

ETSI and WinnForum join for new White Paper on Spectrum Sharing for Local Private Networks

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[/EINPresswire.com/](https://einpressewire.com/) -- In a joint effort to promote spectrum sharing approaches for specific use cases, ETSI and The Wireless Innovation Forum (WinnForum) have developed a joint whitepaper: [Spectrum Sharing Frameworks for Temporary, Dynamic, and Flexible Spectrum Access for Local Private Networks](#). Based on the recently released ETSI Technical Report [ETSI TR 103 885](#) and WinnForum Technical Report [WINNF-TR-2011 V1.0.0](#), this international collaboration provides a status analysis of dynamic spectrum sharing use cases and frameworks, including the associated evaluation elements and opportunities to adopt these frameworks, to regulators such as the CEPT worldwide. The outcome of the analysis is being presented today at the European Spectrum Management Conference (<https://spectrummanagement.eu/>) in Brussels.



Use cases addressed in this whitepaper include audio Programme Making and Special Events (audio PMSE), wireless industrial automation, Public Protection & Disaster Relief (PPDR), and drone control and payload. All presented use cases demand high level of Quality of Service (QoS) and are limited in time and space. The document also introduces various standardized spectrum sharing frameworks that are based on data base architectures, such as Licensed Shared Access (LSA), evolved Licensed Shared Access (eLSA), Automated Frequency Coordination (AFC), and Citizens Broadband Radio Service (CBRS).

Per the paper, designing and implementing appropriate dynamic spectrum sharing frameworks would provide a solution to the current issues of scarcity and usability of spectrum in different regions of the world. Based on the most challenging characteristics extracted from all use cases, a desirable parameter set for an envisaged sharing framework is presented that suggests further

evolution of the frameworks discussed.

Taking into account the benefits and disadvantages of the various sharing procedures with respect to the use cases described authors conclude that AFC and eLSA could be possible candidates for a sharing framework that ensures incumbent protection and CBRS a starting point for a sharing solution that natively supports inter-system coordination between secondary users. Adjustments of all procedures are envisaged to make the frameworks useable for various applications. This will accommodate for specific QoS levels and the common need for automation of local ad-hoc deployment of private networks.

The next step to address the gaps mentioned in the whitepaper would be to develop envisaged adjustments for AFC, eLSA, and CBRS (adding, removing, and/or modifying features).

The whitepaper is available at https://www.etsi.org/images/files/ETSIWhitePapers/ETSI-WinnForum-WPSpectrum_sharing_frameworks_for_temporary_dynamic_and_flexible_spectrum_access_for_local_private_networks.pdf.

About ETSI

ETSI provides members with an open and inclusive environment to support the development, ratification and testing of globally applicable standards for ICT systems and services across all sectors of industry and society. We are a non-profit body, with more than 900 member organizations worldwide, drawn from over 60 countries and five continents. The members comprise a diversified pool of large and small private companies, research entities, academia, government, and public organizations. ETSI is officially recognized by the EU as a European Standardization Organization (ESO).

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About the Wireless Innovation Forum

Established in 1996 and supported by Platinum Sponsor Thales, the Wireless Innovation Forum (SDR Forum Version 2.0) is a non-profit mutual benefit corporation dedicated to advocating for spectrum innovation and advancing radio technologies that support essential or critical communications worldwide. Members bring a broad base of experience in Software Defined Radio (SDR), Cognitive Radio (CR) and Dynamic Spectrum Access (DSA) technologies in diverse markets and at all levels of the wireless value chain to address emerging wireless communications requirements. To learn more about The Wireless Innovation Forum, its meetings and membership benefits, visit www.WirelessInnovation.org.

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