

Third Generation Partnership Project Agreement

Officially recognized Standardization Organizations have agreed to work collaboratively for the production of Third Generation Mobile System specifications. The means for this collaborative activity has been provided in the form of a Partnership Project. The Partners in the Partnership Project are signatories to this Third Generation Partnership Project Agreement, hereinafter referred to as the Agreement.

CONSIDERING THAT:

- The Partners have agreed to co-operate in the production of globally applicable Technical Specifications and Technical Reports for a 3rd Generation Mobile System based on evolved GSM core networks and the radio access technologies that they support (i.e., Universal Terrestrial Radio Access (UTRA) both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes).
- 3GPP is established for the preparation, approval, and maintenance of the above mentioned Technical Specifications and Technical Reports.
- 3GPP is not to be construed as a legal entity.

FURTHER CONSIDERING THAT:

The 3GPP partnership is characterized by the following attributes:

- uses minimum production time for Technical Specifications and Technical Reports from conception to approval;
- uses fast, electronic based approval processes;
- makes maximum use of modern (electronic) working methods; and
- ensures that decision making takes place at the lowest appropriate levels.

THE PARTNERS THEREFORE AGREE TO THE FOLLOWING:

1 DEFINITIONS

1.1 3GPP

The acronym "3GPP" shall mean the Third Generation Partnership Project.

1.2 Organizational Partner

An Organizational Partner is any open Standardization Organization, irrespective of geographical location, which has:

- a national, regional or other officially recognized status and the capability and authority to define, publish and set standards within the 3GPP scope, in that nation or region;
- committed itself to all or part of the 3GPP scope; and
- signed this Agreement.

1.3 Market Representation Partner

A Market Representation Partner is any organization which has been invited by the Organizational Partners to take part in 3GPP, irrespective of geographical location, which:

- has the ability to offer advice to 3GPP and to bring into 3GPP a consensus view of market requirements (e.g., services, features and functionality) falling within the 3GPP scope;
- does not have the capability and authority to define, publish and set standards within the 3GPP scope, nationally or regionally;
- has committed itself to all or part of the 3GPP scope; and
- has signed this Agreement.

1.4 Partners

The term "Partners" shall be used in this Agreement to describe Organizational Partners and Market Representation Partners when referred to collectively.

2 GENERAL

2.1 Purpose of 3GPP

The purpose of 3GPP is to prepare, approve and maintain globally applicable Technical Specifications and Technical Reports for a 3rd Generation Mobile System based on the evolved GSM core networks, and the radio access technologies supported by the Partners (i.e., UTRA both FDD and TDD modes), to be transposed by the Organizational Partners into appropriate deliverables (e.g., standards).

2.2 Structure of 3GPP

3GPP shall consist of:

- A Project Co-ordination Group (PCG); and
- Technical Specification Groups (TSGs).

The Technical Specification Groups may establish Working Groups if required.

The Organizational Partners of 3GPP shall hold regular meetings.

The Organizational Partners may decide to call a meeting of the full 3GPP membership if required.

2.3 Scope and objectives of 3GPP

Initially, 3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for the first phase of a 3rd Generation Mobile System including:

- UTRAN (including UTRA, W-CDMA in Frequency Division Duplex (FDD) mode and TD-CDMA in Time Division Duplex (TDD) mode);
- 3GPP Core Network (Third Generation networking capabilities evolved from GSM. These capabilities include mobility management and global roaming);
- Terminals for access to the above (including specifications for a UIM); and
- System and service aspects.

위규진 10.7. A.C. [Signature]

The Technical Specifications and Technical Reports shall be developed in view of global roaming and circulation of terminals.

The set of 3GPP Technical Specifications and Technical Reports for the first phase of the 3GPP core network and the specifications for the GSM core network should be common to the greatest extent possible and should not be unnecessarily different.

The results of the 3GPP work shall form the basis of member contributions to the ITU in accordance with existing procedures.

3GPP shall take account of emerging ITU recommendations on interworking between IMT-2000 family members.

In the framework of agreed relationships, the 3GPP Technical Specifications and Technical Reports will form the basis of standards, or parts of standards, of the Organizational Partners.

2.4 Additional documentation applicable to 3GPP

The following additional documentation form part of 3GPP:

- the Third Generation Partnership Project Description; and
- the Third Generation Partnership Project Working Procedures.

3 ORGANIZATIONAL PARTNERS

3.1 Undertakings of Organizational Partners.

The Organizational Partners shall undertake to:

- encourage their members to contribute to the common set of Technical Specifications and Technical Reports and to avoid duplication of work;
- convert / transpose / adopt all relevant Technical Specifications and Technical Reports resulting from 3GPP into their own relevant deliverables through their normal processes;
- identify as early as possible, any national / regional regulatory requirements that may lead to options within the Technical Specifications and Technical Reports;
- make their IPR Policy available for consideration by the other Organizational Partners;
- encourage that their IPR Policies are respected by their members (i.e., encourage their members to declare at the earliest opportunity any Intellectual Property Rights which they may have and believe to be essential, or potentially essential, to any ongoing work within 3GPP);
- encourage their respective members to declare their willingness to grant licences on fair, reasonable terms and conditions on a non discriminatory basis, and consistent with their IPR Policy; and
- contribute to the resources necessary for the operation of 3GPP.

위규진 H.F. A.C. [Signature]

3.2 Rights of the Organizational Partners

3.2.1 Participation in the 3GPP work

Organizational Partners have the right to participate in the work of the Project Co-ordination Group.

Organizational Partners have the right to participate in the work of the Technical Specification Groups.

Members of Organizational Partners (Individual Members) have the right to participate in the work of the Technical Specification Groups. They shall act in their own right and shall carry the full responsibility for their contributions.

3.2.2 Joint Copyright

The Organizational Partners shall jointly own copyright on the Technical Specifications and Technical Reports approved by 3GPP. For candidate Organizational Partners, their copyright on work already ongoing or completed within 3GPP shall be decided by the Organizational Partners on a case-by-case basis.

4 MARKET REPRESENTATION PARTNERS

4.1 Undertakings of the Market Representation Partners

The Market Representation Partners shall undertake to:

- commit themselves to the promotion of 3GPP;
- encourage their members to contribute to the common objectives of the 3GPP and to avoid duplication of work;
- offer advice to 3GPP and to bring into 3GPP a consensus view of market requirements (e.g., services, features and functionality) falling within the 3GPP scope; and
- define the 3GPP system and service scenarios;

4.2 Rights of the Market Representation Partners

4.2.1 Participation in the 3GPP work

Market Representation Partners have the right to participate in the work of the Project Co-ordination Group.

Market Representation Partners have the right to participate in the work of the Technical Specification Groups.

5 MODIFICATIONS

The present Agreement may only be modified by consensus agreement amongst the signatories. The signatories shall be given at least 30 days written notice of the proposed modifications. Any assignment of rights (e.g., participation, copyright ownership) under this Agreement shall be considered as a modification to this Agreement.



6 TERMINATION

If a Partner desires to withdraw from 3GPP it shall give 6 months written notice.

7 DURATION

This Agreement shall remain valid until the Organizational Partners decide otherwise.

8 DISSOLUTION

In the event of a voluntary dissolution of 3GPP, the Organizational Partners shall determine the terms of dissolution by consensus. All issues shall be documented and distributed at least 30 days in advance of the agreement.

9 DISPUTE SETTLEMENT

In the event of a dispute arising between Partners, related to this Partnership Project, the Partners concerned shall use all means at their disposal to endeavour to resolve the dispute by internal arbitration and conciliation.

10 ADDITIONAL PARTNERSHIPS

Partnership in 3GPP, as defined in the definition section and in clauses 3 and 4 of the present Agreement, is open to organizations irrespective of their geographical location.

Any additional Partnership in 3GPP shall be approved, on a consensus basis, by the existing Organizational Partners.






The consensus decision from the Organizational Partners with the Name, Title, Organization, Address, Signature of the new Partner and the Date of signature shall be annexed to this Agreement.

Annexes shall be considered as an integral part of this Agreement.

11 PARTICIPATION IN OTHER STANDARDIZATION ACTIVITIES

Signatories to this Agreement shall not be excluded from participation in other partnership projects or other standardization activities.

This Agreement is entered into by and between the following Organizational Partners:

<p style="text-align: center;">ARIB</p> <p>Mr Hiroshi Furukawa Senior Managing Director ARIB Association of Radio Industries and Businesses Nittochi Building 14F, 1-4-1 Kasumigaseki Chiyoda-ku, Tokyo 100-0013 JAPAN</p> <p>Signature </p> <p>Date 4 December 1998</p>	<p style="text-align: center;">ETSI</p> <p>Mr Karl Heinz Rosenbrock Director General ETSI European Telecommunication Standards Institute 650, route des lucioles F-06921 Sophia Antipolis Cedex FRANCE</p> <p>Signature </p> <p>Date 4 December 1998</p>
<p style="text-align: center;">T1</p> <p>Dr Asok Chatterjee Head of T1 3GPP delegation as authorized by Mr Gerald Peterson, Committee T1 Chairman T1 Secretariat 1200 G Street NW, Suite 500 Washington, DC USA</p> <p>Signature </p> <p>Date 4 December 1998</p>	<p style="text-align: center;">TTA</p> <p>Dr Kyu-Jin Wee Chairman SC-7 TTA Telecommunications Technology Association 13th Floor Sejongro Daewoo Building 167 Naesoo-dong chongro Seoul KOREA</p> <p>Signature </p> <p>Date 4 December 1998</p>
<p style="text-align: center;">TTC</p> <p>Mr Nobuhiro Horisaki Executive Managing Director TTC Telecommunications Technology Committee 1-2-11, Hamamatsu-cho, Minato-ku, Tokyo, 105-0013 JAPAN</p> <p>Signature </p> <p>Date 4 December 1998</p>	

Executed in 5 originals



Annex 1

This Agreement is entered into by the following Market Representation Partner:

UMTS Forum

Name:

Title:

Address:

Signature

Date

December 1998

THIS PARTNERSHIP IS
ON 27 FEBRUARY 2017
CANCELLED
EXISTENCE
OF UMTS FORUM
RUSSEL SQUARE HOUSE
10-12 RUSSEL SQUARE
LONDON, WC1R 4EE
UK

