DATA-CENTRIC C2

Increasing Joint Force lethality

INCREMENTAL MODERNIZATION WITH RC2E

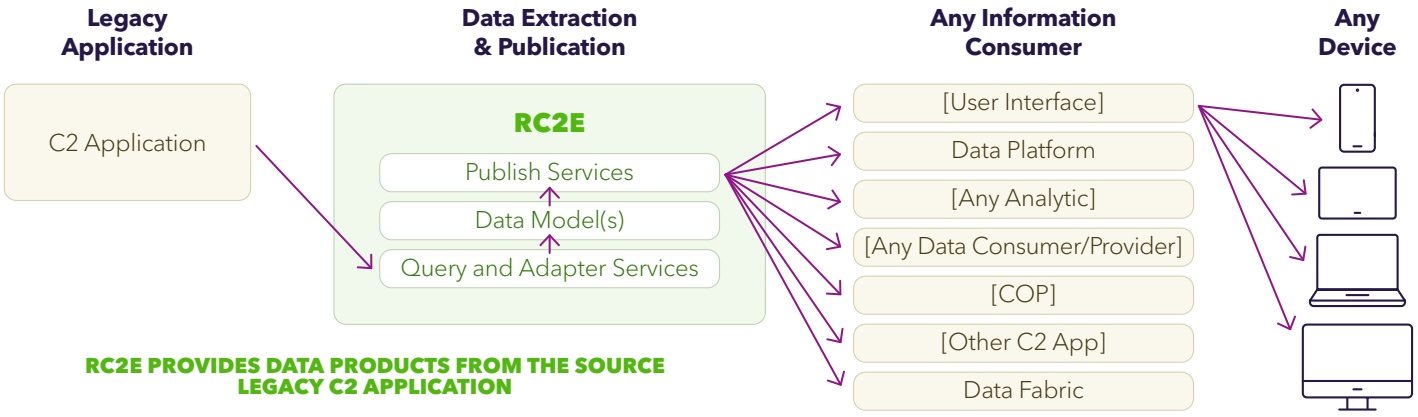
To eliminate inefficiencies, duplication of efforts, manual processes, and latencies, Joint Forces need a tested bridging strategy and iterative fielding approach from the current network-centric infrastructure to the next generation, data-centric C2 ecosystem. Using bolt-on Rapid Command and Control Enhancement (RC2E) microservices that reside in the Army's Tactical Data Platform, commanders will have access to information that will allow them to make better decisions with increased speed and accuracy.

RC2E microservices were developed in collaboration with joint, multi-national military partners and experts in cloud, DevSecOps, AI/ML, MOSA, RMF, UDRA, and acquisition to enable continuous, evolutionary capability enhancement across C2 applications and systems. Harnessing computing at the tactical edge, RC2E microservices extend, translate, connect, process, monitor, and display data from/to any authorized information consumer or system.

Because RC2E microservices are lightweight, containerized, and independently deployable, they can be assembled, managed, and controlled to support a specific mission, significantly reducing time between requirement and delivery. This provides iterative, incremental, and continuous modernization without proprietary, high-cost capability drops.

A BRIDGE TO DATA CENTRICITY

Exercised extensively at Project Convergence Capstone 4 (PCC4) to meet challenges posed by Large Scale Combat Operations (LSCO), RC2E microservices enable data-centricity today using current C2 systems.



RC2E CAPABILITIES

CAPABILITY	WARFIGHTER BENEFIT
Collective data stewardship	Microservices promote the data an information offered by the domain owner; each warfighting function is responsible for publishing/validating information surfaced by microservices.
Data ethics	Data/information with clearly defined sources and ownership responsibility reduces grey zones of responsibility.
Data collection	RC2E extracts and presents data from the source that has utility beyond the sources. Any data collected has assured provenance. Systems can be optimized to reduce duplicative/conflicting data.
Enterprise-wide data access and availability	Once data is published it is available to any authorized consumer.
Data for artificial intelligence training	Data surfaced through microservices has assured provenance, applicability, quality, and periodicity. These characteristics enable Trusted Mission AI and ML models to train on high-quality data.
Data for purpose	Data/information published in accordance with subscriber's requirements.
Data for compliance	Curated, published data with assured provenance can accurately recreate actions, activities for forensic analysis.

WHY PARTNER WITH LEIDOS

Applying insight from our team's Soldiers, Airmen, and Marines, adopting innovations from internal research and CRADA with the U.S. Army, and collaborating with industry-leading technology partners, Leidos continues to pioneer fires modernization with the combination of cloud at the tactical edge and emerging sensor data fusion technologies. We stand ready to help our warfighters, allies, and partners gain the decision advantage necessary to accomplish any mission, anywhere.

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