**Minutes & Notes – NetSlices Call of 19th April 2017**

**From:** "Galis, Alex" <a.galis@ucl.ac.uk>

**Subject: Re: IETF NetSlices (NS) Wednesday 19th April 2017 call - minutes and notes --> next call on Wednesday 3rd May 2017 at 6:00 am US (west coast), 14:00 UK, 15:00 CET, 16:00 Helsinki, 21:00 China, 22:00 Tokyo**

**Date:** 19 April 2017 at 18:43:01 BST

**To:** Liang Geng | 耿亮 <gengliang@chinamobile.com>, "qiangli (D)" <qiangli3@huawei.com>, "De Foy, Xavier" <Xavier.DeFoy@InterDigital.com>, "Flinck, Hannu (Nokia - FI/Espoo)" <hannu.flinck@nokia-bell-labs.com>, Kiran.Makhijani <Kiran.Makhijani@huawei.com>, Ravi Ravindran <ravi.ravindran@huawei.com>, "Dongjie (Jimmy)" <jie.dong@huawei.com>, Pedro Martinez-Julia <pedro@nict.go.jp>, Carlos Jesús Bernardos Cano <cjbc@it.uc3m.es>, LUIS MIGUEL CONTRERAS MURILLO <luismiguel.contrerasmurillo@telefonica.com>, stewart.bryant <stewart.bryant@gmail.com>, pengshuping <pengshuping@huawei.com>, Susan Hares <shares@ndzh.com>, "Rahman, Akbar" <Akbar.Rahman@InterDigital.com>, Leeyoung <leeyoung@huawei.com>, satoru.matsushima <satoru.matsushima@gmail.com>, Mohamed Boucadair <mohamed.boucadair@orange.com>, "slawomir.kuklinski@gmail.com" <slawomir.kuklinski@gmail.com>, sheng Jiang <jiangsheng@huawei.com>

**Cc:** "Galis, Alex" <a.galis@ucl.ac.uk>

Hi All

Many thanks for your participation in the 1st IETF NS synchronisation call.

Minutes from my side are enclosed

Best Regards

Alex

**I. List of Volunteers**

(\*) present at the call on 20th April 2017

(\*\*) apologies received

1. Canada

(\*) De Foy, Xavier – InterDigital <[Xavier.DeFoy@InterDigital.com](mailto:Xavier.DeFoy@InterDigital.com)>

(\*\*) Akbar Rahman – InterDigital <[Akbar.Rahman@InterDigital.com](mailto:Akbar.Rahman@InterDigital.com)>

2. China:

(\*) Dongjie (Jimmy) - Huawei <[jie.dong@huawei.com](mailto:jie.dong@huawei.com)>;

(\*) Gen Liang <[gengliang@chinamobile.com](mailto:gengliang@chinamobile.com)>;

(\*) (Cristina) Li Qiang - Huawei <[qiangli3@huawei.com](mailto:qiangli3@huawei.com)>;

Sheng Jiang - Huawei <[jiangsheng@huawei.com](mailto:jiangsheng@huawei.com)>

3. France

(\*) Mohamed Boucadair  - Orange <[mohamed.boucadair@orange.com](mailto:mohamed.boucadair@orange.com)>

4. Finland

(\*) Flinck, Hannu - Nokia <[hannu.flinck@nokia-bell-labs.com](mailto:hannu.flinck@nokia-bell-labs.com)>;

5. Japan

(\*) Pedro Martinez-Julia - NICT<[pedro@nict.go.jp](mailto:pedro@nict.go.jp)>;

(\*) Satoru Matsushima   Soft Bank <[satoru.matsushima@gmail.com](mailto:satoru.matsushima@gmail.com)>

6. Poland

(\*) Slawomir Kuklinski  -Orange <[slawomir.kuklinski@gmail.com](mailto:slawomir.kuklinski@gmail.com)>

7. Spain

(\*) Carlos Jesus Bernardos Cano University Carlos III Madrid <[cjbc@it.uc3m.es](mailto:cjbc@it.uc3m.es)>

(\*\*) Luis Miguel Contreras Murillo – Telefonica <[luismiguel.contrerasmurillo@telefonica.com](mailto:luismiguel.contrerasmurillo@telefonica.com)>

8. U.K.

(\*) Stewart Bryant  - Huawei<[stewart.bryant@gmail.com](mailto:stewart.bryant@gmail.com)>;

(\*) Alex Galis  - UCL<[a.galis@ucl.ac.uk](mailto:a.galis@ucl.ac.uk)>

9. USA

(\*) Ravi Ravindran - Huawei <[ravi.ravindran@huawei.com](mailto:ravi.ravindran@huawei.com)>;

(\*) Kiran Makhijani - Huawei <[Kiran.Makhijani@huawei.com](mailto:Kiran.Makhijani@huawei.com)>

(\*) Susan Hares  - Huawei  <[shares@ndzh.com](mailto:shares@ndzh.com)>

**II. Draft Agenda - 20th April 2017 call**

• Short introduction & context - Alex

• Gap Analysis template - Cristina

• Establish contributors and work plan for the 5 documents planed for IETF99 (Prague, Czech Republic, 16-21 July 2017)

• Preparation for the NS BoF  (presentations + documents + audience + ..)

