

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5019762

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
BMC SOFTWARE, INC.	05/29/2018
BLADELOGIC, INC.	05/29/2018

RECEIVING PARTY DATA

Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT
Street Address:	ATTN: ARLENE HILL-FORTE
Internal Address:	7033 LOUIS STEPHENS DRIVE
City:	RALEIGH
State/Country:	NORTH CAROLINA
Postal Code:	27709

PROPERTY NUMBERS Total: 19

Property Type	Number
Application Number:	15940121
Application Number:	15915754
Application Number:	15699571
Application Number:	15699582
Application Number:	15783355
Application Number:	15680718
Application Number:	15704926
Application Number:	15700932
Application Number:	15650212
Application Number:	15797714
Application Number:	15672984
Application Number:	15620341
Application Number:	15593232
Application Number:	15864712
Application Number:	15620447
Application Number:	15809380
Application Number:	15658896
Application Number:	15852758

PATENT

Property Type	Number
Application Number:	15826192

CORRESPONDENCE DATA

Fax Number: (202)470-6464

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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ATTORNEY DOCKET NUMBER: 0081 - 2018 IP SUPPLEMENT

NAME OF SUBMITTER: JOSEPH F. KEY, REG. NO. 44,827

SIGNATURE: /Joseph F. Key, Reg. No. 44827/

DATE SIGNED: 06/22/2018

Total Attachments: 6

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IP SUPPLEMENT - PATENTS

This IP SUPPLEMENT - PATENTS, dated as of May, 29, 2018, is delivered pursuant to and supplements (i) the Security Agreement, dated as of September 10, 2013 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Security Agreement"), by and among the Grantors named therein and Credit Suisse AG, Cayman Islands Branch, as the Collateral Agent, and (ii) the Patent Security Agreement, dated as of September 10, 2013 (the "Agreement") executed by Grantor. Capitalized terms used herein not otherwise defined herein shall have the meanings ascribed thereto in the Agreement.

Grantor grants to the Collateral Agent a security interest in all of Grantor's right, title and interest in and to the Patent Collateral set forth on Schedule A annexed hereto. All such Patent Collateral shall be deemed to be part of the Patent Collateral and shall be hereafter subject to each of the terms and conditions of the Security Agreement and the Agreement.

IN WITNESS WHEREOF, Grantor has caused this IP Supplement to be duly executed and delivered by its duly authorized officer as of the date first set forth above.

BMC SOFTWARE, INC.

By: 

Name: Stephen B. Solcher
Title: Senior Vice President &
Chief Financial Officer

BLADELOGIC, INC.

By: 

Name: Stephen B. Solcher
Title: President

PATENT

REEL: 046176 FRAME: 0479

**SCHEDULE A
TO
IP SUPPLEMENT - PATENTS**

Additional US Patents Issued¹:

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
14467743	9710569	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Issued	BMC Software, Inc.
14467768	9792387	SERVICE DESK DATA TRANSFER INTERFACE	United States of America	Issued	BMC Software, Inc.
11538377	9792348	OVERLAY DATASET	United States of America	Issued	BMC Software, Inc.
11956498	9779181	DYNAMIC FOLDING OF LISTED ITEMS FOR DISPLAY	United States of America	Issued	BMC Software, Inc.
14802507	9794110	METHOD AND SYSTEM FOR SIMPLIFYING DISTRIBUTED SERVER MANAGEMENT	United States of America	Issued	BladeLogic Inc.
14463236	9753811	UNOBTRUSIVE COPIES OF ACTIVELY USED COMPRESSED INDICES	United States of America	Issued	BMC Software, Inc.
14836517	9766935	AUTOMATING APPLICATION PROVISIONING FOR HETEROGENEOUS DATACENTER ENVIRONMENTS	United States of America	Issued	BMC Software, Inc.
12628155	9767181	EXTENDING A DATABASE RECOVERY POINT AT A DISASTER RECOVERY SITE	United States of America	Issued	BMC Software, Inc.
14513676	9875135	UTILITY-OPTIMIZED SCHEDULING OF TIME-SENSITIVE TASKS IN A RESOURCE-CONSTRAINED ENVIRONMENT	United States of America	Issued	BMC Software, Inc.
14659002	9760589	MECHANISM FOR DEPRECATING OBJECT ORIENTED DATA	United States of America	Issued	BMC Software, Inc.
12767285	9710938	GRAPH EXPANSION MINI-VIEW	United States of America	Issued	BMC Software, Inc.
14635489	9866375	MULTI-LEVEL KEY MANAGEMENT	United States of America	Issued	BladeLogic Inc.
12847949	9805322	APPLICATION BLUEPRINT AND DEPLOYMENT MODEL FOR DYNAMIC BUSINESS SERVICE MANAGEMENT (BSM)	United States of America	Issued	BMC Software, Inc.
14682804	9652503	METHODS AND APPARATUS FOR MONITORING EXECUTION OF A DATABASE QUERY PROGRAM	United States of America	Issued	BMC Software, Inc.

