Response of AIRBUS DS SLC to the Call for Comments on “Draft Opinion on the Spectrum Aspects of the Internet-of-things (IoT) including M2M” RSPG 16-045

AIRBUS DS SLC agrees globally on the draft opinion expressed by RSPG on IoT spectrum aspects. AIRBUS DS SLC would like to particularly insist on NB-IoT for PMR and PPDR applications and services.

PPDR and PMR duplicated the radio Mobile success of GSM for Public Safety and professional applications. The characteristic of PMR and PPDR is the capability to take into account the critical functionalities and services for the missions of professionals in specific frequency bands.

Applied to PMR and PPDR, IoT can enable new services such as Iot connectivity.

e.g. :

· Connectivity of different objects around a handheld or a vehicle-mounted terminal enabling the collection of some information through PMR or LTE network and/or to a dispatcher;

· Individual sensors carried by a Public Safety officer;

· Sensors installed in buildings to which first responders can connect (e.g. firemen) during an operation;

· Sensors for intelligent management of energy distribution networks and critical transport infrastructure (SCADA applications)

IoT can also offer optimally and in a spectrally efficient manner already existing PMR and PPDR services and functionalities:

· NB-IoT technology is well fitted for the transmission a large number of flows each of them carrying low or very low data rate (e.g. for Public Safety: geolocation, status, short messages,…)

· NB-IoT technology could be well fitted for coexistence between broadband services and speech services (these ones being carried in a narrowband channel in the limited spectrum allocated to Public Safety.

· NB-IoT would also offer medium rate data transmission services in an efficient manner.

A future combined (BB LTE + NB IoT) network could in medium term cover all the different current PMR and PPDR services and provide new services to professionals in an integrated manner.

A real interest exists for the future introduction in the regulation for PPDR and PMR of NB-IoT in the bands allocated today and in the future to PPDR and PMR services notably in the 400 MHz bands.

Proper studies will be necessary in order to ensure the coexistence with other services in and around these bands.