PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7278562

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MANOJ KUMAR PRADHAN	07/24/2018
HEMANT MISHRA	07/19/2018
DMITRIY BORISOVICH ZAKHARKIN	07/24/2018
SANATH KUMAR	07/24/2018
HETALKUMAR N. JOSHI	07/17/2018
SUNIL BABU TELAGAMSETTI	07/25/2018
DIVAKAR RADHAKRISHNAN	07/26/2018
JAYASREE YAKKALA	07/19/2018
ROHIT SIVADAS	07/19/2018
PAVAN KUMAR REDDY BEDADALA	07/24/2018
GOPIKANNAN VENUGOPALSAMY	07/25/2018

RECEIVING PARTY DATA

Name:	COMMVAULT SYSTEMS, INC.
Street Address:	1 COMMVAULT WAY
City:	TINTON FALLS
State/Country:	NEW JERSEY
Postal Code:	07724

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17719831

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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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PATENT
REEL: 059704 FRAME: 0502

ATTORNEY DOCKET NUMBER:	COMMV.359A2C2
NAME OF SUBMITTER:	JOHN R. KING
SIGNATURE:	/John R. King/
DATE SIGNED:	04/13/2022

Total Attachments: 77 source=COMMV-359A2C2 assignment#page1.tif source=COMMV-359A2C2 assignment#page2.tif source=COMMV-359A2C2 assignment#page3.tif source=COMMV-359A2C2_assignment#page4.tif source=COMMV-359A2C2_assignment#page5.tif source=COMMV-359A2C2_assignment#page6.tif source=COMMV-359A2C2 assignment#page7.tif source=COMMV-359A2C2_assignment#page8.tif source=COMMV-359A2C2 assignment#page9.tif source=COMMV-359A2C2 assignment#page10.tif source=COMMV-359A2C2 assignment#page11.tif source=COMMV-359A2C2_assignment#page12.tif source=COMMV-359A2C2 assignment#page13.tif source=COMMV-359A2C2 assignment#page14.tif source=COMMV-359A2C2 assignment#page15.tif source=COMMV-359A2C2_assignment#page16.tif source=COMMV-359A2C2 assignment#page17.tif source=COMMV-359A2C2 assignment#page18.tif source=COMMV-359A2C2 assignment#page19.tif source=COMMV-359A2C2 assignment#page20.tif source=COMMV-359A2C2_assignment#page21.tif source=COMMV-359A2C2_assignment#page22.tif source=COMMV-359A2C2 assignment#page23.tif source=COMMV-359A2C2 assignment#page24.tif source=COMMV-359A2C2_assignment#page25.tif source=COMMV-359A2C2 assignment#page26.tif source=COMMV-359A2C2_assignment#page27.tif source=COMMV-359A2C2 assignment#page28.tif source=COMMV-359A2C2_assignment#page29.tif source=COMMV-359A2C2_assignment#page30.tif source=COMMV-359A2C2_assignment#page31.tif source=COMMV-359A2C2 assignment#page32.tif source=COMMV-359A2C2_assignment#page33.tif source=COMMV-359A2C2_assignment#page34.tif source=COMMV-359A2C2_assignment#page35.tif source=COMMV-359A2C2 assignment#page36.tif source=COMMV-359A2C2 assignment#page37.tif source=COMMV-359A2C2 assignment#page38.tif source=COMMV-359A2C2 assignment#page39.tif source=COMMV-359A2C2 assignment#page40.tif source=COMMV-359A2C2 assignment#page41.tif source=COMMV-359A2C2 assignment#page42.tif

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PATENT REEL: 059704 FRAME: 0504 Attorney Docket No.: COMMV.359A1-COMMV.359A4

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
- Hemant Mishra, a citizen of US, and having a mailing address of 2 Matlosz Ct., Englishtown, NJ 07726;
- Dmitriy Borisovich Zakharkin, a citizen of US, and having a mailing address of 406 Culver Road, Monmouth Junction, NJ 08852;
- Sanath Kumar, a citizen of India, and having a mailing address of 205, 2nd Floor, CJN
 Sai Enclave, 2nd Cross, Satya Sai Layout, WhiteField, Bengaluru, India, 560066;
- Hetalkumar N. Joshi, a citizen of US, and having a mailing address of 36 Baltusrol Drive, Manalapan, NJ 07726;
- Sunil Babu Telagamsetti, a citizen of India, and having a mailing address of T Sunil Babu, LIG 25, Dharma Reddy Colony, Phase II, Hyder Nagar, Kukatpally, Hyderabad, India, 500085;
- Divakar Radhakrishnan, a citizen of India, and having a mailing address of H.No: 1-111/2/5/C/13, Prashanth Nagar, Kothaguda, Kondapur, R.R District, Hyderabad, Telangana, India, 500084;
- Jayasree Yakkala, a citizen of US, and having a mailing address of 22 Willow Drive, Apt.
 # 7B, Ocean, NJ 07712;
- Rohit Sivadas, a citizen of US, and having a mailing address of 94 Lakeview Terrace, Apt. B, Eatontown, NJ 07724;
- Pavan Kumar Reddy Bedadala, a citizen of US, and having a mailing address of 9 Masters Blvd., Piscataway, NJ 08854;
- Gopikannan Venugopalsamy, a citizen of US, and having a mailing address of 781 Durshire Way, Sunnyvale, CA 94087.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an applications for Patent of the United States listed in the table below (the "Applications"), each of which list the Assignor as inventors. The Assignor authorizes the Assignee, identified below, or its representatives to insert the application numbers and filing dates of the Applications after they are known.

Title	Application Serial No.	Filing Date	Assignee Docket No.	Attorney Docket No.
BACKUP-BASED MEDIA AGENT CONFIG	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
NETWORK STORAGE BACKUP USING DISTRIBUTED MEDIA AGENTS	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
MULTI-TIERED BACKUP INDEXING	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Γ	BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
	CONFIGURATION				- 1000000000000000000000000000000000000

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724 USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

- (a) the Invention(s) and Application;
- (b) all provisional patent applications relating to the Invention(s) and Application
- (c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;
 - (d) all patents that may be granted on any of the foregoing in clauses (a) through (c);
- (e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);
- (f) all reissues, reexaminations, *inter partes* reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);
- (g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and
- (h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

Assignor acknowledges that he or she has been fully compensated for this Assignment and is not entitled to any future compensation or other remuneration for the Assigned Patent Rights.

