



**Question(s):** 16/13

Virtual, 20-31 July 2020

**TD**

**Source:** Rapporteur

**Title:** Meeting report of Q16/13 (e-meeting, 18-22 May 2020)

**Purpose:** Admin

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**Keywords:** Meeting report; Q16/13; May 2020

**Abstract:** This document contains the interim meeting (e-meeting) report for Q16/13 which was held on 18-22 May 2020.

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## **1. Question 16/13 – Knowledge-centric trustworthy networking and services**

Question 16/13 was addressed in 5 sessions on 18-22 May 2020 under the chairmanship of Gyu Myoung LEE (KAIST, Korea (Rep. of)). The group adopted the agenda in **Q16-13-May20-Agenda-14**.

The objective for this meeting was:

- To review the progress of candidate documents for consent in the July SG13 meeting (Y.QKDN\_Arch, Y.QKDN\_KM, Y.QKDN\_CM, Y.OBF\_trust, Y.trust-pdm) and the on-going document (Y.QKDN\_SDNC)

Question 16/13 discussed 15 contributions. Q16/13 made progress on 6 draft Recommendations. At the meeting, Q16/13 produced 7 output documents including the meeting report.

The main results of the meeting are the following:

- The updated draft Recommendation ITU-T Y.QKDN\_Arch (**Q16-13-May20-DOC-42**), Functional architecture of Quantum Key Distribution networks;
- The updated draft Recommendation ITU-T Y.QKDN\_KM (**Q16-13-May20-DOC-43**), Key management for Quantum Key Distribution networks;
- The updated draft Recommendation ITU-T Y.QKDN\_CM (**Q16-13-May20-DOC-44**), Control and Management for Quantum Key Distribution Networks;
- The updated draft Recommendation ITU-T Y.QKDN\_SDNC (**Q16-13-May20-DOC-45**), Software Defined Network Control for Quantum Key Distribution Networks;
- The updated draft Recommendation ITU-T Y.OBF\_trust (**Q16-13-May20-DOC-46**), Open Bootstrap Framework enabling trustworthy networking and services for distributed diverse ecosystem;
- The updated draft Recommendation ITU-T Y.trust-pdm (**Q16-13-May20-DOC-47**), Framework for Trust based Personal Data Management Platform;
- Q16/13 meeting report (**Q16-13-May20-Report-14**).

## **2. Results**

### **2.1 Recommendations for Approval under TAP**

No Recommendations were considered under TAP approval at this meeting.

## 2.2 Recommendations proposed for Consent in accordance with Rec. A.8.

No Recommendations were considered for consent at this meeting.

## 2.3 Other documents for Approval

No Appendices, Supplements, Implementers' Guides or Technical Papers were proposed by Q16/13 for approval at this meeting.

## 3. Outgoing liaison statements

No outgoing liaison statements were proposed by Q16/13 for approval at this meeting.

## 4. Discussions

### 4.1 Y.QKDN\_Arch

Base document: **TD414/WP3**

C-112	QuantumCTek Co., Ltd., CAS Quantum Network Co., Ltd.	Proposed modifications to the draft Recommendation ITU-T Y.QKDN_Arch "Functional architecture of quantum key distribution networks"	Q16/13
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- This contribution proposes the followings: Modifications to the overall operational procedures in clause 9, where Figure 3-3, 3-4, 3-5 and some corresponding descriptions are modified for further clarifications as discussed in the last e-meeting.

C-121	SK Telecom, University of Geneva	Proposed modification of the draft Recommendation Y.QKDN_Arch	Q16/13
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- This contribution proposes modification in clauses 7.1, 7.7, 9 and Annex A. in the draft Recommendation Y.QKDN\_Arch.

### Meeting result

- From C-112 and C-121 (clause 9 part), operational procedures are updated.
- From C121, clauses 7.1, 7.7 and Annex A are updated.
- As the meeting identified still some confusing points in basic operational procedures and the new diagram in Annex, contributions were invited to further discuss in the next e-meeting.

