		MLC COST	United States	Pending	BMC Software,
		OPTIMIZATION IN	of America		Inc.
		DYNAMIC CAPPING			
62303820		TRANSPARENT AND	United States	Pending	BMC Software,
		SEAMLESS NETWORK	of America		Inc.
		VIRTUALIZATION FOR			
		CONTAINER			
		MANAGEMENT			
62276618		REORGANIZATION OF	United States	Pending	BMC Software,
		PARTITION BY GROWTH	of America		Inc.
		SPACE WITH LOB			
		COLUMNS			

Release of Patent Security Agreement recorded August 10, 2017 at Reel/Frame 043514/0845

Additional US Patents Issued:

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
13027131	9449067	CONSTRAINT PROCESSING	United States of America	Issued	BMC Software, Inc.
14743161	9405587	AUTOMATED CAPACITY PROVISIONING METHOD USING HISTORICAL PERFORMANCE DATA	United States of America	Issued	BMC Software, Inc.
13612071	9477518	A METHOD TO AUTOMATICALLY REDIRECT SRB ROUTINES TO A ZIIP ELIGIBLE ENCLAVE	United States of America	Issued	BMC Software, Inc.
14265923	9489499	SECURITY CONTEXT PASSING FOR STATELESS SYSTEM MANAGEMENT	United States of America	Issued	BladeLogic Inc.
14454122	9363252	METHOD FOR CUSTOMIZING SOFTWARE APPLICATIONS	United States of America	Issued	BMC Software, Inc.
12895284	9467344	MECHANISM TO DISPLAY GRAPHICAL IT INFRASTRUCTURE USING CONFIGURABLE SMART NAVIGATION	United States of America	Issued	BMC Software, Inc.
14204437	9323801	STATISTICAL IDENTIFICATION OF INSTANCES DURING RECONCILIATION PROCESS	United States of America	Issued	BMC Software, Inc.
12939857	9491052	TOPOLOGY AWARE SMART MERGE	United States of America	Issued	BladeLogic Inc.
14290291	9412084	SERVICE CONTEXT	United States of America	Issued	BMC Software, Inc.

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
13650827	9356846	AUTOMATED UPGRADING METHOD FOR CAPACITY OF IT SYSTEM RESOURCES	United States of America	Issued	BMC Software, Inc.
13650767	9350627	AUTOMATED SERVICE TIME ESTIMATION METHOD FOR IT SYSTEM RESOURCES	United States of America	Issued	BMC Software, Inc.
15046964	9516109	REGISTRY SYNCHRONIZER AND INTEGRITY MONITOR	United States of America	Issued	BMC Software, Inc.
12032087	9442708	SYSTEM AND METHOD FOR INSTALLING, UPDATING AND UNINSTALLING APPLICATIONS	United States of America	Issued	BladeLogic Inc.
14568928	9557969	AUTOMATED BLUEPRINT ASSEMBLY FOR ASSEMBLING AN APPLICATION	United States of America	Issued	BMC Software, Inc.
13625257	9547672	ZERO-OUTAGE DATABASE REORGANIZATION	United States of America	Issued	BMC Software, Inc.
14466559	9534903	MANAGEMENT OF ANNOTATED LOCATION AWARE ASSETS	United States of America	Issued	BMC Software, Inc.
14789627	9519504	MANAGING A SERVER TEMPLATE	United States of America	Issued	BMC Software, Inc.
13780548	9317327	COMPUTING INFRASTRUCTURE PLANNING	United States of America	Issued	BMC Software, Inc.
13930453	9336067	METHOD AND SYSTEM TO RELEASE IMS RESOURCES USED BY IMS BATCH APPLICATION PROGRAMS	United States of America	Issued	BMC Software, Inc.