Assignor agrees to communicate any facts known about the Invention(s) and promptly provide to Assignee any tangible property embodying or describing the Invention(s), which, if not presently in Assignor's possession, will be delivered to Assignee immediately upon creation thereof.

Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

Attorney Docket No.: COMMV.359A1-COMMV.359A4

- (a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;
- (b) executing and making all rightful paths, declarations, and affirmations relating to the Assigned Patent Rights; and
- (c) assisting (including by giving of testimony) in any litigation, interference, derivation, interpartes review, post-grant review, covered business method patent review, supplemental examination, exparte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assignor will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assigner's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equitable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and file any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor.

No amendment to this Assignment shall be valid unless signed in writing by the party to be bound. No course of conduct or dealing by Assignee will act as an amendment, modification, or waiver of any provision of this Assignment.

This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: September 19, 2017

Assignor's Signature:

Manoi Kumar Pradhan

Maroj Kund Kodhan

Attorney's Signature: /___

Date:

Assignor's Signature:	
	Hemant Mishra
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identif document and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey
Assignor's Signature:	
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
	n Attorney-at-Law of the State of New Jersey,
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identification.	n Attorney-at-Law of the State of New Jersey,
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identif document and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey,

Attorney Docket No.: COMMV.359A1-COMMV.359A4

document and who affirmed execution of same.

Page 4 of 7

authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing

Assignor's Sign	ature:
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
· ·	PALTIN, an Attorney-at-Law of the State of New Jersey, ring identified the person(s) who executed the foregoing ne.
Assignor's Signa	ature:
	Sunii Babu Telagamsetti
Attorney's Signature:	Date:
-	ing identified the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, hav	ing identified the person(s) who executed the foregoing e.
authorized pursuant to N.J.S.A. 41:2-1, hav document and who affirmed execution of sam	

Assignee Docket No.: 100.591.US1-4.105
Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignor's Signature:		
	Jayasree Yakkala	
Attorney's Signature:	Date:	
	IN, an Attorney-at-Law of the State of New Jersey dentified the person(s) who executed the foregoing	
Assignor's Signature		
	Rohit Sivadas	
Attorney's Signature:	Date:	
-	IN, an Attorney-at-Law of the State of New Jersey dentified the person(s) who executed the foregoing	
Assignor's Signature		
	Pavan Kumar Reddy Bedadala	

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

Attorney Docket No.: COMMV.359A1-COMMV.359A4	
Assignor's Signature:	· · · · · · · · · · · · · · · · · · ·
	Gopikannan Venugopalsamy

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Attorney's Signature: _____ Date:

25478325

Attorney Docket No.; COMMV.359A1-COMMV.359A4

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
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- Dmitriy Borisovich Zakharkin, a citizen of US, and having a mailing address of 406
 Culver Road, Monmouth Junction, NJ 08852;
- Sanath Kumar, a citizen of India, and having a mailing address of 205, 2nd Floor, CJN
 Sai Enclave, 2nd Cross, Satya Sai Layout, WhiteField, Bengaluru, India, 560066;
- **Hetalkumar N. Joshi**, a citizen of US, and having a mailing address of 36 Baltusrol Drive, Manalapan, NJ 07726;
- Sunil Babu Telagamsetti, a citizen of India, and having a mailing address of T Sunil Babu, LIG 25, Dharma Reddy Colony, Phase II, Hyder Nagar, Kukatpally, Hyderabad, India, 500085;
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The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an applications for Patent of the United States listed in the table below (the "Applications"), each of which list the Assignor as inventors. The Assignor authorizes the Assignee, identified below, or its representatives to insert the application numbers and filing dates of the Applications after they are known.

Title	Application	Filing Date	Assignee Docket	Attorney Docket
	Serial No.		No.	No.
BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
CONFIG				
NETWORK STORAGE BACKUP	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
USING DISTRIBUTED MEDIA				
AGENTS				
MULTI-TIERED BACKUP	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3
INDEXING				

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION		4	, r	

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- (c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;
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Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

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Attorney Docket No.: COMMV.359A1-COMMV.359A4

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;

- (b) executing and making all rightful oaths, declarations, and affirmations relating to the Assigned Patent Rights; and
- (c) assisting (including by giving of testimony) in any litigation, interference, derivation, interpartes review, post-grant review, covered business method patent review, supplemental examination, exparte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

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This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: September 19, 2017

Assignor's Signature:	
	Manoj Kumar Pradhan
Attorney's Signature:	Date:

M.
Hemant Mishra Date: 7/19/20/ Attorney-at-Law of the State of New Jersey, ed the person(s) who executed the foregoing
Dmitriy Borisovich Zakharkin
Date:
n Attorney-at-Law of the State of New Jersey, ed the person(s) who executed the foregoing
Sanath Kumar
Date:
i

authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

	AND CONTROL CO
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Assignor's Signature:	
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	Hetalkumar N. Joshi
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identification and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey, ied the person(s) who executed the foregoing
Assignor's Signature:	
	Sunil Babu Telagamsetti
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identification document and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey, ied the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, having identif	- · · · · · · · · · · · · · · · · · · ·
authorized pursuant to N.J.S.A. 41:2-1, having identification document and who affirmed execution of same.	

document and who affirmed execution of same.

Page 5 of 7

Assignor's Signature:	100000000000000000000000000000000000000
	Jayasree Yakkala
Attorney's Signature:	Date:
"	N, an Attorney-at-Law of the State of New Jersey, entified the person(s) who executed the foregoing
Assignor's Signature:	
	Rohit Sivadas
Attorney's Signature:	Date:
· .	N, an Attorney-at-Law of the State of New Jersey, entified the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, having id	· ·
authorized pursuant to N.J.S.A. 41:2-1, having id document and who affirmed execution of same.	· ·

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

Gopikannan Venugopalsamy
Date:
Attorney-at-Law of the State of New Jersey, I the person(s) who executed the foregoing

