

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5174685

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF PATENTS	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH		10/02/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BMC SOFTWARE, INC.	
<b>Street Address:</b>	2103 CITYWEST BOULEVARD	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77042-2828	
<b>Name:</b>	BLADELOGIC, INC.	
<b>Street Address:</b>	2103 CITYWEST BOULEVARD	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77042-2828	
<b>Name:</b>	BMC ACQUISITION L.L.C.	
<b>Street Address:</b>	2103 CITYWEST BOULEVARD	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77042-2828	
<b>PROPERTY NUMBERS Total: 530</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Patent Number:</b>	6983321	
<b>Patent Number:</b>	7774458	
<b>Patent Number:</b>	7930396	
<b>Patent Number:</b>	5664217	
<b>Patent Number:</b>	5579515	
<b>Patent Number:</b>	6163783	
<b>Patent Number:</b>	5892907	
<b>Patent Number:</b>	6115704	
<b>Patent Number:</b>	5511220	
<b>Patent Number:</b>	5761676	

PATENT

Property Type	Number
Patent Number:	5625817
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Patent Number:	5566334
Patent Number:	5815096
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Patent Number:	5761667
Patent Number:	5761091
Patent Number:	6009271
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Patent Number:	6011871
Patent Number:	6151707
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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.*

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**Email:** james.murray@wolterskluwer.com

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**Address Line 2:** CT CORPORATION

**Address Line 4:** COLUMBUS, OHIO 43219

<b>NAME OF SUBMITTER:</b>	DORIS KA
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<b>SIGNATURE:</b>	/Doris Ka/
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DATE SIGNED:	10/05/2018
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**Total Attachments: 59**

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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. Defined Terms. 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. Termination. The Agent, without representation or warranty of any kind, terminates and cancels the Intellectual Property Security Agreements.

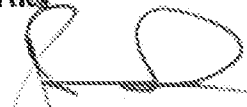
4. Further Assurances. The Agent agrees to take all further actions, and provide to each Grantor and its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by such Grantor, at such Grantor's sole cost and expense, to more fully and effectively effectuate the purposes of this Release.


5. Governing Law. 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

By:   
Name: D. Andrew Maletta  
Title: Authorized Signatory

*[Signature page to Intellectual Property Release]*

**GRANTORS:**

**BMC Software, Inc.**

By: 

Name: Stephen B. Solcher

Title: Chief Financial Officer

**BladeLogic, Inc.**

By: 

Name: Stephen B. Solcher

Title: President

*{Signature page to Intellectual Property Release}*

Schedule A

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

<b>Title</b>	<b>Registration No.</b>	<b>Registration Date</b>	<b>Current Owner</b>
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.

<b>Title</b>	<b>Registration No.</b>	<b>Registration Date</b>	<b>Current Owner</b>
Action Request System V2.0--Unix 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 2.0--Unix version including Sun Solaris 2.4, HP-UX 10.01 and AIX4.1	TX0004756301	11/21/1997	BMC Software, Inc.
Flashboards V1.1.3: SunOS, Solaris, AIX, HP-UX, and Windows 3.11 operating platforms	TX0004900275	1/28/1998	BMC Software, Inc.
Flashboards V2.0, Sun Solaris, AIX, HP-UX 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 Action request system version 1.0-SunOS Operating Platform (on original appl.: Action request system version 1.0--SunOS Operating Platform)	TX0004896698	8/31/1998	BMC Software, Inc.
Magic TSD version 7.50.	TX0005741866	6/6/2003	BMC Software, Inc.

<b>Title</b>	<b>Registration No.</b>	<b>Registration Date</b>	<b>Current Owner</b>
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. <sup>1</sup>
Intuit Track-It!, v6.0.	TX0006051743	10/15/2004	Numara Software, Inc. <sup>2</sup>
Track-It! for Windows 2.0	TX0005336012	7/2/2001	Numara Software, Inc. <sup>3</sup>
Track-It! : the world's no. 1 inventory/help desk management system	TX0005674608	6/24/2002	Numara Software, Inc. <sup>4</sup>
Track-It! 4.0.	TX0005336014	7/6/2001	Numara Software, Inc. <sup>5</sup>
Track-It! 3.0.	TX0005336013	7/6/2001	Numara Software, Inc. <sup>6</sup>
Track-It! / Russ Hobbs	TX0003252337	2/7/1992	Numara Software, Inc. <sup>7</sup>
NT manage	TX0004375607	9/18/1996	Numara Software, Inc. <sup>8</sup>

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> 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.

<sup>7</sup> 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.

<sup>8</sup> 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.

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

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<sup>9</sup> Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded at the Copyright Office.

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

<sup>11</sup> Nomura Software, Inc. acquired Unipress Software, Inc. in September 2006. No assignment has been recorded at the Copyright Office.

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

<sup>13</sup> 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 ENTERPRISE SYSTEMS AND BUSINESS IMPACT MANAGEMENT	United States of America	Issued	BMC Software, Inc.
11/211,360	7774458	SYSTEM AND METHOD OF ENTERPRISE SYSTEMS AND BUSINESS IMPACT MANAGEMENT	United States of America	Issued	BMC Software, Inc.
12/826,455	7930396	SYSTEM AND METHOD OF ENTERPRISE SYSTEMS AND BUSINESS IMPACT MANAGEMENT	United States of America	Issued	BMC Software, Inc.
08/102,084	5664217	METHOD OF AVOIDING PHYSICAL I/O VIA CACHING WITH PRIORITIZED LRU MANAGEMENT	United States of America	Issued	BMC Software, Inc.
08/168,962	5579515	IMPROVED METHOD OF CHECKING INDEX INTEGRITY IN A DB2 DATABASE	United States of America	Issued	BMC Software, Inc.
08/168,976	6163783	CHECK DATA OPERATION FOR DB2	United States of America	Issued	BMC Software, Inc.
08/225,158	5892907	BYPASS SEND AND RECEIVE OPTIMIZER METHOD FOR VTAM PROCESSES	United States of America	Issued	BMC Software, Inc.
08/239,942	6115704	AN EXTENDED SQL CHANGE DEFINITION LANGUAGE FOR A COMPUTER DATABASE SYSTEM	United States of America	Issued	BMC Software, Inc.
08/299,700	5511220	MULTI-USER COMPUTER SYSTEM WITH A CLOCK DRIVEN BATCH DISPATCHING MECHANISM	United States of America	Issued	BMC Software, Inc.
08/308,759	5761676	METHOD OF REMOVING UNNEEDED DATA FROM DB2 LOGS AND OTHER DATA SETS HAVING DISPLACEMENT-DEPENDENT DATA	United States of America	Issued	BMC Software, Inc.
08/395,992	5625817	METHOD OF IDENTIFYING DB2 OBJECTS TO BE RECOVERED FROM AN UNAVAILABLE DASD VOLUME WITHOUT NEED TO ACCESS THE DASD VOLUME ITSELF AND WITHOUT NEED FOR PRE-FAILURE PREPARATION	United States of America	Issued	BMC Software, Inc.
08/400,850	5655081	SYSTEM FOR MONITORING AND MANAGING COMPUTER RESOURCES AND APPLICATIONS	United States of America	Issued	BMC Software, Inc.