### 4.2 Y.QKDN\_KM

Base document: **TD417/WP3**

C-119R1	NICT, NEC Corporation, Toshiba Corporation	Proposed modifications to the draft Recommendation ITU-T Y.QKDN_KM "Key management for quantum key distribution Network"	Q16/13
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- This contribution proposes the following additions and modifications:
  - to add draft X.cf\_QKDN in the reference;

- to add an optional function of key combination in KM;
- to add announcement procedures and metadata for optional encryption methods (such as AES);
- to conform this draft Recommendation to Y.3801;
- and other editorial updates.

### Meeting result

- The meeting accepted C-119R1 with minor modifications in functional descriptions for requirements.

### 4.3 Y.QKDN\_CM

Base document: **TD415/WP3**

C-113	ETRI, KT	Editorial modifications in the draft Recommendation ITU-T Y.QKDN_CM: “Control and Management for Quantum Key Distribution Networks”	Q16/13
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- This contribution proposes editorial modifications in the draft Recommendation ITU-T Y.QKDN\_CM: “Control and Management for the Quantum Key Distribution Network” (clause 9).

C-114	ETRI, KT	Add abbreviations in the draft Recommendation ITU-T Y.QKDN_CM: “Control and Management for Quantum Key Distribution Networks”	Q16/13
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- This contribution proposes to add abbreviations in the draft Recommendation ITU-T Y.QKDN\_CM: “Control and Management for the Quantum Key Distribution Network”(clause 4).

C-115	ETRI, KT	Modify procedures in the draft Recommendation ITU-T Y.QKDN_CM: “Control and Management for Quantum Key Distribution Networks”	Q16/13
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- This contribution proposes to modify procedures in the draft Recommendation ITU-T Y.QKDN\_CM: “Control and Management for the Quantum Key Distribution Network” (clause 12).

C-116	ETRI, KT	Add text in Security clause of the draft Recommendation ITU-T Y.QKDN_CM: “Control and Management for Quantum Key Distribution Networks”	Q16/13
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- This contribution proposes to add descriptions in the “13. Security Considerations” clause of the draft Recommendation ITU-T Y.QKDN\_CM: “Control and Management for the Quantum Key Distribution Network” (clause 13).

C-120R1	NICT, NEC Corporation, Toshiba Corporation	Proposed modifications to the draft Recommendation ITU-T Y.QKDN_CM: “Control and Management for Quantum Key Distribution Networks”	Q16/13
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- This contribution proposes the following additions and modifications:
  - to update scope, reference, definitions and abbreviations and acronyms;
  - to make the clause 6 “overview” concise;
  - to update figure 2 to correct name of interfaces;
  - to replace texts in the clause 9 “QKDN management layer” by the proposed texts because the current texts are too much details. This contribution proposes to keep the level of descriptions as the same level as the figure 1. Proposed texts describe four sub functions in QKDN manager i.e. CLM (Control Layer Management), KLM (Key management Layer Management), QLM (Quantum Layer Management) and CLMO (Cross Layer Management Orchestration);
  - to move the table of information components in the clause 11 “Reference Points of the Control, Management, and Orchestration of QKDN” to Appendix II because these tables are information for implementations;
  - to remove the clause 12 “Information Model of Management of OKDN” because it is empty so far;
  - to move the procedures in the clause 13 “Procedures of the Control, Management, and Orchestration of QKDN” to Appendix III because these procedures may vary depending on the future implementation;
  - and other editorial updates.

### Meeting result

- Based on all input contributions, the meeting agreed to update the whole text. However, the meeting did not complete the output document review due to lack of time.
- For QKDN management layer (clause 9), the meeting requested for key contributors to prepare two different inputs by 29 May (Friday) as follows:
  - Proposal 1 (NICT, NEC, Toshiba): describe common FCAPS functions first and then include a brief description for each sub-clause
  - Proposal 2 (ETRI, KT): a brief introduction first and then describe detailed FCAPS functions for each sub-clause
  - After receiving the above proposals, the meeting will decide an appropriate one based on e-mail discussion before the next e-meeting.
- For functions and information components for each reference point, the meeting agreed to move them into Appendix I.
- For procedures, based on QKDN CM requirements in Y.3801, the meeting decided to split normative procedures and informative procedures. Clause 10 should keep only normative procedures and informative procedures will be moved into Appendix II. Relevant contributions should be prepared for the next e-meeting.