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Hiroshi Furukawa</p> <p>Signature <i>Hiroshi Furukawa</i></p> <p>Date 4 December 1998</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date 4 December 1998</p>
<p>T1</p> <p>Dr Asok Chatterjee</p> <p>Signature <i>Asok Chatterjee</i></p> <p>Date 4 December 1998</p>	<p>TTA</p> <p>Dr Kyu-Jin Wee</p> <p>Signature <i>위 쥬 진</i></p> <p>Date 4 December 1998</p>
<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature <i>Nob Horisaki</i></p> <p>Date 4 December 1998</p>	

Annex 2 This Agreement is entered into by the following Market Representation Partner:






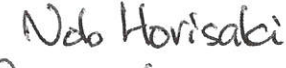

Global Mobile Suppliers Association (GSA)

Name: Mr Alan Hadden
 Title: President
 Address: GSA Secretariat
 Europa House
 Church Street
 Old Isleworth
 TW7 6BW Middlesex
 United Kingdom

Signature 

Date 24th February 1999

Authorised by the existing Partners

<p align="center">ARIB</p> <p>Mr Hiroshi Furukawa Signature  Date 9 March 1999</p>	<p align="center">ETSI</p> <p>Mr Karl Heinz Rosenbrock Signature  Date 24 February 1999</p>
<p align="center">T1</p> <p>Dr Asok Chatterjee Signature  Date 1 March, 1999</p>	<p align="center">TTA</p> <p>Dr Kyu-Jin Wee  Signature  Date 1 March 1999</p>
<p align="center">TTC</p> <p>Mr Nobuhiro Horisaki Signature  Date 9 March 1999</p>	<p align="center">UMTS Forum</p> <p>Dr Bernd Eylert Signature  Date 24 Feb 1999</p>

Executed in 7 originals

Annex 3 This Agreement is entered into by the following Market Representation Partner:

GSM Association

Name: Mr Michael Stocks

Title: Chairman

Address: GSM Association
Avoca Court
Temple Road
Blackrock
Co Dublin
Ireland

Signature

Date 27 May 1999

Authorised by the existing Partners

<p align="center">ARIB</p> <p>Mr Hiroshi Furukawa</p> <p>Signature <i>Hiroshi Furukawa</i></p> <p>Date <i>27 May</i> 1999</p>	<p align="center">ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date <i>27 May</i> 1999</p>
<p align="center">T1</p> <p>Dr Asok Chatterjee</p> <p>Signature <i>Asok Chatterjee</i></p> <p>Date <i>27 May</i>, 1999</p>	<p align="center">TTA</p> <p>Dr Kyu-Jin Wee</p> <p>Signature <i>Kyu-Jin Wee</i></p> <p>Date <i>27 May</i> 1999</p>
<p align="center">TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature <i>Nob Horisaki</i></p> <p>Date <i>27 May</i> 1999</p>	<p align="center">UMTS Forum</p> <p>Dr Bernd Eylert</p> <p>Signature <i>B. Eylert</i></p> <p>Date <i>27 May</i> 1999</p>
<p align="center">GSA</p> <p>Mr Alan Hadden</p> <p>Signature <i>Alan Hadden</i></p> <p>Date <i>27th May</i> 1999</p>	

Executed in 8 originals

Annex 4 This Agreement is entered into by the following Organizational Partner:

China Wireless Telecommunication Standard Group (CWTS)

Name: Ms Shumin Cao

Title: Chairperson

Address: China Wireless Telecommunication Standard Group (CWTS)
Research Institute of Telecommunication Transmission, MII
No. 11 Yue Tan Nan Jie
Beijing, 100-045
People's Republic of China

Signature

Date 27 May 1999

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Hiroshi Furukawa</p> <p>Signature <i>Hiroshi Furukawa</i></p> <p>Date <i>27 May</i> 1999</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date <i>27 May</i> 1999</p>
<p>TTT</p> <p>Dr Asok Chatterjee</p> <p>Signature <i>Asok Chatterjee</i></p> <p>Date <i>27 May</i> 1999</p>	<p>TTA</p> <p>Dr Kyu-Jin Wee</p> <p>Signature <i>Kyu-Jin Wee</i></p> <p>Date <i>27 May</i> 1999</p>
<p>TTC</p> <p>Mr Nobuhiro Horiuchi</p> <p>Signature <i>Nobuhiro Horiuchi</i></p> <p>Date <i>27 May</i> 1999</p>	<p>UMTS Forum</p> <p>Dr Bernd Eylert</p> <p>Signature <i>B. Eylert</i></p> <p>Date <i>27 May</i> 1999</p>
<p>CSA</p> <p>Mr Alan Hadden</p> <p>Signature <i>Alan Hadden</i></p> <p>Date <i>27th May</i> 1999</p>	<p>GSM Association</p> <p>Mr Michael Stocks</p> <p>Signature <i>Michael Stocks</i></p> <p>Date 1999</p>

Executed in 9 originals

Annex 5 This Agreement is entered into by the following Market Representation Partner:

Universal Wireless Communications Consortium (UWCC)

Name: Mr Leo Nikkari
 Title: Vice President, Strategy and Industry Relations
 Address: 1800 112th Avenue NE, Suite 260E
 Bellvue
 Washington
 USA 98004-2937
 Signature: *Leo Nikkari*
 Date: 20 September 1999

Authorised by the existing Partners

<p>ARM</p> <p>Mr Hiroshi Furukawa Signature: <i>Hiroshi Furukawa</i> Date: <i>20 Sept.</i> 1999</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock Signature: <i>Karl Heinz Rosenbrock</i> Date: <i>20 Sept.</i> 1999</p>
<p>T1</p> <p>Dr Asok Chatterjee Signature: <i>Asok Chatterjee</i> Date: <i>20 September</i>, 1999</p>	<p>TTA</p> <p>Dr Kyu-Jin Wee Signature: <i>Kyu-Jin Wee</i> Date: <i>20. Sep.</i> 1999</p>
<p>TTC</p> <p>Mr Nobuhiro Horiuchi Signature: <i>Nob Horiuchi</i> Date: <i>20 Sep</i> 1999</p>	<p>UMTS Forum</p> <p>Dr Bernd Eylert Signature: <i>B. Eylert</i> Date: <i>21 October</i> 1999</p>
<p>GSA</p> <p>Mr Alan Hadden Signature: <i>Alan Hadden</i> Date: <i>20 October</i> 1999</p>	<p>GSM Association</p> <p>Mr Michael Stocks Signature: <i>Michael Stocks</i> Date: <i>20 Oct</i> 1999</p>
<p>CWTS</p> <p>Ms Shumin Cao Signature: <i>Shumin Cao</i> Date: <i>11月3日</i> 1999</p>	

Executed in 10 originals

Annex 6 This Agreement is entered into by the following Market Representation Partner:

IPv6 Forum

Name: Mr Latif Ladid
 Title: President, IPv6 Forum
 Address: Ericsson Telebit A/S
 31, Domaine de Brameschhof
 L-82990 Kehlen
 Luxembourg

Signature

Date 18 January 2000

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Hiroshi Furukawa</p> <p>Signature <i>Ab. Sasaki for Mr. Furukawa</i></p> <p>Date <i>Jan. 18, 2000</i></p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date <i>18 Jan. 2000</i></p>
<p>T1</p> <p>Dr Asok Chatterjee</p> <p>Signature <i>Asok Chatterjee</i></p> <p>Date <i>1/18/2000</i></p>	<p>TTA</p> <p>Dr Kyu-Jin Wee</p> <p>Signature <i>Kyu-Jin Wee</i></p> <p>Date <i>1/18/2000</i></p>
<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature <i>Nobuhiro Horisaki</i></p> <p>Date <i>18 Jan. 2000</i></p>	<p>UMTS Forum</p> <p>Dr Bernd Eylert</p> <p>Signature <i>B. Eylert</i></p> <p>Date <i>18 January 2000</i></p>
<p>GSA</p> <p>Mr Alan Hadden</p> <p>Signature <i>Alan Hadden</i></p> <p>Date <i>18/1/00</i></p>	<p>GSM Association</p> <p>Mr Michael Stocks</p> <p>Signature <i>Michael Stocks</i></p> <p>Date <i>3/2/2000</i></p>
<p>CWTS</p> <p>Ms Shumin Cao</p> <p>Signature <i>曹淑敏</i></p> <p>Date <i>2000.1.18</i></p>	<p>UWCC</p> <p>Mr Leo Nikkari</p> <p>Signature <i>Leo Nikkari</i></p> <p>Date <i>1/18/2000</i></p>

Executed in 11 originals

Annex 7 **Modification to the Scope and Purpose of 3GPP:**

This Annex modifies the Scope and Purpose of 3GPP. Modified clauses have been reproduced in full with the additional text provided in italic, underlined font.

Page 1

CONSIDERING THAT:

- The Partners have agreed to co-operate in the production of globally applicable Technical Specifications and Technical Reports for a 3rd Generation Mobile System based on evolved GSM core networks and the radio access technologies that they support (i.e., Universal Terrestrial Radio Access (UTRA) both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes).
- The Partners have further agreed to co-operate in the maintenance and development of the Global System for Mobile communication (GSM) Technical Specifications and Technical Reports including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).
- 3GPP is established for the preparation, approval, and maintenance of the above mentioned Technical Specifications and Technical Reports.
- 3GPP is not to be construed as a legal entity.

Page 2

2.1 Purpose of 3GPP

The purpose of 3GPP is to prepare, approve and maintain globally applicable Technical Specifications and Technical Reports for:

- a 3rd Generation Mobile System based on the evolved GSM core networks, and the radio access technologies supported by the Partners (i.e., UTRA both FDD and TDD modes), to be transposed by the Organizational Partners into appropriate deliverables (e.g., standards).
- the Global System for Mobile communication (GSM) including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).

2.3 Scope and objectives of 3GPP.

Initially, 3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for the first phase of a 3rd Generation Mobile System including:

- UTRAN (including UTRA; ~~W~~-CDMA in Frequency Division Duplex (FDD) mode and ~~TD~~-CDMA in Time Division Duplex (TDD) modes);
- 3GPP Core Network (Third Generation networking capabilities evolved from GSM. These capabilities include mobility management, and global roaming, and utilisation of relevant Internet Protocols);
- Terminals for access to the above (including specifications for a UIM); and
- System and service aspects.