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

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
		CACHING HARDWARE			
08/812,860	5978594	SYSTEM FOR MANAGING COMPUTER RESOURCES ACROSS A DISTRIBUTED COMPUTING ENVIRONMENT BY FIRST READING DISCOVERY INFORMATION ABOUT HOW TO DETERMINE SYSTEM RESOURCES PRESENCE	United States of America	Issued	BMC Software, Inc.
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 INTELLIGENT STORAGE AND REDUCTION OF NETWORK INFORMATION	United States of America	Issued	BMC Software, Inc.
09/133,828	6272519	DYNAMIC ALTERATION OF OPERATING SYSTEM KERNEL RESOURCE TABLES	United States of America	Issued	BMC Software, Inc.
09/183,521	6418437	METHOD AND APPARATUS FOR OBTAINING STORAGE INFORMATION FROM A TRANSACTION LOG	United States of America	Issued	BMC Software, Inc.
09/231,322	6272536	SYSTEM AND METHOD FOR THE DISTRIBUTION OF CODE AND DATA	United States of America	Issued	BMC Software, Inc.
09/247,199	6430608	METHOD AND APPARATUS FOR ACCEPTING AND REJECTING FILES ACCORDING TO A MANIFEST	United States of America	Issued	BMC Software, Inc.
09/262,194	6513065	ENTERPRISE MANAGEMENT SYSTEM AND METHOD WHICH INCLUDES SUMMARIZATION HAVING A PLURALITY OF LEVELS OF VARYING GRANULARITY	United States of America	Issued	BMC Software, Inc.
09/262,229	6560647	ENTERPRISE MANAGEMENT SYSTEM AND METHOD WHICH INCLUDES SEMANTICALLY CORRECT SUMMARIZATION	United States of America	Issued	BMC Software, Inc.
09/287,601	6691067	ENTERPRISE MANAGEMENT SYSTEM AND METHOD WHICH INCLUDES STATISTICAL RECREATION OF SYSTEM RESOURCE USAGE FOR MORE ACCURATE MONITORING, PREDICTION, AND PERFORMANCE WORKLOAD CHARACTERIZATION	United States of America	Issued	BMC Software, Inc.
09/315,300	6523035	SYSTEM AND METHOD FOR INTEGRATING A PLURALITY OF DISPARATE DATABASE UTILITIES INTO A SINGLE GRAPHICAL USER INTERFACE	United States of America	Issued	BMC Software, Inc.
09/324,891	6381631	METHOD AND APPARATUS FOR CONTROLLING CLIENT COMPUTER SYSTEMS	United States of America	Issued	BMC Software, Inc.
09/336,424	6901435	PROTOCOL TECHNOLOGY FOR CLIENT/SERVER ENVIRONMENT	United States of America	Issued	BMC Software, Inc.
09/343,979	6738970	METHOD AND APPARATUS FOR IDENTIFYING CHANGES MADE TO A COMPUTER SYSTEM DUE TO	United States of America	Issued	BMC Software, Inc.

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
		SOFTWARE INSTALLATION			
09/345,999	6367075	METHOD AND APPARATUS FOR PRODUCING INSTRUCTIONS DESCRIBING THE REMOVAL OF UPDATES TO A COMPUTER SYSTEM	United States of America	Issued	BMC Software, Inc.
10/845,977	7448033	SYSTEM AND METHOD FOR IDENTIFYING CHANGES MADE TO A COMPUTER SYSTEM DUE TO SOFTWARE INSTALLATION	United States of America	Issued	BMC Software, Inc.
09/408,085	6564174	ENTERPRISE MANAGEMENT SYSTEM AND METHOD WHICH INDICATES CHAOTIC BEHAVIOR IN SYSTEM RESOURCE USAGE FOR MORE ACCURATE MODELING AND PREDICTION	United States of America	Issued	BMC Software, Inc.
10/317,496	6643614	ENTERPRISE MANAGEMENT SYSTEM AND METHOD WHICH INDICATES CHAOTIC BEHAVIOR IN SYSTEM RESOURCE USAGE FOR MORE ACCURATE MODELING AND PREDICTION	United States of America	Issued	BMC Software, Inc.
09/413,105	7720805	SEQUENTIAL UNLOAD PROCESSING OF IMS DATABASES	United States of America	Issued	BMC Software, Inc.
09/474,601	6393424	METHOD AND APPARATUS FOR USING A STATIC METADATA OBJECT TO REDUCE DATABASE ACCESSES	United States of America	Issued	BMC Software, Inc.
09/496,241	6418443	HOT SPOT ANALYSIS OF IMS DATABASES	United States of America	Issued	BMC Software, Inc.
09/596,631	6304967	SYSTEM AND ARCHITECTURE FOR DISTRIBUTING, MONITORING, AND MANAGING INFORMATION REQUESTS ON A COMPUTER NETWORK	United States of America	Issued	BMC Software, Inc.
09/608,801	6668054	SERVICE DESK SYSTEM ARCHITECTURE FOR A MOBILE SERVICE WORKFORCE	United States of America	Issued	BMC Software, Inc.
09/607,671	6671368	SERVICE DESK SYSTEM FOR ALLOWING EASILY CHANGEABLE ASSOCIATIONS FOR DATA RETRIEVAL AND DISPLAY	United States of America	Issued	BMC Software, Inc.
09/613,653	6678887	CUSTOMIZING BUSINESS LOGIC AND DATA SOURCES BY MODIFYING METHODS DEFINED WITHIN AN API	United States of America	Issued	BMC Software, Inc.
09/629,656	6502092	REFERENTIAL INTEGRITY NAVIGATION IN A DATABASE	United States of America	Issued	BMC Software,

