



CLOUDERA

WHITEPAPER

Cloudera's Role in Supporting Joint All-Domain Command and Control

Joint All-Domain Command and Control (JADC2) relies on secure data integration and real-time intelligence sharing.



JADC2 looks to equip warfighters with the information needed to deter and defeat adversaries. However, good operational decision-making relies on a complete view of what's happening now. Without trustworthy information, military leaders may be forced to make informed guesses, increasing the risk of critical missteps. In today's complex landscape of modern military operations, assumptions can lead to significant consequences. JADC2 looks to reduce the amount of guesswork by creating a [single source of truth](#) for the Joint Forces.

"If you walk the decision back, it starts with edge data collection and the ability to operate in denied, disrupted, intermittent and limited environments," said Rob Carey, president of Cloudera Government Solutions Inc. "That's what helps us stay ahead of near-peer competitors and asymmetric threats — the ability to integrate all source data in near-real time to produce a result that commanders can use as they perform their jobs."

Locating relevant information in today's data landscape is no simple task. Individual warfighters often traverse numerous systems in order to find the data they need. JADC2 aims to streamline this data discovery process

by creating an integrated approach to navigating a fragmented data environment by enabling rapid data access and analysis to support mission-critical decision-making.

Central to this idea of access and analysis is data veracity. Warfighters need trusted data at scale in order to make more informed decisions, and through unified platforms like [Cloudera's Shared Data Experience](#) (SDx), they can.

"What we've done with SDx is use a security platform that enables the identity of the accessor to reach around and only they can touch the data that's being accessed by our [Cloudera Data Platform](#) (CDP)," said Carey. "Once you've reached out, found the data and brought it into your data estate, you need to know the provenance of that data and where it came from. You need to know where it came from and that you can trust it, as you start running analyses on it."

By establishing data provenance and leveraging emerging technologies to validate the source, lineage and reliability, Combatant Commanders drive strategic and tactical insights and leave the guesswork on the cutting-room floor.

Scaling to meet the mission

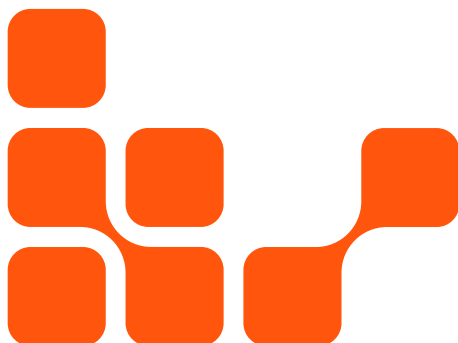
Strategically addressing the core promise of JADC2 starts with unprecedented scale – something Cloudera is no stranger to.

“We manage 26 exabytes of information around the globe. Our ability to ingest, manage and analyze large quantities of data separates us from our competitors,” said Carey.

The platform’s key differentiators — flexibility, security and provenance — are critical to JADC2’s vision of creating a seamless, interconnected information battlefield where the fundamental goal is to dynamically shift data from the cloud to the warfighter so they can access and analyze information wherever and whenever needed.

SDx excels at collecting and consolidating edge data from diverse and distributed sources, and by bringing this information into a centralized, analytically rich environment. For example, if a skirmish occurs on the border of Pakistan and India, CENTCOM and INDOPACOM will generate thousands of data points. Scaling to support this data requires the secure ingest, management and sharing of data points between two regions. While other platforms may struggle to keep pace, CDP integrates all data points referenced, making data accessible and actionable at the mission’s edge.

Secure insights at mission speeds.

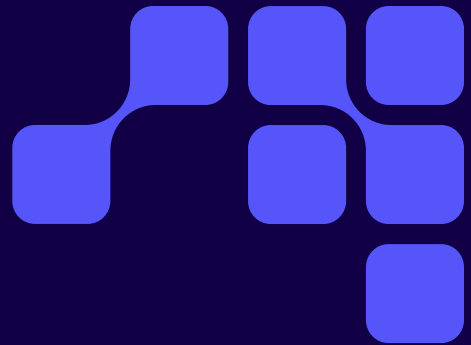


The appearance of U.S. Department of Defense (DoD) visual information does not imply or constitute DoD endorsement

About Cloudera

Cloudera is the only true hybrid platform for data, analytics, and AI. With 100x more data under management than other cloud-only vendors, Cloudera empowers global enterprises to transform data of all types, on any public or private cloud, into valuable, trusted insights. Our open data lakehouse delivers scalable and secure data management with portable cloud-native analytics, enabling customers to bring GenAI models to their data while maintaining privacy and ensuring responsible, reliable AI deployments. The world's largest brands in financial services, insurance, media, manufacturing, and government rely on Cloudera to be able to use their data to solve the impossible—today and in the future.

To learn more, visit [Cloudera.com](https://cloudera.com) and follow us on [LinkedIn](#) and [X](#). Cloudera and associated marks are trademarks or registered trademarks of Cloudera, Inc. All other company and product names may be trademarks of their respective owners.



CLOUDERA

Cloudera, Inc. | 5470 Great America Pkwy, Santa Clara, CA 95054 USA | cloudera.com