3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for:

- the Global System for Mobile communication (GSM) including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).

3GPP shall consider the long term evolution.



Cao. A. C. Hob



H. J. L.



The Technical Specifications and Technical Reports shall be developed in view of global roaming and circulation of terminals.

The set of 3GPP Technical Specifications and Technical Reports for the first phase of the 3GPP core network and the specifications for the GSM core network should be common to the greatest extent possible and should not be unnecessarily different.

The results of the 3GPP work shall form the basis of member contributions to the ITU in accordance with existing procedures.

3GPP shall take account of emerging ITU recommendations on interworking between IMT-2000 family members.

In the framework of agreed relationships, the 3GPP Technical Specifications and Technical Reports will form the basis of standards, or parts of standards, of the Organizational Partners.

Authorised by the Partners

ARIB Mr Hiroshi Furukawa Signature <i>Hiroshi Furukawa</i> Date <i>28 July 2000</i>	ETSI Mr Karl Heinz Rosenbrock Signature <i>Karl Heinz Rosenbrock</i> Date <i>13 July 2000</i>
T1 Dr Asok Chatterjee Signature <i>Asok Chatterjee</i> Date <i>7/19/2000</i>	TTA Mr Dong Sun Lee Signature <i>Dong Sun Lee</i> Date <i>01/26/2000</i>
TTC Mr Nobuhiro Horisaki Signature <i>Nobu Horisaki</i> Date <i>19 Jul 2000</i>	UMTS Forum Dr Bernd Eylert Signature <i>B. Eylert</i> Date <i>15 Aug 2000</i>
GSA Mr Alan Hadden Signature <i>Alan Hadden</i> Date <i>14 Aug 2000</i>	GSM Association Mr James Healy Signature <i>James Healy</i> Date <i>14 Jul 00</i>
CWTS Ms Shumin Cao Signature <i>Shumin Cao</i> Date <i>2000.7.11</i>	UWCC Mr Leo Nikkari Signature <i>Leo Nikkari</i> Date <i>July 12, 2000</i>
IPv6 Forum Mr Latif Ladid Signature <i>Latif Ladid</i> Date <i>4/8/2000</i>	

Executed in 11 originals

Annex 8

This Agreement is entered into by the following Market Representation Partner:

Mobile Wireless Internet Forum (MWIF)

Name: Mr Dean Sirovica

Title: President and Chairman

Address: 39355 California Street, Suite 305
Fremont, CA 94541
USA

Signature

Date

Authorised by the existing Partners

ARIB Mr Hiroshi Furukawa Signature Date	ETSI Mr Karl Heinz Rosenbrock Signature Date
TTA Dr Asok Chatterjee Signature Date	TTA Dr Kyu-Jin Wee Signature Date
TTC Mr Nobuhiro Horisaki Signature Date	UMTS Forum Dr Bernd Eylert Signature Date
GSA Mr Alan Hadden Signature Date	GSM Association Mr Michael Stocks Signature Date
CWIS Ms Shumin Cao Signature Date	UWCC Mr Leo Nikkari Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	

Executed in 12 originals

Annex 9 This Agreement is entered into by the following Market Representation Partner:

3G.IP Focus Group (3G.IP)

Name: Mr Brian K Daly

Title: Chair, Management Steering Committee

Address: AT&T Wireless Services
PO Box 97061
Redmond, WA 98-73-9761
USA

Signature

Brian K Daly

Date

15 Nov 2000

Authorised by the existing Partners

ARIB

Mr Hiroshi Furukawa

Signature

For Hiroshi Furukawa

Date

Nov. 15/2000

ETSI

Mr Karl Heinz Rosenbrock

Signature

Karl Heinz Rosenbrock

Date

15 Nov. 2000

T1

Dr Asok Chatterjee

Signature

Asok Chatterjee

Date

15/11/2000

TTA

Dr Kyu-Jin Wee

Signature

Kyu-Jin Wee

Date

15 Nov 2000

TTC

Mr Nobuniro Horisaki

Signature

Nobuniro Horisaki

Date

15 Nov 2000

UMTS Forum

Dr Bernd Eylert

Signature

B. Eylert

Date

15th November 2000

GSA

Mr Alan Harder

Signature

Alan Harder

Date

15 Nov 2000

GSM Association

Mr Michael Stocks

Signature

BEST

Michael Stocks 2/10/03

Date

CWTS

Ms Shumin Cao

Signature

Shumin Cao

Date

15 Nov. 2000

UWCC

Mr Leo Nikkari

Signature

Leo Nikkari

Date

15 Nov 2000

IPv6 Forum

Mr Latif Ladid

Signature

Latif Ladid

Date

15 Nov 00

MWIF

Mr Dean Sirovica

Signature

D. Sirovica

Date

15 NOV 00

Executed in 13 originals

Annex 10 This Agreement is entered into by the following Market Representation Partner:

3G Americas, LLC

Name: Mr Chris Pearson



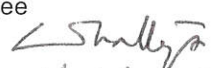
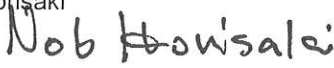


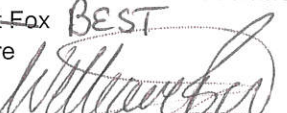

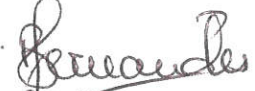
Title: Executive Vice President

Address: 1756 114th Ave SE, Suite 100
Bellevue, WA 98004
USA

Signature 

Date 26 April 2002

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Masayoshi Wakao</p> <p>Signature  p.o.</p> <p>Date 26/04/02</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature </p> <p>Date 26 April 2002</p>
<p>T1</p> <p>Dr Asok Chatterjee</p> <p>Signature </p> <p>Date 4/26/2002</p>	<p>TTA</p> <p>Dr Ju Hwan Yim</p> <p>Signature Park Jeong Sik</p> <p>Date 26 April 2002</p>
<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature  Nob Horisaki</p> <p>Date 26 Apr 2002</p>	<p>UMTS Forum</p> <p>Dr Bernd Eylert</p> <p>Signature </p> <p>Date 26/4/02</p>
<p>GSA</p> <p>Mr Alan Hadden</p> <p>Signature  Alan Hadden</p> <p>Date April 26, 2002</p>	<p>GSM Association</p> <p>Mr Scott Fox</p> <p>Signature  BEST</p> <p>Date 2/10/03</p>
<p>CWTS</p> <p>Ms Shumin Cao</p> <p>Signature </p> <p>Date 26/4/02</p>	<p>IPv6 Forum</p> <p>Mr Latif Ladid</p> <p>Signature  p.o.</p> <p>Date Oct. 2, 2003</p>
<p>MWIF</p> <p>Mr Dean Sirovica</p> <p>Signature</p> <p>Date</p>	<p>3G.IP</p> <p>Mr Brian Daly</p> <p>Signature</p> <p>Date</p>

Executed in 13 originals

Annex 11 This Agreement is entered into by the following Organizational Partner:

China Communications Standards Association, CCSA

Name: Mr Zhou Baoxin

Title: General Secretary of China Communications Standards Association (CCSA)

Address: 52# Hua Yuan Bei Road
Haidian District
Beijing
P.R.China 100083

Signature *Wangzhiguo*

Date 15 April 2004

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Masayoshi Wakao</p> <p>Signature <i>Masayoshi Wakao p.p</i></p> <p>Date <i>15 April 2004</i></p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date <i>15 April 2004</i></p>
<p>T1</p> <p>Dr Asok Chatterjee</p> <p>Signature <i>Asok Chatterjee</i></p> <p>Date <i>4/15/2004</i></p>	<p>TTA</p> <p>Dr Ju Hwan Yim</p> <p>Signature <i>PP Hong Won hui</i></p> <p>Date <i>15 APR 2004</i></p>
<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature <i>Nob Horisaki</i></p> <p>Date <i>15 / APR / 2004</i></p>	<p>UMTS Forum</p> <p>Mr Jean-Pierre Bienaimé</p> <p>Signature <i>Jean-Pierre Bienaimé</i></p> <p>Date <i>15/04/2004</i></p>
<p>GSA</p> <p>Mr Alan Hadden</p> <p>Signature <i>Alan Hadden</i></p> <p>Date <i>15 April 2004</i></p>	<p>GSM Association</p> <p>Mr Bill Best</p> <p>Signature <i>Bill Best</i></p> <p>Date <i>15/04/04</i></p>
<p>IPv6 Forum</p> <p>Mr Latif Ladid</p> <p>Signature <i>Latif Ladid</i></p> <p>Date</p>	

Executed in 10 originals

Annex 12 This Agreement is entered into by the following Organizational Partner:

**Alliance for Telecommunications Industry Solutions, ATIS
(Replacing Committee T1)**

Name: Mrs Susan Miller

Title: President and CEO of the Alliance for Telecommunications Industry Solutions

Address: 1200 G Street NW
Suite 500
Washington, DC, 20005
USA

Signature

Susan M. Miller

Date 15 April 2004

Authorised by the existing Partners

<p>ARIB Mr Masayoshi Wakao Signature <i>Masayoshi Wakao p.p.</i> Date <i>15 April 2004</i></p>	<p>CCSA Mr Zhou Baoxin Signature <i>Wangshiqin</i> Date <i>15/04/2004</i></p>
<p>ETSI Mr Karl Heinz Rosenbrock Signature <i>Karl Heinz Rosenbrock</i> Date <i>15 April 2004</i></p>	<p>TTA Dr Ju Hwan Yim Signature <i>PP Hong Wen Kue</i> Date <i>15 APR 2004</i></p>
<p>TTC Mr Nobuhiro Horisaki Signature <i>Nob Horisaki</i> Date <i>15 / APR / 2004</i></p>	<p>UMTS Forum Mr Jean-Pierre Bienaimé Signature <i>Jean-Pierre Bienaimé</i> Date <i>15/04/2004</i></p>
<p>GSA Mr Alan Hadden Signature <i>A Hadden</i> Date <i>15 April 2004</i></p>	<p>GSM Association Mr Bill Best Signature <i>William Best</i> Date <i>15/04/04</i></p>
<p>IPv6 Forum Mr Latif Ladid Signature <i>Latif Ladid</i> Date</p>	