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ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
- Hemant Mishra, a citizen of US, and having a mailing address of 2 Matlosz Ct., Englishtown, NJ 07726;
- Dmitriy Borisovich Zakharkin, a citizen of US, and having a mailing address of 406
 Culver Road, Monmouth Junction, NJ 08852;
- Sanath Kumar, a citizen of India, and having a mailing address of 205, 2nd Floor, CJN
 Sai Enclave, 2nd Cross, Satya Sai Layout, WhiteField, Bengaluru, India, 560066;
- **Hetalkumar N. Joshi**, a citizen of US, and having a mailing address of 36 Baltusrol Drive, Manalapan, NJ 07726;
- Sunil Babu Telagamsetti, a citizen of India, and having a mailing address of T Sunil Babu, LIG 25, Dharma Reddy Colony, Phase II, Hyder Nagar, Kukatpally, Hyderabad, India, 500085;
- Divakar Radhakrishnan, a citizen of India, and having a mailing address of H.No: 1-111/2/5/C/13, Prashanth Nagar, Kothaguda, Kondapur, R.R District, Hyderabad, Telangana, India, 500084;
- Jayasree Yakkala, a citizen of US, and having a mailing address of 22 Willow Drive, Apt.
 #7B, Ocean, NJ 07712;
- Rohit Sivadas, a citizen of US, and having a mailing address of 94 Lakeview Terrace,
 Apt. B, Eatontown, NJ 07724;
- Pavan Kumar Reddy Bedadala, a citizen of US, and having a mailing address of 9 Masters Blvd., Piscataway, NJ 08854;
- Gopikannan Venugopalsamy, a citizen of US, and having a mailing address of 781 Durshire Way, Sunnyvale, CA 94087.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an applications for Patent of the United States listed in the table below (the "Applications"), each of which list the Assignor as inventors. The Assignor authorizes the Assignee, identified below, or its representatives to insert the application numbers and filing dates of the Applications after they are known.

Title	Application	Filing Date	Assignee Docket	Attorney Docket
	Serial No.		No.	No.
BACKUP-BASED MEDIA AGENT CONFIG	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
NETWORK STORAGE BACKUP USING DISTRIBUTED MEDIA AGENTS	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
MULTI-TIERED BACKUP INDEXING	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION				

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724 USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

- (a) the Invention(s) and Application;
- (b) all provisional patent applications relating to the Invention(s) and Application
- (c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;
 - (d) all patents that may be granted on any of the foregoing in clauses (a) through (c);
- (e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);
- (f) all reissues, reexaminations, *inter partes* reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);
- (g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and
- (h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

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Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

Attorney Docket No.: COMMV.359A1-COMMV.359A4

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;

- (b) executing and making all rightful oaths, declarations, and affirmations relating to the Assigned Patent Rights; and
- (c) assisting (including by giving of testimony) in any litigation, interference, derivation, interpartes review, post-grant review, covered business method patent review, supplemental examination, exparte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assigner will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assignor's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equitable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and flie any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor.

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This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: September 19, 2017

Assignor's Signature:	·
	Manoj Kumar Pradhan
Attorney's Signature:	Date:

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.3	359A4
Assignor's Signat	ure:
	Hemant Mishra
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PA	ALTIN, an Attorney-at-Law of the State of New Jersey ng identified the person(s) who executed the foregoing
Assignor's Signat	ture;
	Dmitriy Borisovich Zakharkin
Attorney's Signature: Josephine de	Halti Date: 7/24/2018
Attorney's Name: JOSEPHINE A. P.	ALTIN, an Attorney-at-Law of the State of New Jersey, ng identified the person(s) who executed the foregoing
Assignor's Signatu	ıre:
	Sanath Kumar
Attorney's Signature:	Date:
-	LTIN, an Attorney-at-Law of the State of New Jersey,

Assignor's Signatu	ire:
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
	LTIN, an Attorney-at-Law of the State of New Jersey, g identified the person(s) who executed the foregoing
Assignor's Signatu	лге:
	Sunii Babu Telagamsetti
Attorney's Signature:	
Attorney's Name: JOSEPHINE A. PAI	Date: LTIN, an Attorney-at-Law of the State of New Jersey, g identified the person(s) who executed the foregoing
Attorney's Name: JOSEPHINE A. PAI authorized pursuant to N.J.S.A. 41:2-1, having	Date: LTIN, an Attorney-at-Law of the State of New Jersey, g identified the person(s) who executed the foregoing
Attorney's Name: JOSEPHINE A. PAI authorized pursuant to N.J.S.A. 41:2-1, having document and who affirmed execution of same.	Date: LTIN, an Attorney-at-Law of the State of New Jersey, g identified the person(s) who executed the foregoing

Assignee Docket No.: 100.591.US1-4.105
Attorney Docket No.: COMMV.359A1-COMMV.359A4

document and who affirmed execution of same.

Page 5 of 7

Assignor's Signature:		
	Jayasree Yakkala	
Attorney's Signature:	Date:	
	PALTIN, an Attorney-at-Law of the State of New Jersey, ing identified the person(s) who executed the foregoing e.	
Assignor's Signa	ature:	
	Rohit Sivadas	
Attorney's Signature:		
Attorney's Name: JOSEPHINE A. P	Date: PALTIN, an Attorney-at-Law of the State of New Jersey, ing identified the person(s) who executed the foregoing	
Attorney's Name: JOSEPHINE A. Pauthorized pursuant to N.J.S.A. 41:2-1, havi	Date: PALTIN, an Attorney-at-Law of the State of New Jersey, ing identified the person(s) who executed the foregoing e.	
Attorney's Name: JOSEPHINE A. P authorized pursuant to N.J.S.A. 41:2-1, havid document and who affirmed execution of same	Date: PALTIN, an Attorney-at-Law of the State of New Jersey ing identified the person(s) who executed the foregoing e.	

