QUESTION ITU-R 253/5[[1]](#footnote-1)

Fixed service use and future trends

(2012)

The ITU Radiocommunication Assembly,

considering

*a)* that the fixed service has evolved over the years and there is continuing evolution both in terms of the technology and applications including the use of high capacity fixed wireless systems;

*b)* that this evolution in fixed service technology and requirements is leading towards changes in network architectures, capacity and bandwidth requirements;

*c)* that exploitation of the higher frequency bands, e.g. higher millimetre wave bands, is important as one of the measures to address these new changing requirements;

*d)* that these changes may require further spectrum management and regulatory considerations in order to address these new requirements;

*e)* that there is a requirement for up to date guidance and information on the medium and long term spectrum vision, including key drivers and trends in the fixed service;

*f)* that such guidance would greatly assist administrations, manufacturers and telecom operators in a range of spectrum management discussions;

*g)* that the exponential growth in mobile broadband traffic is placing increasing demand on the fixed service backhaul infrastructure;

*h)* that backhaul and relay links for nomadic wireless access systems can be provided by a variety of technologies,

decides that the following Question should be studied

What are the key trends and drivers of technologies and applications for the fixed service across the different FS bands over the 2024-2027 period and beyond, taking into account:

− deployment scenarios, propagation considerations, technology developments, capacity and spectrum requirements;

− the use of the higher millimetre wave frequency bands (e.g. above 60 GHz);

− the technical and operational requirements for fixed wireless systems operating in the higher millimetre wave bands, including high capacity, e.g. Gigabit-class, links?

further decides

1 that the results of the above studies should be included in new and/or revised Reports/Recommendations as appropriate;

2 that initial results of the above studies should be completed by 2027.

Category: S2

1. In the year 2023, Radiocommunication Study Group 5 extended the completion date of studies for this Question. [↑](#footnote-ref-1)