Executed in 10 originals

Annex 13 This Agreement is entered into by the following Market Representation Partner:

TD SCDMA FORUM

Name: Dr. Jing Wang

Title: Secretary General

Address: TD SCDMA Forum
Add, Room 1021, Office Tower,
Beijing Capital Times Square,
No.88 West Chang'an Avenue,
Beijing, PRC. 100031

Signature

Date 7 October 2005

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Masayoshi Wakao</p> <p>Signature <i>Kohji Satoh (for Mr. M. Wakao)</i></p> <p>Date 07/10/2005</p>	<p>ATIS</p> <p>Mrs Susan Miller</p> <p>Signature <i>Shallyn (for Susan Miller)</i></p> <p>Date 10/07/2005</p>
<p>CCSA</p> <p>Mr Zhou Baoxin</p> <p>Signature <i>Wang zhiguo</i></p> <p>Date 07/10/2005</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date 07 Oct. 2005</p>
<p>TTA</p> <p>Dr Hong Koo Kim</p> <p>Signature <i>Jeong Sik Park</i></p> <p>Date 07/10/2005</p>	<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature <i>Nob Horisaki</i></p> <p>Date 7/10/2005</p>
<p>GSA</p> <p>Mr Alan Hadden</p> <p>Signature <i>Alan Hadden</i></p> <p>Date 7th October 2005</p>	<p>GSM Association</p> <p>Mr David McDonald</p> <p>Signature <i>David McDonald</i></p> <p>Date 7/10/2005</p>
<p>IPv6 Forum</p> <p>Mr Latif Ladid</p> <p>Signature <i>Latif Ladid</i></p> <p>Date</p>	<p>3G Americas</p> <p>Mr Chris Pearson</p> <p>Signature <i>Chris Pearson</i></p> <p>Date 10/10/05</p>
<p>UMTS Forum</p> <p>Mr Jean-Pierre Bienaimé</p> <p>Signature <i>Jean-Pierre Bienaimé</i></p> <p>Date 7/10/2005</p>	

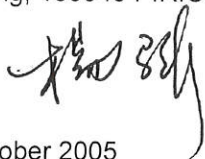
Executed in 12 originals

Annex 14 This Agreement is entered into by the following Market Representation Partner:

TD SCDMA Industry Alliance

Name: Mr. Yang Hua
 Title: Secretary General
 Address: TDIA
 611 Canway Building,
 66 Nan Li Shi Road,
 Beijing, 100045 P.R.China

Signature



Date 7 October 2005

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Masayoshi Wakao</p> <p>Signature <i>Kohji Satoh (for Mr. M. Wakao)</i></p> <p>Date 07/10/2005</p>	<p>ATIS</p> <p>Mrs Susan Miller</p> <p>Signature <i>[Signature]</i> (for Susan Miller)</p> <p>Date 10/07/2005</p>
<p>CCSA</p> <p>Mr Zhou Baoxin</p> <p>Signature <i>Wangzhiguo</i></p> <p>Date 07/10/2005</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date 07 Oct. 2005</p>
<p>TTA</p> <p>Dr Hong Koo Kim</p> <p>Signature <i>Jeong Sik Park</i></p> <p>Date 07/10/2005</p>	<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature <i>Nob Horisaki</i></p> <p>Date 7/10/2005</p>
<p>GSA</p> <p>Mr Alan Hadden</p> <p>Signature <i>AHadden</i></p> <p>Date 7th October 2005</p>	<p>GSM Association</p> <p>Mr David McDonald</p> <p>Signature <i>David McDonald</i></p> <p>Date 7/10/2005</p>
<p>IPv6 Forum</p> <p>Mr Latif Ladid</p> <p>Signature <i>[Signature]</i></p> <p>Date</p>	<p>3G Americas</p> <p>Mr Chris Pearson</p> <p>Signature <i>Chris Pearson</i></p> <p>Date 10-7-05</p>
<p>UMTS Forum</p> <p>Mr Jean-Pierre Bienaimé</p> <p>Signature <i>[Signature]</i></p> <p>Date 7/10/2005</p>	<p>TD SCDMA Forum</p> <p>Dr Jing Wang</p> <p>Signature <i>[Signature]</i></p> <p>Date 10/7/05</p>

Executed in 13 originals

Annex 15 This Agreement is entered into by the following Market Representation Partner:

MobileIGNITE MoU

Name: Mr. Leo Nikkari
Title: Executive Director

Address: PO Box 81236
Chicago,
Illinois,
USA, 60681-1236

Signature *Leo Nikkari*

Date 21 April 2006

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Masayoshi Wakao Signature <i>Masayoshi Wakao</i></p> <p>Date <i>21.04.2006</i></p>	<p>ATIS</p> <p>Mrs Susan Miller Signature <i>Susan Miller</i></p> <p>Date <i>4/21/2006</i></p>
<p>CCSA</p> <p>Mr Zhou Baoxin Signature <i>Wang Baoxin</i></p> <p>Date <i>21.04.2006</i></p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock Signature <i>Karl Heinz Rosenbrock</i></p> <p>Date <i>21 April 2006</i></p>
<p>TTA</p> <p>Dr Hong Koo Kim Signature <i>J.S. Park</i></p> <p>Date <i>4/21/2006</i></p>	<p>TTC</p> <p>Mr Nobuhiro Horisaki Signature <i>Nob Horisaki</i></p> <p>Date <i>4/21/2006</i></p>
<p>GSA</p> <p>Mr Alan Hadden Signature <i>Alan Hadden</i></p> <p>Date <i>21/4/06</i></p>	<p>GSM Association</p> <p>Mr David McDonald Signature <i>David McDonald</i></p> <p>Date <i>21/4/06</i></p>
<p>IPv6 Forum</p> <p>Mr Latif Ladid Signature <i>Latif Ladid</i></p> <p>Date <i>21/4/06</i></p>	<p>3G Americas</p> <p>Mr Chris Pearson Signature <i>Chris Pearson</i></p> <p>Date <i>4/21/2006</i></p>
<p>UMTS Forum</p> <p>Mr Jean-Pierre Bienaimé Signature <i>Jean-Pierre Bienaimé</i></p> <p>Date <i>4/04.2006</i></p>	<p>TD SCDMA Forum</p> <p>Dr Jing Wang Signature <i>Jing Wang</i></p> <p>Date <i>2006 4月21日</i></p>
<p>TD-SCDMA Industry Alliance</p> <p>Mr Yang Hua Signature <i>Yang Hua</i></p> <p>Date <i>2006 4月21日</i></p>	

Executed in 14 originals

Annex 16 This Agreement is entered into by the following Market Representation Partner:

Global UMTS TDD Alliance

Name: Mrs. Liz Kerton
Title: Executive Director

Address: c/o The Kerton Group
8032 Canyon Creek Circle
Pleasanton, CA 94588
USA

Signature

Date 12 October 2006

Authorised by the existing Partners

<p>ARIB</p> <p>Mr Masayoshi Wakao</p> <p>Signature</p> <p>Date</p>	<p>ATIS</p> <p>Mrs Susan Miller</p> <p>Signature</p> <p>Date</p>
<p>CCSA</p> <p>Mr Zhou Baoxin</p> <p>Signature</p> <p>Date</p>	<p>ETSI</p> <p>Mr Karl Heinz Rosenbrock</p> <p>Signature</p> <p>Date</p>
<p>TTA</p> <p>Dr Hong Koo Kim</p> <p>Signature</p> <p>Date</p>	<p>TTC</p> <p>Mr Nobuhiro Horisaki</p> <p>Signature</p> <p>Date</p>
<p>GSA</p> <p>Mr Alan Hadden</p> <p>Signature</p> <p>Date</p>	<p>GSM Association</p> <p>Mr David McDonald</p> <p>Signature</p> <p>Date</p>
<p>IPv6 Forum</p> <p>Mr Latif Ladid</p> <p>Signature</p> <p>Date</p>	<p>3G Americas</p> <p>Mr Chris Pearson</p> <p>Signature</p> <p>Date</p>
<p>UMTS Forum</p> <p>Mr Jean-Pierre Bienaimé</p> <p>Signature</p> <p>Date</p>	<p>TD SCDMA Forum</p> <p>Dr Jing Wang</p> <p>Signature</p> <p>Date</p>
<p>TD-SCDMA Industry Alliance</p> <p>Mr Yang Hua</p> <p>Signature</p> <p>Date</p>	<p>MobileIGNITE MoU</p> <p>Mr Leo Nikkari</p> <p>Signature</p> <p>Date</p>

Executed in 15 originals

Annex 17 This Agreement is entered into by the following Market Representation Partner:

IMS Forum

Name: Mrs. Marian Stasney
Title: Executive Director

Address: 39355 California Street, Suite 307
Fremont, CA 94538
USA

Signature

Date 12 October 2006

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature Date	ATIS Mrs Susan Miller Signature Date
CCSA Mr Zhou Baoxin Signature Date	ETSI Mr Karl Heinz Rosenbrock Signature Date
TTA Dr Hong Koo Kim Signature Date	TTC Mr Nobuhiro Horisaki Signature Date
GSA Mr Alan Hadden Signature Date	GSM Association Mr David McDonald Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	3G Americas Mr Chris Pearson Signature Date
UMTS Forum Mr Jean-Pierre Bienaimé Signature Date	TD SCDMA Forum Dr Jing Wang Signature Date
TD-SCDMA Industry Alliance Mr Yang Hua Signature Date	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	

Executed in 16 originals

Annex 18 Modification to the Scope and Purpose of 3GPP:

This Annex modifies the Scope and Purpose of 3GPP. Modified clauses have been reproduced in full with the additional text provided in italic, underlined font.