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

Page 6 of 7

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

25478325

Attorney Docket No.: COMMV.359A1-COMMV.359A4

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- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
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 Culver Road, Monmouth Junction, NJ 08852;
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- Divakar Radhakrishnan, a citizen of India, and having a mailing address of H.No: 1-111/2/5/C/13, Prashanth Nagar, Kothaguda, Kondapur, R.R. District, Hyderabad, Telangana, India, 500084;
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 # 7B. Ocean. NJ 07712;
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MULTI-TIERED BACKUP INDEXING	15/969,719	05-02-2018	100,691.US3.106	COMMV.359A3

Page 1 of 7

Attorney Docket No.: COMMV.359A1-COMMV.369A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION				

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Attorney Docket No.: COMMV.359A1-COMMV.359A4

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This Assignment is effective: September 19, 2017

Assignor's Signature:	
	Manoj Kumar Pradhan
Attorney's Signature:	Date;
,	A. PALTIN, an Attorney-at-Law of the State of New Jersey having identified the person(s) who executed the foregoing

Page 3 of 7

,		
	Assignor's Signature:	
		Hemant Mishra
uttorney's Signature:		Date:
Attorney's Name: Journal of N.J.S. ocument and who affirmed e	S.A. 41:2-1, having identified	Attorney-at-Law of the State of New Jersey, the person(s) who executed the foregoing
	Assignor's Signature:	1880-1880-1880-1880-1880-1880-1880-1880
		Dmitriy Borisovich Zakharkin
Attorney's Signature:		•
Attorney's Name: authorized pursuant to N.J.	JOSEPHINE A. PALTIN, an a S.A. 41:2-1, having identified	•
Attorney's Name: authorized pursuant to N.J. document and who affirmed	JOSEPHINE A. PALTIN, an a S.A. 41:2-1, having identified	Date: Attorney-at-Law of the State of New Jersey,

Assignor's Signature:	
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, as authorized pursuant to N.J.S.A. 41:2-1, having identifidocument and who affirmed execution of same.	
Assignor's Signature:	02A00200000000000000000000000000000000
•	Sunil Babu Telagamsetti
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, as authorized pursuant to N.J.S.A. 41:2-1, having identifit document and who affirmed execution of same.	
•	
Assignor's Signature:	
Assignor's Signature:	Divakar Radhakrishnan

Page 5 of 7

document and who affirmed execution of same.

Attorney Docket No.: COMMV.359A1-COMMV.359A4	SQUISSUSSUSSUSSUSSUSSUSSUS (F) F) FARARARARARARARARARARARARARARARARARARAR
Assignor's Signature:	
	Jayasree Yakkala
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identif document and who affirmed execution of same.	
Assignor's Signature:	
	Rohit Sivadas
Attorney's Signature:	Date:
	n Attorney-at-Law of the State of New Jersey,
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identification.	n Attorney-at-Law of the State of New Jersey,
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identification and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey, led the person(s) who executed the foregoing
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identification and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey,

Page 6 of 7

document and who affirmed execution of same.

Assignee Docket No.: 100.591,US1-4,105 Attorney Docket No.: COMMV.359A1-COMMV.359A4		
Assignor's Signature:		
•	Gopikannan Venugopalsamy	
Attorney's Signature:	Date:	
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having iden document and who affirmed execution of same.	an Attorney-at-Law of the State of New Jersey, attified the person(s) who executed the foregoing	
25478325		

Attorney Docket No.: COMMV.359A1-COMMV.359A4

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Attorney Docket No.: COMMV.359A1-COMMV.359A4

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- (c) assisting (including by giving of testimony) in any litigation, interference, derivation, interpartes review, post-grant review, covered business method patent review, supplemental examination, exparte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assignor will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assignor's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equitable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and file any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor.

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This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: September 19, 2017

Assignor's Signature:	
	Manoj Kumar Pradhan
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE	A. PALTIN, an Attorney-at-Law of the State of New Jersey,

Assignor's Signature:	proximental and a contract of the contract of
	Hemant Mishra
Attorney's Signature:	Date:
·	N, an Attorney-at-Law of the State of New Jersey, lentified the person(s) who executed the foregoing
Assignor's Signature:	
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
•	N, an Attorney-at-Law of the State of New Jersey, lentified the person(s) who executed the foregoing
Assignor's Signature:	
	Sanath Kumar

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.3	359A4
Assignor's Signatu	re: Olfm
	Hetalkumar N. Joshi Latti Date: 7/17/20, LTIN, an Attorney-at-Law of the State of New Jersey, identified the person(s) who executed the foregoing
Assignor's Signatu	re:
	Sunil Babu Telagamsetti
Attorney's Signature:	Date:
	LTIN, an Attorney-at-Law of the State of New Jersey, identified the person(s) who executed the foregoing
Assignor's Signatu	re:
	Divakar Radhakrishnan
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PAI	LTIN, an Attorney-at-Law of the State of New Jersey,

Assignor's Signature:	
	Jayasree Yakkala
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN authorized pursuant to N.J.S.A. 41:2-1, having idea document and who affirmed execution of same.	, an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
Assignor's Signature:	
	Rohit Sivadas
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having idea document and who affirmed execution of same.	, an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
Assignor's Signature:	
	Pavan Kumar Reddy Bedadala
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having iden	, an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

document and who affirmed execution of same.

torney Docket No.: COMMV.359A1-CO	VIVV.359A4
Assignor's S	ignature:
	Gopikannan Venugopalsamy
ttorney's Signature:	Date:

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

25478325

Attorney Docket No.: COMMV.359A1-COMMV.359A4

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
- Hemant Mishra, a citizen of US, and having a mailing address of 2 Matlosz Ct., Englishtown, NJ 07726;
- Dmitrly Borisovich Zakharkin, a citizen of US, and having a mailing address of 406 Culver Road, Monmouth Junction, NJ 08852;
- Sanath Kumar, a citizen of India, and having a mailing address of 205, 2nd Floor, CJN Sai Enclave, 2nd Cross, Satya Sai Layout, WhiteField, Bengaluru, India, 560066;
- Hetalkumar N. Joshi, a citizen of US, and having a mailing address of 36 Baltusrol Drive, Manalapan, NJ 07726;
- * Sunil Babu Telagamsetti, a citizen of India, and having a mailing address of T Sunil Babu, EIG 25, Dharma Reddy Colony, Phase II, Hyder-Nagar, Kukatpally, Hyderabad, India, 500085; ** 51 Country Club &d、Apt 215、Eatontown,NJ 07724。
- Divakar Radhakrishnan, a citizen of India, and having a mailing address of H.No: 1—11/12/5/C/13, Prashanth Nagar, Kothaguda, Kondapur, R.R District, Hyderabad, Telangana, India, 500084;
- Jayasree Yakkala, a citizen of US, and having a mailing address of 22 Willow Drive, Apt.
 #7B, Ocean, NJ 07712;
- Rohit Sivadas, a citizen of US, and having a mailing address of 94 Lakeview Terrace,
 Apt. B, Eatontown, NJ 07724;
- Pavan Kumar Reddy Bedadala, a citizen of US, and having a mailing address of 9
 Masters Blvd., Piscataway, NJ 08854;
- Gopikannan Venugopalsamy, a citizen of US, and having a mailing address of 781 Durshire Way, Sunnyvale, CA 94087.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an applications for Patent of the United States listed in the table below (the "Applications"), each of which list the Assignor as inventors. The Assignor authorizes the Assignee, identified below, or its representatives to insert the application numbers and filing dates of the Applications after they are known.