#### 4.4 Y.OBF\_trust

Base document: **TD416/WP3**

C-117R1	India	Draft Recommendation ITU-T Y.OBF_Trust: “Open Bootstrap Framework enabling trusted devices, applications and services for distributed diverse ecosystem”.	Q16/13
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- It is proposed to make some editorial changes in section 1, 3, 4, 7, 8, 9, 10 and section 12.1 of the draft Recommendation ITU-T Y.OBF\_Trust (**TD416-WP3**), the acronym MNO is proposed to be replaced with NSP at various places in the document and re-arrange sections 8 to 11 in the sequence of Requirements, Pre-requisites, Capabilities and Functions by re-numbering section numbers.

C-118R1	India	Draft Recommendation ITU-T Y.OBF_Trust: “Open Bootstrap Framework enabling trusted devices, applications and services for distributed diverse ecosystem”.	Q16/13
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- It is proposed to modify section 6 of the draft Recommendation ITU-T Y.OBF\_Trust (**TD416-WP3**).

#### Meeting result

- From C-117R1, the proposed editorial changes in the texts are accepted. Unused acronyms are removed. Editorial Note is added in the requirements clause.
- From C-118R1, the proposed text and diagrams are accepted with modification. Clause 6.4 moved to clause 7.

#### 4.5 Y.trust-pdm

Base document: **TD411/WP3**

C-126	KAIST	Y.trust-pdm: proposal to update clause 7 (“requirements”) and clause 8 (“architecture”)	Q16/13
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- Based on the latest output document (**TD411/WP3**) of draft Recommendation Y.trust-pdm (“Framework for Trust based Personal Data Management”), this contribution proposes the updated requirements and framework architecture for Y.trust-pdm.
  - (clause 7) Revise the description about trust information management requirements, including the target of trust evaluation and considerable factors for modelling and evaluating trust;
  - (clause 7) Revise the description about privacy compliance management, including sources of privacy compliance (i.e., internal and external) and privacy compliance assessment and management;
  - (clause 8) Rearrange functions in the management plane of the framework based on the revised requirements;
  - (clause 8) Add more descriptions for each function in the framework.

### Meeting result

- The proposed texts and figures are accepted in clause 7 and clause 8;
- Based on the revised clause 7 and clause 8, editors' notes are added in clause 9 to invite contributions for the next meeting;
- Unused references in bibliography are removed.

### 4.6 Y.QKDN\_SDNC

Base document: **TD390/WP3**

C-122	BUPT, CAS Quantum Network Co., MIIT	Draft Recommendation ITU-T Y. QKDN_SDNC “Software Defined Networking Control for Quantum Key Distribution Networks”	Q16/13
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- This document includes proposed modifications to the draft Recommendation ITU-T Y. QKDN\_SDNC “Software Defined Network Control for Quantum Key Distribution Networks”.

C-123	BUPT, CAS Quantum Network Co., MIIT	Proposal of three kinds of cryptography application scenario for QKDN on Draft Recommendation Y.QKDN-SNDC	Q16/13
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- This document proposes three kinds of cryptography application scenario for recommendation Y.QKDN\_SDNC. It intend to clearly understand and classify the cryptography application in service layer.

C-124	BUPT, Wuhan Research Institute of Posts and Telecommunications, CAS Quantum Network Co., MIIT	Proposal of programmable elements for SDN control in QKDN on Draft Recommendation Y. QKDN- SDNC	Q16/13
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- This document proposes the programmable elements of SDN control in QKDN for recommendation Y. QKDN\_SDNC. It clearly shows what elements and functions the SDN controller can control in QKDN.

C-125	BUPT, CAS Quantum Network Co., MIIT	Proposal of operational procedures of SDN control on Draft Recommendation Y.QKDN-SDNC	Q16/13
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- This contribution proposes the operational procedure of SDN control in QKDN on Draft Recommendation Y.QKDN-SDNC. The proposed procedure intends to reduce the latency and improve the flexibility of service provisioning.

### Meeting result

- The meeting accepted C-122.

- For C-123, the meeting invited additional contributions for three kinds of cryptographic application scenarios to further improvement.
- For C-124 and C-125, the meeting agreed to keep the proposed text in the Appendices for the moment and continue to update them.