Page 1

CONSIDERING THAT:

- The Partners have agreed to co-operate in the production of globally applicable Technical Specifications and Technical Reports for a 3rd Generation Mobile System based on evolved GSM core networks and the radio access technologies that they support (i.e., Universal Terrestrial Radio Access (UTRA) both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes).
- The Partners have further agreed to co-operate in the maintenance and development of the Global System for Mobile communication (GSM) Technical Specifications and Technical Reports including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).
- The Partners have agreed that the further evolution of IMS should be done in an access independent manner.
- 3GPP is established for the preparation, approval, and maintenance of the above mentioned Technical Specifications and Technical Reports.
- 3GPP is not to be construed as a legal entity.

Page 2

2.1 Purpose of 3GPP

The purpose of 3GPP is to prepare, approve and maintain globally applicable Technical Specifications and Technical Reports for:

- a 3rd Generation Mobile System based on the evolved GSM core networks, and the radio access technologies supported by the Partners (i.e., UTRA both FDD and TDD modes), to be transposed by the Organizational Partners into appropriate deliverables (e.g., standards).
- the Global System for Mobile communication (GSM) including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).
- an evolved IMS developed in an access independent manner.

Page 3

2.3 Scope and objectives of 3GPP.

3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for a 3rd Generation Mobile System including:

- UTRAN (including UTRA; in Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes);
- 3GPP Core Network (Third Generation networking capabilities evolved from GSM. These capabilities include mobility management, global roaming, and utilisation of relevant Internet Protocols);
- Terminals for access to the above (including specifications for a UIM); and
- An evolved IMS developed in an access independent manner; and
- System and service aspects.

3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for:

- the Global System for Mobile communication (GSM) including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).

3GPP shall consider the long term evolution.

The Technical Specifications and Technical Reports shall be developed in view of global roaming and circulation of terminals.

The set of 3GPP Technical Specifications and Technical Reports for the 3GPP core network and the specifications for the GSM core network should be common to the greatest extent possible and should not be unnecessarily different.

The results of the 3GPP work shall form the basis of member contributions to the ITU in accordance with existing procedures.

3GPP shall take account of emerging ITU recommendations on interworking between IMT-2000 family members.

In the framework of agreed relationships, the 3GPP Technical Specifications and Technical Reports will form the basis of standards, or parts of standards, of the Organizational Partners.

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature  Date	ATIS Mrs Susan Miller Signature  Date
CCSA Mr Zhou Baoxin Signature  Date	ETSI Dr Walter Weigel Signature  Date
TTA Mr Won-Sik Kim Signature  Date	TTC Dr Yuji Inoue Signature  Date
GSA Mr Alan Hadden Signature  Date	GSM Association Mr David McDonald Signature  Date
IPv6 Forum Mr Latif Ladid Signature  Date	3G Americas Mr Chris Pearson Signature  Date
UMTS Forum Mr Jean-Pierre Bienaimé Signature  Date	TD SCDMA Forum Dr Jing Wang Signature  Date
TD-SCDMA Industry Alliance Mr Yang Hua Signature  Date	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	IMS Forum Mrs Marian Stasney Signature Date

Executed in 16 originals

Annex 19 Modification to the Scope and Purpose of 3GPP:

This Annex modifies the Scope and Purpose of 3GPP. Modified clauses have been reproduced with the additional text provided in italic, underlined font.

Page 1

Officially recognized Standardization Organizations have agreed to work collaboratively for the production of *evolved* Third Generation *and beyond* Mobile System specifications¹. The means for this collaborative activity has been provided in the form of a Partnership Project. The Partners in the Partnership Project are signatories to this Third Generation Partnership Project Agreement, hereinafter referred to as the Agreement.

CONSIDERING THAT:

- The Partners have agreed to co-operate in the production of globally applicable Technical Specifications and Technical Reports for *an evolved* 3rd Generation *and beyond* Mobile System based on evolved GSM3GPP core networks and the radio access technologies that they support (i.e., Universal Terrestrial Radio Access (UTRA) both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes).
- The Partners have further agreed to co-operate in the maintenance and development of the Global System for Mobile communication (GSM) Technical Specifications and Technical Reports including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).
- The Partners have agreed that the further evolution of IMS should be done in an access independent manner.
- 3GPP is established for the preparation, approval, and maintenance of the above mentioned Technical Specifications and Technical Reports.
- 3GPP is not to be construed as a legal entity.

¹ This includes all existing 3GPP system specifications

Page 2

2.1 Purpose of 3GPP

The purpose of 3GPP is to prepare, approve and maintain globally applicable Technical Specifications and Technical Reports for:

- *an evolved* 3rd Generation *and beyond* Mobile System based on the evolved GSM3GPP core networks, and the radio access technologies supported by the Partners (i.e., UTRA both FDD and TDD modes), to be transposed by the Organizational Partners into appropriate deliverables (e.g., standards).
- the Global System for Mobile communication (GSM) including GSM evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).
- an evolved IMS developed in an access independent manner.

2.3 Scope and objectives of 3GPP.

3GPP shall prepare, approve and maintain the necessary set of Technical Specifications and Technical Reports for an evolved 3rd Generation and beyond Mobile System including:

- Evolved UTRAN and beyond (including UTRA; in Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes);
- 3GPP Core Network and evolutions (Third Generation networking capabilities originally evolved from GSM. These capabilities include mobility management, global roaming, and utilisation of relevant Internet Protocols);
- Terminals for access to the above (including specifications for a UIM);
- An evolved IMS developed in an access independent manner; and
- System and service aspects.

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature <i>Kohji Satoh</i> Date <i>18.12.2007</i>	ATIS Mrs Susan Miller Signature <i>Shelly for</i> Date <i>18/12/2007</i>
CCSA Mr Zhou Baoxin Signature <i>Wangzhiguo</i> Date	ETSI Dr Walter Weigel Signature <i>W. Weigel</i> Date <i>18/12/07</i>
TTA Mr Won-Sik Kim Signature <i>J.S. Park</i> Date <i>18/12/2007</i>	TTC Dr Yuji Inoue Signature <i>喜安 祐</i> Date <i>18/12/2007</i>
GSA Mr Alan Hadden Signature <i>PP Jones Sundby</i> Date <i>18/12 2007</i>	GSM Association Mr David McDonald Signature <i>David McDonald</i> Date <i>18/12/07</i>
IPv6 Forum Mr Latif Ladid Signature Date	3G Americas Mr Chris Pearson Signature <i>Chris Pearson</i> Date <i>12-18-07</i>
UMTS Forum Mr Jean-Pierre Bienaimé Signature Date <i>18.12.07</i>	TD SCDMA Forum Dr Jing Wang Signature <i>Jing Wang</i> Date
TD-SCDMA Industry Alliance Mr Yang Hua Signature <i>Yang Hua</i> Date	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	IMS Forum Mrs Marian Stasney Signature Date

Executed in 16 originals

Annex 20 This Agreement is entered into by the following Market Representation Partner:

Infocommunication Union

Name: Mr. Andrey Skorodumov
Title: CEO

Address: 2-nd Spasonalivkovski per., 6,
Moscow 119991,
Russia

Signature

Date 18 December 2007

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature Date	ATIS Mrs Susan Miller Signature Date
CCSA Mr Zhou Baoxin Signature Date	ETSI Dr Walter Weigel Signature Date
TTA Mr Won-Sik Kim Signature Date	TTC Dr Yuji Inoue Signature Date
GSA Mr Alan Hadden Signature Date	GSM Association Mr David McDonald Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	3G Americas Mr Chris Pearson Signature Date
UMTS Forum Mr Jean-Pierre Bienaime Signature Date	TD SCDMA Forum Dr Jing Wang Signature Date
TD-SCDMA Industry Alliance Mr Yang Hua Signature Date	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	IMS Forum Mrs Marian Stasney Signature Date

Executed in 17 originals

IS NO LONGER IN
PARTNERSHIP STATUS
2016

Annex 21 This Agreement is entered into by the following Market Representation Partner:

FemtoForum

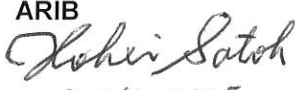
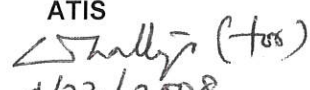
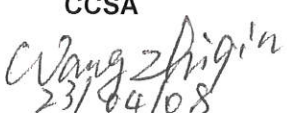
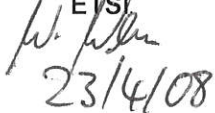
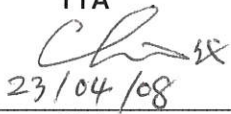
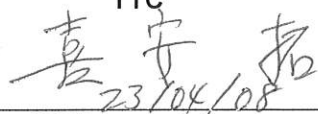
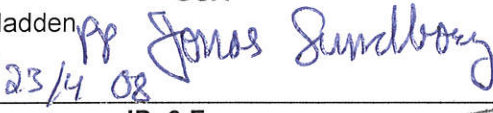
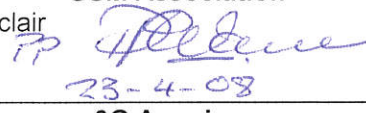

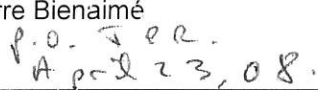
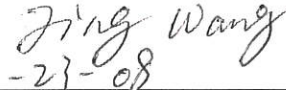
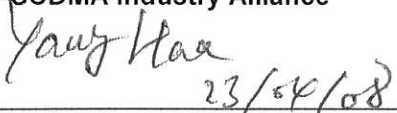
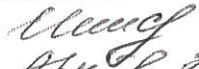
Name: Prof. Simon Saunders
Title: Chairman

Address: PO Box 23
GL11 5WA
United Kingdom

Signature 

Date 23 April 2008

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature  Date 23.04.2008	ATIS Mrs Susan Miller Signature  Date 4/23/2008
CCSA Mr Zhou Baoxin Signature  Date 23/04/08	ETSI Dr Walter Weigel Signature  Date 23/4/08
TTA Mr Won-Sik Kim Signature  Date 23/04/08	TTC Dr Yuji Inoue Signature  Date 23/04/08
GSA Mr Alan Hadden Signature  Date 23/4/08	GSM Association Mr Alex Sinclair Signature  Date 23-4-08
IPv6 Forum Mr Latif Ladid Signature Date	3G Americas Mr Chris Pearson Signature  Date 4-23-08
UMTS Forum Mr Jean-Pierre Bienaimé Signature  Date April 23, 08.	TD SCDMA Forum Dr Jing Wang Signature  Date 4-23-08
TD-SCDMA Industry Alliance Mr Yang Hua Signature  Date 23/04/08	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	IMS Forum Mrs Marian Stasney Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature  Date 23 April 2008	