APPLN#	PATENT#	TITLE	COUNTRY	STATUS	OWNER
14947625	9563849	BEHAVIORAL RULES DISCOVERY FOR INTELLIGENT COMPUTING ENVIRONMENT ADMINISTRATION	United States of America	Issued	BladeLogic Inc.
13838605	9508051	BUSINESS DEVELOPMENT CONFIGURATION	United States of America	Issued	BMC Software, Inc.
14136879	9535674	APPLICATION WRAPPING SYSTEM AND METHOD	United States of America	Issued	BMC Software, Inc.
13359236	9396499	NETWORK BASED APPLICATION MANAGEMENT	United States of America	Issued	BMC Software, Inc.
14069819	9342351	SYSTEMS AND METHODS FOR EFFICIENT DB2 OUTAGE OPERATIONS	United States of America	Issued	BMC Software, Inc.
14143517	9311381	LIFECYCLE REFERENCE PARTITIONING FOR DATABASE OBJECTS	United States of America	Issued	BMC Software, Inc.
14319918	9483299	CAPACITY RISK MANAGEMENT FOR VIRTUAL MACHINES	United States of America	Issued	BMC Software, Inc.
14610117	9535737	DYNAMIC VIRTUAL PORT PROVISIONING	United States of America	Issued	BladeLogic Inc.
14665950	9342372	DYNAMIC WORKLOAD CAPPING	United States of America	Issued	BMC Software, Inc.

Additional US Patents Pending:

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15476704		RESOURCE RECONCILIATION	United States of America	Pending	BMC Software, Inc.
15222491	US-2016-0335122- A1	AUTOMATED CAPACITY PROVISIONING METHOD USING HISTORICAL PERFORMANCE DATA	United States of America	Pending	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15247666		SYSTEM AND METHOD FOR INSTALLING, UPDATING AND UNINSTALLING APPLICATIONS	United States of America	Pending	BladeLogic Inc.
15407107	US-2017-0124122- A1	ZERO-OUTAGE DATABASE REORGANIZATION	United States of America	Published	BMC Software, Inc.
15476528		MANAGEMENT OF ANNOTATED LOCATION AWARE ASSETS	United States of America	Pending	BMC Software, Inc.
15476609		ADDITIVE INDEPENDENT OBJECT MODIFICATION	United States of America	Pending	BMC Software, Inc.
15363860	US-2017-0083357- A1	MANAGING A SERVER TEMPLATE	United States of America	Published	BMC Software, Inc.
15436144		MULTI-ENTITY NORMALIZATION	United States of America	Pending	BMC Software, Inc.
15388382	US-2017-0103328- A1	BEHAVIORAL RULES DISCOVERY FOR INTELLIGENT COMPUTING ENVIRONMENT ADMINISTRATION	United States of America	Published	BladeLogic Inc.
15385216	US-2017-0102928- A1	APPLICATION WRAPPING SYSTEM AND METHOD	United States of America	Published	BMC Software, Inc.
15211883	US-2016-0330273- A1	NETWORK BASED APPLICATION MANAGEMENT	United States of America	Published	BMC Software, Inc.
15335343	US-2017-0046190- A1	CAPACITY RISK MANAGEMENT FOR VIRTUAL MACHINES	United States of America	Published	BMC Software, Inc.
15335349	US-2017-0046191- A1	CAPACITY RISK MANAGEMENT FOR VIRTUAL MACHINES	United States of America	Published	BMC Software, Inc.
15335350	US-2017-0046192- A1	CAPACITY RISK MANAGEMENT FOR VIRTUAL MACHINES	United States of America	Published	BMC Software, Inc.
15476677		ENFORCING REFERENTIAL INTEGRITY FOR OBJECT DATA DOCUMENTS	United States of America	Pending	BladeLogic Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15151127	US-2016-0283926- A1	DYNAMIC WORKLOAD CAPPING	United States of America	Pending	BMC Software, Inc.
15175711		USING MULTI-FACTOR CONTEXT FOR RESOLVING CUSTOMER SERVICE ISSUES	United States of America	Pending	BMC Software, Inc.
15450936		PROVISIONING OF CONTAINERS FOR VIRTUALIZED APPLICATIONS	United States of America	Pending	BladeLogic Inc.
15184209		REORGANIZATION OF PARTITION BY GROWTH SPACE WITH LOB COLUMNS	United States of America	Pending	BMC Software, Inc.
15262723		DYNAMIC ADJUSTMENT OF ENTITLEMENT TO ACCOMMODATE HIGHEST BUSINESS PRIORITY ON MAINFRAME TRANSACTIONS	United States of America	Pending	BMC Software, Inc.
15452309		DYNAMICALLY VARYING PROCESSING CAPACITY ENTITLEMENTS	United States of America	Pending	BMC Software, Inc.
15272011		METHOD FOR CREATION OF COUNTRY MULTIPLEX PRICING COST MODELS	United States of America	Pending	BMC Software, Inc.
15287151		AUTOMATIC SERVER CLUSTER DISCOVERY	United States of America	Pending	BMC Software, Inc.
15418060		AUTOMATED SCORING OF UNSTRUCTURED EVENTS IN INFORMATION TECHNOLOGY ENVIRONMENTS	United States of America	Pending	BMC Software, Inc.
15476573		ASSET FLOOR MAP	United States of America	Pending	BMC Software, Inc.
15476694		BEHAVIORAL ANALYTICS IN INFORMATION TECHNOLOGY INFRASTRUCTURE INCIDENT MANAGEMENT SYSTEMS	United States of America	Pending	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15475830		PHASED START AND STOP OF RESOURCES IN A MAINFRAME ENVIRONMENT	United States of America	Pending	BMC Software, Inc.
62480250		SYSTEMS AND METHODS FOR INTERCEPTING ACCESS TO MESSAGING SYSTEMS	United States of America	Pending	BMC Software, Inc.
15476478		CLOUD SERVICE INTERDEPENDENCY RELATIONSHIP DETECTION	United States of America	Pending	BMC Software, Inc.
14041753	US-2015-0095089- A1	WORKLOAD MANAGEMENT FOR LICENSE COST OPTIMIZATION	United States of America	Published	BMC Software, Inc.
13900441	US-2015-0358391- A1	APPLICATION MONITORING FOR CLOUD-BASED ARCHITECTURES	United States of America	Published	BMC Software, Inc.