• Web calls planed twice a month

• Documents repository

• AoB

III.   **IETF Draft Documents planed by 16th June 2017 (i.e. first consolidated draft - 2 months preparation period!)**

The following initial groups were confirmed:

Contributors List with  {Moderator)

•  Use cases & Requirements: {Kiran}, Ravi, Xavier, Akbar, Luis, Liang, Hannu, …

•  Gap-Analysis: {Cristina}, Kiran, Sue, Jie, Pedro, ...

•  Architecture/Framework(s) + Definitions: {Liang} Luis, Carlos, Stewart, Jie, Alex, Slawomir...

•  Problem Statement: {Alex}, Carlos, Pedro, Ravi, Satoru, Carlos, ...

 •  NS Charter: {Alex}, Kiran, Carlos, Liang….

**Documents repository** [**https://github.com/netslices/IETF-NetSlices**](https://github.com/netslices/IETF-NetSlices)

**All documents will be developed in parallel with by monthly synchronisation reviews.**

**All documents will utilise and be based on an extended NS definition** [i.e. only physical /logical partition of connectivity resources in a network (e.g. VPN, Overlay, Virtual Networks) is initially considered out of scope of these documents]

IV. Moderators and teams are expected to produce **fist a detailed content list with initial scope of document sections for review & cross synchronisation at the next call.**

Moderators with **set-up a folders & document(s)  template at** [**https://github.com/netslices/IETF-NetSlices**](https://github.com/netslices/IETF-NetSlices)

V.  There will be a **by monthly progress & synchronisation & preparation for BoF call** as follows

**Time:** 6:00 am US (west coast), 14:00 UK, 15:00 CET, 16:00 Helsinki, 21:00 China, 22:00  Tokyo.

**Dates**:

Wednesday 3rd May 2017; Wednesday 17th May 2017; Wednesday 31st May 2017; Wednesday 14th June 2017; Wednesday 28th June 2017; Wednesday 12th July 2017

**VI. GoToMeeting facilities:**

Please join IETF NS meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/581721181>

You can also dial in using your phone.

United Kingdom (Toll Free): 0 800 031 4727

United Kingdom: +44 20 3713 5011

Access Code: 581-721-181

First GoToMeeting? Try a test session: <http://help.citrix.com/getready>

VII. **Introductory slides and Gap analysis table are enclosed**

**VII. Reference 12 presentations of IETF 98 & draft documents are at**· <https://github.com/netslices/IETF-NetSlices/tree/master/IETF98_Sidemeeting02>

On 19 Apr 2017, at 15:36, Liang Geng | 耿亮 <[gengliang@chinamobile.com](mailto:gengliang@chinamobile.com)> wrote:

Hi Alex,

Minutes from my side

\*Alex Briefing and Introduction

-Introduction of Existing IETF works, Existing netslices documents and planned netslices documents for BoF

Kiran: We need concrete definition of NS, the current version is too broad

Xavier: NS Definitions should be aligned with other organizations i.e. 3GPP

\*Line-Dropped

Susan kindly shares possible conference call alternatives including personal gotomeeting account or IETF account which needs AD approval

\*Line back on and Alex continues presenting introduction slides

Kiran: why protocol between WAN domain and WAN network Fabric

Alex: An intermediate layer of Slice/sub-slice management to be used by operators

\*Gap Analysis document preparation from Christina Qiang

Christina Qiang presenting slides for Gap Analysis

-Volunteers needed to work on the table for gap analysis.

(Alex will send the final version of volunteers for each documents)

\*Moderators for each documents

Gap Analysis: Lost track… Christina?

Uses cases: Kiran

Arch Document: Liang

Problem Statement: Pedro

NS Charter: Alex and reviewed by all group

\*Using Github

Alex suggest moderator to make good use of github – details to be sent.

Best wishes

Liang

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From: Alex Galis <a.galis@ucl.ac.uk>

Subject: Re: IETF NetSlices (NS) - Conference call preparation--> Wednesday 19th April 2017 a 6:00 am US (west coast), 14:00 UK, 15:00 CET, 16:00 Helsinki, 21:00 China, 22:00 Tokyo.