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

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
09/895,661	7350209	SYSTEM AND METHOD FOR APPLICATION PERFORMANCE MANAGEMENT	United States of America	Issued	BMC Software, Inc.
09/923,567	6900822	PERFORMANCE AND FLOW ANALYSIS METHOD FOR COMMUNICATION NETWORKS	United States of America	Issued	BMC Software, Inc.
10/940,328	7480866	PERFORMANCE AND FLOW ANALYSIS METHOD FOR COMMUNICATION NETWORKS	United States of America	Issued	BMC Software, Inc.
09/945,413	7089245	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Issued	BMC Software, Inc.
09/990,583	6944630	DATABASE MANAGEMENT SYSTEM AND METHOD WHICH MONITORS ACTIVITY LEVELS AND DETERMINES APPROPRIATE SCHEDULE TIMES	United States of America	Issued	BMC Software, Inc.
11/058,775	7302449	DATABASE MANAGEMENT SYSTEM AND METHOD WHICH MONITORS ACTIVITY LEVELS AND DETERMINES APPROPRIATE SCHEDULE TIMES	United States of America	Issued	BMC Software, Inc.
10/002,273	6606685	SYSTEM AND METHOD FOR INTERCEPTING FILE SYSTEM WRITES	United States of America	Issued	BMC Software, Inc.
10/002,274	6799189	SYSTEM AND METHOD FOR CREATING A SERIES OF ONLINE SNAPSHOTS FOR RECOVERY PURPOSES	United States of America	Issued	BMC Software, Inc.
09/991,561	6996576	DATABASE MANAGEMENT SYSTEM AND METHOD WHICH AUTOMATICALLY SCHEDULES AND PERFORMS ACTIONS AND MONITORS RESULTS	United States of America	Issued	BMC Software, Inc.
10/012,114	7490147	METHOD AND APPARATUS FOR COLLECTING PERFORMANCE DATA IN A COMPUTER APPLICATION	United States of America	Issued	BMC Software, Inc.
10/014,337	7028301	SYSTEM AND METHOD FOR AUTOMATIC WORKLOAD CHARACTERIZATION	United States of America	Issued	BMC Software, Inc.
10/034,438	7299243	SYSTEM AND METHOD FOR CONTROLLING FREE SPACE DISTRIBUTION BY KEY RANGE WITHIN A DATABASE	United States of America	Issued	BMC Software, Inc.
11/874,673	7720876	SYSTEM AND METHOD FOR CONTROLLING FREE SPACE DISTRIBUTION BY KEY RANGE WITHIN A DATABASE	United States of America	Issued	BMC Software, Inc.
10/093,941	7170864	SYSTEM AND METHOD FOR WAP SERVER MANAGEMENT USING A	United States of America	Issued	BMC Software,

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
		SINGLE CONSOLE			Inc.
10/100,518	7054891	SYSTEM AND METHOD FOR COMPARING DATABASE DATA	United States of America	Issued	BMC Software, Inc.
10/113,870	7461369	JAVA APPLICATION RESPONSE TIME ANALYZER	United States of America	Issued	BMC Software, Inc.
10/113,808	7506047	SYNTHETIC TRANSACTION MONITOR WITH REPLAY CAPABILITY	United States of America	Issued	BMC Software, Inc.
12/405,939	7966398	SYNTHETIC TRANSACTION MONITOR WITH REPLAY CAPABILITY	United States of America	Issued	BMC Software, Inc.
10/113,322	7792948	METHOD AND SYSTEM FOR COLLECTING, AGGREGATING AND VIEWING PERFORMANCE DATA ON A SITE-WIDE BASIS	United States of America	Issued	BMC Software, Inc.
10/135,652	7024420	RUN-TIME ACCESS TECHNIQUES FOR DATABASE IMAGES	United States of America	Issued	BMC Software, Inc.
10/152,715	6701320	SYSTEM AND METHOD FOR DETERMINING A CHARACTER ENCODING SCHEME	United States of America	Issued	BMC Software, Inc.
10/164,464	7131037	METHOD AND SYSTEM TO CORRELATE A SPECIFIC ALARM TO ONE OR MORE EVENTS TO IDENTIFY A POSSIBLE CAUSE OF THE ALARM	United States of America	Issued	BMC Software, Inc.
10/173,278	7020706	METHOD AND SYSTEM FOR AUTOMATICALLY UPDATING MULTIPLE SERVERS	United States of America	Issued	BMC Software, Inc.
10/195,649	7111003	SYSTEM AND METHOD FOR INPUTING DATA TO A SORT UTILITY FROM A USER PROGRAM	United States of America	Issued	BMC Software, Inc.
10/241,879	7877783	SYSTEM AND METHOD FOR SECURE COMMUNICATIONS WITH A REMOTE SOFTWARE PROGRAM	United States of America	Issued	BMC Software, Inc.
10/298,860	7194728	SYSTEM AND METHOD FOR PACKAGING UPDATES	United States of America	Issued	BMC Software, Inc.
11/676,580	8151261	SYSTEM AND METHOD FOR PACKAGING UPDATES	United States of America	Issued	BMC Software, Inc.
10/302,165	7680833	SYSTEM AND METHOD FOR DATABASE STRUCTURE COMPARISON	United States of America	Issued	BMC Software, Inc.
10/318,908	6976133	SYSTEM AND METHOD FOR UPDATING DEVICES USING LIMITED AMOUNTS OF RANDOM ACCESS MEMORY	United States of America	Issued	BMC Software, Inc.



APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
10/318,891	7287068	SYSTEM AND METHOD FOR UPDATING DEVICES THAT EXECUTE AN OPERATING SYSTEM OR APPLICATION PROGRAM DIRECTLY FROM NONVOLATILE STORAGE	United States of America	Issued	BMC Software, Inc.
11/872,785	7996501	SYSTEM AND METHOD FOR UPDATING DEVICES THAT EXECUTE AN OPERATING SYSTEM APPLICATION PROGRAM DIRECTLY FROM NONVOLATILE STORAGE	United States of America	Issued	BMC Software, Inc.
10/377,092	7617073	SYSTEM AND METHOD FOR ASSESSING AND INDICATING THE HEALTH OF COMPONENTS	United States of America	Issued	BMC Software, Inc.
12/572,865	8050890	SYSTEM AND METHOD FOR ASSESSING AND INDICATING THE HEALTH OF COMPONENTS	United States of America	Issued	BMC Software, Inc.
10/395,915	7076481	METHOD AND APPARATUS FOR LOGICALLY RECONSTRUCTING INCOMPLETE RECORDS	United States of America	Issued	BMC Software, Inc.
10/414,958	7249174	METHOD AND SYSTEM FOR EXECUTING AND UNDOING DISTRIBUTED SERVER CHANGE OPERATIONS	United States of America	Issued	BladeLogic, Inc.
11/768,094	8296755	METHOD AND SYSTEM FOR EXECUTING AND UNDOING DISTRIBUTED SERVER CHANGE OPERATIONS	United States of America	Issued	BladeLogic, Inc.
10/420,174	7062683	TWO-PHASE ROOT CAUSE ANALYSIS	United States of America	Issued	BMC Software, Inc.
10/452,134	7882213	NETWORK MANAGEMENT SYSTEM TO MONITOR MANAGED ELEMENTS	United States of America	Issued	BMC Software, Inc.
10/618,500	7496572	REORGANIZING DATABASE OBJECTS USING VARIABLE LENGTH KEYS	United States of America	Issued	BMC Software, Inc.
10/618,208	7809762	OUTAGE-LESS DATABASE CHANGE OPERATION	United States of America	Issued	BMC Software, Inc.
10/684,132	7076397	SYSTEM AND METHOD FOR STATISTICAL PERFORMANCE MONITORING	United States of America	Issued	BMC Software, Inc.
11/277,307	8000932	SYSTEM AND METHOD FOR STATISTICAL PERFORMANCE MONITORING	United States of America	Issued	BMC Software, Inc.
10/723,677	7133884	UNOBTRUSIVE POINT-IN-TIME CONSISTENT COPIES	United States of America	Issued	BMC Software, 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 A RELATIONAL DATABASE	United States of America	Issued	BMC Software, Inc.
10/794,090	7742423	METHOD OF HEURISTIC DETERMINATION OF NETWORK INTERFACE TRANSMISSION MODE AND APPARATUS IMPLEMENTING SUCH METHOD	United States of America	Issued	BMC Software, Inc.
12/775,781	7940691	HEURISTIC DETERMINATION OF NETWORK INTERFACE TRANSMISSION MODE	United States of America	Issued	BMC Software, Inc.
10/871,240	7664790	CASCADE DELETE PROCESSING	United States of America	Issued	BMC Software, Inc.
10/871,160	7930291	CONSTRAINT PROCESSING	United States of America	Issued	BMC Software, Inc.
11/112,175	7925635	SYSTEM AND METHOD FOR COLLECTING STATISTICS RELATED TO SOFTWARE USAGE	United States of America	Issued	BMC Software, Inc.
11/160,664	7689628	MONITORING SEVERAL DISTRIBUTED RESOURCE ELEMENTS AS A RESOURCE POOL	United States of America	Issued	BMC Software, Inc.
11/161,313	7502844	ABNORMALITY INDICATOR OF A DESIRED GROUP OF RESOURCE ELEMENTS	United States of America	Issued	BMC Software, Inc.
11/306,290	7716353	WEB SERVICES AVAILABILITY CACHE	United States of America	Issued	BMC Software, Inc.
11/308,430	7783744	FACILITATING ROOT CAUSE ANALYSIS FOR ABNORMAL BEHAVIOR OF SYSTEMS IN A NETWORKED ENVIRONMENT	United States of America	Issued	BMC Software, Inc.
11/669,005	7685167	CONFIGURATION MANAGEMENT DATABASE REFERENCE INSTANCE	United States of America	Issued	BMC Software, Inc.
11/695,114	7730044	LOG DATA STORE AND ASSEMBLER FOR LARGE OBJECTS IN DATABASE SYSTEM	United States of America	Issued	BMC Software, Inc.
12/762,592	8121992	LOG DATA STORE AND ASSEMBLER FOR LARGE OBJECTS IN DATABASE SYSTEM	United States of America	Issued	BMC Software, Inc.
11/956,489	7765346	DYNAMIC COMPRESSION OF SYSTEMS MANAGEMENT DATA	United States of America	Issued	BMC Software, Inc.
12/816,426	8117361	DYNAMIC COMPRESSION OF SYSTEMS MANAGEMENT DATA	United States of America	Issued	BMC Software, Inc.
11/968,037	7801865	SYSTEM AND METHOD FOR	United States	Issued	BMC

