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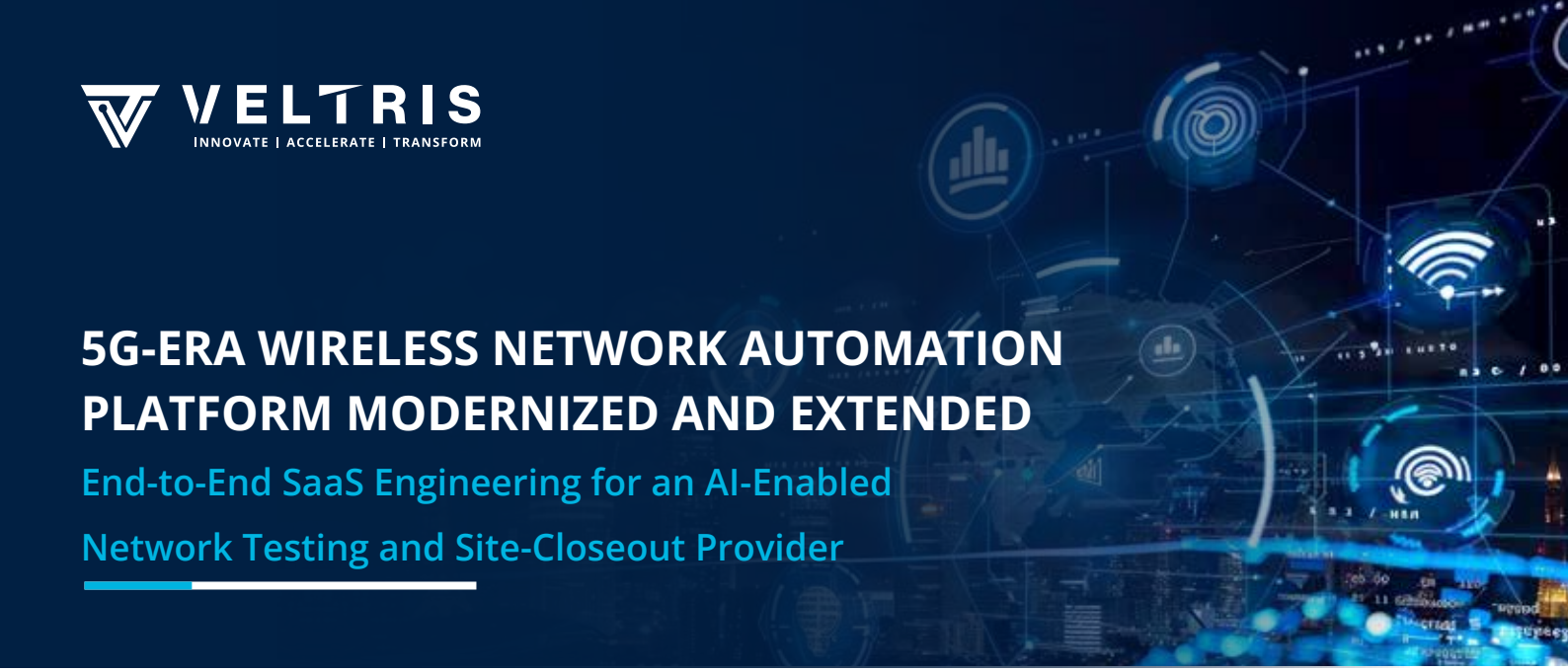

5G-ERA WIRELESS NETWORK AUTOMATION PLATFORM MODERNIZED AND EXTENDED

End-to-End SaaS Engineering for an AI-Enabled Network Testing and Site-Closeout Provider

Challenge

A wireless network automation SaaS provider served mobile, fiber, and private wireless operators with technology proven to save cycle time and improve accuracy. The legacy operator portal was a constraint — unable to support new features, modern user experience, or the field automation demands of 4G/5G deployments. A complete platform rebuild and a 5G-ready field application were needed, without disrupting customer operations.

Approach

Rebuilt the operator portal on a modern MERN stack, preserving existing functionality while introducing new features and an upgraded user experience for network operators

Engineered a 5G-ready field application enabling site-verification, O&M, and KPI debug for Open RAN radios (O-RU) — without requiring fully deployed end-to-end RAN infrastructure

Executed clean database and stack migration with disruption-free cutover, modernizing the platform end-to-end

Delivered an all-in-one field test solution spanning iDAS venues, oDAS, small cells, and macro sites — covering site-closeout, fault management, configuration, and remote support

Outcomes Delivered

Modernized a critical operator-facing SaaS platform without service disruption, unlocking new features and an upgraded experience

Equipped field engineers with a 5G-ready debug tool for Open RAN verification, accelerating 4G/5G cell site deployment cycles

Established a unified automation foundation spanning portal, field operations, and network testing across mobile, fiber, and private wireless environments

Closing

Veltris combined enterprise SaaS engineering, telecom protocol expertise, and disciplined field tooling delivery to modernize and extend a wireless network automation platform — built for the demands of 5G-era network operators.

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