Date: 11 April 2017 at 18:49:23 BST

To: "Flinck, Hannu (Nokia - FI/Espoo)" <hannu.flinck@nokia-bell-labs.com>, "De Foy, Xavier" <Xavier.DeFoy@InterDigital.com>, "Kiran.Makhijani" <Kiran.Makhijani@huawei.com>, "Dongjie (Jimmy)" <jie.dong@huawei.com>, Ravi Ravindran <ravi.ravindran@huawei.com>, Pedro Martinez-Julia <pedro@nict.go.jp>, "gengliang@chinamobile.com" <gengliang@chinamobile.com>, "qiangli (D)" <qiangli3@huawei.com>, "cjbc@it.uc3m.es" <cjbc@it.uc3m.es>, "uismiguel.conterasmurillo@telefonica.com" <uismiguel.conterasmurillo@telefonica.com>, "stewart.bryant" <stewart.bryant@gmail.com>, pengshuping <pengshuping@huawei.com>, Susan Hares <shares@ndzh.com>, "Rahman, Akbar" <Akbar.Rahman@InterDigital.com>, Leeyoung <leeyoung@huawei.com>, LUIS MIGUEL CONTRERAS MURILLO <luismiguel.contrerasmurillo@telefonica.com>, Carlos Jesús Bernardos Cano <cjbc@it.uc3m.es>, "satoru.matsushima" <satoru.matsushima@gmail.com>, Mohamed Boucadair <mohamed.boucadair@orange.com>, slawomir.kuklinski@gmail.com, sheng Jiang <jiangsheng@huawei.com>

Cc: Alex Galis <a.galis@ucl.ac.uk>

Hi All

Thank you again for your excellent contributions, presentations and discussions on Network Slicing at IETF98.

Due to the Passover and Easter holiday period the NS next call is re - scheduled for Wednesday 19th April 2017 a 6:00 am US (West Coast), 14:00 UK (London), 15:00 CET, 16:00 Helsinki, 21:00 Beijing, 22:00 Tokyo.

1. IETF Network Slicing WebCall facility:

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United Kingdom: +44 20 3713 5011

Access Code: 581-721-181

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2. Draft Agenda (1 hour)

• Short introduction & context

• Establish contributors and work plan for the 5 documents planed for IETF99 (Prague, Czech Republic, 16-21 July 2017)

• Preparation for the NS BoF (presentations + documents + audience + ..)

• Web calls planed twice a month

• Documents repository

• AoB

3. At the IETF 98 the following are names of authors who (or were) volunteered to contribute in the following areas.

• Use cases: Kiran, Ravi, Defoy, Akbar, Luis, Liang,..

• Architecture/Framework(s) + Definitions: Luis, Carlos, Stewart, Jie, Liang, Alex, ...

• Gap-Analysis: Kiran, Sue, Jie, Pedro, ...

• Problem Statement: Alex, Carlos, Pedro, Ravi, ...

• NS Charter: Alex, ….

4. IETF98 NS Presentations of 27th March 2017 are available at https://github.com/netslices/IETF-NetSlices/tree/master/IETF98\_Sidemeeting02

Talk to you on Wednesday 19th April 2017

Best Regards

Alex

N.B. Initial list of NS volunteers

Canada

De Foy, Xavier <Xavier.DeFoy@InterDigital.com>

Akbar. Rahman <Akbar.Rahman@InterDigital.com>

China:

Dongjie (Jimmy) <jie.dong@huawei.com>;

Shuping

Gen Liang gengliang@chinamobile.com;

Cristina Qiang <qiangli3@huawei.com>;

Sheng Jiang <jiangsheng@huawei.com>

France

Mohamed Boucadair <mohamed.boucadair@orange.com>

Finland

Flinck, Hannu (Nokia - FI/Espoo) <hannu.flinck@nokia-bell-labs.com>;

Japan

Pedro Martinez-Julia <pedro@nict.go.jp>;

Satoru Matsushima <satoru.matsushima@gmail.com>

Poland

Slawomir Kuklinski <slawomir.kuklinski@gmail.com>

Spain

Carlos Jesus Bernardos Cano <cjbc@it.uc3m.es>

Luis Miguel Contreras Murillo <luismiguel.contrerasmurillo@telefonica.com>

U.K.

Stewart Bryant <stewart.bryant@gmail.com>;

Alex Galis <a.galis@ucl.ac.uk>

USA

Ravi Ravindran <ravi.ravindran@huawei.com>;

Kiran Makhijani <Kiran.Makhijani@huawei.com>

Susan Hares <shares@ndzh.com>