Executed in 18 originals

Annex 22 This Agreement is entered into by the following Market Representation Partner:

Fixed-Mobile Convergence Alliance

Name: Mr Andrew Haworth
Title: Managing Director

Address: pp 3B CTE, Newcastle Central TEL EXCH
Carloli Square
Newcastle Upon Tyne
Tyne And Wear NE1 1BB, United Kingdom

Signature

[Signature]

Date 23 April 2008

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature <i>[Signature]</i> Date 23.04.08	ATIS Mrs Susan Miller Signature <i>[Signature]</i> Date 4/23/2008
CCSA Mr Zhou Baoxin Signature <i>[Signature]</i> Date 23/04/08	ETSI Dr Walter Weigel Signature <i>[Signature]</i> Date 23/4/08
TTA Mr Won-Sik Kim Signature <i>[Signature]</i> Date 23/04/08	TTC Dr Yuji Inoue Signature <i>[Signature]</i> Date 23/04/08
GSA Mr Alan Hadden Signature <i>[Signature]</i> Date 23/4/08	GSM Association Mr Alex Sinclair Signature <i>[Signature]</i> Date 23-4-08
IPv6 Forum Mr Latif Ladid Signature <i>[Signature]</i> Date	3G Americas Mr Chris Pearson Signature <i>[Signature]</i> Date 4-23-08
UMTS Forum Mr Jean-Pierre Bienaimé Signature <i>[Signature]</i> Date 23-04-08	TD SCDMA Forum Dr Jing Wang Signature <i>[Signature]</i> Date 4-23-08
TD-SCDMA Industry Alliance Mr Yang Hua Signature <i>[Signature]</i> Date 23/04/08	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	IMS Forum Mrs Marian Stasney Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature <i>[Signature]</i> Date 23 April 2008	FemtoForum Prof. Simon Saunders Signature <i>[Signature]</i> Date 23/4/08

Executed in 19 originals

Annex 23 This Agreement is entered into by the following Market Representation Partner:

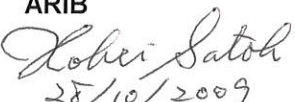

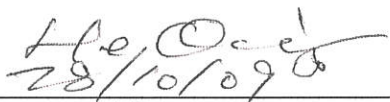

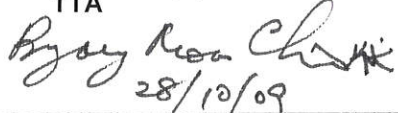
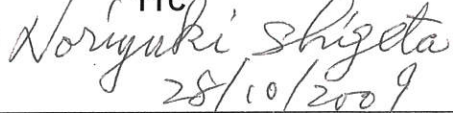
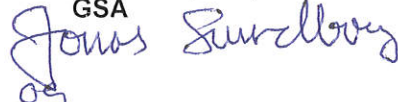
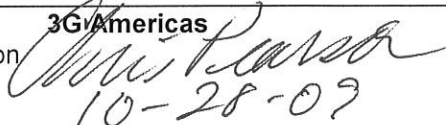
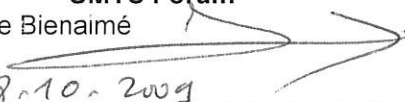
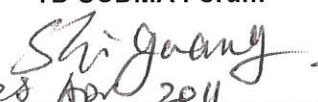
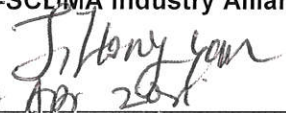

CDMA Development Group

Name: Mr Perry LaForge
 Title: Executive Director
 Address: 575 Anton Blvd., Ste. 560
 Costa Mesa, CA 92626
 USA

Signature 

Date 28 October 2009

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature  Date 28/10/2009	ATIS Mrs Susan Miller Signature  Date 10/28/2009
CCSA Mr Zhou Baoxin Signature  Date 28/10/09	ETSI Dr Walter Weigel Signature  Date 28/10/09
TTA Mr Won-Sik Kim Signature  Date 28/10/09	TTC Dr Yuji Inoue Signature  Date 28/10/2009
GSA Mr Alan Hadden Signature  Date 28.10.09	GSM Association Mr Alex Sinclair Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	3G Americas Mr Chris Pearson Signature  Date 10-28-09
UMTS Forum Mr Jean-Pierre Bienaimé Signature  Date 28.10.2009	TD SCDMA Forum Dr Jing Wang Signature  Date 28 Apr 2011
TD-SCDMA Industry Alliance Mr Yang Hua Signature  Date 28 Apr 2011	MobileIGNITE MoU Mr Leo Nikkari Signature Date
Global UMTS TDD Alliance Mrs Liz Kerton Signature Date	IMS Forum Mrs Marian Stasney Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature Date	FemtoForum Prof. Simon Saunders Signature  Date 10/28/09
Fixed-Mobile Convergence Alliance Mr Andrew Howarth Signature Date	

Executed in 20 originals

Annex 24 This Agreement is entered into by the following Market Representation Partner:

Cellular Operators Association of India (COAI)

Name: Mr T.R. Dua
 Title: Officiating Director General
 Address: 14 Bhai Veer Sing Marg
 New Delhi 110 001
 India

Signature

T.R. Dua

Date 28 October 2010

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature <i>Masayoshi Wakao</i> Date <i>28.10.2010</i>	ATIS Mrs Susan Miller Signature <i>Susan Miller</i> Date <i>for 10/28/2010</i>
CCSA Mr Zhou Baoxin Signature <i>Wang Zhiguo</i> Date <i>28.10.2010</i>	ETSI Dr Walter Weigel Signature <i>W. Weigel</i> Date <i>28/10/10</i>
TTA Mr Keun Hyeonb Lee Signature <i>Chun</i> Date <i>28/10/10</i>	TTC Dr Yuji Inoue Signature <i>Y. Inoue</i> Date <i>28/10/2010</i>
GSA Mr Alan Hadden Signature <i>Alan Hadden</i> Date <i>28.10.2010</i>	GSM Association Mr Alex Sinclair Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	4G Americas Mr Chris Pearson Signature <i>Chris Pearson</i> Date <i>10-28-10</i>
UMTS Forum Mr Jean-Pierre Bienaimé Signature <i>J. Bienaimé</i> Date <i>28.10.2010</i>	TD SCDMA Forum Dr Jing Wang Signature <i>Jing Wang</i> Date <i>10-28-10</i>
TD-SCDMA Industry Alliance Mr Yang Hua Signature <i>Yang Hua</i> Date <i>28/10/2010</i>	IMS Forum Mr Michael Khalilian Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature Date	FemtoForum Prof. Simon Saunders Signature <i>Simon Saunders</i> Date <i>10/28/10</i>

Executed in 17 originals

CDG
B. J. Saunders

Annex 25 This Agreement is entered into by the following Market Representation Partner:

Next Generation Mobile Network Alliance (NGMN)


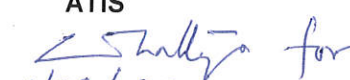



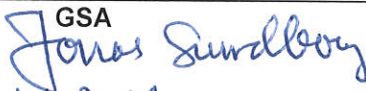
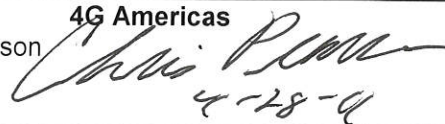
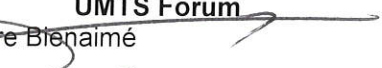

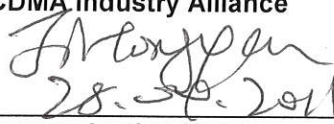


Name: Dr. Peter Meissner
 Title: Operating Officer, NGMN Ltd
 Address: Friedrich-Ebert-Anlage 58
 60325 Frankfurt
 Germany

Signature



Date 28 April 2011

Authorised by the existing Partners

ARIB Mr Masayoshi Wakao Signature  Date 28.04.2011	ATIS Mrs Susan Miller Signature  Date 4/28/2011
CCSA Mr Yang Zemin Signature  Date 28.04.2011	ETSI Dr Walter Weigel Signature Date
TTA Mr Keun Hyeonb Lee Signature  Date 28.04.2011	TTC Dr Yuji Inoue Signature  Date 28.04.2011
GSA Mr Alan Hadden Signature  Date 28.4.2011	GSM Association Mr Alex Sinclair Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	4G Americas Mr Chris Pearson Signature  Date 4-28-11
UMTS Forum Mr Jean-Pierre Bienaimé Signature  Date 28.04.2011	TD Forum Mr Shi Guang Signature  Date 28-04-2011
TD-SCDMA Industry Alliance Mr Yang Hua Signature  Date 28.04.2011	IMS Forum Mr Michael Khalilian Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature Date	FemtoForum Prof Simon Saunders Signature  Date 20/4/11
CDMA Development Group Mr Perry LaForge Signature  Date 4/28/2011	Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature Date

Executed in 19 originals

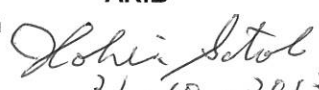
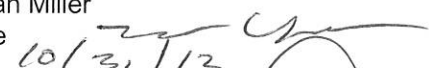


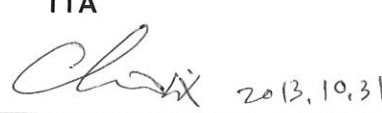
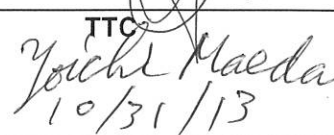

Annex 26 This Agreement is entered into by the following Market Representation Partner:

TETRA & Critical Communications Association (TCCA)

Name: Mr. Philip Kidner
 Title: CEO
 Address: 14 Blandford Square
 Newcastle Upon Tyne, NE1 4HZ
 United Kingdom