Title	Application Serial No.	Filing Date	Assignee Docket No.	Attorney Docket No.
BACKUP-BASED MEDIA AGENT CONFIG	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
NETWORK STORAGE BACKUP USING DISTRIBUTED MEDIA AGENTS	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
MULTI-TIERED BACKUP INDEXING	15/969,719	05-02-2018	100.591.US3,105	COMMV.359A3

Page 1 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION			The state of the s	

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724 USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

- (a) the Invention(s) and Application;
- (b) all provisional patent applications relating to the Invention(s) and Application
- (c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;
 - (d) all patents that may be granted on any of the foregoing in clauses (a) through (c);
- (e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);
- (f) all reissues, reexaminations, inter partes reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);
- (g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and
- (h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

Assignor acknowledges that he or she has been fully compensated for this Assignment and is not entitled to any future compensation or other remuneration for the Assigned Patent Rights.

Assignor agrees to communicate any facts known about the Invention(s) and promptly provide to Assignee any tangible property embodying or describing the Invention(s), which, if not presently in Assignor's possession, will be delivered to Assignee immediately upon creation thereof.

Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

Attorney Docket No.: COMMV.359A1-COMMV.359A4

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;

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This Assignment is effective: September 19, 2017

Assignor's Signature:	
•	Manoj Kumar Pradhan
Attorney's Signature:	Date:
· · · · · · · · · · · · · · · · · · ·	A. PALTIN, an Attorney-at-Law of the State of New Jersey, having identified the person(s) who executed the foregoing same.

Assignor's Signature:	
	Hemant Mishra
Attorney's Signature:	Date:
	an Attorney-at-Law of the State of New Jersey,
Assignor's Signature:	
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having ident document and who affirmed execution of same.	an Attorney-at-Law of the State of New Jersey, ified the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, having ident	
authorized pursuant to N.J.S.A. 41:2-1, having ident document and who affirmed execution of same.	

	Assignor's Signature:	
		Hetalkumar N. Joshi
Attorney's Signature:		Date:
	J.S.A. 41:2-1, having ider	an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
	Assignor's Signature:	TJUBL
Attorney's Signature:	Josephine K.	Sunil Babu Telagamsetti Date: 7/25/20
•	J.S.A. 41:2-1, having ider	an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
	Assignor's Signature:	
		Divakar Radhakrishnan
Attorney's Signature:		Date:

Attorney Docket No.: COMMV.359A1-COMMV.359A4

V	9A4
Assignor's Signature	
	Jayasree Yakkala
Attorney's Signature:	Date:
	TN, an Attorney-at-Law of the State of New Jersey, dentified the person(s) who executed the foregoing
Assignor's Signature	
	Rohit Sivadas
	Doing Disagnes
Attorney's Signature:	
Attorney's Name: JOSEPHINE A. PALT	
Attorney's Name: JOSEPHINE A. PALT authorized pursuant to N.J.S.A. 41:2-1, having i	Date: IN, an Attorney-at-Law of the State of New Jersey, dentified the person(s) who executed the foregoing
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Page 6 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4	
Assignor's Signature:	
	Gopikannan Venugopalsamy
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identif document and who affirmed execution of same.	

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Attorney Docket No.: COMMV.359A1-COMMV.359A4

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This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
- Hemant Mishra, a citizen of US, and having a mailing address of 2 Matlosz Ct., Englishtown, NJ 07726;
- Dmltrly Borlsovich Zakharkin, a citizen of US, and having a mailing address of 406 Culver Road, Monmouth Junction, NJ 08852;
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	Serial No.		No.	No.
BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
CONFIG				
NETWORK STORAGE BACKUP	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
USING DISTRIBUTED MEDIA		·		
AGENTS				
MULTI-TIERED BACKUP	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3
INDEXING				

Page 1 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION				

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724 USA (the "Assignee") pursuant to this Assignment.

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- (b) all provisional patent applications relating to the Invention(s) and Application
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- (g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and
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Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

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Attorney Docket No.: COMMV.359A1-COMMV.359A4

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This Assignment is effective; September 19, 2017

document and who affirmed execution of same.

Assignor's Signature:	Notice-Agenty-Market-Ma
	Manoj Kumar Pradhan
Attorney's Signature:	Date;
•	PALTIN, an Attorney-at-Law of the State of New Jersey, aving Identified the person(s) who executed the foregoing

Page 3 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4	
Assignor's Signature:	
sitedate	Hemant Mishra
Attorney's Signature:	Date:
	an Attorney-at-Law of the State of New Jersey
, Assignor's Signature:	
	Dmitrly Borisovich Zakharkin
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identi document and who affirmed execution of same.	an Attorney-at-Law of the State of New Jersey, fied the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, having identi	
authorized pursuant to N.J.S.A. 41:2-1, having ident document and who affirmed execution of same.	

Assignes Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMM	v.359A4
Assignor's Signa	3\$1125.
madem a vila	
	Hetalkumar N. Joshi
Attorney's Signature:	
	PALTIN, an Attorney-at-Law of the State of New Jersey, ing identified the person(s) who executed the foregoing is.
Assignor's Signa	ature:
	Sunii Babu Telagamsetti
Attorney's Signature:	Date:
	PALTIN, an Attorney-at-Law of the State of New Jersey, ing identified the person(s) who executed the foregoing ie.
Assignor's Signa	ature: RDNAXAY
	Divakar Radhakrishnan Date: 7/26/20/8 PALTIN, an Attorney-at-Law of the State of New Jersey, ing identified the person(s) who executed the foregoing
document and who affirmed execution of sam	

Page 5 of 7

	•
Assignor's Signa	iture:
	Jayasree Yakkala
Attorney's Signature:	Date:
instriey's dignature.	WARE.
	ALTIN, an Attorney-at-Law of the State of New Jersey, ng identified the person(s) who executed the foregoing a.
Assignor's Signa	iure:
	Rohit Sivadas
Attomey's Signature:	Date:
Attorney's Name: JOSEPHINE A. P. authorized pursuant to N.J.S.A. 41:2-1, havin	ALTIN, an Attorney-at-Law of the State of New Jersey, ng identified the person(s) who executed the foregoing
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Page 6 of 7

document and who affirmed execution of same.