Release of Patent Security Agreement recorded June 22, 2018 at Reel/Frame 046176/0477

Additional US Patents Pending:

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15940121		GENERIC DISCOVERY FOR COMPUTER NETWORKS	United States of America	Pending	BMC Software, Inc.
15915754		SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MODEL	United States of America	Pending	BMC Software, Inc.
15699571	US-2018-0011916- A1	OVERLAY DATASET	United States of America	Published	BMC Software, Inc.
15699582	US-2018-0011917- A1	OVERLAY DATASET	United States of America	Published	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15783355	US-2018-0069747- A1	METHOD AND SYSTEM FOR SIMPLIFYING DISTRIBUTED SERVER MANAGEMENT	United States of America	Published	BladeLogic Inc.
15680718	US-2017-0364410- A1	UNOBTRUSIVE COPIES OF ACTIVELY USED COMPRESSED INDICES	United States of America	Published	BMC Software, Inc.
15704926	US-2018-0075127- A1	EXTENDING A DATABASE RECOVERY POINT AT A DISASTER RECOVERY SITE	United States of America	Published	BMC Software, Inc.
15700932	US-2018-0004794- A1	MECHANISM FOR DEPRECATING OBJECT ORIENTED DATA	United States of America	Published	BMC Software, Inc.
15650212	US-2017-0323464- A1	GRAPH EXPANSION MINI- VIEW	United States of America	Published	BMC Software, Inc.
15797714	US-2018-0068239- A1	APPLICATION OF BUSINESS PROCESS MANAGEMENT STANDARDS FOR DYNAMIC INFORMATION TECHNOLOGY MANAGEMENT	United States of America	Published	BMC Software, Inc.
15672984	US-2017-0364584- A1	PROGRESSIVE ANALYSIS FOR BIG DATA	United States of America	Published	BMC Software, Inc.
15620341	US-2017-0277787- A1	SYSTEMS AND METHODS FOR REMOTE ACCESS TO DB2 DATABASES	United States of America	Published	BMC Software, Inc.
15593232	US-2017-0250984- A1	AUTHENTICATION PROXY AGENT	United States of America	Published	BMC Software, Inc.
15864712		GENERATION OF SUPPORT DATA RECORDS USING NATURAL LANGUAGE PROCESSING	United States of America	Pending	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
15620447	US-2017-0279623- A1	DYNAMIC WORKLOAD CAPPING	United States of America	Published	BMC Software, Inc.
15809380	US-2018-0077224- A1	APPLICATION MONITORING FOR CLOUD-BASED ARCHITECTURES	United States of America	Published	BMC Software, Inc.
15658896		SYSTEMS AND METHODS FOR INTERCEPTING ACCESS TO MESSAGING SYSTEMS	United States of America	Pending	BMC Software, Inc.
15852758		AUTOMATIC SERVER CLASSIFICATION IN CLOUD ENVIRONMENTS	United States of America	Pending	BMC Software, Inc.
15826192		SYSTEMS AND METHODS FOR RECOVERY OF CONSISTENT DATABASE INDEXES	United States of America	Pending	BMC Software, Inc.

