

## **NSC Member Develops a Policy and Regulatory Framework for Dynamic Spectrum Access (DSA)**

*ANDRO Computational Solutions is working to address the Government's critical need for electromagnetic spectrum superiority by developing policies towards Dynamic Spectrum Access (DSA) performance.*

ANDRO, in collaboration with its team consisting of Spectrum Bullpen, Freedom Technologies, Roberson and Associates, Spectronn, Stevens Institute, and Clarkson University is working with the Air Force Research Laboratory via the National Spectrum Consortium to create policy-based solutions that allow for DSA systems to operate in a shared or contested spectrum in the AWS-3 bands and beyond.

DSA is an attractive method of allowing for primary users and secondary users to coexist in congested environments, and also has the potential to allow for maneuvering and operating effectively in contested spectrum scenarios. Prior to this project, there were not any formalized DSA policies or rulesets enacted by the Department of Defense (DoD) that allowed for DSA systems to operate in shared or contested spectrum and to become certified or managed using a shared spectrum management tool.

Based on DoD stakeholder feedback driven from the DoD CIO supported survey, the ANDRO team generated a policy and regulatory framework for DSA called Accessible to DSA (ATD) that provides a clear goal to guide updates of processes and regulations for frequency assignment, certification, data standards and spectrum operations. With the mindset of "do no harm" to legacy or incumbent spectrum-dependent systems and the spectrum management lifecycle, they have created an end-to-end DSA spectrum management toolchain that provides generation, validation, and radio deployment of machine-readable policies.

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