#### 4.7 CQ meeting

- two possible key combination cases in draft X.cf\_QKDN
  - The document is available below.  
<https://www.itu.int/ifa/t/2017/sg13/exchange/wp3/q16/202005/CQ%20meeting/>
- recent progress on QKD issues in both groups

#### Meeting result

- The meeting introduced the recent progress of X.cf\_QKDN in SG17 and then discussed the details of two possible key combination cases.
- The meeting also introduced C-119R1 submitted to the Q16/13 e-meeting and agreed to add “key combination” as an optional function in the functional architecture of the key management layer under development in SG13.
- Main discussion point in the CQ meeting was the alignment issue between the QKDN architecture in SG13 and security specific functions, especially key combination in SG17. The meeting reached a consensus in the following points
  - SG13 develops overall aspects for QKDN requirements and architectures, etc.
  - SG17 focuses on security specific aspects such as security requirements, security architecture, etc. for QKDN.
  - If necessary, both groups will arrange a next CQ meeting for close cooperation in QKDN standardization.

#### 5. Work programme

The currently on-going work items for Q16/13 are as follows:

Acronym	Title	Editor	Priority	Consent / Approval	Reference
ITU-T Y.dv-ess	Framework of distributed and virtualized energy storage systems (New.)	Taein Hwang (tihwang@etri.re.kr), Il Woo Lee (ilwoo@etri.re.kr)	High	Jul. 2020	TD 391/WP3
ITU-T Y.trust-index	Trust index for ICT infrastructures and services (New.)	Hyeontaek Oh (hyeontaek@kaist.ac.kr), Jun Kyun Choi (jkchoi59@kaist.edu)	Medium	Jul. 2021	TD 267/WP3
ITU-T Y.STR	Socio-technical recommendations for contributing to	Viliam Sarian (sarian@niir.ru)	Medium	Jul. 2021	TD 395/WP3

Acronym	Title	Editor	Priority	Consent / Approval	Reference
	socio-economic awareness (New)				
ITU-T Y.trust-arch	Functional architecture for trust enabled service provisioning (New.)	Hoan Suk Choi, Korea (Republic of), <a href="mailto:hkrock7904@gmail.com">hkrock7904@gmail.com</a> Woo Seop Rhee, Korea (Republic of), <a href="mailto:wsrhee@hanbat.ac.kr">wsrhee@hanbat.ac.kr</a>	Medium	Jul. 2021	TD 322/WP3
ITU-T Y.SNS-trust	Framework for Evaluation of Trust and Quality of Media in Social Networking Services (New.)	Namkyung Lee, ETRI ( <a href="mailto:nklee@etri.re.kr">nklee@etri.re.kr</a> )	Medium	Jul. 2021	TD 231/WP3
ITU-T Y.trust-pdm	Framework for Trust based Personal Data Management (New.)	Hyeontaek Oh, KAIST, <a href="mailto:hyeontaek@kaist.ac.kr">hyeontaek@kaist.ac.kr</a> Nakyong Kim, KAIST, <a href="mailto:nkim71@kaist.ac.kr">nkim71@kaist.ac.kr</a> Jinhong Yang, Inje University/KAIST, <a href="mailto:sunupnet@kaist.ac.kr">sunupnet@kaist.ac.kr</a>	High	Jul. 2020	TD 411/WP3, <b>Q16-13-May20-DOC-47</b>
ITU-T Y.QKDN_Arch	Functional architecture of Quantum Key Distribution networks (New.)	Zhangchao Ma, CAS Quantum Network Co., Ltd., <a href="mailto:mazhangchao@casquantumnet.com">mazhangchao@casquantumnet.com</a>	High	Jul. 2020	TD 414/WP3, <b>Q16-13-May20-DOC-42</b>
ITU-T Y.QKDN_KM	Key management for Quantum Key Distribution networks (New.)	Kaoru Kenyoshi, NICT, <a href="mailto:kaoru.kenyoshi@nict.go.jp">kaoru.kenyoshi@nict.go.jp</a>	High	Jul. 2020	TD 417/WP3, <b>Q16-13-May20-DOC-43</b>
ITU-T Y.PII-Did	Prioritization based De-Identification Methods for Personally Identifiable Information (New.)	Yang, Jinhong KAIST, <a href="mailto:jinhong@inje.ac.kr">jinhong@inje.ac.kr</a> Onik, Md Mehedi Hassan KAIST, <a href="mailto:hassan@oasis.inje.ac.kr">hassan@oasis.inje.ac.kr</a> Kim, Chul-Soo, ETRI <a href="mailto:charles@inje.ac.kr">charles@inje.ac.kr</a>	High	Jul. 2020	TD 270/WP3
ITU-T Y.energy-brokerage	Framework of trusted electricity brokerage for distributed energy resources (New.)	Taein Hwang ETRI, <a href="mailto:tihwang@etri.re.kr">tihwang@etri.re.kr</a> , Il Woo Lee ETRI <a href="mailto:ilwoo@etri.re.kr">ilwoo@etri.re.kr</a>	Low	Sep. 2021	TD 392/WP3
ITU-T Y.QKDN_SDNC	Software Defined Network Control for Quantum Key Distribution Networks (New.)	Yongli Zhao, Zhangchao Ma and Junsen Lai	Low	Sep. 2021	TD 390/WP3, <b>Q16-13-May20-DOC-45</b>
ITU-T Y.QKDN_CM	Control and Management for Quantum Key Distribution Networks (New.)	Hans Kim, <a href="mailto:hans9@kt.com">hans9@kt.com</a> , Taesang Choi, ETRI, <a href="mailto:choits@etri.re.kr">choits@etri.re.kr</a> , Jaehwan Jin, LGU+	Low	Jul. 2020	TD 415/WP3, <b>Q16-13-May20-DOC-44</b>

