



STARLINK

Road to WRC27

IAFI National Workshop – 22 Feb 2024

A few words on EPFD, Direct-to-device communications and Space Sustainability



STARLINK

Internet from Space for Humans on Earth



SPACEX STARLINK

138+

TOTAL LAUNCHES

80+

COUNTRIES+
TERRITORIES

5,800+

STARLINK SATELLITES
LAUNCHED

2.3M

HOUSEHOLDS &
ENTERPRISES ONLINE

150+

MBPS DOWN

<50

MS LATENCY



Studies on EPFD – An opportunity to revise outdated, inefficient limits to benefit global citizens

WRC23 agreed on the following text, which was included in the Minutes of the Plenary:

WRC-23 invites ITU-R to conduct technical studies on the epfd limits in Article 22, including the epfd limits referred to in No. 22.5K, in order to ensure the continued protection of GSO FSS and BSS networks, and to inform WRC-27 of the results of the studies, without any regulatory consequences. This work should not be submitted under agenda item 9.1.

- These studies will demonstrate that:
 - 1) Current limits are inefficient
 - 2) There are more efficient frameworks that enable the continued growth of satellite services – **both** GSO and NGSO
- **Protections for GSOs** will continue to be the fundamental principle in the studies and discussion of EPFD limits.
- The Radio Bureau will report the results of the studies to WRC27 with the opportunity to **propose and adopt changes to the Radio Regs at WRC27**

SpaceX is thrilled at these developments and will proactively contribute to these studies.

Direct-to-device – Communicate wherever and whenever

AI 1.13: to consider studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage

- The work under this agenda item will result in harmonized provisions for direct-to-device communications, a service that complements that of existing terrestrial operators and that will have a tremendous impact around the world, helping people communicate wherever and whenever they want or need to...
- **Technology is here today...**
 - SpaceX launched the first six satellites with direct-to-device capability on 2 January 2024, with texts successfully sent and received.
 - Administrations around the world are recognizing the potentially life saving benefits of direct to device.
- To ensure success, these studies should:
 - consider all IMT bands and should aim at **determining suitable provisions in the entire frequency range under study** – operators need the maximum flexibility to offer the best possible service globally
 - take into account realistic operational parameters of the systems that are starting to implement the service around the world



Space Sustainability – Bringing real-world expertise

- Resolution ITU-R 74 adopted by the 2023 Radio Assembly instructs the relevant Study Groups to, ***“Develop a new Recommendation providing guidance on safe and efficient deorbit and/or disposal strategies and methodologies for NGSOs”***
- SpaceX is deeply committed to protecting human spaceflight and ensuring sustainable future missions to orbit and beyond
- SpaceX has invested significant resources to ensure that all launch vehicles, spacecraft, and satellites meet or exceed space safety regulations and best practices
- ***SpaceX will proactively contribute to ensuring a successful outcome of this work***

THANK YOU

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