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-LEVEL SCHEMA TRANSFORMATIONS	United States of America	Issued	BMC Software, Inc.
12/634,614	7996500	SYSTEMS AND METHODS FOR EXTENSIBLE DISTRIBUTED RESOURCE CONFIGURATION MANAGEMENT	United States of America	Issued	BladeLogic, Inc.
12/768,923	8353013	AUTHORIZED APPLICATION SERVICES VIA AN XML MESSAGE PROTOCOL	United States of America	Issued	BMC Software, Inc.
12/550,083	8171005	DATABASE QUIESCE OPERATIONS	United States of America	Issued	BMC Software, Inc.
12/565,549	8352947	METHOD TO AUTOMATICALLY REDIRECT SRB ROUTINES TO A ZIIP ELIGIBLE ENCLAVE	United States of America	Issued	BMC Software, Inc.
12/582,296	8352948	METHOD TO AUTOMATICALLY REDIRECT SRB ROUTINES TO A ZIIP ELIGIBLE ENCLAVE	United States of America	Issued	BMC Software, Inc.
12/563,657	8180728	AREA-SPECIFIC RELOAD OF DATABASE	United States of America	Issued	BMC Software, Inc.
12/788,476	8380645	METHOD AND SYSTEM TO ENABLE INFERENCING FOR NATURAL LANGUAGE QUERIES OF CONFIGURATION MANAGEMENT DATABASES	United States of America	Issued	BMC Software, Inc.
12/954,085	8321480	FULL-FUNCTION TO HIGH AVAILABILITY LARGE DATABASE CONVERSION	United States of America	Issued	BMC Software, Inc.
09/050,422	6035307	ENTERPRISE DATA MOVEMENT SYSTEM AND METHOD INCLUDING OPPORTUNISTIC PERFORMANCE OF UTILITIES AND DATA MOVE OPERATIONS FOR IMPROVED EFFICIENCY	United States of America	Issued	BMC Software, Inc. and Informatica Corporation
09/548,156	6622142	DATABASE UTILITIES	United States of America	Issued	BMC Software, Inc.
10/662,974	7016905	DATABASE UTILITIES	United States of America	Issued	BMC Software, Inc.
11/321,966	7096227	DATABASE UTILITIES	United States of America	Issued	BMC Software, Inc.
11/047,149	7337199	SPACE MANAGEMENT OF AN IMS DATABASE	United States of America	Issued	BMC Software, Inc.
10/036,815	7444338	ENSURING THAT A DATABASE	United States	Issued	BMC

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
		AND ITS DESCRIPTION ARE SYNCHRONIZED	of America		Software, Inc.
10/923,375	7685122	FACILITATING SUSPENSION OF BATCH APPLICATION PROGRAM ACCESS TO SHARED IMS RESOURCES	United States of America	Issued	BMC Software, Inc.
12/713,970	8407531	METHOD OF COLLECTING AND CORRELATING LOCKING DATA TO DETERMINE ULTIMATE HOLDERS IN REAL TIME	United States of America	Issued	BMC Software, Inc.
12/895,505	8402127	SYSTEM AND METHOD FOR OFFERING VIRTUAL PRIVATE CLOUDS WITHIN A PUBLIC CLOUD ENVIRONMENT	United States of America	Issued	BMC Software, Inc.
10/414,959	8447963	METHOD AND SYSTEM FOR SIMPLIFYING DISTRIBUTED SERVER MANAGEMENT	United States of America	Issued	BladeLogic, Inc.
12/582,948	8510810	SECURE CREDENTIAL STORE	United States of America	Issued	BladeLogic, Inc.
12/608,601	8463899	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR OPTIMIZED ROOT CAUSE ANALYSIS	United States of America	Issued	BMC Software, Inc.
12/614,307	8464246	AUTOMATION OF MAINFRAME SOFTWARE DEPLOYMENT	United States of America	Issued	BMC Software, Inc.
12/649,925	8473951	METHOD AND SYSTEM FOR TRAVERSING IN REVERSE CHRONOLOGICAL ORDER ALONG 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	United States of America	Issued	BMC Software, Inc.
12/650,107	8473595	METHOD AND SYSTEM TO AUTOMATICALLY ADAPT WEB SERVICES FROM ONE PROTOCOL/IDIOM TO ANOTHER PROTOCOL/IDIOM	United States of America	Issued	BMC Software, Inc.
12/847,391	8457928	AUTOMATIC DETERMINATION OF DYNAMIC THRESHOLD FOR ACCURATE DETECTION OF ABNORMALITIES	United States of America	Issued	BMC Software, Inc.
12/872,871	8478569	AUTO ADJUSTMENT OF BASELINE ON CONFIGURATION CHANGE	United States of America	Issued	BMC Software, Inc.
13/016,734	8478888	SYSTEM AND METHOD FOR STATELESS, FAULT TOLERANCE AND LOAD BALANCE DATA	United States of America	Issued	BMC Software, Inc.

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

U.S. Patents Pending:

APPLN #	PUB #	TITLE	COUNTRY	STATUS	OWNER
11/378,585	20060161581	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Pending	BMC Software, Inc.
11/378,580	20060179070	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Pending	BMC Software, Inc.
11/928,730	20080052265	DATABASE MANAGEMENT SYSTEM AND METHOD WHICH MONITORS ACTIVITY LEVELS AND DETERMINES APPROPRIATE SCHEDULE TIMES	United States of America	Pending	BMC Software, Inc.
13/655,153	20130103808	METHOD AND SYSTEM FOR EXECUTING AND UNDOING DISTRIBUTED SERVER CHANGE OPERATIONS	United States of America	Pending	BladeLogic, Inc.
12/647,823	20100100533	CASCADE DELETE PROCESSING	United States of America	Pending	BMC Software, Inc.
13/027,131	20110137887	CONSTRAINT PROCESSING	United States of America	Pending	BMC Software, Inc.
13/174,744	20110264801	NETWORK TRANSACTION DISCOVERY	United States of America	Allowed	BMC Software, Inc.
10/869,220	20060004846	LOW-OVERHEAD RELATIONAL DATABASE BACKUP AND RESTORE OPERATIONS	United States of America	Pending	BMC Software, Inc.
10/998,399	20060117029	METHOD AND APPARATUS FOR LOADING DATA INTO MULTI-TABLE TABLESPACE	United States of America	Pending	BMC Software, Inc.
11/204,189	20060136585	RESOURCE RECONCILIATION	United States of America	Pending	BMC Software, Inc.
11/295,363	20060123104	GENERIC DISCOVERY FOR COMPUTER NETWORKS	United States of America	Pending	BMC Software,