Assignee Docket No.: 100.591.t Attorney Docket No.: COMMV.3		
As	ssignor's Signature:	
		Gopikannan Venugopalsamy
Attorney's Signature:		Date:
•	v. 41:2-1, having identified	Attorney-at-Law of the State of New Jersey, ad the person(s) who executed the foregoing

25478325

Page 7 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

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This Assignment is by the following individuals (individually and together, the "Assignor"):

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 Sai Enclave, 2nd Cross, Satya Sai Layout, WhiteField, Bengaluru, India, 560066;
- **Hetalkumar N. Joshi**, a citizen of US, and having a mailing address of 36 Baltusrol Drive, Manalapan, NJ 07726;
- Sunil Babu Telagamsetti, a citizen of India, and having a mailing address of T Sunil Babu, LIG 25, Dharma Reddy Colony, Phase II, Hyder Nagar, Kukatpally, Hyderabad, India, 500085;
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- Rohit Sivadas, a citizen of US, and having a mailing address of 94 Lakeview Terrace,
 Apt. B, Eatontown, NJ 07724;
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The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an applications for Patent of the United States listed in the table below (the "Applications"), each of which list the Assignor as inventors. The Assignor authorizes the Assignee, identified below, or its representatives to insert the application numbers and filing dates of the Applications after they are known.

Title	Application	Filing Date	Assignee Docket	Attorney Docket
	Serial No.		No.	No.
BACKUP-BASED MEDIA AGENT CONFIG	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
NETWORK STORAGE BACKUP USING DISTRIBUTED MEDIA AGENTS	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
MULTI-TIERED BACKUP INDEXING	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION				

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724 USA (the "Assignee") pursuant to this Assignment.

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- (b) all provisional patent applications relating to the Invention(s) and Application
- (c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;
 - (d) all patents that may be granted on any of the foregoing in clauses (a) through (c);
- (e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);
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- (h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

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Attorney Docket No.: COMMV.359A1-COMMV.359A4

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This Assignment is effective: September 19, 2017

Assignor's Signature:	
	Manoj Kumar Pradhan
Attorney's Signature:	Date:

Assignor's Signature	9;
	Hemant Mishra
Attorney's Signature:	Date:
	TIN, an Attorney-at-Law of the State of New Jersey identified the person(s) who executed the foregoing
Assignor's Signature	e:
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
	TIN, an Attorney-at-Law of the State of New Jersey, identified the person(s) who executed the foregoing
Assignor's Signature	
Assignor's Signature:	

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignor's Signature:	
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having iden document and who affirmed execution of same.	an Attorney-at-Law of the State of New Jersey, tified the person(s) who executed the foregoing
Assignor's Signature:	
	Sunii Babu Telagamsetti
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having iden document and who affirmed execution of same.	
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authorized pursuant to N.J.S.A. 41:2-1, having iden document and who affirmed execution of same.	an Attorney-at-Law of the State of New Jersey, tified the person(s) who executed the foregoing Divakar Radhakrishnan

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

	Assignor's Signature:	y Jayasree
Attorney's Signature:	Josephineld Th	Jayasree Yakkala
•	N.J.S.A. 41:2-1, having identified	torney-at-Law of the State of New Jersey, the person(s) who executed the foregoing
	Assignor's Signature:	
		Rohit Sivadas
Attorney's Signature:		Date:
Attorney's Name	: JOSEPHINE A. PALTIN, an At N.J.S.A. 41:2-1, having identified	Date: torney-at-Law of the State of New Jersey, the person(s) who executed the foregoing
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Attorney's Name	i: JOSEPHINE A. PALTIN, an At N.J.S.A. 41:2-1, having identified ned execution of same.	torney-at-Law of the State of New Jersey,

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

Page 6 of 7

document and who affirmed execution of same.

25478325

Assignee Docket No.: 100.591.US1-4.105

Attorney Docket No.: COMMV.359A1-COMMV.359A4

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
- Hemant Mishra, a citizen of US, and having a mailing address of 2 Matlosz Ct., Englishtown, NJ 07726;
- Dmitriy Borisovich Zakharkin, a citizen of US, and having a mailing address of 406
 Culver Road, Monmouth Junction, NJ 08852;
- Sanath Kumar, a citizen of India, and having a mailing address of 205, 2nd Floor, CJN
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Page 1 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
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Attorney Docket No.: COMMV.359A1-COMMV.359A4

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This Assignment is effective: September 19, 2017

Assignor's Signature:	
	Manoj Kumar Pradhan
Attorney's Signature:	Date:

Assignor's Signature	9:
	Hemant Mishra
Attorney's Signature:	Date:
The state of the s	FIN, an Attorney-at-Law of the State of New Jersey, identified the person(s) who executed the foregoing
Assignor's Signature	9:
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
•	TIN, an Attorney-at-Law of the State of New Jersey, identified the person(s) who executed the foregoing
1	
Assignor's Signature	
	Sanath Kumar

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignor's Signature:	
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, ar authorized pursuant to N.J.S.A. 41:2-1, having identification and who affirmed execution of same.	
Assignor's Signature:	
	Sunil Babu Telagamsetti
Attorney's Signature:	Date:
•	
authorized pursuant to N.J.S.A. 41:2-1, having identified	
authorized pursuant to N.J.S.A. 41:2-1, having identific document and who affirmed execution of same.	

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4

authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

	Assignor's Signature:	
		Jayasree Yakkala
Attorney's Signature:		Date:
•	J.S.A. 41:2-1, having identified	Attorney-at-Law of the State of New Jersey, the person(s) who executed the foregoing
	Assignor's Signature:	Lebuil
Attorney's Signature:	Posephine Cd. 46	Rohit Sivadas Allin Date: 7/19/201
•	J.S.A. 41:2-1, having identified	Attorney-at-Law of the State of New Jersey, the person(s) who executed the foregoing
	Assignor's Signature:	
		Pavan Kumar Reddy Bedadala

document and who affirmed execution of same.