Schedule C

Release of Trademark Security Agreement recorded September 11, 2013 at Reel/Frame 5111/0736

US Trademarks:

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
ACTION REQUEST SYSTEM	U.S.	74/625833 1/26/1995	2072981 6/24/1997	BMC Software, Inc.
ACTIVATE BUSINESS WITH THE POWER OF I.T.	U.S.	77/005159 9/22/2006	3267307 7/24/2007	BMC Software, Inc.
ALIGNABILITY	U.S.	78/663040 7/1/2005	3109232 6/27/2006	BMC Software, Inc.
ALTER	U.S.	74/516921 4/25/1994	1887028 4/4/1995	BMC Software, Inc.
AR SYSTEM	U.S.	74/644074 3/9/1995	2276944 9/14/1999	BMC Software, Inc.
BLADELOGIC	U.S.	76/316565 9/25/2001	2705349 4/8/2003	BladeLogic, Inc.
BLUE OCEAN SOFTWARE	U.S.	74/280316 6/1/1992	1790802 8/31/1993	Numara Software, Inc.
вмс	U.S.	76/250242 4/30/2001	2608243 8/13/2002	BMC Software, Inc.
BMC ATRIUM	U.S.	78/545061 1/10/2005	3446484 6/10/2008	BMC Software, Inc.
BMC ATRIUM ACTIVATED and Design	U.S.	77/005183 9/22/2006	3456202 7/1/2008	BMC Software, Inc.
BMC ATRIUM and Design	u.s.	77/005181 9/22/2006	3383828 9/22/2006	BMC Software, Inc.
BMC SOFTWARE	U.S.	75/714351 5/26/1999	2427989 2/13/2001	BMC Software, Inc.
BMC SOFTWARE	U.S.	74/724420 9/1/1995	2001227 9/17/1996	BMC Software, Inc.

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
BMC SOFTWARE	U.S.	75/716094 5/27/1999	2377242 8/15/2000	BMC Software, Inc.
BMCSOFTWARE and Design	U.S.	75/691982 4/26/1999	2458178 6/5/2001	BMC Software, Inc.
BMCSOFTWARE and Design	U.S.	75/691981 4/26/1999	2567880 5/7/2002	▶ BMC Software, Inc.
BMCUSERWORLD	U.S.	77/005186 9/22/2006	3267310 7/24/2007	BMC Software, Inc.
BUSINESS RUNS ON I.T. I.T. RUNS ON BMC	U.S.	85/109256 8/17/2010	3923188 2/22/2011	BMC Software, Inc.
BUSINESS RUNS ON I.T. I.T. RUNS ON BMC	U.S.	85/0 4 9770 5/27/2010	3925086 3/1/2011	BMC Software, Inc.
CMF	U.S.	73/161057 3/6/1978	1119132 3/6/1978	BMC Software, Inc.
CONTROL-D	U.S.	74/208999 10/2/1991	1742863 12/19/1992	BMC Software, Inc.
CONTROL-M	U.S.	76/371489 2/14/2002	3109626 6/27/2006	BMC Software, Inc.
CONTROL-O	U.S.	74/210276 10/2/1991	1902409 7/4/1995	BMC Software, Inc.
CONTROL-SA	U.S.	74/656639 4/6/1995	223 44 98 3/23/1999	BMC Software, Inc.
CONTROL-T	U.S.	74/342740 12/23/1992	1930132 10/24/1995	BMC Software, Inc.
CONTROL-V	U.S.	74/644684 3/6/1995	2024905 12/24/1996	BMC Software, Inc.
CORADIANT	U.S.	76/144109 10/10/2000	2787884 12/2/2003	BladeLogic, Inc.
DATA PACKER	U.S.	73/751931 9/14/1988	1675707 2/18/1992	BMC Software, Inc.
DATABASE DIRECTOR	U.S.	76/669319 11/21/2006	3289432 9/11/2007	BMC Software, Inc.
DATAFLOW STUDIO (Stylized)	U.S.	76/402743 5/2/2002	2848447 6/1/2004	BMC Software, Inc.
DELTA IMS	U.S.	73/751932 9/14/1988	1541353 5/30/1989	BMC Software, Inc.