Signature  Date 31 October 2013

Authorised by the existing Partners

ARIB Dr Kohei Satoh Signature  Date 31.10.2013	ATIS Mrs Susan Miller Signature  Date 10/31/13
CCSA Mr Yang Zemin Signature  Date 31.10.2013	ETSI Mr Luis Jorge Romero Saro Signature  Date 31.10.2013
TTA Mr Chasik Leem Signature  Date 2013.10.31	TTC Mr Yoichi Maeda Signature  Date 10/31/13
GSA Mr Alan Hadden Signature Date	GSM Association Mr Alex Sinclair Signature Date
IPv6 Forum Mr Latif Ladid Signature Date	4G Americas Mr Chris Pearson Signature Date
UMTS Forum Mr Jean-Pierre Bienaimé Signature Date	TD Forum Mr Shi Guang Signature Date
TD-SCDMA Industry Alliance Mr Yang Hua Signature Date	IMS Forum Mr Michael Khalilian Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature Date	Small Cell Forum Mr Graham Wright Signature Date
CDMA Development Group Mr Perry LaForge Signature Date	Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature Date
Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature  Date 31.10.2013	

Executed in 20 originals

Annex 27 This Agreement is entered into by the following Organizational Partner:







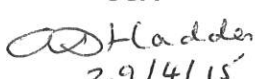
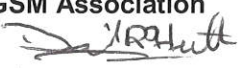
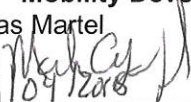

Telecommunications Standards Development Society, India (TSDSI)

Name: Dr. Asok Chatterjee
 Title: Director General
 Address: C-DoT Campus, Mandi Road, Mehrauli
 New Delhi-110030, India

Signature 

Date 29 April 2015

Authorised by the existing Partners

ARIB Dr Kohei Satoh Signature  Date 29.04.2015	ATIS Mrs Susan Miller Signature  Date 9/29/2015
CCSA Mr Yang Zemin Signature  Date 29.4.2015	ETSI Mr Luis Jorge Romero Saro Signature  Date 29.04.2015
TTA Dr Kyu-Jin Wee Signature  Date 29.04.2015	TTC Mr Yoichi Maeda Signature  Date 29 04 2015
GSA Mr Joe Barrett Signature  Date 29/4/15	GSM Association Mr Alex Sinclair Signature  Date 29/04/2015
IPv6 Forum Mr Latif Ladid Signature Date	4G Americas Mr Chris Pearson Signature Date
UMTS Forum Mr Jean-Pierre Bienaimé Signature Date	TD Forum Mr Shi Guang Signature Date
TD-SCDMA Industry Alliance Mr Yang Hua Signature Date	IMS Forum Mr Michael Khalilian Signature Date
Infocommunication Union Mr Andrey Skorodumov Signature Date	Small Cell Forum Mrs Sue Monahan Signature Date
Mobility Development Group Mr Douglas Martel Signature  Date 29/04/2015	Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature Date
Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature Date	TETRA & Critical Communications Association Mr. Philip Kidner Signature  Date 29/4/2015

Executed in 21 originals












Annex 28 This Agreement is entered into by the following Market Representation Partner:

Global Certification Forum (GCF) Ltd

Name: Mr Lars S Nielsen
 Title: General Manager
 Address: 20-22 Bedford Row, London WC1J 4JS
 United Kingdom

Signature  Date 29 April 2016

Authorised by the existing Partners

ARIB Dr Kohei Satoh Signature  Date 29/04/2016	ATIS Mrs Susan Miller Signature  Date April 29, 2016
CCSA Mr Yang Zemin Signature  Date 29/04/2016	ETSI Mr Luis Jorge Romero Saro Signature  Date 29.04.2016
TSDSI Prof Abhay Karandikar Signature  Date 29/04/2016	TTA Dr Kyu-Jin Wee Signature  Date 4/29/2016
TTC Mr Yoichi Maeda Signature  Date 29/04/2016	GSA Mr Joe Barrett Signature  Date 29-4-16
GSM Association Mr Alex Sinclair Signature  Date 29/4/2016	IPv6 Forum Mr Latif Ladid Signature Date
5G Americas Mr Chris Pearson Signature Date	UMTS Forum Mr Jean-Pierre Bienaime Signature  Date 29/04/2016
TD Forum Mr Shi Guang Signature Date	TD-SCDMA Industry Alliance Mr Yang Hua Signature Date
Small Cell Forum Mrs Sue Monahan Signature Date	Mobility Development Group Mr Douglas Martel Signature Date
Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature Date	Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature Date
TETRA & Critical Communications Association Mr. Philip Kidner Signature  Date 29/4/2016	

Executed in 20 originals




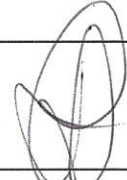





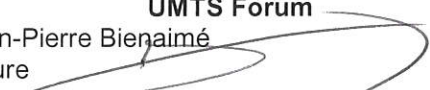

Annex 29 This Agreement is entered into by the following Market Representation Partner:

CTIA

Name: Mr Thomas Sawanobori
 Title: Senior Vice President and Chief Technology Officer
 Address: 1400 16th Street, N.W. Suite 600,
 Washington, DC 20036, USA

Signature  Date 29 April 2016

Authorised by the existing Partners

ARIB Dr Kohei Satoh Signature  Date	ATIS Mrs Susan Miller Signature  Date
CCSA Mr Yang Zemin Signature  Date	ETSI Mr Luis Jorge Romero Saro Signature  Date
TSDSI Prof Abhay Karandikar Signature  Date	TTA Keunka Lee Dr Kyu Jin Wee Signature  Date
TTC Shuichi Inada Mr Yoichi Maeda Signature  Date	GSA Mr Joe Barrett Signature  Date
GSM Association Mr Alex Sinclair Signature  Date	IPv6 Forum Mr Latif Ladid Signature Date
5G Americas Mr Chris Pearson Signature Date	UMTS Forum Mr Jean-Pierre Bienaimé Signature  Date
TD Forum Mr Shi Guang Signature Date	TD-SCDMA Industry Alliance Mr Yang Hua Signature  Date
Small Cell Forum Mrs Sue Monahan Signature Date	Mobility Development Group Mr Douglas Martel Signature Date
Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature Date	Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature Date
TETRA & Critical Communications Association Mr. Philip Kidner Signature Date	GCF Mr Lars S Nielsen Signature Date

Executed in 21 originals

Annex 30 This Agreement is entered into by the following Market Representation Partner:

Wireless Broadband Alliance (WBA)

Name: Mr Shrikant Shenwai
 Title: CEO
 Address: 8 Eu Tong Sen Street #14-94, The Central,
 Singapore 059818

Signature

Date 21 October 2016

Authorised by the existing Partners

ARIB Dr Kohei Satoh Signature	ATIS Ms Susan Miller Signature
CCSA Mr Yang Zemin Signature	ETSI Mr Luis Jorge Romero Saro Signature
TSDSI Prof Abhay Karandikar Signature	TTA Dr Keunku Lee Signature
TTC Mr Shuichi Inada Signature	GSA Mr Joe Barrett Signature
GSM Association Mr Alex Sinclair Signature	IPv6 Forum Mr Latif Ladid Signature
5G Americas Mr Chris Pearson Signature	UMTS Forum Mr Jean-Pierre Bienaimé Signature
TD Forum Mr Shi Guang Signature	TD-SCDMA Industry Alliance Mr Yang Hua Signature
Small Cell Forum Mrs Sue Monahan Signature	Mobility Development Group Mr Douglas Martel Signature
Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature	Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature
TETRA & Critical Communications Association Mr. Philip Kidner Signature	GCF Mr Lars S Nielsen Signature
CTIA Mr Thomas Sawanobori Signature	

Executed in 22 originals


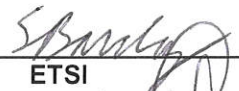
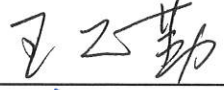




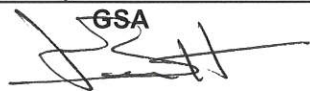


Annex 31 This Agreement is entered into by the following Market Representation Partner:

Public Safety Communication Europe (PSCE)

Name: Mrs Marie-Christine Bonnamour
 Title: Secretary General
 Address: Rue des 2 églises, 39,
 BE 1000 Brussels

Signature  Date 21 October 2016

Authorised by the existing Partners

Dr Kohei Satoh Signature	ARIB 	Ms Susan Miller Signature	ATIS 
Mr Yang Zemin Signature	CCSA 	Mr Luis Jorge Romero Saro Signature	ETSI 
Prof Abhay Karandikar Signature	TSDSI 	Dr Keunku Lee Signature	TTA 
Mr Shuichi Inada Signature	TTC 	Mr Joe Barrett Signature	GSA 
Mr Alex Sinclair Signature	GSM Association	Mr Latif Ladid Signature	IPv6 Forum
Mr Chris Pearson Signature	5G Americas	Mr Jean-Pierre Bienaimé Signature	UMTS Forum 
Mr Shi Guang Signature	TD Forum	Mr Yang Hua Signature	TD-SCDMA Industry Alliance
Mrs Sue Monahan Signature	Small Cell Forum	Mr Douglas Martel Signature	Mobility Development Group
Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature		Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature	
TETRA & Critical Communications Association Mr. Philip Kidner Signature		GCF Mr Lars S Nielsen Signature	
CTIA Mr Thomas Sawanobori Signature		WBA 	

Executed in 23 originals

Annex 32 This Agreement is entered into by the following Market Representation Partner:

5G Infrastructure Association (5G-IA)

Name: Mr Jean-Pierre Bienaimé
 Title: Secretary General
 Address: AA-TOWER, Technologiepark 19, 9052 Zwijnaarde,
 Belgium,