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4	
Assignor's Signature:	
	Gopikannan Venugopalsamy
Attorney's Signature:	Date:

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

25478325

Attorney Docket No.: COMMV.359A1-COMMV.359A4

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NETWORK STORAGE BACKUP	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
USING DISTRIBUTED MEDIA				
AGENTS				
MULTI-TIERED BACKUP	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3
INDEXING				

Page 1 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
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Assignor's Signature:	
	Manoj Kumar Pradhan
Attorney's Signature:	Date:
•	A. PALTIN, an Attorney-at-Law of the State of New Jersey, having identified the person(s) who executed the foregoing

Page 3 of 7

Assignor's Signati	ire:
	Hemant Mishra
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PA	LTIN, an Attorney-at-Law of the State of New Jersey, g identified the person(s) who executed the foregoing
Assignor's Signat	ure:
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
	ALTIN, an Attorney-at-Law of the State of New Jersey, g identified the person(s) who executed the foregoing.
authorized pursuant to N.J.S.A. 41:2-1, havin document and who affirmed execution of same	g identified the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, havin	g identified the person(s) who executed the foregoing
authorized pursuant to N.J.S.A. 41:2-1, havin document and who affirmed execution of same	g identified the person(s) who executed the foregoing

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignor's Signature:	
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN authorized pursuant to N.J.S.A. 41:2-1, having idea document and who affirmed execution of same.	, an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
Assignor's Signature:	
	Sunil Babu Telagamsetti
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN authorized pursuant to N.J.S.A. 41:2-1, having idea document and who affirmed execution of same.	, an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
Assignor's Signature:	200000000000000000000000000000000000000
	Divakar Radhakrishnan
Attorney's Signature:	Date:

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignor's Signature:	······································
	Jayasree Yakkala
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, a suthorized pursuant to N.J.S.A. 41:2-1, having identification and who affirmed execution of same.	n Attorney-at-Law of the State of New Jersey, fied the person(s) who executed the foregoing
Assignor's Signature:	
	Rohit Sivadas
Attorney's Signature:	Date:
	n Attorney-at-Law of the State of New Jersey,
Attorney's Name: JOSEPHINE A. PALTIN, a authorized pursuant to N.J.S.A. 41:2-1, having identi	n Attorney-at-Law of the State of New Jersey,

Attorney Docket No.: COMMV.359A1-COMMV.359A4

authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing

document and who affirmed execution of same.

Assignor's Signature:	322222222222222222222222222222222222222
	Gopikannan Venugopalsamy
Attorney's Signature:	Date;
•	N, an Attorney-at-Law of the State of New Jersey, entified the person(s) who executed the foregoing

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document and who affirmed execution of same.

Attorney Docket No.: COMMV.359A1-COMMV.359A4

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (individually and together, the "Assignor"):

- Manoj Kumar Pradhan, a citizen of US, and having a mailing address of 1517 Forest Haven Boulevard, Edison, NJ 08817;
- Hemant Mishra, a citizen of US, and having a mailing address of 2 Matlosz Ct., Englishtown, NJ 07726;
- Dmitrly Borisovich Zakharkin, a citizen of US, and having a mailing address of 406
 Culver Road, Monmouth Junction, NJ 08852;
- Sanath Kumar, a citizen of India, and having a mailing address of 205, 2nd Floor, CJN
 Sal Enclave, 2nd Cross, Satya Sai Layout, WhiteField, Bengaluru, India, 560066;
- Hetalkumar N. Joshi, a citizen of US, and having a mailing address of 36 Baltusrol Drive, Manalapan, NJ 07726;
- Sunil Babu Telagamsetti, a citizen of India, and having a mailing address of T Sunil Babu, LIG 25, Dharma Reddy Colony, Phase II, Hyder Nagar, Kukatpally, Hyderabad, India, 500085;
- Divakar Radhakrishnan, a citizen of India, and having a mailing address of H.No: 1-111/2/5/C/13, Prashanth Nagar, Kothaguda, Kondapur, R.R District, Hyderabad, Telangana, India, 500084;
- Jayasree Yakkala, a citizen of US, and having a mailing address of 22 Willow Drive, Apt. #7B, Ocean, NJ 07712;
- Rohit Sivadas, a citizen of US, and having a mailing address of 94 Lakeview Terrace,
 Apt. B, Eatontown, NJ 07724;
- Pavan Kumar Reddy Bedadala, a citizen of US, and having a mailing address of 9
 Masters Blvd., Piscataway, NJ 08854;
- Gopikannan Venugopalsamy, a citizen of US, and having a mailing address of 781 Durshire Way, Sunnyvale, CA 94087.

The Assignor invented and/or co-invented one or more inventions, contributions, concepts, ideas, developments, discoveries, processes, formulas, methods, compositions, techniques, technology, articles, machines, improvements, and all related know-how (collectively "Invention(s)") described or claimed in an applications for Patent of the United States listed in the table below (the "Applications"), each of which list the Assignor as inventors. The Assignor authorizes the Assignee, identified below, or its representatives to insert the application numbers and filing dates of the Applications after they are known.

Title	Application Serial No.	Filing Date	Assignee Docket No.	Attorney Docket No.
BACKUP-BASED MEDIA AGENT CONFIG	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A1
NETWORK STORAGE BACKUP USING DISTRIBUTED MEDIA AGENTS	15/969,720	05-02-2018	100.591.US2.105	COMMV.359A2
MULTI-TIERED BACKUP INDEXING	15/969,719	05-02-2018	100.591.US3.105	COMMV.359A3

Page 1 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

BACKUP-BASED MEDIA AGENT	15/969,727	05-02-2018	100.591.US4.105	COMMV.359A4
CONFIGURATION			**************************************	والمعارضة

Assignor desires to assign the entire right, title and interest in and to the Invention(s), the Application, and all related rights to Commvault Systems, Inc., a Delaware corporation having its principal place of business at 1 Commvault Way, Tinton Falls, New Jersey 07724 USA (the "Assignee") pursuant to this Assignment.

