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| The International Teleocmmunication Union - Connecting the World. | **国 际 电 信 联 盟****电信标准化局** |  |
|  | 2023年8月17日，日内瓦 |
| **文号：** | **电信标准化局第131号通函****SG13/TK** | **致：**– 国际电联各成员国主管部门；**抄送：**– ITU-T部门成员；– ITU-T第13研究组部门准成员；– 国际电联学术成员；– ITU-T各研究组正副主席；– 电信发展局主任；– 无线电通信局主任；– 区域性电信组织：非洲电信联盟（ATU）、亚太电信组织（APT）、欧洲邮电主管部门大会（CEPT）、美洲国家电信委员会（CITEL）、阿拉伯国家联盟（LAS）和区域通信联合体（RCC）。 |
| **电话：** | +41 22 730 5126 |
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| **事由：** | **有关发展中国家使用卫星通信的调查问卷** |

尊敬的先生/女士：

ITU-T第3/13工作组（有关未来网络的第13研究组）于上一次会议（2023年7月26日，日内瓦）同意分发关于发展中国家使用卫星通信的调查问卷。这份调查问卷主要面向发展中国家成员国，但是鼓励所有成员国作出回应。

第13研究组第5/13号课题（在发展中国家应用未来网络和创新）正在就发展中国家卫星通信的用例制定增补。

这项调查将有助于收集有关发展中国家卫星通信的使用、要求、标准化、机遇和挑战的数据，以确定可通过标准解决的问题，并提出一些可在这些国家加速卫星使用的原则。对该问卷的答复进行分析，收集发展中国家卫星通信使用和要求方面的经验将为该增补提供良好基础。

我谨邀请贵方参加本次调查。如贵方能于**2023年10月10日**前填妥本函**附件1**中的调查表，我将不胜感激。然而，请注意，为了更有效地整合和分析问卷回复，我们要求使用此在线调查问卷：[https://www.research.net/r/satellite\_communications](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.research.net%2Fr%2Fsatellite_communications&data=05%7C01%7Ctsbsg13%40itu.int%7Cd5e0ed1dc3ab4bf97ad008db8f53a132%7C23e464d704e64b87913c24bd89219fd3%7C0%7C0%7C638261361581176482%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=bXQ%2BAkQnSiT102i2ZsTkzr9qNWj6V0f20cHaN3GqC0E%3D&reserved=0)。如果使用线上问卷有困难，可以使用附件1中问卷。

我谨在此对贵方参与调查预致感谢。我们非常珍视您的宝贵意见。

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**附件：** 1件

**ANNEX 1
Questionnaire on Use of Satellite Communications by Developing Countries**

Responder’s information

|  |  |
| --- | --- |
| Country: |   |
| Sector: |   |
| Organization: |   |
| Name: |   |
| Title: |   |
| Address: |   |
| Telephone: |   |
| Fax: |   |
| E-Mail: |   |

**1- Usage of satellite communications**

**1.1** Are there satellite communications services currently been provided in your country?

[ ]  Yes

[ ]  No, but on the roadmap

[ ]  No

**1.2** Which use case is the most using satellite communications in your country?

[ ]  There is no land-based network in specific region (such as ocean, sea, desert, deep mountain, deep forest and polar region)

[ ]  The data rate of land-based network is not enough (such as remote village, remote settlement, ecoregion and small isle)

[ ]  The capacity (volume) of land-based network is not enough (such as remote IoT, remote industrial network and remote vehicular network)

[ ]  There is no land-based network of the serving operator (such as domestic roaming, international roaming and global communications)

[ ]  There are requirements to use satellite communications for emergency communications

[ ]  Other (please specify):

[ ]  Not used

[ ]  Do not know

**1.3** Are there requirements for using satellite communications in your organization?

[ ]  Yes

[ ]  No, but foreseeable

[ ]  No

**1.4** How important is the use of satellite communications for your organization?

[ ]  Mission-critical

[ ]  Important

[ ]  Quite important

[ ]  Least important

[ ]  Not needed

**1.5** Have your organization already used satellite communications?

[ ]  Yes

[ ]  No, but planning to use

[ ]  No, not on our technology roadmap

**2- Requirements of satellite communications**

**2.1** Which types of services are required for satellite communications in your country (one or multiple choices)?

[ ]  Voice service

[ ]  Video service

[ ]  Message service

[ ]  Data service (data traffic)

[ ]  Broadcast/multicast service

[ ]  Multi-access edge computing service

[ ]  Vertical industry service

[ ]  Domestic/international roaming service

[ ]  Global communications service

[ ]  Other (please specify):

**2.2** Which types of satellites are required for satellite communications in your country (one or multiple choices)?

[ ]  Low Earth Orbit

[ ]  Medium Earth Orbit

[ ]  Geostationary Earth Orbit

[ ]  Highly Elliptical Orbit

**2.3** Which types of terminal equipment are required for satellite communications in your country (one or multiple choices)?

[ ]  Handset terminal

[ ]  Portable terminal

[ ]  Vehicular terminal

[ ]  Satellite earth station/satellite gateway

[ ]  Other (please specify):

**2.4** Which types of network capabilities are required for satellite communications in your country (one or multiple choices)?

[ ]  Hybrid network (land-based network and satellite-based network integration)

[ ]  Multi-access convergence (fixed, mobile and satellite convergence, FMSC)

[ ]  Service continuity

[ ]  Quality of service (QoS)

[ ]  Network slicing

[ ]  Multi-access edge computing

□ Artificial intelligence (AI) / machine learning (ML)

[ ]  Distributed ledger technology (DLT)

[ ]  Capability exposure

[ ]  Network sharing

[ ]  Other (please specify):

**3- Standardization of satellite communications**

**3.1** Which standards development organizations (SDOs) on satellite communications you have good knowledge of (one or multiple choices)?

[ ]  ITU-T

[ ]  ITU-R

[ ]  3GPP

[ ]  ETSI

[ ]  IETF/IRTF

[ ]  Other (please specify):

**3.2** Which SDOs on satellite communications you have participated in, including attending a meeting and/or submitting a contribution (one or multiple choices)?

[ ]  ITU-T

[ ]  ITU-R

[ ]  3GPP

[ ]  ETSI

[ ]  IETF/IRTF

[ ]  Other (please specify):

**3.3** Which areas of standardization do you consider important for satellite communications?

[ ]  Use cases

[ ]  Requirements

[ ]  Framework/Architecture

[ ]  Network capabilities

[ ]  Enabling technologies

[ ]  Service enhancements

[ ]  Management and orchestration

[ ]  Security and privacy

[ ]  Energy efficiency

[ ]  Other (please specify):

**4- Opportunities & Challenges of satellite communications**

**4.1** What are the opportunities of satellite communications in your country?

**4.2** What are the challenges of satellite communications in your country?

*Thank you for your active participation in this survey!*

If you have questions, please, contact us at tsbsg13@itu.int.

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