

5G (ENCQOR) Technology Development Challenge – OSS in a Box

Challenge Launch Date	January 15, 2019
Challenge Deadline	February 14, 2019
Challenge Statement	<p>5G will open the opportunities for new killer applications and services across a wide range of industry verticals. The 5G requirements, combined with other industry trends such as the virtualization of IT and network functions using NFV/SDN will create new business models by allowing various interacting entities (e.g., CSP, NSP, ISP, OTT, verticals, etc) to share a common ecosystem for delivering new and innovative services. To succeed in this new endeavor, operators must take a new approach to their overall operations and their Operation Support System (OSS) that provide a unified and extensible foundation to support these new verticals and technologies.</p> <p>The purpose of this project is to introduce and deliver a comprehensive and well-structured OSS system purpose-built for this new shared and cooperative digital ecosystem.</p>
Project Partner	Ciena
Timeline	2 years
Available funding	Up to \$235,000 CDN
Applicant Type	Ontario based SME
Location	Ontario
Project Details	<p>The following is a summary of the key features of this OSS-in-a-box concept:</p> <ol style="list-style-type: none"> 1. One ecosystem to support management and interactions between the business and the ENCQOR network 2. Network build out (manage the design and process to build out the 5G network) 3. Supports all functions for automated network synchronization. 4. Service delivery (catalogue driven services) and Fulfillment (provisioning to vendor EMS) 5. Real-time Service Assurance capabilities, with automated, proactive, customer service impact management 6. Interactive Partner/Customer/Enterprise Business Portal <p>It should be pointed out that the above #4 and #5 functions can be performed by external Orchestration systems under the control of the OSS-in-a-Box.</p>

	The key objective of this project is to complement the existing iPaaS tools by automating key operational & business tasks such as on-boarding new subscribers/partners, Order Management, and CRM/Billing integration.
Project Goals/ Outcomes	We would like to work with an SME to develop and deploy a “Commercial Portal” as a multi-tier portal available to all ENCQOR stakeholders. Overlay with Ciena MDSO and Ericsson Orchestration systems for end-to-end view and control. Implement and automate subscriber’s on-boarding and order management (e.g., NFV) using Workflow & Business Orchestration features.
Applicant Capabilities	<p>SME with deep knowledge of the Telecom industry operations and a proven software platform to support the following key features:</p> <ol style="list-style-type: none"> 1. Multi-Tier secure Web Portal to allow all stakeholders to share a common ecosystem for all business interactions & transactions 2. Active Inventory System for both planning and network discovery data supporting Ciena platforms <p>The required software framework must have been deployed in a major Telecom Service Provider’s IT environment either in production or a successful proof of concept.</p>
Additional Information	None