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
Design (Triangle)	U.S.	77/005163 9/22/2006	3270909 7/31/2007	BMC Software, Inc.
Design (Triangles)	U.S.	75/694250 4/27/1999	2420041 1/9/2001	BMC Software, Inc.
Design (Triangles)	U.S.	75/694274 4/27/1999	2449887 5/8/2001	BMC Software, Inc.
ECLIPSE iBUILD	U.S.	76/678803 6/27/2007	3494393 9/2/2008	BMC Software, Inc.
ECLIPSE iCHANGE	U.S.	76/669320 11/21/2006	3257547 7/3/2007	BMC Software, Inc.
ECLIPSE ICHECK	U.S.	76/669326 11/21/2006	3257548 7/3/2007	BMC Software, Inc.
ECLIPSE iCOPY	U.S.	76/669316 11/21/2006	3692931 10/6/2009	BMC Software, Inc.
ECLIPSE IEXTRACT	U.S.	76/678798 6/27/2007	3482816 8/12/2008	BMC Software, Inc.
ECLIPSE iLM	U.S.	76/678796 6/27/2007	3478560 8/5/2008	BMC Software, Inc.
ECLIPSE iLOAD	U.S.	76/669317 11/21/2006	3734533 1/5/2010	BMC Software, Inc.
ECLIPSE iRECOVER	U.S.	76/669315 11/21/2006	3257546 7/3/2007	BMC Software, Inc.
ECLIPSE IREPAIR	U.S.	76/665322 8/29/2006	3692928 10/6/2009	BMC Software, Inc.
ECLIPSE ISURVEY	U.S.	76/678805 6/27/2007	3494394 9/2/2008	BMC Software, Inc.
ECLIPSE IUNLOAD	U.S.	76/678799 6/27/2007	3494392 6/27/2007	BMC Software, Inc.
ENERGIZER	U.S.	74/423399 8/10/1993	1963579 3/19/1996	BMC Software, Inc.
ENTERPRISE SECURITYSTATION	U.S.	74/656641 4/6/1995	2226413 2/23/1999	BMC Software, Inc.
EXTENDED COMPRESSION ARCHITECTUR	U.S.	73/781308 2/17/1989	1591772 4/17/1990	BMC Software, Inc.

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
FLASHBOARDS	U.S.	74/686315 6/8/1995	2041641 3/4/1997	BMC Software, Inc.
FOOTPRINTS	U.S.	75/124131 6/24/1996	2135007 2/3/1998	Numara Software, Inc.
HALO	U.S.	76/665309 8/29/2006	3705665 11/3/2009	BMC Software, Inc.
INCONTROL	U.S.	75/751633 7/15/1999	2686919 2/11/2003	BMC Software, Inc.
INTEGRATED OPERATIONS ARCHITECTURE	U.S.	74/221353 11/13/1991	1772824 5/25/1993	BMC Software, Inc.
IOA	U.S.	74/140546 2/19/1991	1723355 10/13/1992	BMC Software, Inc.
KNOWLEDGE MODULE	U.S.	75/773808 8/11/1999	2476483 8/11/1999	BMC Software, Inc.
LIGHTNING EXTEND INSTANT	U.S.	76/678797 6/27/2007	3494391 9/2/2008	BMC Software, Inc.
LIGHTNING EXTEND ONLINE	U.S.	76/678802 6/27/2007	3482817 8/12/2008	BMC Software, Inc.
LIGHTNING UTILITIES	U.S.	76/665314 8/29/2006	3754996 3/2/2010	BMC Software, Inc.
LIGHTNING X	U.S.	76/665315 8/29/2006	3767756 3/30/2010	BMC Software, Inc.
LOADPLUS	U.S.	75/829301 10/22/1999	2377737 8/15/2000	BMC Software, Inc.
MAINVIEW	U.S.	75/798543 9/9/1999	2567978 5/7/2002	BMC Software, Inc.
MAINVIEW	U.S.	74/027168 2/8/1990	1851040 8/23/1994	BMC Software, Inc.
MAXM	U.S.	75/798541 9/9/1999	2468418 7/10/2001	BMC Software, Inc.
MISSION CONTROL	U.S.	76/669325 11/21/2006	3284269 8/28/2007	BMC Software, Inc.
MYIT	U.S.	86/028901 8/5/2013	_	BMC Software, Inc.
МҮІТ	U.S.	86/028885 8/5/2013	_	BMC Software, Inc.
MYIT	U.S.	85/623598 5/11/2012	4397227 9/3/2013	BMC Software, Inc.
MYIT	U.S.	85/624141 5/14/2012	4397233 9/3/2013	BMC Software, Inc.