Acronym	Title	Editor	Priority	Consent / Approval	Reference
ITU-T Y.QKDN_BM	Business role-based models in Quantum Key Distribution Network (New.)	Hyungsoo (Hans) Kim, KT, hans9@kt.com Hyeontaek Oh, KAIST, <a href="mailto:hyeontaek@kaist.ac.kr">hyeontaek@kaist.ac.kr</a>	High	Jul. 2021	TD 349/WP3
ITU-T Y.OBF_trust	Open Bootstrap Framework enabling trustworthy networking and services for distributed diverse ecosystem (New.)	Abhay Shanker Verma, as.verma@gov.in Ranjana Sivaram, ranjana.sivaram@gov.in Sharad Arora, sharad.arora@sensorise.net	High	Jul. 2020	TD 416/WP3, <b>Q16-13- May20- DOC-46</b>
ITU-T Y.suppl-trust-roadmap	Standardization roadmap on Trustworthy Networking and Services including Quantum Enhanced Networks (New.)	Gyu Myoung Lee, KAIST, <a href="mailto:gmyounglee@kaist.ac.kr">gmyounglee@kaist.ac.kr</a> Hyeontaek Oh, KAIST, <a href="mailto:hyeontaek@kaist.ac.kr">hyeontaek@kaist.ac.kr</a>	Medium	Oct. 2022	TD 396/WP3

NOTE 1 – Q16/13 has living list items on the following work items:

- Machine Learning in Quantum Key Distribution Networks (**TD 397/WP3**);
- Trust framework of trustworthy device selection for data transmission (**TD 479/WP3**);
- Trust based ICT service and business models (**TD 480/WP3**).

NOTE 2 – The following is the list of candidates for consent at the July SG13 meeting: **Y.dv-ess, Y.trust-pdm, Y.QKDN\_Arch, Y.QKDN\_KM, Y.PII-Did, Y.QKDN\_CM, Y.OBF-trust.**

## 6. Future meetings

The following is a summary of the upcoming meeting proposed by Q16/13.

Dates	Place	Host	Q	Objectives
8 June 2020 (08:00-12:30)	e-meeting	ITU-T	16/13	Candidate documents for consent at the July SG13 meeting
<b>29 June 2020 (09:00-12:00)</b> (Will be confirmed at the first June e-meeting)	e-meeting	ITU-T	16/13	Candidate documents for consent at the July SG13 meeting
20 – 31 July 2020	Fully virtual meeting	ITU-T	16/13	Q16/13 will deal with 14 draft recommendations (Y.dv-ess, Y.trust-index, Y.STR, Y.trust-arch, Y.SNS-trust, Y.trust-pdm, Y.QKDN_Arch, Y.QKDN_KM, Y.PII-Did, Y.energy-brokerage, Y.QKDN_SDNC, Y.QKDN_CM, Y.QKDN-BM, Y.OBF-trust), the current living list items of Q16/13, but are not limited to.