APPLN #	PUB #	TITLE	COUNTRY	STATUS	OWNER
					Inc.
11/315,857	20060136459	SYSTEM AND METHOD FOR BUSINESS SERVICE MANAGEMENT	United States of America	Pending	BMC Software, Inc.
11/316,025	20060161466	SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MODEL	United States of America	Pending	BMC Software, Inc.
12/440,218	20100191624	SYSTEM AND METHOD FOR CLASSIFYING REQUESTS	United States of America	Pending	BMC Software, Inc.
11/538,377	20070282810	OVERLAY DATASET	United States of America	Pending	BMC Software, Inc.
11/741,709	20070256050	BI-DIRECTIONAL COMMUNICATION BETWEEN CHANGE MANAGEMENT TOOL AND IMPLEMENTATION TOOLS	United States of America	Pending	BMC Software, Inc.
11/538,393	20070282856	DATABASE APPLICATION FEDERATION	United States of America	Pending	BMC Software, Inc.
11/848,298	20080059972	AUTOMATED CAPACITY PROVISIONING METHOD USING HISTORICAL PERFORMANCE DATA	United States of America	Allowed	BMC Software, Inc.
11/745,971	20080281865	DATABASE RECOVERY USING LOGS APPLIED TO CONSISTENT COPIES	United States of America	Pending	BMC Software, Inc.
11/956,498	20090158192	DYNAMIC FOLDING OF LISTED ITEMS FOR DISPLAY	United States of America	Pending	BMC Software, Inc.
10/414,887	20030233431	METHOD AND SYSTEM FOR MODEL-BASED HETEROGENEOUS SERVER CONFIGURATION MANAGEMENT	United States of America	Pending	BladeLogic, Inc.
11/939,391	20080133259	INFORMATION TECHNOLOGY ENTERPRISE MANAGER	United States of America	Pending	BladeLogic, Inc.
10/745,837	20050137920	INFORMATION TECHNOLOGY ENTERPRISE MANAGER AND PRODUCT PORTFOLIO MANAGER APPLICATION MODULE	United States of America	Pending	BladeLogic, Inc.
12/634,534	20100251379	METHOD AND SYSTEM FOR CONFIGURATION MANAGEMENT DATABASE SOFTWARE LICENSE COMPLIANCE	United States of America	Pending	BMC Software, Inc.
12/552,169	20100114948	SYSTEM AND METHOD FOR SCHEDULED AND COLLABORATIVE DISTRIBUTION OF SOFTWARE	United States of America	Pending	BMC Software, Inc.

APPLN #	PUB #	TITLE	COUNTRY	STATUS	OWNER
		AND DATA TO MANY THOUSANDS OF CLIENTS OVER A NETWORK USING DYNAMIC VIRTUAL PROXIES			
12/570,628	20100161577	METHOD OF RECONCILING RESOURCES IN THE METADATA HIERARCHY	United States of America	Pending	BMC 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 DATACENTER ENVIRONMENTS			Inc.
12/893,301	20110213886	INTELLIGENT AND ELASTIC RESOURCE POOLS FOR HETEROGENEOUS DATACENTER ENVIRONMENTS	United States of America	Allowed	BMC Software, Inc.
12/628,155	20110131186	EXTENDING A DATABASE RECOVERY POINT AT A DISASTER RECOVERY SITE	United States of America	Pending	BMC Software, Inc.
12/752,951	20110246585	EVENT ENRICHMENT USING DATA CORRELATION	United States of America	Pending	BMC Software, Inc.
12/772,047	20110154353	DEMAND DRIVEN WORKLOAD SCHEDULING OPTIMIZATION ON SHARED COMPUTING RESOURCES	United States of America	Published	BMC Software, Inc.
12/789,663	20110161964	UTILITY-OPTIMIZED SCHEDULING OF TIME- SENSITIVE TASKS IN A RESOURCE- CONSTRAINED ENVIRONMENT	United States of America	Published	BMC Software, Inc.
12/750,291	20110153559	MECHANISM FOR DEPRECATING OBJECT ORIENTED DATA	United States of America	Published	BMC Software, Inc.
12/646,330	20110148880	SMART IMPACT VIEWS	United States of America	Published	BMC Software, Inc.
12/750,347	20110161048	METHOD TO OPTIMIZE PREDICTION OF THRESHOLD VIOLATIONS USING BASELINES	United States of America	Published	BMC Software, Inc.
12/750,370	20110161928	METHOD TO PROVIDE TRANSPARENT I/O CONTEXT ON A REMOTE OS WHILE RETAINING LOCAL PROCESSING	United States of America	Published	BMC Software, Inc.
12/790,426	20110296499	SECURITY CONTEXT PASSING FOR STATELESS SYSTEM MANAGEMENT	United States of America	Published	BMC Software, Inc.
12/767,285	20110234595	GRAPH EXPANSION MINI-VIEW	United States of America	Pending	BMC Software, Inc.
12/788,890	20110293096	MULTI-LEVEL KEY MANAGEMENT	United States of America	Published	BladeLogic, Inc.
12/835,908	20110239190	METHOD FOR CUSTOMIZING SOFTWARE APPLICATIONS	United States of America	Pending	BMC Software, Inc.
12/895,284	20110238691	MECHANISM TO DISPLAY GRAPHICAL IT INFRASTRUCTURE USING CONFIGURABLE SMART NAVIGATION	United States of America	Pending	BMC Software, Inc.