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
NUMARA	U.S.	78/764325 12/1/2005	3299604 9/25/2007	Numara Software, Inc.
NUMARA SOFTWARE and Design	U.S.	78/769966 12/9/2005	3299631 9/25/2007	Numara Software, Inc.
OPERTUNE	U.S.	74/188464 7/25/1991	1744337 1/5/1993	BMC Software, Inc.
PATROL	U.S.	75/696223 5/3/1999	2467006 7/10/2001	BMC Software, Inc.
PATROL	U.S.	74/724425 9/1/1995	2001229 9/17/1996	BMC Software, Inc.
PATROL	U.S.	75/722969 6/7/1999	2577035 6/11/2002	BMC Software, Inc.
PERFORMANCE ASSURANCE	U.S.	74/500751 3/14/1994	2048376 3/25/1997	BMC Software, Inc.
POINTER CHECKER PLUS	U.S.	74/728429 9/13/1995	2002876 9/24/1996	BMC Software, Inc.
PROACTIVENET	U.S.	75/736551 6/24/1999	2466446 7/3/2001	BMC Software, Inc.
PROACTIVENET	U.S.	75/736692 6/24/1999	2437604 3/20/2001	BMC Software, Inc.
Q PASA!	U.S.	75/306033 5/27/1997	2208354 12/8/1998	BMC Software, Inc.
QNAMI! (Stylized) Q Nami!	U.S.	76/523726 6/11/2003	2929417 3/1/2005	BMC Software, Inc.
R+/CHANGE ACCUM	U.S.	74/724415 9/1/1995	2001225 9/17/1996	BMC Software, Inc.
REMEDY	U.S.	73/597291 5/7/1986	1447196 7/14/1987	BMC Software, Inc.
REMEDY	U.S.	76/166283 11/14/2000	3328177 11/6/2007	BMC Software, Inc.
REMEDYFORCE	U.S.	85/684339 7/23/2012	4352891 6/18/2013	BMC Software, Inc. and Salesforce.com, Inc.
SERVICE DESK ON THE GO	U.S.	77/708193 4/7/2009	3801879 6/15/2010	Numara Software, Inc.
SQL-BACKTRACK	U.S.	78/176385 10/21/2002	2991592 9/6/2005	BMC Software, Inc.

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
SQL-PROGRAMMER	U.S.	74/506307 3/29/1994	1909531 8/1/1995	BMC Software, Inc.
SUPEROPTIMIZER	U.S.	73/751810 9/14/1988	1561889 10/24/1989	BMC Software, Inc.
TRACI-IT!	U.S.	85/661489 6/26/2012	4286112 2/5/2013	Numara Software, Inc.
TRACK-IT!	U.S.	74/280315 6/1/1992	1748294 1/26/1993	Numara Software, Inc.
TRUSIGHT	U.S.	77/277431 9/12/2007	3430658 5/20/2008	BladeLogic, Inc.
UNLOAD PLUS	U.S.	74/352785 1/27/1993	1797646 10/12/1993	BMC Software, Inc.
XCA	U.S.	73/781309 2/17/1989	15680678 10/17/1989	BMC Software, Inc.

Release of Trademark Security Agreement recorded December 17, 2013 at Reel/Frame 5175/0239

U.S. Trademarks:

Owner of Record	<u>Mark</u>	Registration / Application Number	Registration / Application Date
BMC Software, Inc.	CONTROL R	1739559	12/15/1992

Release of Trademark Security Agreement recorded August 30, 2017 at Reel/Frame 6142/0031

Additional U.S. Trademark Applications:

Mark	Jurisdiction	Serial Number	Filing Date	Registration Number	Registration Date	Current Owner
BMC DIGITAL ENTERPRISE MANAGEMENT	United States of America	86677374	Jun 29, 2015			BMC Software, Inc.
DIGITAL ENTERPRISE MANAGEMENT	United States of America	86677376	Jun 29, 2015			BMC Software, Inc.
MYBEC	United States of America	86801291	Oct 27, 2015			BMC Software, Inc.
TRUESIGHT	United States of America	8691439	Mar 7, 2016			BMC Software, Inc.