¹ Please note some of these patents were listed as patent applications previously and have now granted.

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
13251190	9773032	PROVISION OF INDEX RECOMMENDATIONS FOR DATABASE ACCESS	United States of America	Issued	BMC Software, Inc.
14568958	9727315	AUTOMATED BLUEPRINT ASSEMBLY FOR ASSEMBLING AN APPLICATION	United States of America	Issued	BMC Software, Inc.
14821376	9841962	HYBRID-CLOUD INFRASTRUCTURES	United States of America	Issued	BladeLogic Inc.
13631328	9805319	APPLICATION OF BUSINESS PROCESS MANAGEMENT STANDARDS FOR DYNAMIC INFORMATION TECHNOLOGY MANAGEMENT	United States of America	Issued	BMC Software, Inc.
13731211	9734237	PROGRESSIVE ANALYSIS FOR BIG DATA	United States of America	Issued	BMC Software, Inc.
13731309	9631934	MANAGEMENT OF ANNOTATED LOCATION AWARE ASSETS	United States of America	Issued	BMC Software, Inc.
13732292	9645833	ADDITIVE INDEPENDENT OBJECT MODIFICATION	United States of America	Issued	BMC Software, Inc.
14943669	9674293	SYSTEM AND METHODS FOR REMOTE ACCESS TO IMS DATABASES	United States of America	Issued	BMC Software, Inc.
15363860	9760396	MANAGING A SERVER TEMPLATE	United States of America	Issued	BMC Software, Inc.
14943717	9679059	SYSTEMS AND METHODS FOR REMOTE ACCESS TO DB2 DATABASES	United States of America	Issued	BMC Software, Inc.
14877332	9852165	STORING AND RETRIEVING CONTEXT SENSITIVE DATA IN A MANAGEMENT SYSTEM	United States of America	Issued	BMC Software, Inc.
13842072	9613070	MULTI-ENTITY NORMALIZATION	United States of America	Issued	BMC Software, Inc.
14087824	9710525	ADAPTIVE LEARNING OF EFFECTIVE TROUBLESHOOTING PATTERNS	United States of America	Issued	BMC Software, Inc.
13931560	9654473	AUTHENTICATION PROXY AGENT	United States of America	Issued	BMC Software, Inc.
14145216	9819547	SERVER PROVISIONING BASED ON JOB HISTORY ANALYSIS	United States of America	Issued	BMC Software, Inc.
14310539	9712516	MONITORING SIGNED RESOURCES TRANSFERRED OVER A NETWORK	United States of America	Issued	BMC Software, Inc.
14574742	9864798	GENERATION OF SUPPORT DATA RECORDS USING NATURAL LANGUAGE PROCESSING	United States of America	Issued	BMC Software, Inc.
14579436	9659051	ENFORCING REFERENTIAL INTEGRITY FOR OBJECT DATA DOCUMENTS	United States of America	Issued	BladeLogic Inc.
14840708	9680657	COST OPTIMIZATION IN DYNAMIC WORKLOAD CAPPING	United States of America	Issued	BMC Software, Inc.
13900441	9819729	APPLICATION MONITORING FOR CLOUD-BASED ARCHITECTURES	United States of America	Issued	BMC Software, Inc.

APPLN #	PATENT #	TITLE	COUNTRY	STATUS	OWNER
15452309	9846600	SYSTEM AND METHOD TO DYNAMICALLY ALLOCATE VARYING PROCESSING CAPACITY ENTITLEMENTS BASED ON WORKLOAD IMPORTANCE	United States of America	Issued	BMC Software, Inc.

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.
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.
15620447	US-2017-0279623-A1	DYNAMIC WORKLOAD CAPPING	United States of America	Published	BMC Software, Inc.

APPLN#	PUB#	TITLE	COUNTRY	STATUS	OWNER
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.
15825192		SYSTEMS AND METHODS FOR RECOVERY OF CONSISTENT DATABASE INDEXES	United States of America	Pending	BMC Software, Inc.