

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5859250

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	1
CONVEYING PARTY DATA	
Name	Execution Date
VIVEK SHARMA	03/04/2019
RECEIVING PARTY DATA	
Name:	SARASWATI BP LTD.
Street Address:	1 CHILTERN ROAD
Internal Address:	FLAT 2
City:	SUTTON
State/Country:	UNITED KINGDOM
Postal Code:	SM2 5QP
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16495209
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	XSENSUSPAT@XSENSUS.COM
Correspondent Name:	XSENSUS, LLP
Address Line 1:	200 DAINGERFIELD ROAD
Address Line 2:	SUITE 201
Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	13191US01
NAME OF SUBMITTER:	TIERNEY FARRELL
SIGNATURE:	/TIERNEY FARRELL/
DATE SIGNED:	12/10/2019
Total Attachments: 26	
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FULL INVENTOR ASSIGNMENT

[REDACTED]

WHEREAS, I, as a named inventor listed on the attached APPENDIX (hereinafter referred to as "APPENDIX"), have invented certain new and useful improvements in the invention(s) listed on the same, for which an application for Letters Patent was executed on the priority date included thereon;

AND WHEREAS, Saraswati BP Ltd, a company organized and existing under the laws of the United Kingdom, with offices at Flat 2, 1 Chiltern Road Sutton SM2 5QP, UK (hereinafter referenced as "ASSIGNEE"), in accordance with my employment agreement and/or preexisting agreement or mutual understanding between myself and ASSIGNEE, is desirous of acquiring my entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America);

[REDACTED]

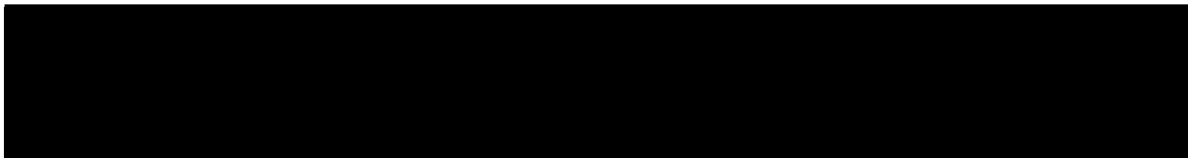
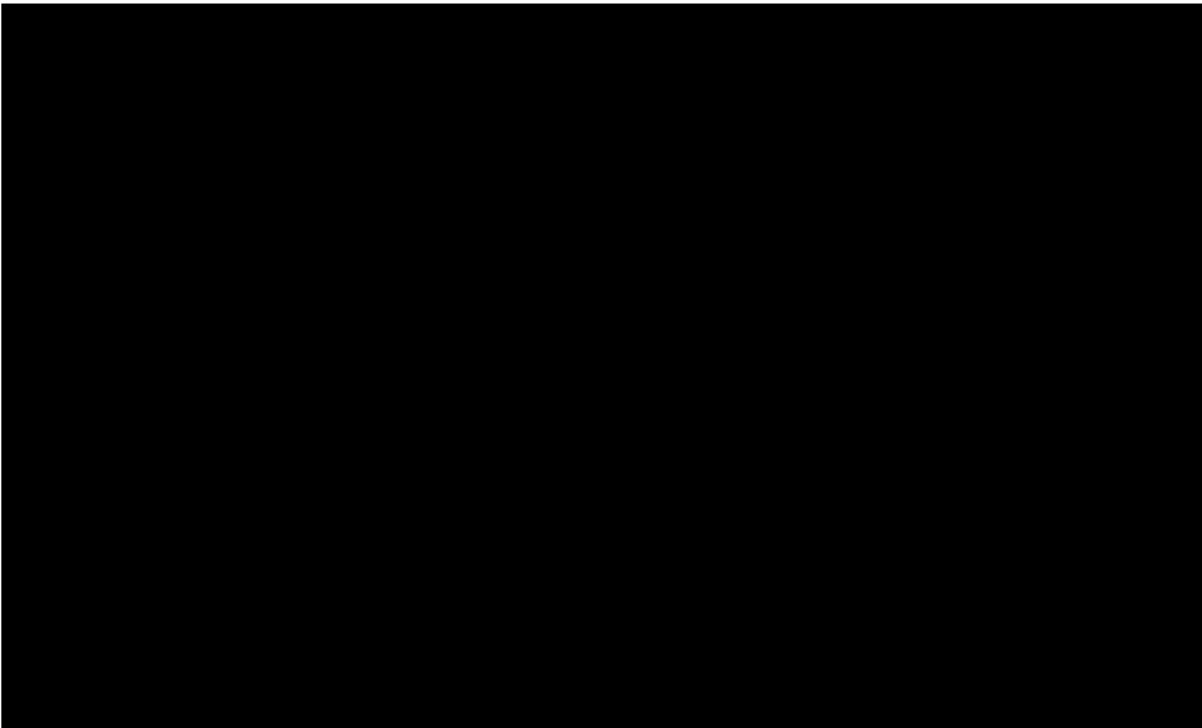
[REDACTED]

NOW THEREFORE, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, I, as an inventor as indicated above, by these presents do hereby assign, sell and transfer unto said ASSIGNEE, the entire right, title and interest in and to the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America), in

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and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America) in respect of the inventions which are the subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

I, as an inventor, further declare that I either have the obligation to assign or have already assigned the full and exclusive rights in and to any inventions made during my employment to ASSIGNEE, and/or that said ASSIGNEE has obtained full and exclusive rights in and to any such inventions based on applicable national law or in accordance with a preexisting agreement or mutual understanding between myself and ASSIGNEE, and that by this Assignment such transfer of right, title and interest in such inventions to said ASSIGNEE is herewith confirmed or restated.