For good and valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby presently and irrevocably assigns to Assignee the entire right, title, and interest throughout the world in and to the following (collectively, the "Assigned Patent Rights"):

- (a) the Invention(s) and Application;
- (b) all provisional patent applications relating to the Invention(s) and Application
- (c) all patent applications claiming direct or indirect priority to the Application and/or any patents issuing from the Application that have been or may be filed or issued in the future, including divisions, continuations, and continuations-in-part;
 - (d) all patents that may be granted on any of the foregoing in clauses (a) through (c);
- (e) all rights of priority under United States law and International Conventions relating to any of the foregoing in clauses (a) through (d);
- (f) all reissues, reexaminations, *inter partes* reviews, post-grant reviews, covered business method patent reviews, supplemental examinations, renewals, substitutes, and extensions of any of the foregoing in clauses (a) through (e);
- (g) the right to file foreign and United States applications on the Invention(s), including filing directly in the name of Assignee; and
- (h) all past, present, and future: claims, causes of action, and enforcement rights for infringement or violation of any of the foregoing in clauses (a) through (f), including the right to sue and collect damages, royalties, and other remedies.

Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country, whose duty it is to issue patents on applications, to issue all patents subject to this Assignment to the Assignee.

Assignor represents that he or she has not previously assigned or licensed, or promised to assign or license, the Assigned Patent Rights to anyone other than Assignee, or taken any other action that conflicts with this Assignment or grants any immunities or rights under the Assigned Patent Rights to anyone other than Assignee.

Assignor acknowledges that he or she has been fully compensated for this Assignment and is not entitled to any future compensation or other remuneration for the Assigned Patent Rights.

Assignor agrees to communicate any facts known about the Invention(s) and promptly provide to Assignee any tangible property embodying or describing the Invention(s), which, if not presently in Assignor's possession, will be delivered to Assignee immediately upon creation thereof.

Assignor agrees to sign all documents and do such additional acts as Assignee deems reasonably necessary or desirable to file, prosecute, perfect, defend, and enforce the Assigned Patent Rights, including:

Attorney Docket No.: COMMV.359A1-COMMV.359A4

(a) assisting in the preparation of and authorizing the filing of any other applications relating to the Assigned Patent Rights and any improvements made thereto by Assignor;

- (b) executing and making all rightful oaths, declarations, and affirmations relating to the Assigned Patent Rights; and
- (c) assisting (including by giving of testimony) in any litigation, interference, derivation, interpartes review, post-grant review, covered business method patent review, supplemental examination, ex parte reexamination, and any other pre-issuance or post-issuance proceedings in any jurisdiction relating to the Assigned Patent Rights.

Assigner will not in the future make any commitments or do any act conflicting with or impairing the Assigned Patent Rights, including, without limitation, raising any controversy, contesting, or challenging, either directly or indirectly, the validity, enforceability, or alleged infringement of any Assigned Patent Rights or assisting any third party in doing so, serving as an expert, a witness, or as a consultant in any cause of action or for any third party that is adverse to the Assigned Patent Rights, or providing a written opinion, or any other written work product, in any cause of action or for any third party that is adverse to the Assigned Patent Rights. Assignor acknowledges that there may be no adequate remedy at law for Assigner's breach of the terms set forth herein, and accordingly, Assignor grants to Assignee in addition to the right to seek monetary damages, the right to have any such breach remedied by equitable relief including, but not limited to, a temporary restraining order, preliminary injunction, permanent injunction, and such other alternative relief as may be appropriate without the necessity of Assignee posting any bond or proving any damages.

Assignor's obligation to assist Assignee in obtaining, defending, and enforcing the Assigned Patent Rights shall continue beyond the termination of employment by Assignee for whatever reason, but Assignee shall compensate Assignor at a reasonable rate after the termination of employment for time actually spent at Assignee's request providing such assistance. Assignor hereby irrevocably designates and appoints Assignee as its duly authorized agent and attorney-in-fact to act for and in Assignor's behalf to execute and file any document and to do all other lawfully permitted acts to further the prosecution, defense, and enforcement of the Assigned Patent Rights with the same legal force and effect as if executed by Assignor.

No amendment to this Assignment shall be valid unless signed in writing by the party to be bound. No course of conduct or dealing by Assignee will act as an amendment, modification, or waiver of any provision of this Assignment.

This Assignment may be executed in counterparts. This Assignment is enforceable by and inures to the benefit of Assignee and its successors and assigns.

This Assignment is effective: September 19, 2017

Assignor's Signature:	
	${\tt MANACA A SOLICIO TO CONTROL CONTR$
	Manoj Kumar Pradhan

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

Attorney's Signature: ______ Date: _____

Assignee Docket No.: 100.591.US1-4.105 Attorney Docket No.: COMMV.359A1-COMMV.359A4	
•	
Assignor's Signature:	
	Hemant Mishra
Attorney's Signature:	Date:
	an Attorney-at-Law of the State of New Jersey,
Assignor's Signature:	
	Dmitriy Borisovich Zakharkin
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN authorized pursuant to N.J.S.A. 41:2-1, having idea document and who affirmed execution of same.	, an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
Assignor's Signature:	
	Sanath Kumar
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN,	an Attorney-at-Law of the State of New Jersey,

Assignor's Signature:	
	Hetalkumar N. Joshi
Attorney's Signature:	Date:
Attorney's Name: JOSEPHINE A. PALTIN, authorized pursuant to N.J.S.A. 41:2-1, having ider document and who affirmed execution of same.	an Attorney-at-Law of the State of New Jersey, ntified the person(s) who executed the foregoing
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Attorney's Signature:	Date:
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Assignor's Signature:	BECONOGRAMMANISMANISMANISMANISMANISMANISMANISMAN
Assignor's Signature:	Divakar Radhakrishnan

document and who affirmed execution of same.

Page 5 of 7

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Jayasree Yakkala
Date:
n Attorney-at-Law of the State of New Jersey, fied the person(s) who executed the foregoing
Rohit Sivadas
Date:
in Attorney-at-Law of the State of New Jersey,
in Attorney-at-Law of the State of New Jersey,
in Attorney-at-Law of the State of New Jersey, fied the person(s) who executed the foregoing
Date: In Attorney-at-Law of the State of New Jersey, fied the person(s) who executed the foregoing
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Page 6 of 7

Attorney Docket No.: COMMV.359A1-COMMV.359A4

Assignor's Signature:

Gopikannan Venugopalsamy

Attorney's Signature:

Date: +/25/20/

Attorney's Name: JOSEPHINE A. PALTIN, an Attorney-at-Law of the State of New Jersey, authorized pursuant to N.J.S.A. 41:2-1, having identified the person(s) who executed the foregoing document and who affirmed execution of same.

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RECORDED: 04/13/2022