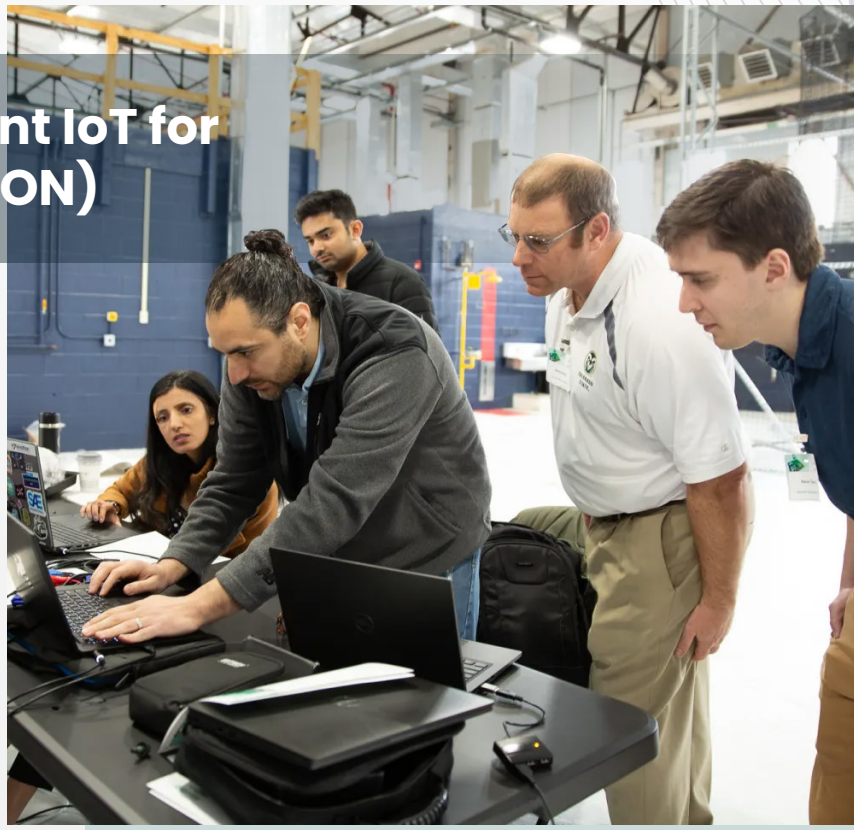
ORION

OPEN-ARCHITECTURE RESILIENT IOT FOR OPERATIONAL NETWORKS

WHAT CAN ORION DO FOR YOU?

- **PROVIDE CYBER ASSURANCE**
- **ENABLE TESTING & INTEGRATION**
- **SUPPORT DEMONSTRATION**
- **PUSH TECHNOLOGY TO TRANSITION**

Open-Architecture, Resilient IoT for Operational Networks (ORION)



ORION operates as a force in cyber assurance, integration, demonstration and transition. Our team of technical experts meticulously assess the unique needs of your organization and/or capability, delivering tailored guidance and support customized to your operational requirements.

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The Air Force Research Laboratory Information Directorate is sponsoring the ORION project, which is a collaborative effort with Assured Information Security (AIS), Quanterion Solutions Incorporated, the Griffiss Institute, NYSTEC, and Cisco.

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OPEN-ARCHITECTURE RESILIENT IOT FOR OPERATIONAL NETWORKS

THE ORION TOOLS ARE A FEATURE OF WHAT WE DO.

Cellular Test Network

Designed to facilitate seamless provisioning of SIM and eSIM cards, enabling device connectivity to a dedicated and controlled cellular infrastructure. This network infrastructure offers transparency and empowers organizations' test engineers with a comprehensive network analysis capability. Such transparency proves invaluable during cyber assurance exercises, integration trials, and demonstrations, facilitating meticulous scrutiny and optimization of network performance and security.

RF Sensor Nodes

An extension of the established open-source FISSURE framework, engineered to incorporate remote computing nodes capable of accommodating diverse radio peripherals. These nodes are adept at standalone communication or networked operations, facilitating seamless RF signal collection or injection. Moreover, their configuration is enabled through the utilization of playlists for automated execution of predefined actions during startup or over designated intervals. Key features include the ability to provision an RF testing environment with ease of modification to create highly tuned and specialized RF environments, fostering broader accessibility and exploration within the RF domain.

Automated Test Network Deployment

Rapid provisioning and dismantling of comprehensive test networks, incorporating a diverse set of operating systems and architectures. This streamlined process encompasses fast deployment of emulated firmware for embedded devices, augmented by hardware-in-the-loop integration. Configurations are dynamic, offering flexibility at the time of deployment. Built to consume high-level network block diagrams, the transition from conceptual design to tangible network implementation is seamless. Additionally, inherent network and device monitoring capabilities are enabled by default, ensuring comprehensive oversight throughout the testing lifecycle.

The ORION tools are continuously evolving; they are scalable and agile based on customer needs.

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