Assignment Inventor to Assignee

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Assignment Inventor to Assignee [REDACTED]

[REDACTED]

The undersigned inventor, ASSIGNEE [REDACTED] hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And the undersigned inventor, ASSIGNEE [REDACTED] hereby authorize and request the attorney(s) of record in this application to insert on the APPENDIX any further identification, including the filing date and application number of the country in which an application for Letters Patent has been or will be subsequently filed, which may be necessary or desirable in order to comply with the rules of the patent office of that country for recordation of this document.

This Assignment Agreement shall be governed by and construed under the laws of the State of New York, United States of America, without regard to conflict of laws principles, all rights and remedies being governed by said laws.

Assignment Inventor to Assignee

This assignment executed on the dates indicated below.

Vivek Sharma

04/03/2019

Name of inventor

Execution date of this assignment [DD/MONTH/YYYY]

Signature of inventor

Saraswati BP Ltd.

Date: 04/03/2019
[DD/MONTH/YYYY]

By: Vivek Sharma
Name: VIVEK SHARMA
Title: DIRECTOR
As duly authorized officer

APPENDIX

Title	Inventors	Sony IPE ref.	Application Number	Filing Date	Priority Date
Handling of MCG resources for a SCG split bearer due to security procedure	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-150-EP-FFWF	16191055.9	28 Sep 2016	28 Sep 2016
Handling of MCG resources for a SCG split bearer due to security procedure	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-150-WO-PCT	PCT/EP2017/071772	30 Aug 2017	28 Sep 2016
UE additional information reporting during connection establishment	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-161-EP-FFWF	16191543.4	29 Sep 2016	29 Sep 2016
UE additional information reporting during connection establishment	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-161-WO-PCT	PCT/EP2017/073196	14 Sep 2017	29 Sep 2016
SC-MCCH Change Notification in femTC & eNB-IoT	Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander; Sharma, Vivek	I-16-166-TW-NP	106126771	08 Aug 2017	30 Sep 2016
SC-MCCH Change Notification in femTC & eNB-IoT	Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander; Sharma, Vivek	I-16-166-WO-PCT	PCT/EP2017/073483	18 Sep 2017	30 Sep 2016
SC-MCCH Change Notification in femTC & eNB-IoT	Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander; Sharma, Vivek	I-16-166-EP-FFWF	16191990.7	30 Sep 2016	30 Sep 2016
System information area enhancement for NR	Wei, Yuxin; Martin, Brian Alexander; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-155-WO-PCT	PCT/EP2017/075371	05 Oct 2017	06 Oct 2016

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System information area enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-155-EP-FFWF	16192705.8	06 Okt 2016	06 Okt 2016
NR MDT enhancements to collect measurements related to interference at higher frequency	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-169-EP-FFWF	16192788.4	07 Okt 2016	07 Okt 2016
NR MDT enhancements to collect measurements related to interference at higher frequency	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-169-EP-FFWF	16192788.4	07 Okt 2016	07 Okt 2016
NR MDT enhancements to collect measurements related to interference at higher frequency	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-169-EP-FFWF	16192788.4	07 Okt 2016	07 Okt 2016
System information enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-178-EP-FFWF	16196249.3	28 Okt 2016	28 Okt 2016
System information enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-178-EP-FFWF	16196249.3	28 Okt 2016	28 Okt 2016
System information enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-178-EP-FFWF	16196249.3	28 Okt 2016	28 Okt 2016
System information enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-178-EP-FFWF	16196249.3	28 Okt 2016	28 Okt 2016
On-demand SI and network overload	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-181-EP-FFWF	16197185.8	03 Nov 2016	03 Nov 2016
On-demand SI and network overload	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-181-EP-FFWF	16197185.8	03 Nov 2016	03 Nov 2016
On-demand SI and network overload	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-181-EP-FFWF	16197185.8	03 Nov 2016	03 Nov 2016
On-demand SI and network overload	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-181-EP-FFWF	16197185.8	03 Nov 2016	03 Nov 2016
Remote UE paging via Relay	Martin, Brian Alexander;Wei, Na;Sharma, Vivek	I-16-183-EP-FFWF	16197181.7	03 Nov 2016	03 Nov 2016
Remote UE paging via Relay	Martin, Brian Alexander;Wei, Na;Sharma, Vivek	I-16-183-EP-FFWF	16197181.7	03 Nov 2016	03 Nov 2016
Remote UE paging via Relay	Martin, Brian Alexander;Wei, Na;Sharma, Vivek	I-16-183-EP-FFWF	16197181.7	03 Nov 2016	03 Nov 2016
Remote UE paging via Relay	Martin, Brian Alexander;Wei, Na;Sharma, Vivek	I-16-183-EP-FFWF	16197181.7	03 Nov 2016	03 Nov 2016

