

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

EPAS ID: PAT5130572

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AMDOCS SOFTWARE SYSTEMS LIMITED	07/18/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AMDOCS SOFTWARE SYSTEMS LIMITED
<b>Street Address:</b>	FIRST FLOOR, BLOCK S, EASTPOINT BUSINESS PARK
<b>City:</b>	DUBLIN
<b>State/Country:</b>	IRELAND
<b>Postal Code:</b>	3
<b>Name:</b>	AMDOCS DEVELOPMENT LIMITED
<b>Street Address:</b>	141 OMONIA AVENUE, THE MARITIME CENTRE, PO BOX 50483
<b>City:</b>	LIMASSOL
<b>State/Country:</b>	CYPRUS
<b>Postal Code:</b>	3606
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15671967
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	4089712573
<b>Email:</b>	diana@zilkakotab.com
<b>Correspondent Name:</b>	ZILKA-KOTAB, PC
<b>Address Line 1:</b>	1155 N. 1ST STREET, SUITE 105
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<b>ATTORNEY DOCKET NUMBER:</b>	AMDCP361A/1031++
<b>NAME OF SUBMITTER:</b>	JAMIE L. ROSSI
<b>SIGNATURE:</b>	/JAMIE ROSSI/
<b>DATE SIGNED:</b>	09/07/2018
<b>Total Attachments: 11</b>	

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ASSIGNMENT

WHEREAS,

**Amdocs Software Systems Limited**  
First Floor, Block S, Eastpoint Business Park  
Dublin 3, Ireland

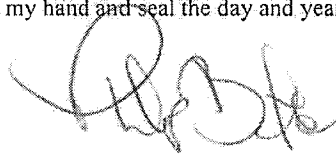
(hereinafter "ASSIGNOR"), is the owner of the Patent Assets (Applications/Patents) listed in enclosed Appendix A;

and WHEREAS, **Amdocs Development Limited** and **Amdocs Software Systems Limited** (hereinafter "ASSIGNEES"), located at 141 Omonia Avenue, The Maritime Centre, PO Box 50483, 3606 Limassol, Cyprus, and First Floor, Block S, Eastpoint Business Park, Dublin 3, Ireland, respectively, wish to formalize [and regulate] the legal right, title and interest in, to and under the said inventions and the said patent assets listed in the enclosed Appendix A.

NOW, THEREFORE, per the terms of a cost sharing agreement among the ASSIGNEES, dated 1 January 2000 (and all of its amendments), and in order to align the legal rights in the Patent Assets with their beneficial ownership and the parties' mutual intent and practice, ASSIGNOR hereby assigns and transfers, unto ASSIGNEES, their successors, legal representatives, and assigns, the entire, irrevocable, and unconditional right, title, and interest of ASSIGNOR in, to, and under the Patent Assets, and the inventions disclosed in the Patent Assets (regardless of whether claimed) including but not limited to (a) all rights of ASSIGNOR in any and all priority patent application(s), and all foreign and domestic patents that may issue from the Patent Assets and the aforementioned priority patent application(s), including reexaminations, reissues, renewals, continuations, continuations-in-part, divisionals, or extensions thereof that have been or may hereafter be filed, and (b) the right to sue for and collect damages for past, present, and future infringements of the Patent Assets.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my signature.

Date:



18th July 2016

Signature of Assignor

Name: PHILIP JOHN BUTLER

Title: DIRECTOR & ASSISTANT SECRETARY

Amdocs Software Systems Limited



## Appendix A

### Patent Assets

Docket No.	Application No.	Patent No.
AMDCP022	11/103,915	8,463,671
AMDCP022+	60/656,681	
AMDCP023	11/106,304	8,094,793
AMDCP023+	60/656,746	
AMDCP024	11/104,017	
AMDCP024+	60/656,682	
AMDCP026	11/211,796	8,135,618
AMDCP026+	60/705,905	
AMDCP027	11/179,432	7,640,192
AMDCP027+	60/692,053	
AMDCP027A	12/645,338	7,966,221
AMDCP029	11/206,711	8,156,519
AMDCP029+	60/704,308	
AMDCP029A	13/414,647	8,555,308
AMDCP030	11/281,740	7,734,575
AMDCP031	11/212,086	7,873,152
AMDCP032	11/218,224	7,996,298
AMDCP034	11/213,589	
AMDCP035	11/211,354	7,389,116
AMDCP036	11/215,382	
AMDCP038	09/780,123	7,143,099
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AMDCP041	11/416,962	7,779,028
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AMDCP057	11/463,856	8,191,059



AMDCP058	11/521,128	8,042,105
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AMDCP073	09/294,567	6,526,389
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AMDCP079	11/671,849	7,729,353
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AMDCP086	11/753,515	
AMDCP093	11/745,972	7,801,523
AMDCP094+	60/915,900	
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AMDCP097	11/847,238	
AMDCP098	11/840,685	8,489,454
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AMDCP130	12/348,600	8,380,593
AMDCP131	12/268,807	
AMDCP132	12/259,070	
AMDCP133	12/350,880	9,191,476
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AMDCP135	12/399,785	9,183,587
AMDCP136	12/353,754	
AMDCP137	12/365,075	8,326,700
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AMDCP319	14/286,954	



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AMDCP320+	61/827,683	
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AMDCP321+	61/827,678	
AMDCP322	14/559,834	
AMDCP322+	61/911,976	
AMDCP323	14/572,716	
AMDCP323+	61/918,597	
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AMDCP338+	61/941,380	
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AMDCP343	14/263,905	
AMDCP345	14/286,942	
AMDCP346	14/260,201	
AMDCP347	14/244,833	
AMDCP350	14/266,625	
AMDCP351	14/266,639	
AMDCP352	14/290,739	
AMDCP354	14/267,832	9,277,431
AMDCP355	14/572,723	
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AMDCP359	14/288,328	9,122,799
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AMDCP367	14/593,505	
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AMDCP368+	62/034,721	
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AMDCP381	14/507,698	
AMDCP382+	62/034,071	
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AMDCP384	14/538,754	
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AMDCP387	14/514,249	
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AMDCP146+	61/088,933	
AMDCP149+	61/077,721	
AMDCP160+	61/136,583	