Signature

Date 21 October 2016

Authorised by the existing Partners

Dr Kohei Satoh Signature	ARIB Kato	Ms Susan Miller Signature	ATIS S. Barakat
Mr Yang Zemin Signature	CCSA 王 飞 鹏	Mr Luis Jorge Romero Saro Signature	ETSI [Signature]
Prof Abhay Karandikar Signature	TSDSI Abhay	Dr Keunku Lee Signature	TTA [Signature]
Mr Shuichi Inada Signature	TTC 稲田 修一	Mr Joe Barrett Signature	GSA [Signature]
Mr Alex Sinclair Signature	GSM Association	Mr Latif Ladid Signature	IPv6 Forum
Mr Chris Pearson Signature	5G Americas	Mr Jean-Pierre Bienaimé Signature	UMTS Forum
Mr Shi Guang Signature	TD Forum	Mr Yang Hua Signature	TD-SCDMA Industry Alliance
Mrs Sue Monahan Signature	Small Cell Forum	Mr Douglas Martel Signature	Mobility Development Group
Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature		Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature	
TETRA & Critical Communications Association Mr. Philip Kidner Signature		GCF Mr Lars S Nielsen Signature	
CTIA Mr Thomas Sawanobori Signature		WBA Mr Shrikant Shenwai Signature	

Executed in 24 originals

PSCE

[Signature]

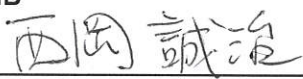
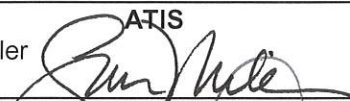


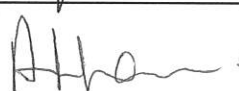
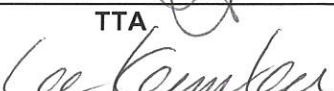
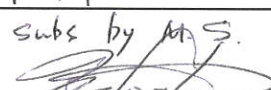
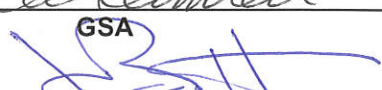
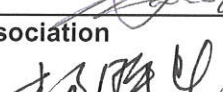

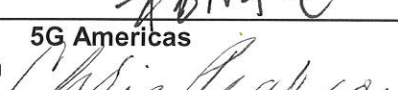


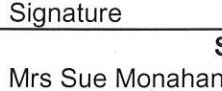
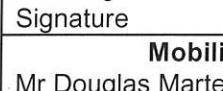
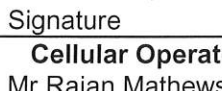
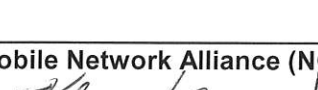

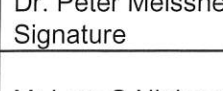
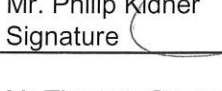
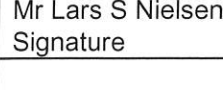
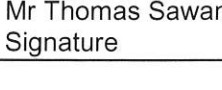

Annex 33 This Agreement is entered into by the following Market Representation Partner:

5G Automotive Association e.V. (5GAA)

Name: Mr Dino Flore
Title: Secretary General
Address: Neumarkter Str. 2, 81673 Munich
Germany

Signature  Date 26 April 2017

Authorised by the existing Partners

Mr Seiji Nishioka Signature 	ATIS Ms Susan Miller Signature 
Mr Yang Zemin Signature 	ETSI Mr Luis Jorge Romero Saro Signature 
Prof Abhay Karandikar Signature 	TTA Dr Keunku Lee Signature 
Mr Shuichi Inada Signature 	GSA Mr Joe Barrett Signature 
Mr Alex Sinclair Signature 	IPv6 Forum Mr Latif Ladid Signature 
Mr Chris Pearson Signature 	TD Forum Mr Shi Guang Signature 
Mr Yang Hua Signature 	Small Cell Forum Mrs Sue Monahan Signature 
Mr Douglas Martel Signature 	Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature 
Dr. Peter Meissner Signature 	TETRA & Critical Communications Association Mr. Philip Kidner Signature 
Mr Lars S Nielsen Signature 	CTIA Mr Thomas Sawanobori Signature 
Mr Shrikant Shenwai Signature 	PSCE Mrs Marie-Christine Bonnamour Signature 
Mr Jean-Pierre Bienaimé Signature 	

Executed in 24 originals


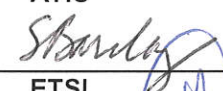




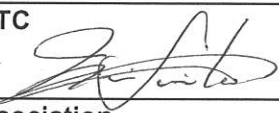


Annex 34 This Agreement is entered into by the following Market Representation Partner:

Broadband India Forum (BIF)

Name: Mr TV Ramachandran
 Title: President
 Address: Suite 312A, Deepshikha Building, New Delhi 110008,
 India

Signature  Date 12 April 2018

Authorised by the existing Partners

Mr Seiji Nishioka Signature	ARIB 	Ms Susan Miller Signature	ATIS 
Mr Yang Zemin Signature	CCSA 	Mr Luis Jorge Romero Saro Signature	ETSI 
Ms Pamela Kumar Signature	TSDSI 	Dr Keunku Lee Signature	TTA 
Mr Shuichi Inada Signature	TTC Subst. M. Santa 	Mr Joe Barrett Signature	GSA
Mr Alex Sinclair Signature	GSM Association	Mr Latif Ladid Signature	IPv6 Forum
Mr Chris Pearson Signature	5G Americas	Mr Shi Guang Signature	TD Forum
Mr Yang Hua Signature	TD-SCDMA Industry Alliance	Mrs Sue Monahan Signature	Small Cell Forum
Mr Douglas Martel Signature	Mobility Development Group	Mr Rajan Mathews Signature	Cellular Operators Association of India (COAI)
Dr. Peter Meissner Signature	Next Generation Mobile Network Alliance (NGMN)	Mr. Tony Gray Signature	The Critical Communications Association 
Mr Lars S Nielsen Signature	GCF	Mr Thomas Sawanobori Signature	CTIA
Mr Shrikant Shenwai Signature	WBA	Mrs Marie-Christine Bonnamour Signature	PSCE
Mr Jean-Pierre Bienaimé Signature	5G-IA 	Mr Dino Flore Signature	5G-AA

Executed in 25 originals

Annex 35 This Agreement is entered into by the following Market Representation Partner:

EMEA Satellite Operators Association (ESOA)

Name: Aarti Holla-Maini
Title: Secretary General
Address: Avenue Marnix 17, 1000 Brussels, Belgium

Signature



Date 19 October 2018

Authorised by the existing Partners

ARIB Mr Seiji Nishioka Signature	ATIS Ms Susan Miller Signature
CCSA Mr Yang Zemin Signature	ETSI Mr Luis Jorge Romero Saro Signature
TSDSI Ms Pamela Kumar Signature	TTA Mr. Koo Kyoung Cheol Signature
TTC Mr Shuichi Inada Signature	GSA Mr Joe Barrett Signature
GSM Association Mr Alex Sinclair Signature	IPv6 Forum Mr Latif Ladid Signature
5G Americas Mr Chris Pearson Signature	TD Forum Mr Shi Guang Signature
TD-SCDMA Industry Alliance Mr Yang Hua Signature	Small Cell Forum Mrs Sue Monahan Signature
Mobility Development Group Mr Douglas Martel Signature	Cellular Operators Association of India (COAI) Mr Rajan Mathews Signature
Next Generation Mobile Network Alliance (NGMN) Dr. Peter Meissner Signature	The Critical Communications Association Mr. Tony Gray Signature
GCF Mr Lars S Nielsen Signature	CTIA Mr Thomas Sawanobori Signature
WBA Mr Shrikant Shenwai Signature	PSCE Mrs Marie-Christine Bonnamour Signature
5G-IA Mr Jean-Pierre Bienaimé Signature	5G-AA Mr Dino Flore Signature
Broadband India Forum Mr TV Ramachandran Signature	

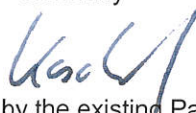
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Annex 36 This Agreement is entered into by the following Market Representation Partner:

ZVEI – Zentralverband Elektrotechnik- und Elektronikindustrie e.V.

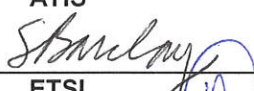
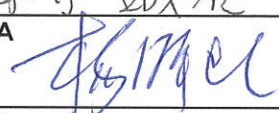
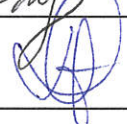
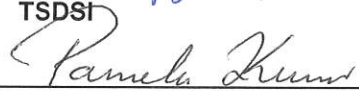
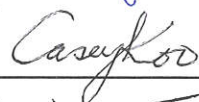
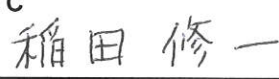
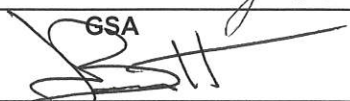

Name: Gunter Koschnick
Title: Managing Director
Address: ZVEI e.V., Lyoner Strasse 9, 60528 Frankfurt
Germany

Signature



Date 2 November 2018

Authorised by the existing Partners

Mr Seiji Nishioka Signature	ARIB 	Ms Susan Miller Signature	ATIS 
Mr Yang Zemin Signature	CCSA 	Mr Luis Jorge Romero Saro Signature	ETSI 
Ms Pamela Kumar Signature	TSDSI 	Mr. Koo Kyoung Cheol Signature	TTA 
Mr Shuichi Inada Signature	TTC 	Mr Joe Barrett Signature	GSA 
Mr David Hutton Mr Alex Sinclair Signature	GSM Association 	Mr Latif Ladid Signature	IPv6 Forum
Mr Chris Pearson Signature	5G Americas	Mr Shi Guang Signature	TD Forum
Mr Yang Hua Signature	TD-SCDMA Industry Alliance	Mrs Sue Monahan Signature	Small Cell Forum
Mr Douglas Martel Signature	Mobility Development Group	Mr Rajan Mathews Signature	Cellular Operators Association of India (COAI)
Dr. Peter Meissner Signature	Next Generation Mobile Network Alliance (NGMN)	Mr. Tony Gray Signature	The Critical Communications Association 
Mr Lars S Nielsen Signature	GCF	Mr Thomas Sawanobori Signature	CTIA
Mr Shrikant Shenwai Signature	WBA	Mrs Marie-Christine Bonnamour Signature	PSCE
Mr Jean-Pierre Bienaimé Signature	5G-IA	Mr Dino Flore Signature	5G-AA
Mr TV Ramachandran Signature	Broadband India Forum	Mrs Aarti Holla-Maini Signature	EMEA Satellite Operators Association 

Executed in 27 originals