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Cell quality evaluation using multiple beam measurements	Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin;Atung Siri, Samuel Asangbeng;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-182-EP-FFWF	16197339.1	04 Nov 2016	04 Nov 2016
Cell quality evaluation using multiple beam measurements	Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin;Atung Siri, Samuel Asangbeng;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-182-EP- WO-PCT	PCT/EP2017/076260	13 Okt 2017	04 Nov 2016
Fallback Beam Operation in NR	Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek	I-16-184-EP- FFWF	16198547.8	11 Nov 2016	11 Nov 2016
Fallback Beam Operation in NR	Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek	I-16-184- WO-PCT	PCT/EP2017/077977	01 Nov 2017	11 Nov 2016
Fixed RLC SN polling for NR	Martin, Brian Alexander;Sharma, Vivek	I-16-185- WO-PCT	PCT/EP2017/077922	31 Okt 2017	11 Nov 2016
Fixed RLC SN polling for NR	Martin, Brian Alexander;Sharma, Vivek	I-16-185-EP- FFWF	16198536.1	11 Nov 2016	11 Nov 2016
Index based NR SI Table Update Procedure	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-200-EP- FFWF	16206526.2	22 Dez 2016	22 Dez 2016
Index based NR SI Table Update Procedure	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-200- WO-PCT	PCT/EP2017/084279	21 Dez 2017	22 Dez 2016

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RLF Report enhancement	Sharma, Vivek; Martin, Brian Alexander; Wakabayashi, Hideji; Tsuda, Shinichiro; Wei, Yuxin	I-16-206- WO-PCT	PCT/EP2017/084280	21 Dez 2017	22 Dez 2016
RLF Report enhancement	Sharma, Vivek; Martin, Brian Alexander; Wakabayashi, Hideji; Tsuda, Shinichiro; Wei, Yuxin	I-16-206-EP- FFWF	16206101.4	22 Dez 2016	22 Dez 2016
RRC Inactive State Paging for downlink transmission	Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji; Berggren, Anders	I-16-207-EP- FFWF	16206769.8	23 Dez 2016	23 Dez 2016
RRC Inactive State Paging for downlink transmission	Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji; Berggren, Anders	I-16-207- WO-PCT	PCT/EP2017/080828	29 Nov 2017	23 Dez 2016
Mobility handling in Inter-RAT NR-LTE coexistence	Sharma, Vivek; Beale, Martin Warwick; Martin, Brian Alexander; Wong, Shin Horng; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-214- WO-PCT	PCT/EP2018/050031	02 Jan 2018	04 Jan 2017
Mobility handling in Inter-RAT NR-LTE coexistence	Sharma, Vivek; Beale, Martin Warwick; Martin, Brian Alexander; Wong, Shin Horng; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-214-EP- FFWF	17150280.0	04 Jan 2017	04 Jan 2017
Early Handover optimizations based on uplink measurements	Martin, Brian Alexander; Wei, Yuxin; Berggren, Anders; Sharma, Vivek; Wakabayashi, Hideji;	I-16-213-EP- FFWF	17150360.0	05 Jan 2017	05 Jan 2017

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Triggering of mobility reference signals measurements using cell specific reference signals	Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji	I-16-208-WO-PCT	PCT/EP2017/083279	18 Dez 2017	05 Jan 2017
Triggering of mobility reference signals measurements using cell specific reference signals	Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji	I-16-208-EP-FFWF	17150481.4	05 Jan 2017	05 Jan 2017
Inter-RAT Scheduling for NR-LTE Interworking	Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-210-EP-FFWF	17150482.2	05 Jan 2017	05 Jan 2017
Inter-RAT Scheduling for NR-LTE Interworking	Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-210-WO-PCT	PCT/EP2017/081501	05 Dez 2017	05 Jan 2017
NR RACH enhancement	Wei, Yuxin; Martin, Brian Alexander; Berggren, Anders; Sharma, Vivek; Wakabayashi, Hideji	I-16-211-EP-FFWF	17150480.6	05 Jan 2017	05 Jan 2017
NR RACH enhancement	Wei, Yuxin; Martin, Brian Alexander; Berggren, Anders; Sharma, Vivek; Wakabayashi, Hideji	I-16-211-WO-PCT	PCT/EP2018/050096	03 Jan 2018	05 Jan 2017
Flexible FDD operation using TDD band	Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-201-WO-PCT	PCT/EP2017/083899	20 Dez 2017	06 Jan 2017

Flexible FDD operation using TDD band	Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-201-EP-FFWF	17150567.0	06 Jan 2017	06 Jan 2017
2-step RACH fallback to 4-step RACH preamble	Martin, Brian Alexander;Wei, Yuxin;Berggren, Anders;Sharma, Vivek;Wakabayashi, Hideji	I-16-212-EP-FFWF	17150585.2	06 Jan 2017	06 Jan 2017
2-step RACH fallback to 4-step RACH preamble	Martin, Brian Alexander;Wei, Yuxin;Berggren, Anders;Sharma, Vivek;Wakabayashi, Hideji	I-16-212-EP-FFWF	17151167.8	05 Jan 2018	06 Jan 2017
RRC Inactive State Paging for uplink tracking signal reconfiguration	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Berggren, Anders	I-16-217-EP-FFWF	17151167.8	12 Jan 2017	12 Jan 2017
RRC Inactive State Paging for uplink tracking signal reconfiguration	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Berggren, Anders	I-16-217-EP-FFWF	17151167.8	12 Jan 2017	12 Jan 2017
New UE ID and blind detection method	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Atungsiri, Samuel	I-17-009-EP-FFWF	17154636.9	03 Feb 2017	03 Feb 2017
New UE ID and blind detection method	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Atungsiri, Samuel	I-17-009-EP-FFWF	17154636.9	03 Feb 2017	03 Feb 2017
New UE ID and blind detection method	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Atungsiri, Samuel	I-17-009-EP-FFWF	17154636.9	03 Feb 2017	03 Feb 2017