Release of Trademark Security Agreement recorded August 29, 2017 at Reel/Frame 6141/0339

Additional US Trademarks:

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
BEST/I	U.S.	74036758 Mar. 7, 1990	1659497 Oct. 8, 1991	BMC Software, Inc.
CDB	U.S.	75201203 Nov. 20, 1996	2116110 Nov. 25, 1997	BMC Software, Inc.
CDB LOGO	U.S.	76124906 Sep. 7, 2000	2544426 Mar. 5, 2002	BMC Software, Inc.
MYITPORTAL	U.S.	85458656 Oct. 28, 2011	4688995 Feb. 17, 2015	BMC Software, Inc.
NEXT GENERATION TECHNOLOGY	U.S.	77359527 Dec. 26, 2007	3542202 Dec. 2, 2008	BMC Software, Inc.
NGT	U.S.	77359477 Dec. 26, 2007	3542201 Dec. 2, 2008	BMC Software, Inc.
PARTNERPEDIA	U.S.	85064842 Ju. 16, 2010	4112497 Mar. 13, 2012	BMC Software Acquisition, L.L.C.

Additional US Trademark Applications:

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
ВМС	U.S.	86441420 Oct. 31, 2014		BMC Software, Inc.
ВМС	U.S.	86442793 Nov. 3, 2014		BMC Software, Inc.
BMC (and DOUBLE HELIX DESIGN)	U.S.	86441351 Oct. 31, 2014		BMC Software, Inc.
BMC (and DOUBLE HELIX DESIGN)	U.S.	86441362 Oct. 31, 2014		BMC Software, Inc.
BMC APPZONE	U.S.	86307012 Jun. 11, 2014		BMC Software, Inc.
BRING IT TO LIFE	U.S.	86438646 Oct. 31, 2014		BMC Software, Inc.
BRING IT TO LIFE	U.S.	86441355		BMC Software,

Mark	Jurisdiction	Serial No./ Filing Date	Reg. No./ Reg. Date	Current Owner
		Oct. 31, 2014		Inc.
CLOUD LIFECYCLE MANAGEMENT	U.S.	86463927 Nov. 25, 2014		BMC Software, Inc.
DOUBLE HELIX DESIGN	U.S.	86441346 Oct. 31, 2014		BMC Software, Inc.
DOUBLE HELIX DESIGN	U.S.	86441373 Oct. 31, 2014		BMC Software, Inc.
ICAP	U.S.	86514521 Jan. 26, 2015		BMC Software, Inc.
NEXT GENERATION TECHNOLOGY	U.S.	86582396 Mar. 31, 2015		BMC Software, Inc.
NGT	U.S.	86582392 Mar. 31, 2015		BMC Software, Inc.
TRUESIGHT	U.S.	86516499 Jan. 28, 2015		BMC Software, Inc.

Release of Trademark Security Agreement recorded August 30, 2017 at Reel/Frame 6142/0044

Additional U.S. Trademarks:

Mark	Jurisdiction	Serial Number	Filing Date	Registration Number	Registration Date	Current Owner
FOOTPRINTS	United States of America	86856955	Dec. 22, 2015	5144492	Feb. 21, 2017	BladeLogic, Inc.
FOOTPRINTS	United States of America	86856951	Dec. 22, 2015	5193872	Mar. 7, 2017	BladeLogic, Inc.
TRUESIGHT INTELLIGENCE	United States of America	86677367	Jun. 29, 2015	5156886	Mar. 7, 2017	BMC Software, Inc.

Additional U.S. Trademark Applications:

Mark	Jurisdiction	Serial Number	Filing Date	Registration Number	Registration Date	Current Owner
INTELLIGENT CAPPING	United States of America	87078504	Jun. 21, 2016			BMC Software, Inc.

PATENT
RECORDED: 10/05/2018 REEL: 047198 FRAME: 0541