INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION STANDARDIZATION SECTOR**

STUDY PERIOD 2009-2012

**COM 17 – LS 206 – E**

**English only**

**Original: English**

| | | |
|---|---|---|
| **Question(s):** | 2/17 and 3/17 | Geneva, 11-20 April 2011 |

**Ref. : TD 1729 Rev.4**

**Source:** ITU-T Study Group 17 (Geneva, 11-20 April 2011)

**Title:** Liaison on IPv6 security issues

## LIAISON STATEMENT

**For action to:**

**For comment to:** ITU IPv6 Group , Dedicated Group on International Internet Public Policy issues, IETF SEC area

**For information to:**

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

**Deadline:**

**Contact:** A. Kremer
Chairman of ITU-T Study Group 17
Email: kremer@rans.ru

**Contact** Koji Nakao
Vice-Chairman of ITU-T Study Group 17
Email: ko-nakao@kddi.com

ITU-T Study Group 17 (Question 2 “Security architecture and framework” and Question 3 “Telecommunications information security management”) has established two new work items on “Security Management Guideline for implementation of IPv6 environment in telecommunications organizations” and on "Technical security guideline on deploying IPv6". The **Annex** contains the summaries of new work items.

The purpose of this liaison statement is to share with you the existence of these work items at this early stage. As the work progresses ITU-T SG 17 will keep you informed on the developments and would welcome any views that you have.

# Annex

## **X.ipv6-secguide,***Technical security guideline on deploying IPv6*

Summary:

IPv6 is intended to provide many built-in benefits such as large address space, mobility, and quality of service (QoS), because it is a new protocol and operates in some different ways than IPv4, both foreseeable and unforeseeable security issues will arise. Many new functions or requirements of IPv6, i.e., automatic configuration of interfaces, mandatory IPsec, mandatory multicast, multiple IP addresses and many new rules for routing, can be abused for compromising computer systems or networks.

Considering the above circumstance, this Recommendation provides a set of technical security guides for telecommunications organizations to implement and deploy IPv6 environment. This Recommendation focuses on how to securely deploy network facilities for telecommunications organizations and how to ensure security operations for IPv6 environment.

## **X.mgv6,** *Security management guideline for implementation of IPv6 environment in telecommunications organizations*

Summary:

This Recommendation provides a set of information security management guides for telecommunications organizations to develop and implement IPv6 telecommunication environment. The Recommendation focuses on network facilities for telecommunications organizations, the necessary security controls and implementation guidance for IPv6 implementation as an extension of Recommendation ITU-T X.1051.