	Asangbeng					
Handover and Paging procedure for Pre-authorised QoS flows	Sharma, Vivek;Martin, Brian Alexander;Berggren, Anders;Nord, Lars	I-17-013-EP-FFWF	17155737.4		10 Feb 2017	10 Feb 2017
Handover and Paging procedure for Pre-authorised QoS flows	Sharma, Vivek;Martin, Brian Alexander;Berggren, Anders;Nord, Lars	I-17-013-EP-FFWF	PCT/EP2018/051330		19 Jan 2018	10 Feb 2017
URLLC Self Pre-emption	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Martin, Brian Alexander;Sharma, Vivek	I-17-026-EP-FFWF	17162407.5		22 Mar 2017	22 Mar 2017
URLLC Self Pre-emption	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Martin, Brian Alexander;Sharma, Vivek	I-17-026-EP-FFWF	PCT/EP2018/057078		20 Mar 2018	22 Mar 2017
Shared Uplink Grant Free Resource	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Martin, Brian Alexander	I-17-027-TW-NP	107103238		30 Jan 2018	22 Mar 2017
Shared Uplink Grant Free Resource	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Martin, Brian Alexander	I-17-027-EP-FFWF	PCT/EP2018/057080		20 Mar 2018	22 Mar 2017
Shared Uplink Grant Free Resource	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Martin, Brian Alexander	I-17-027-EP-FFWF	17162411.7		22 Mar 2017	22 Mar 2017
Dual event based Early Handover optimizations	Martin, Brian Alexander;Berggren, Anders;Sharma, Vivek	I-17-038-EP-FFWF	PCT/EP2018/057370		22 Mar 2018	24 Mar 2017
Dual event based Early Handover optimizations	Martin, Brian Alexander;Berggren, Anders;Sharma, Vivek	I-17-038-EP-FFWF	17162884.5		24 Mar 2017	24 Mar 2017

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Shared Uplink Grant Free Resource higher layer impacts - cipher keys during handover	Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Horng;Martin, Brian Alexander	I-17-033-EP-FFWF	17163832.3	30 Mrz 2017	30 Mrz 2017
Shared Uplink Grant Free Resource higher layer impacts - cipher keys during handover	Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Horng;Martin, Brian Alexander	I-17-033-WO-PCT	PCT/EP2018/057768	27 Mrz 2018	30 Mrz 2017
Shared Uplink Grant Fee Resource higher layer impacts - Secondary eNB to Master eNB	Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Horng;Martin, Brian Alexander	I-17-040-WO-PCT	PCT/EP2018/057784	27 Mrz 2018	30 Mrz 2017
Shared Uplink Grant Fee Resource higher layer impacts - Secondary eNB to Master eNB	Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Horng;Martin, Brian Alexander	I-17-040-EP-FFWF	17163988.3	30 Mrz 2017	30 Mrz 2017
Access barring for remote device via Relay	Martin, Brian Alexander;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-034-EP-FFWF	17164265.5	31 Mrz 2017	31 Mrz 2017
Access barring for remote device via Relay	Martin, Brian Alexander;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-034-TW-NP	107106322	26 Feb 2018	31 Mrz 2017
Access barring for remote device via Relay	Martin, Brian Alexander;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-034-WO-PCT	PCT/EP2018/054885	28 Feb 2018	31 Mrz 2017
Per CE level Access barring	Sharma, Vivek;Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick	I-17-035-EP-FFWF	17164062.6	31 Mrz 2017	31 Mrz 2017
Per CE level Access barring	Sharma, Vivek;Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick	I-17-035-WO-PCT	PCT/EP2018/058105	29 Mrz 2018	31 Mrz 2017
Maintaining MCG/SCG MAC entity during bearer type switching in EN-DC	Sharma, Vivek;Martin, Brian Alexander;Tsuda, Shinichiro;Wakabayashi, Hideji	I-17-051-EP-FFWF	17168565.4	27 Apr 2017	27 Apr 2017

Maintaining MCG/SCG MAC entity during bearer type switching in EN-DC	Sharma, Vivek;Martin, Brian Alexander;Tsuda, Shinichiro;Wakabayashi, Hideji	I-17-051-WO-PCT	PCT/EP2018/055800	08 Mar 2018	27 Apr 2017
NB-IOT dual threshold for idle mode measurements	Martin, Brian Alexander;Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick	I-17-053-WO-PCT	PCT/EP2018/055921	09 Mar 2018	27 Apr 2017
NB-IOT dual threshold for idle mode measurements	Martin, Brian Alexander;Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick	I-17-053-EP-FFWF	17168564.7	27 Apr 2017	27 Apr 2017
5GC to/from EPC handover in LTE cell	Sharma, Vivek;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-056-WO-PCT	PCT/EP2018/060754	26 Apr 2018	05 Mai 2017
5GC to/from EPC handover in LTE cell	Sharma, Vivek;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-056-EP-FFWF	17169832.7	05 Mai 2017	05 Mai 2017
ANR enhancement for LTE cell connected to 5GC/EPC	Sharma, Vivek;Martin, Brian Alexander;Tsuda, Shinichiro;Wakabayashi, Hideji	I-17-058-WO-PCT	PCT/EP2018/060721	26 Apr 2018	05 Mai 2017
ANR enhancement for LTE cell connected to 5GC/EPC	Sharma, Vivek;Martin, Brian Alexander;Tsuda, Shinichiro;Wakabayashi, Hideji	I-17-058-EP-FFWF	17169819.4	05 Mai 2017	05 Mai 2017
Non text based PWS	Sharma, Vivek;Martin, Brian Alexander;Tsuda, Shinichiro;Wakabayashi, Hideji;Wong, Shin Horng	I-17-076-WO-PCT	PCT/EP2018/065798	14 Jun 2018	23 Jun 2017
Non text based PWS	Sharma, Vivek;Martin, Brian Alexander;Tsuda, Shinichiro;Wakabayashi, Hideji;Wong, Shin Horng	I-17-076-EP-FFWF	17177683.4	23 Jun 2017	23 Jun 2017
Configuration of NR-PDCP for MCG SRB1	Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Wong, Shin Horng;Beale, Martin Warwick	I-17-106-WO-PCT	PCT/EP2018/070897	01 Aug 2018	01 Aug 2017

