Accelerating MILSATCOM Interoperability

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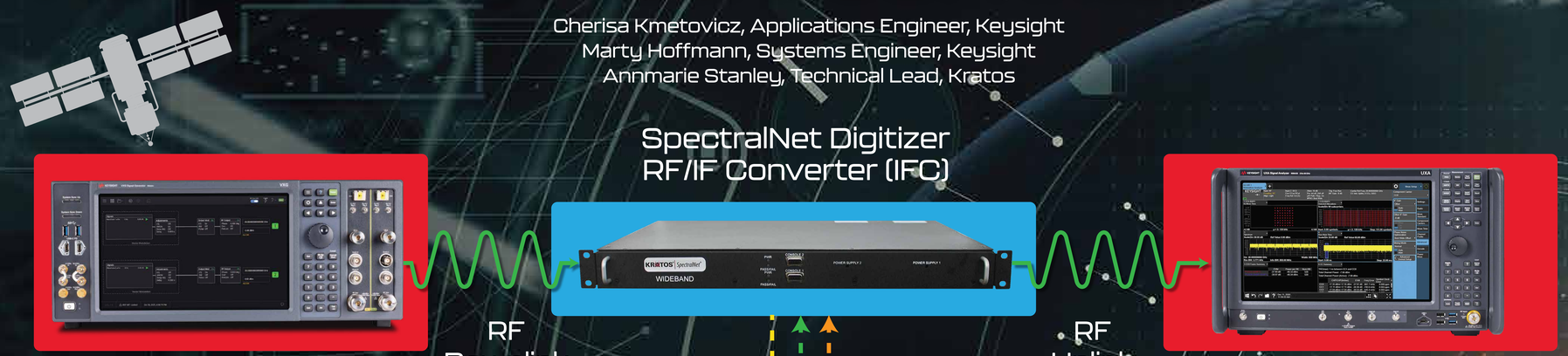

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BACKGROUND

Typical MILSATCOM system deployments rely on single vendor solutions that involve complicated and time-consuming integration work to include any other vendors.

METHODS

Leverage DIFI to interconnect a MILSATCOM system using equipment from two different vendors to demonstrate "plug & play" interoperability.

RESULTS

Digitized an RF signal into a DIFI stream using the Kratos IFC and seamlessly transported the spectrum to a Keysight VSA for accurate demodulation. Generated a DVB-S2x high-rate waveform with the Kratos virtual receiver, transported the spectrum through a network switch, and demodulated the waveform in the Keysight VSA.

CONCLUSION

DIFI establishes a robust interoperability framework, enabling rapid, seamless integration of multi-vendor systems with minimal engineering overhead. This capability accelerates operational readiness and adaptability in dynamic environments.