




DoT-TSDSI Micro Workshop Series Advancing 5G Towards 6G

#Workshop 2

Studies related to 'Technology and Systems'

 **January 20, 2023**

 11:00 AM to 12:30 PM IST



DoT-TSDSI joint workshop series on 'Advancing 5G towards 6G' aims to disseminate information about 3GPP Release 19 technology areas and timelines to the Indian technology ecosystem. The goal is to mobilize Indian Industry technologists and Academic researchers to actively participate and contribute to the ongoing and future work at 3GPP.

The second micro-workshop in the series will focus on the 3GPP Studies related to 'Technology and Systems'.

Schedule: January 20, 2023; 11:00 AM to 12:30 PM IST

Venue: Online

Participation: Open to all by prior registration at [link here](#)

About this micro workshop:

The advent of 5G has brought forth the convergence of several diverse technologies and systems in an unprecedented manner that had never happened in previous generations. However, the ongoing deployment of 5G cellular systems is continuously exposing the inherent limitations of this system, compared to its original premise as an enabler for the Internet of Everything applications. These drawbacks are spurring worldwide activities focused on defining foundational work that can become part of the next generation (6G) wireless system that can genuinely integrate far-reaching applications. This workshop touches upon these topics – viz. AI/ML integrated sensing and communication, ambient intelligence, and intelligent traffic steering. The following Release 19 study items shall be discussed in this workshop:

Integrated Sensing and Communication (FS_Sensing) This study focuses on the use cases and potential requirements for enhancement of the 5G system to provide sensing services addressing different target verticals/applications like autonomous/assisted driving, V2X, UAVs, 3D map reconstruction, smart city, smart home, factories, healthcare, maritime sector.

Study of Network of Service Robots with Ambient Intelligence (FS_SOBOT) This study focuses on use cases and aspects related to efficient communications service and cooperative operation for a group of service robots that are relevant to support stable operation.

Study on Upper Layer Traffic Steering, Switching, Splitting over Dual 3GPP Access (FS_DualSteer) This study focuses on use cases, gap analysis and potential service requirements related to 5GS support of enhanced mechanisms for steering, splitting and switching of user data, pertaining to a UE data session, across two 3GPP networks.

Study on AI/ML Model Transfer (FS_AIML_MT_Ph2) This topic captures the study of the use cases and the potential performance requirements for 5G system support of Artificial Intelligence (AI)/Machine Learning (ML) model distribution and transfer and identifies traffic characteristics of AI/ML model distribution, transfer and training for various applications.