QUESTION ITU-R 250-1/5[[1]](#footnote-1)

Mobile wireless access systems providing telecommunications for a large number of ubiquitous sensors and/or actuators scattered over wide   
areas as well as machine to machine communications   
in the land mobile service

(2009-2012)

The ITU Radiocommunication Assembly,

considering

*a)* that rapid advances are being made in wireless telecommunications to link sensors and/or actuators in various environments;

*b)* that sensors and/or actuators for wireless telecommunications should be simple, small, inexpensive and have low power consumption to realize the ubiquitous network society;

*c)* that there are emerging applications that handle small amounts of data, such as measurement data, location information and object control signals;

*d)* that the application of wireless sensor and/or actuator telecommunications as well as machine to machine communications may provide service to a large coverage area and a large variety of objects on a cell-by-cell basis due to the traffic characteristics of such applications stated in item c) above;

*e)* that mobility should be offered for wireless sensor and/or actuator telecommunications as well as machine to machine communications;

*f)* that wireless sensor and/or actuator telecommunications as well as machine to machine communications can take place in non-line-of-sight conditions;

*g)* that it is desirable to identify the typical characteristics for the mobile wireless access systems used for sensor and/or actuator telecommunications as well as machine to machine communications in the land mobile service;

*h)* that wireless access systems used for sensor and/or actuator telecommunications as well as machine to machine communications may also be used in nomadic and/or fixed applications,

decides that the following Questions should be studied

1 What are the technical and operational characteristics of land mobile wireless access systems that will be used to provide telecommunications to large numbers of sensors and/or actuators scattered over wide areas?

2 What are the technical and operational characteristics of land mobile wireless access systems that will be used to provide machine to machine communications?

further decides

1 that the results of the above studies should be included in one or more Recommendations, Reports or Handbooks;

2 that the above studies should be completed by 2027.

Category: S2

1. In the year 2019, Radiocommunication Study Group 5 extended the completion date of studies for this Question. [↑](#footnote-ref-1)