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Configuration of NR-PDCP for MCG SRBI	Sharma, Vivek;Wakabayashi, Hideji,Tsuda, Shinichiro,Wong, Shin Horng;Beale, Martin Warwick	I-17-106-EP-FFWF	17184361.8		01 Aug 2017	01 Aug 2017
User plane data integrity check at HO	Sharma, Vivek;Wakabayashi, Hideji,Tsuda, Shinichiro	I-17-105-EP-FFWF	17184591.0		02 Aug 2017	02 Aug 2017
User plane data integrity check at HO	Sharma, Vivek;Wakabayashi, Hideji,Tsuda, Shinichiro	I-17-105-WO-PCT	PCT/EP2018/070886		01 Aug 2018	02 Aug 2017
Supplementary Uplink transmission for NR	Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-108-EP-FFWF	17185819.4		10 Aug 2017	10 Aug 2017
Supplementary Uplink transmission for NR	Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-108-WO-PCT	PCT/EP2018/070888		01 Aug 2018	10 Aug 2017
Supplementary Uplink transmission for NR	Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-108-TW-NP	107127278		06 Aug 2018	10 Aug 2017
Wake Up Signal Sequence for IoT	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek	I-17-116-EP-FFWF	17186065.3		11 Aug 2017	11 Aug 2017
Wake Up Signal Sequence for IoT	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek	I-17-116-WO-PCT	PCT/EP2018/071659		09 Aug 2018	11 Aug 2017
Use of slot format indication (SFI) for NR WUS	Beale, Martin Warwick;Wong, Shin Horng;Sharma, Vivek;Atungsiri, Samuel Asangbeng	I-17-117-EP-FFWF	17186062.0		11 Aug 2017	11 Aug 2017

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Use of slot format indication (SFI) for NR WUS	Beale, Martin Warwick;Wong, Shin Horng;Sharma, Vivek;Atungsiri, Samuel Asangbeng	I-17-117-WO-PCT	PCT/EP2018/070903	01 Aug 2018	11 Aug 2017
LTE-NR co-existence with simultaneous UL transmissions based on UE triggered solution	Wei, Yuxin;Sharma, Vivek;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-132-EP-FFWF	17193901.0	28 Sep 2017	28 Sep 2017
LTE-NR co-existence with simultaneous UL transmissions based on UE triggered solution	Wei, Yuxin;Sharma, Vivek;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-132-WO-PCT	PCT/EP2018/076085	26 Sep 2018	28 Sep 2017
NR Cell TDD pattern exchange and MDT enhancements	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-133-EP-FFWF	17193856.6	28 Sep 2017	28 Sep 2017
NR Cell TDD pattern exchange and MDT enhancements	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-133-WO-PCT	PCT/EP2018/076264	27 Sep 2018	28 Sep 2017
Further optimizations for Msg1 based on demand SI request	Wei, Yuxin;Sharma, Vivek	I-17-131-EP-FFWF	17195076.9	05 Okt 2017	05 Okt 2017
Further optimizations for Msg1 based on demand SI request	Wei, Yuxin;Sharma, Vivek	I-17-131-WO-PCT	PCT/EP2018/076972	04 Okt 2018	05 Okt 2017
Temporary UE capability band combination update	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-134-WO-PCT	PCT/EP2018/077026	04 Okt 2018	05 Okt 2017
Temporary UE capability band combination update	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-134-EP-FFWF	17195072.8	05 Okt 2017	05 Okt 2017