## **7. Closure**

The Q16/13 Rapporteur thanked the delegates for their participation in the Q16/13 activities to progress the work, and particularly the TSB SG 13 Secretariat, editors and contributors for their support and active involvement during this meeting.

**Annex A:**  
**List of the participants**

No	Name	Affiliation	Note
1	Gyu Myoung Lee	Rapporteur, KAIST	
2	Cha, Daejoon	SKT	
3	Hans Kim	KT	
4	Peev Montchill	Huawei	
5	Taasang Choi	ETRI	
6	Zhangchao Ma	CAS Quantum Network	
7	Hongyu Wu	QuantumCTek	
8	Masahide Sasaki	NICT	
9	Kaoru KENYOSHI	NICT	
10	Masahiro TAKEOKA	NICT	
11	Martin Ward	Toshiba	
12	Hyeontaek Oh	KAIST	
13	Abhay Shanker Verma	India	
14	Vijay Kumar Roy	India	
15	Ranjana Sivaram	India	
16	Sharad Arora	India	
17	Jonas Haggard	India	
18	Matthieu Legre	University of Geneva	
19	Yasuhiro Fujiyoshi	Toshiba	
20	Augusto Gomes	Fundacao CPqD	
21	Seong-Ho Jeong	Korea Communications Commission	
22	Dong-Hi Sim	SK Telecom	
23	Joonwoon Kim	SK Telecom	
24	Chun Seok Yoon	KT	
25	Xiaosong Yu	BUPT	
26	Yongli Zhao	BUPT	
27	Hiroyuki Toyama	NEC	
28	Yoshimichi Tanizawa	Toshiba	
29	Sibylle Schaller	NEC	
30	Jun Li	MIT	
31	Keng Li	China Information Communication Technologies Group	

32	Xiaoxuan Tang	China Mobile	
33	Issihaka Mmadi	ANRTIC	
34	Stiepan A. Kovac	QRCrypto SA C/O itk AVtobvS Sarl	
35	Hao Qin	CAS Quantum Network	
36	Rumeng Tan	China Telecom	
37	Carol Sosa Leguizamón	ANE	
38	Ayman Abualrob	Ministry of Telecommunications & Information Technology	
39	Fathi Abdeldayem	Emirates Integrated Telecommunications Company PJSC	
40	Xiaoya Yang	ITU	

## **Annex B: Summary of Q16/13 meeting activities**

<b>Date</b>	<b>Agenda Items</b>
<b>18 May (Mon)</b> <b>09:00-11:30</b> <b>Break for 30 min</b> <b>12:00-14:00</b>	<ul style="list-style-type: none"><li>- <b>Introduction</b></li><li>- <b>Y.QKDN_Arch</b> (C-121 and C-112)</li><li>- <b>Y.QKDN_KM</b> (C-119R1)</li><li>- <b>Y.QKDN_SDNC</b> (C-122, C-123, C-124 and C-125)</li></ul>
<b>19 May (Tue)</b> <b>09:00-12:00</b>	<ul style="list-style-type: none"><li>- <b>Y.QKDN_CM</b> (C-113, C-114, C-115, C-116 and C-120R1)</li><li>- <b>Other QKDN related items (buffer slot)</b></li></ul>
<b>19 May (Tue)</b> <b>13:00-16:00</b>	<ul style="list-style-type: none"><li>- <b>CQ meeting</b><ul style="list-style-type: none"><li>○ two possible key combination cases in draft X.cf_QKDN</li><li>○ recent progress on QKD issues in both groups</li></ul></li></ul>
<b>20 May (Wed)</b> <b>08:00-12:00</b>	<ul style="list-style-type: none"><li>- <b>Y.QKDN_CM</b> (C-113 and C-120R1)</li><li>- <b>Y.trust-pdm</b> (C-126)</li><li>- <b>Y.OBF_trust</b> (C-117R1 and C-118R1)</li></ul>
<b>22 May (Fri)</b> <b>09:00-11:00</b>	<ul style="list-style-type: none"><li>- <b>Drafting review</b></li><li>- <b>Wrap up the meeting</b></li></ul>
Remote participation – <a href="http://remote.itu.int">http://remote.itu.int</a>	