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

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

APPLN #	PUB #	TITLE	COUNTRY	STATUS	OWNER
		DIMENSIONAL REPRESENTATIONS			
13/169,846	20120330929	SERVICE CONTEXT	United States of America	Published	BMC Software, Inc.
13/432,888	20120330702	MOBILE SERVICE CONTEXT	United States of America	Published	BMC Software, Inc.
13/174,374	20130002723	SYSTEMS AND METHODS FOR DISPLAYING AND VIEWING DATA MODELS	United States of America	Published	BMC Software, Inc.
13/174,464	20120042164	MONITORING BASED ON CLIENT PERSPECTIVE	United States of America	Published	BMC Software, Inc.
13/174,473	20120042064	MONITORING BASED ON CLIENT PERSPECTIVE	United States of America	Published	BMC Software, Inc.
13/174,725	20120144055	DETERMINATION OF QUALITY OF A CONSUMER'S EXPERIENCE OF STREAMING MEDIA	United States of America	Published	BMC Software, Inc.
13/247,818	20130080462	METHODS AND APPARATUS FOR MONITORING EXECUTION OF A DATABASE QUERY PROGRAM	United States of America	Pending	BMC Software, Inc.
13/251,190	20130086038	PROVISION OF INDEX RECOMMENDATIONS FOR DATABASE ACCESS	United States of America	Pending	BMC Software, Inc.
13/250,999	20130086587	DYNAMIC EVOCATIONS FOR COMPUTER EVENT MANAGEMENT	United States of America	Pending	BMC Software, Inc.
13/251,176	20130086552	SYSTEMS AND METHODS FOR APPLYING DYNAMIC RELATIONAL TYPING TO A STRONGLY-TYPED OBJECT-ORIENTED API	United States of America	Pending	BMC Software, Inc.
13/251,101	20130085985	METHODS AND APPARATUS FOR PERFORMING DATABASE MANAGEMENT UTILITY PROCESSES	United States of America	Pending	BMC Software, Inc.
13/340,302	20130173558	DATABASE RECOVERY PROGRESS REPORT	United States of America	Pending	BMC Software, Inc.
13/251,187	20130086507	DISPLAY WINDOW WITH MULTI-LAYER, PARALLEL TAB DISPLAY	United States of America	Pending	BMC Software, Inc.
13/341,144	20130173778	MONITORING NETWORK PERFORMANCE REMOTELY	United States of America	Pending	BMC Software, Inc.
13/432,847	—	MONITORING NETWORK PERFORMANCE OF ENCRYPTED	United States of America	Pending	BMC Software,

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

APPLN #	PUB #	TITLE	COUNTRY	STATUS	OWNER
		METHODS			
13/625,257	—	ZERO-OUTAGE DATABASE REORGANIZATION	United States of America	Pending	
13/630,852	—	AUTOMATED CAPACITY AWARE PROVISIONING	United States of America	Pending	
13/631,189	—	ELASTIC PACKAGING OF APPLICATION CONFIGURATION	United States of America	Pending	
13/630,784	—	EFFICIENT METHOD DATA RECORDING	United States of America	Pending	
13/631,328	—	APPLICATION OF BUSINESS PROCESS MANAGEMENT STANDARDS FOR DYNAMIC INFORMATION TECHNOLOGY MANAGEMENT PROCESS AND INTEGRATIONS	United States of America	Pending	
13/731,211	—	PROGRESSIVE ANALYSIS FOR BIG DATA	United States of America	Pending	
61/711,189	—	PROGRESSIVE ANALYSIS FOR BIG DATA	United States of America	Pending	
61/714,222	—	PROGRESSIVE ANALYSIS FOR BIG DATA	United States of America	Pending	
13/731,264	—	USER-CENTRIC ANNOTATED LOCATION AWARE ASSET MAPPING	United States of America	Pending	
61/717,635	—	WORKPLACE ASSET IDENTIFICATION, LOCATION AND CONTEXT AWARE TAGGING AND STATUS	United States of America	Pending	
13/731,309	—	MANAGEMENT OF ANNOTATED LOCATION AWARE ASSETS	United States of America	Pending	
13/719,686	—	RELATIVE ADDRESSING USAGE FOR CPU PERFORMANCE	United States of America	Pending	
13/732,292	—	ADDITIVE INDEPENDENT OBJECT MODIFICATION	United States of America	Pending	
13/793,568	—	SYSTEM AND METHODS FOR REMOTE ACCESS TO IMS DATABASES	United States of America	Pending	
13/727,017	—	AUTOMATIC CREATION OF GRAPH TIME LAYER OF MODEL OF COMPUTER NETWORK OBJECTS AND RELATIONSHIPS	United States of America	Pending	
13/007,992	20120185840	COMPUTER-READABLE MEDIUM, APPARATUS, AND METHODS OF AUTOMATIC CAPABILITY INSTALLATION	United States of America	Pending	BMC Software, Inc.
13/732,197	—	MEMORY LEAK DETECTION	United States of America	Pending	
13/731,330	—	PROACTIVE ROLE AWARE ASSET MONITORING	United States of America	Pending	
13/780,548	—	COMPUTING INFRASTRUCTURE PLANNING	United States of America	Pending	

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

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
11204189	9,137,115	RESOURCE RECONCILIATION	United States of America	Issued	BMC Software, Inc.
14512919	9,239,857	SYSTEM AND METHOD FOR BUILDING BUSINESS SERVICE MODEL	United States of America	Issued	BMC Software, Inc.
14535030	9,152,413	BI-DIRECTIONAL COMMUNICATION BETWEEN CHANGE MANAGEMENT TOOL AND IMPLEMENTATION TOOLS	United States of America	Issued	BMC Software, Inc.
11538393	9,122,719	DATABASE APPLICATION FEDERATION	United States of America	Issued	BMC Software, Inc.
14044614	9,065,783	AUTOMATED CAPACITY PROVISIONING METHOD USING HISTORICAL PERFORMANCE DATA	United States of America	Issued	BMC Software, Inc.
13856089	9,100,283	METHOD AND SYSTEM FOR SIMPLIFYING DISTRIBUTED SERVER MANAGEMENT	United States of America	Issued	BladeLogic, Inc.
13958283	9,094,217	SECURE CREDENTIAL STORE	United States of America	Issued	BladeLogic, Inc.
12485632	9,251,149	DATA SET SIZE TRACKING AND MANAGEMENT	United States of America	Issued	BMC Software, Inc.
12626109	9,177,004	BALANCING DATA ACROSS PARTITIONS OF A TABLE SPACE DURING LOAD PROCESSING	United States of America	Issued	BMC Software, Inc.
12617504	9,037,555	ASYNCHRONOUS COLLECTION AND CORRELATION OF TRACE AND COMMUNICATIONS EVENT DATA	United States of America	Issued	BMC Software, Inc.
13612187	9,158,572	METHOD TO AUTOMATICALLY REDIRECT SRB ROUTINES TO A ZIIP ELIGIBLE ENCLAVE	United States of America	Issued	BMC Software, Inc.
14185563	9,128,976	OFFLINE RESTRUCTURING OF DEDB DATABASES	United States of America	Issued	BMC Software, Inc.
12872921	9,122,536	AUTOMATING APPLICATION PROVISIONING FOR HETEROGENEOUS	United States of America	Issued	BMC Software, Inc.

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.