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On-demand system information for positioning assistance information	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-137-EP-FFWF	17199204.3	30 Okt 2017	30 Okt 2017
On-demand system information for positioning assistance information	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-137-EP-FFWF	17201949.9	24 Okt 2018	30 Okt 2017
A provision of assistance information for accurate positioning under cellular system	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-154-EP-FFWF	17201949.9	15 Nov 2017	15 Nov 2017
A provision of assistance information for accurate positioning under cellular system	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-154-EP-FFWF	17201949.9	15 Nov 2017	15 Nov 2017
A provision of assistance information for accurate positioning under cellular system	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-154-EP-FFWF	17201949.9	15 Nov 2017	15 Nov 2017
A provision of assistance information for accurate positioning under cellular system	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-154-EP-FFWF	17201949.9	15 Nov 2017	15 Nov 2017
Validity area and duration based positioning assistance information	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-155-EP-FFWF	17201963.0	09 Nov 2018	15 Nov 2017
Validity area and duration based positioning assistance information	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-155-EP-FFWF	17201963.0	15 Nov 2017	15 Nov 2017
Service based SI broadcast	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-156-EP-FFWF	17201917.6	15 Nov 2017	15 Nov 2017
Service based SI broadcast	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-156-EP-FFWF	17201917.6	15 Nov 2017	15 Nov 2017
Service based SI broadcast	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-156-EP-FFWF	17201917.6	15 Nov 2017	15 Nov 2017
Service based SI broadcast	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-156-EP-FFWF	17201917.6	15 Nov 2017	15 Nov 2017
UE specific WUS validity timer	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-164-EP-FFWF	17201966.3	15 Nov 2017	15 Nov 2017
UE specific WUS validity timer	Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-164-EP-FFWF	17201966.3	15 Nov 2017	15 Nov 2017

UE specific WUS validity timer	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-164- WO-PCT	PCT/EP2018/080667	08 Nov 2018	15 Nov 2017
Managing of multiple WUS Configurations per UE	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-167-EP- FFWF	17201973.9	15 Nov 2017	15 Nov 2017
Managing of multiple WUS Configurations per UE	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-167- WO-PCT	PCT/EP2018/081383	15 Nov 2018	15 Nov 2017
Encryption of Positioning SI	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-158-EP- FFWF	17202193.3	16 Nov 2017	16 Nov 2017
Encryption of Positioning SI	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-158- WO-PCT	PCT/EP2018/081365	15 Nov 2018	16 Nov 2017
Failure handling of encrypted Positioning assistance information	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-159- WO-PCT	PCT/EP2018/081463	15 Nov 2018	16 Nov 2017
Failure handling of encrypted Positioning assistance information	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-159-EP- FFWF	17202195.8	16 Nov 2017	16 Nov 2017
Support of idle mode operation for cellular communication for Aerial Vehicles	Tsuda, Shinichiro;Wakabayashi, Hideji;Wei, Yuxin;Sharma, Vivek	I-17-161-EP- FFWF	17203662.6	24 Nov 2017	24 Nov 2017
Support of idle mode operation for cellular communication for Aerial Vehicles	Tsuda, Shinichiro;Wakabayashi, Hideji;Wei, Yuxin;Sharma, Vivek	I-17-161- WO-PCT	PCT/EP2018/082163	22 Nov 2018	24 Nov 2017
Notification of system information change for unexpected change of positing assistance information	Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro	I-17-165-EP- FFWF	17204751.6	30 Nov 2017	30 Nov 2017

Notification of system information change for unexpected change of positing assistance information	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-165-WO-PCT	PCT/EP2018/082894	28 Nov 2018	30 Nov 2017
Network push SI - Assistance information provision for handover UAVs	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-169-WO-PCT	PCT/EP2018/083740	06 Dez 2018	07 Dez 2017
Network push SI - Assistance information provision for handover UAVs	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-169-EP-FFWF	17205827.3	07 Dez 2017	07 Dez 2017
Hybrid positioning and multi-level sensor activation	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-185-EP-FFWF	17208148.1	18 Dez 2017	18 Dez 2017
Hybrid positioning and multi-level sensor activation	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-185-WO-PCT	PCT/EP2018/085047	14 Dez 2018	18 Dez 2017
Hybrid positioning and the trigger of preemptive communication for data cache	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-186-WO-PCT	PCT/EP2018/085048	14 Dez 2018	18 Dez 2017
Hybrid positioning and the trigger of preemptive communication for data cache	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-186-EP-FFWF	17208146.5	18 Dez 2017	18 Dez 2017
UAV landing and change of mobility parameters	Sharma, Vivek; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-205-WO-PCT	PCT/EP2019/050466	09 Jan 2019	09 Jan 2018
UAV landing and change of mobility parameters	Sharma, Vivek; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-205-EP-FFWF	18150799.7	09 Jan 2018	09 Jan 2018
RRC connection release for UAVs	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-203-EP-FFWF	18151273.2	11 Jan 2018	11 Jan 2018

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RRC connection release for UAVs	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-203- WO-PCT	PCT/EP2019/050426	09 Jan 2019	11 Jan 2018
Enhancements for UAVs in inactive state with flight path plan.	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-208-EP- FFWF	18151297.1	11 Jan 2018	11 Jan 2018
Enhancements for UAVs in inactive state with flight path plan.	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-208- WO-PCT	PCT/EP2019/050120	03 Jan 2019	11 Jan 2018
Relay node system information handling for remote node in IAB	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-001-EP- FFWF	18151305.2	11 Jan 2018	11 Jan 2018
Relay node system information handling for remote node in IAB	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-001- WO-PCT	PCT/EP2019/050111	03 Jan 2019	11 Jan 2018
Different mobility handling for bearers related to single AR/VR/MR service	Sharma, Vivek;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-002-EP- FFWF	18152654.2	19 Jan 2018	19 Jan 2018
Different mobility handling for bearers related to single AR/VR/MR service	Sharma, Vivek;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-002- WO-PCT	PCT/EP2019/050969	15 Jan 2019	19 Jan 2018
Explicit UL HARQ-ACK Indicator for URLLC	Wong, Shin Horng;Beale, Martin Warwick;Shimezawa, Kazuyuki;Sharma, Vivek	I-18-010-EP- FFWF	18152655.9	19 Jan 2018	19 Jan 2018
Explicit UL HARQ-ACK Indicator for URLLC	Wong, Shin Horng;Beale, Martin Warwick;Shimezawa, Kazuyuki;Sharma, Vivek	I-18-010- WO-PCT	PCT/EP2019/050962	15 Jan 2019	19 Jan 2018
Network push SI for RRC_INACTIVE UEs	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-18-011-EP- FFWF	18156916.1	15 Feb 2018	15 Feb 2018

