QUESTION ITU-R 235/1[[1]](#footnote-1)

Spectrum monitoring evolution

(2011)

The ITU Radiocommunication Assembly,

considering

*a)* that spectrum monitoring is a key element of spectrum management;

*b)* that radiocommunication technologies and systems are in a constant and rapid evolution;

*c)* that, among other technologies, the impact of software-defined radio and cognitive radio systems on spectrum monitoring needs to be studied;

*d)* that any evolution of spectrum monitoring activities impacts administrations;

*e)* that the ITU-R Recommendations and Reports in the SM Series, as well as the ITU Handbook on spectrum monitoring provide extensive information on spectrum monitoring of existing radio communication technologies and systems;

*f)* that the existing spectrum monitoring systems (including fixed, mobile and transportable stations) may need to be assessed with respect to their capability for monitoring new radiocommunication technologies and systems;

*g)* that the improvement in spectrum monitoring equipment enhances the efficiency and effectiveness of the spectrum management process;

*h)* that the increasing amount of collected spectrum data may require adaptation of the organisation and spectrum monitoring techniques,

decides that the following Questions should be studied

1 What are the new considerations for monitoring of radiocommunication systems that are based on new technologies?

2 What are the new approaches that may be required in terms of organisation, procedures and equipment to monitor systems based on future radiocommunication technologies?

3 What are the needs for administrations in order to implement the new approaches to monitor systems based on future radiocommunication technologies?

further decides

1that the results of the above studies shall be included in (a) Recommendation(s) and/or (a) Report(s);

2that the above studies should be completed by 2027.

Category: S3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In the years 2015, 2019 and 2023, Radiocommunication Study Group 1 extended the completion date of studies for this Question. [↑](#footnote-ref-1)