



# **Technical Meeting on Network and Communication Systems for Radiation Detection Equipment Used for Nuclear Security**

**IAEA Headquarters  
Vienna, Austria**

**12 - 14 April 2023**

**Ref. No.: EVT2206112**

## **Information Sheet**

### **Introduction**

The implementation of effective nuclear security regimes (protection, detection, and response) often require the secure, reliable, and timely communication of radiation detection data. This data can then be used to exercise command and control over the data received from the field, and through analysis of the data transform it into actionable information. To support the implementation of secure and sustainable networks and communication systems, the Member States need information on system design, availability, and best practices. The IAEA has developed the Mobile Integrated Nuclear Security Network (M-INSN) to support a wide range of radiation detection operations in unconstrained environments such as major public events (MPEs) or wide area searches. M-INSN is also intended to support Member State awareness of the health and location of their handheld and portable radiation detection equipment. The M-INSN will enable the secure distribution and analysis of nuclear security detection information between the relevant end-users designated by a Member State for implementation of the Member State's nuclear security detection activities. The M-INSN will be provided and maintained by the International Atomic Energy (IAEA) for free use by its Members. All property rights of the developed software and associated products shall belong to the IAEA. The M-INSN is planned as an open source software that will support innovations and additional features provided by users to enhance their nuclear security operations. The enhancements to M-INSN, as well as any other system, require specifications, incorporation of lessons learned, and consideration of emerging threats and technology.

## **Objectives**

The objective of the technical meeting is to develop an understanding of the operational, security, and policy/legal requirements and needs regarding networks and communication systems used for nuclear security and involving radiation detection systems. Specifically to be addressed in the meeting is the IAEA's Mobile-Integrated Nuclear Security Network (M-INSN) - a secure network and communication system developed by the IAEA for Member State use. The implementation of effective nuclear security regimes requires secure, reliable, and need based systems such as M-INSN. Member States need guidance, lessons learned and best practices on the design, specifications, testing, sustainment, and use of network and communication systems such as M-INSN.

## **Target Audience**

Member State experts and official involved in the use, design, and sustainment of nuclear security networks and communication systems that include transmission of radiation detection data. Emphasis on those with IT, network administration, and software engineering backgrounds, in addition to experts in the use and operation of radiation detection equipment for nuclear security.

## **Working Language**

English

## **Structure**

The event programme will take place over three full days, consisting of morning plenary sessions on specific topics related to Network and Communication Systems and afternoon working group sessions on focused sub-topical areas.

## **Topics**

The topics covered in the Technical Meeting will include but are not limited to:

- Network Availability and Constraints in Operations
- Advanced Wireless Capabilities and Radiation Detection

- Data Transmission and Needs
- Implications on Real-Time Analysis Capabilities
- Computer & Network Security
- IT Support & Needs
- Procedures, Policies, & Standards for Network and Communications.

## Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **27 January 2023**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by above deadline.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate.

## Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made using the **Grant Application Form (Form C)** which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **27 January 2023**.

## Venue

The event will be held at the Vienna International Centre (VIC) where the IAEA's Headquarters are located. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page:

<https://www.iaea.org/events>.

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

## Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

## Additional Requirements

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed.

Participants who wish to give presentations are requested to submit an abstract of their work. The abstract will be reviewed as part of the selection process for presentations. The abstract should be in A4 page format, should extend to no more than 1 page (including figures and tables) and should not exceed 300 words. It should be sent electronically to Ms. Kelly Jenkins, the Scientific Secretary of the event (see contact details below), not later than **27 January 2023**. In addition, participants have to submit the abstract together with the Participation Form (Form A) to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or their organization for onward transmission to the IAEA not later than **27 January 2023**.

Authors will be notified of the acceptance of their proposed presentations by **3 February 2023**.

## Organization

### Scientific Secretary

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### Administrative Secretary

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.