Network push SI for RRC_INACTIVE UEs	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-18-011-WO-PCT	PCT/EP2019/052408	31 Jan 2019	15 Feb 2018
GU-TI related information in MSG5 while moving from 5GC to EPC	Sharma, Vivek; Alnäs, Svante; Nord, Lars; Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin	I-18-024-WO-PCT	PCT/EP2019/053333	11 Feb 2019	15 Feb 2018
GU-TI related information in MSG5 while moving from 5GC to EPC	Sharma, Vivek; Alnäs, Svante; Nord, Lars; Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin	I-18-024-EP-FFWF	18157035.9	15 Feb 2018	15 Feb 2018
Uplink scheduling in IAB	Wei, Yuxin; Sharma, Vivek; Shimezawa, Kazuyuki; Atungsiri, Samuel Asangbeng	I-18-031-EP-FFWF	18164439.4	27 Mrz 2018	27 Mrz 2018
Uplink scheduling in IAB	Wei, Yuxin; Sharma, Vivek; Shimezawa, Kazuyuki; Atungsiri, Samuel Asangbeng	I-18-031-WO-PCT			27 Mrz 2018
Candidate route management in IAB	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji	I-18-041-EP-FFWF	18164770.2	28 Mrz 2018	28 Mrz 2018
Candidate route management in IAB	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji	I-18-041-WO-PCT			28 Mrz 2018
Active route selection in IAB	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji	I-18-042-EP-FFWF	18164792.6	28 Mrz 2018	28 Mrz 2018
Active route selection in IAB	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji	I-18-042-WO-PCT			28 Mrz 2018

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ACB for IAB node	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-043-EP-FFWF	18164804.9	28 Mrz 2018	28 Mrz 2018
ACB for IAB node	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-043-WO-PCT			28 Mrz 2018
Increased 5G-S-TMSI size handling in msg3 size constrained network	Sharma, Vivek;Alna's, Svante;Nord, Lars;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-050-EP-FFWF	18165795.8	04 Apr 2018	04 Apr 2018
Critical message handling in the same DRB	Sharma, Vivek;Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Shimezawa, Kazuyuki;Wakabayashi, Hideji	I-18-071-EP-FFWF	18172380.0	15 Mai 2018	15 Mai 2018
Route change procedure in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-18-080-EP-FFWF	18178593.2	19 Jun 2018	19 Jun 2018
2-step RACH enhancement for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-081-EP-FFWF	18178844.9	20 Jun 2018	20 Jun 2018
Power saving techniques for multiple active bandwidth part (BWP) in NR	Awad, Yassin Aden;Wong, Shin Horng;Shimezawa, Kazuyuki;Sharma, Vivek;Beale, Martin Warwick	I-18-092-EP-FFWF	18185912.5	26 Jul 2018	26 Jul 2018
Activation and deactivation methods for multiple bandwidth parts (BWP) in NR	Awad, Yassin Aden;Wong, Shin Horng;Shimezawa, Kazuyuki;Sharma, Vivek;Beale, Martin Warwick	I-18-094-EP-FFWF	18185911.7	26 Jul 2018	26 Jul 2018
UL mobility and conditional handover optimization for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-108-EP-FFWF	18188060.0	08 Aug 2018	08 Aug 2018
NTN to terrestrial network measurement trigger	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-109-EP-FFWF	18188073.3	08 Aug 2018	08 Aug 2018

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SI enhancement for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-110-EP- FFWF	18188079.0	08 Aug 2018	08 Aug 2018
Early Data Transmission via Paging for MTC	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Awad, Yassin Aden	I-18-111-EP- FFWF	18188364.6	09 Aug 2018	09 Aug 2018
Feedback for Downlink Early Data Transmission in MTC	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Awad, Yassin Aden	I-18-115-EP- FFWF	18188365.3	09 Aug 2018	09 Aug 2018
Early Data Transmission via Message 2 for MTC	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Awad, Yassin Aden	I-18-116-EP- FFWF	18188366.1	09 Aug 2018	09 Aug 2018
NTN handover signaling reduction and mobility without handover signalling	Sharma, Vivek;Wei, Yuxin;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng	I-18-118-EP- FFWF	18189822.2	20 Aug 2018	20 Aug 2018
Beam failure reporting and Radio Link Monitoring for multiple active bandwidth parts (BWP) in NR	Awad, Yassin Aden;Wong, Shin Horng;Shimezawa, Kazuuki;Sharma, Vivek;Beale, Martin Warwick	I-18-123-EP- FFWF	18195309.2	18 Sep 2018	18 Sep 2018
Efficient UE location reporting for NTN	Atungsiri, Samuel Asangbeng;Wei, Yuxin;Sharma, Vivek	I-18-132-EP- FFWF	18196379.4	24 Sep 2018	24 Sep 2018
BSR enhancement in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Awad, Yassin Aden	I-18-129-EP- FFWF	18197358.7	27 Sep 2018	27 Sep 2018
Fast route change signaling in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Awad, Yassin Aden	I-18-130-EP- FFWF	18197370.2	27 Sep 2018	27 Sep 2018
NTN predictive uplink scheduling grant and initial parameter provision with RRC signaling or alternative method.	Sharma, Vivek;Wei, Yuxin;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng	I-18-131-EP- FFWF	18197363.7	27 Sep 2018	27 Sep 2018