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
13341171	9,300,624	REGISTRY SYNCHRONIZER AND INTEGRITY MONITOR	United States of America	Issued	BMC Software, Inc.
13341693	9,152,659	SYSTEMS AND METHODS FOR MIGRATING DATABASE DATA	United States of America	Issued	BMC Software, Inc.
13433177	9,223,623	DYNAMIC SERVICE RESOURCE CONTROL	United States of America	Issued	BMC Software, Inc.
14285434	9,286,189	SELF-EVOLVING COMPUTING SERVICE TEMPLATE TRANSLATION	United States of America	Issued	BMC Software, Inc.
13457189	9,251,026	APPLICATION INSTRUMENTATION CODE EXTENSION	United States of America	Issued	BMC Software, Inc.
13538591	9,122,552	HYBRID-CLOUD INFRASTRUCTURES	United States of America	Issued	BMC Software, Inc.
13630852	9,135,076	AUTOMATED CAPACITY AWARE PROVISIONING	United States of America	Issued	BMC Software, Inc.
14466528	9,261,372	USER-CENTRIC ANNOTATED LOCATION AWARE ASSET MAPPING	United States of America	Issued	BMC Software, Inc.
13719686	9,122,495	RELATIVE ADDRESSING USAGE FOR CPU PERFORMANCE	United States of America	Issued	BMC Software, Inc.
13793568	9,218,226	SYSTEM AND METHODS FOR REMOTE ACCESS TO IMS DATABASES	United States of America	Issued	BMC Software, Inc.
13727017	9,208,051	AUTOMATIC CREATION OF GRAPH TIME LAYER OF MODEL OF COMPUTER NETWORK OBJECTS AND RELATIONSHIPS	United States of America	Issued	BMC Software, Inc.
13840053	9,098,322	MANAGING A SERVER TEMPLATE	United States of America	Issued	BMC Software, Inc.
13007992	9,207,928	COMPUTER-READABLE MEDIUM, APPARATUS, AND METHODS OF AUTOMATIC CAPABILITY INSTALLATION	United States of America	Issued	BladeLogic, Inc.
13732197	9,003,233	MEMORY LEAK DETECTION	United States of America	Issued	BMC Software, Inc.
13850724	9,213,555	OFF-SCREEN WINDOW CONTROLS	United States of America	Issued	BMC Software, Inc.
13793365	9,218,401	SYSTEMS AND METHODS FOR REMOTE ACCESS TO DB2	United States of America	Issued	BMC Software, Inc.

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

Additional US Patents Pending:

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



APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
		APPLICATION PROVISIONING FOR HETEROGENEOUS DATACENTER ENVIRONMENTS	of America		Inc.
15072948		STATISTICAL IDENTIFICATION OF INSTANCES DURING RECONCILIATION PROCESS	United States of America	Pending	BMC Software, Inc.
15054710		SYSTEM AND METHOD FOR CLOUD PROVISIONING AND APPLICATION DEPLOYMENT	United States of America	Pending	BladeLogic, Inc.
14798029		METHODS AND APPARATUS RELATED TO GRAPH TRANSFORMATION AND SYNCHRONIZATION	United States of America	Pending	BMC Software, Inc.
14682804	US-2015-0213017-A1	METHODS AND APPARATUS FOR MONITORING EXECUTION OF A DATABASE QUERY PROGRAM	United States of America	Published	BMC Software, Inc.
14947569		MONITORING NETWORK PERFORMANCE OF ENCRYPTED COMMUNICATIONS	United States of America	Pending	BladeLogic, Inc.
15046964		REGISTRY SYNCHRONIZER AND INTEGRITY MONITOR	United States of America	Pending	BMC Software, Inc.
14837862	US-2015-0363458-A1	SYSTEMS AND METHODS FOR MIGRATING DATABASE DATA	United States of America	Published	BMC Software, Inc.
15005550		APPLICATION INSTRUMENTATION CODE EXTENSION	United States of America	Pending	BMC Software, Inc.
14821376	US-2016-0041817-A1	HYBRID-CLOUD INFRASTRUCTURES	United States of America	Published	BMC Software, Inc.
14943669	US-2016-0072909-A1	SYSTEM AND METHODS FOR REMOTE ACCESS TO IMS DATABASES	United States of America	Published	BMC Software, Inc.
14961235	US-2016-0092623-A1	AUTOMATIC CREATION OF GRAPH TIME LAYER OF MODEL OF COMPUTER NETWORK OBJECTS AND RELATIONSHIPS	United States of America	Published	BMC Software, Inc.

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

**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:

<b>Mark</b>	<b>Jurisdiction</b>	<b>Serial No./ Filing Date</b>	<b>Reg. No./ Reg. Date</b>	<b>Current Owner</b>
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.
BMC	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.
BMC SOFTWARE and Design 	U.S.	75/691982 4/26/1999	2458178 6/5/2001	BMC Software, Inc.
BMC SOFTWARE 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.	85/049770 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	2234498 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.
MYIT	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 PASAI	U.S.	75/306033 5/27/1997	2208354 12/8/1998	BMC Software, Inc.
QNAMI! (Stylized) 	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.

<b>Mark</b>	<b>Jurisdiction</b>	<b>Serial No./ Filing Date</b>	<b>Reg. No./ Reg. Date</b>	<b>Current Owner</b>
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:

<u>Owner of Record</u>	<u>Mark</u>	<u>Registration / Application Number</u>	<u>Registration / Application Date</u>
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:

<b>Mark</b>	<b>Jurisdiction</b>	<b>Serial Number</b>	<b>Filing Date</b>	<b>Registration Number</b>	<b>Registration Date</b>	<b>Current Owner</b>
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:

<b>Mark</b>	<b>Jurisdiction</b>	<b>Serial No./ Filing Date</b>	<b>Reg. No./ Reg. Date</b>	<b>Current Owner</b>
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:

<b>Mark</b>	<b>Jurisdiction</b>	<b>Serial No./ Filing Date</b>	<b>Reg. No./ Reg. Date</b>	<b>Current Owner</b>
BMC	U.S.	86441420 Oct. 31, 2014	_____	BMC Software, Inc.
BMC	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.