INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION STANDARDIZATION SECTOR

STUDY PERIOD 2009-2012

COM 17 – LS 349 – E

English only

Original: English

Question(s): 7/17 Geneva, 29 August-7 September 2012

Ref. : TD 3220

Source: ITU-T Study Group 17 (Geneva, 29 August - 7 September 2012)

Title: Liaison on delegated non-repudiation architecture based on Recommendation ITU-T X.813 and efficient multi-factor authentication mechanisms using mobile devices

LIAISON STATEMENT

For action to:

For comment to: ISO/IEC JTC 1/SC 27/WG2, GSMA, 3GPP SA3, IETF Security Area, OASIS

For information to:

Approval: Agreed to at ITU-T Study Group 17 meeting

Deadline: 17 March 2013

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Rapporteur of Question 7/17

ITU-T Study Group is pleased to inform you that we have established two new work items X.sap-8, Efficient multi-factor authentication mechanisms using mobile devices, and X.sap-9, Delegated non-repudiation architecture based on Recommendation ITU-T X.813.

The scopes for these new work items are as follows.

X.sap-8, Efficient multi-factor authentication mechanisms using mobile devices:

> This Recommendation basically provides an efficient multi-factor authentication mechanism using mobile devices. It describes a weakness of a single-factor authentication mechanism, a need for multi-factor authentication and various combinations of the multi-factor authentication mechanisms using mobile devices, and threats for the multi-factor authentication. In addition, security requirements to reduce threats of authentication mechanism are provided including potential typical multi-factor authentication protocols. It is to use mobile devices with SIM card capability, and should not exclude use of the virtual SIM cards. Specifically, it is applicable all applications using mobile devices. It will use the framework in the Recommendation ITU-T X.1154.

X.sap-9, Delegated non-repudiation architecture based on Recommendation ITU-T X.813:

> This Recommendation creates an enhanced non-repudiation model based on Recommendation ITU-T X.813 in support of application services. The user can authenticate and generate non-repudiation evidence for the transaction data by a trusted third party (TTP) that is the central

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signing authority (CSA). The architecture integrates multiple authentication devices to access the central signing authority (CSA). It also integrates multiple service providers to provide a non-repudiation service with a single authenticated device. The model provides non-repudiation services to any type of device including mobile devices. Although this architecture makes use of strong authentication, it is out of scope of this Recommendation.

This Recommendation describes the delegated non-repudiation service models and operations for each of the service models. This architecture also defines the security requirements of the delegated non-repudiation service.

ITU-T Study Group 17, with its Question 7, secure application services, is happy to inform you of the establishment of above two new work items and we hope to coordination with you in the near future.

Attachment 2:

- Attach1 - Draft Recommendation ITU-T X.sap-8, Efficient multi-factor authentication mechanisms using mobile devices
- Attach 2 - Draft Recommendation ITU-T X.sap-9, Delegated non-repudiation architecture based on X.813.