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Rules for URLLC traffic scheduling on uplink	Sharma, Vivek; Wong, Shin Horng; Awad, Yassin Aden	I-18-133-EP-FFWF	18197373.6	27 Sep 2018	27 Sep 2018
Initial access procedures for NR-U	Awad, Yassin Aden; Sharma, Vivek; Berggren, Anders; Wei, Yuxin; Wakabayashi, Hideji	I-18-144-EP-FFWF	18197359.5	27 Sep 2018	27 Sep 2018
Route change in IAB & with connection to a new parent node	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Awad, Yassin Aden	I-18-158-EP-FFWF	18204001.4	01 Nov 2018	01 Nov 2018
CIOT HO without security and Rogue gNB	Sharma, Vivek; Nord, Lars	I-18-162-EP-FFWF	18211788.7	11 Dez 2018	11 Dez 2018
Intra-UE prioritization and Multiplexing solutions for handling a mixture of different traffic for IIOT in 5G system	Awad, Yassin Aden; Sharma, Vivek; Wong, Shin Horng; Wei, Yuxin; Shimezawa, Kazuyuki	I-18-180-EP-FFWF	18214944.3	20 Dez 2018	20 Dez 2018
BFR enhancement in NTN	Wei, Yuxin; Sharma, Vivek; Atungsiri, Samuel Asangbeng; Awad, Yassin Aden	I-18-181-EP-FFWF	18214932.8	20 Dez 2018	20 Dez 2018
Supporting the configuration of more than one configured grant in a cell	Sharma, Vivek; Awad, Yassin Aden; Wei, Yuxin; Wakabayashi, Hideji	I-18-182-EP-FFWF	18214782.7	20 Dez 2018	20 Dez 2018
URLLC Path redundancy in dual connectivity and need for counter check procedure via SN redundant path	Sharma, Vivek; Awad, Yassin Aden; Wei, Yuxin; Wakabayashi, Hideji	I-18-184-EP-FFWF	18214784.3	20 Dez 2018	20 Dez 2018
Priority handling between URLLC services and other service and also involving sharing operators	Sharma, Vivek; Shimezawa, Kazuyuki	I-18-179-EP-FFWF	19151959.4	15 Jan 2019	15 Jan 2019
Enhancements on Inactive state in NTN	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Atungsiri, Samuel Asangbeng; Awad, Yassin Aden	I-18-196-EP-FFWF	19152668.0	18 Jan 2019	18 Jan 2019

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URLLC Path redundancy in dual connectivity and need for reestablishment and resume procedure via SN redundant path	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-18-197-EP-FFWF	19152906.4	21 Jan 2019	21 Jan 2019
Beam management for NTN	Wei, Yuxin;Awad, Yassin Aden;Sharma, Vivek;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji	I-19-014-EP-FFWF	19156988.8	13 Feb 2019	13 Feb 2019
Optimization of UL data transmission message A in 2-step RACH for 5G system	Awad, Yassin Aden;Sharma, Vivek;Berggren, Anders;Wei, Yuxin;Wakabayashi, Hideji	I-19-017-EP-FFWF	19157268.4	14 Feb 2019	14 Feb 2019
State transition and URLLC traffic	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Awad, Yassin Aden;Wakabayashi, Hideji	I-19-018-EP-FFWF	19157276.7	14 Feb 2019	14 Feb 2019
Location based 2-step RACH	Wei, Yuxin;Berggren, Anders;Sharma, Vivek;Awad, Yassin Aden;Wakabayashi, Hideji	I-19-019-EP-FFWF	19157264.3	14 Feb 2019	14 Feb 2019
Introduce new compression profiles and configuration of different profiles with single PDCP entity	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-19-025-EP-FFWF	19157311.2	14 Feb 2019	14 Feb 2019
Indication of switching MCS table for uplink Intra-UE prioritization and Multiplexing for different URLLC traffic in 5G system	Awad, Yassin Aden;Sharma, Vivek;Wei, Yuxin;Wong, Shin Horng;Wakabayashi, Hideji	I-19-035-EP-FFWF	19157326.0	14 Feb 2019	14 Feb 2019
Relaxed measurements in CONNECTED/IDLE/INACTIVE mode in multi beam scenario	Sharma, Vivek;Beale, Martin Warwick;Wei, Yuxin;Wong, Shin Horng;Awad, Yassin Aden	I-19-036-EP-FFWF	19157287.4	14 Feb 2019	14 Feb 2019
Conditional RRM Measurement for Power Saving	Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek	I-19-037-EP-FFWF	19157314.6	14 Feb 2019	14 Feb 2019

Assignment Inventor to Assignee to SEU to Sony Corp.

Fast transition to Connected mode for a group of UEs	Sharma, Vivek;Awad, Yassin Aden, Wei, Yuxin;Wakabayashi, Hideji	I-19-026-EP- FFWF	19158952.2	22 Feb 2019	22 Feb 2019
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