Tuesday, June 25, 2024

11:40 AM - 12:00 PM

Data Management and Future Network Operations with AI/GenAI/ML

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Abstract:

DISA operates one of the largest network infrastructures in the world supporting critical missions and operations globally.

The threat landscape is rapidly changing, and the network needs to be responsive and agile to provide network services where and when it is needed.

The integration of Artificial Intelligence (AI) into network operations and planning can significantly enhance the responsiveness and agility of the network, making it more capable of adapting to changing needs and threats.

Developing effective artificial intelligence and advanced analytics is dependent upon high-quality Data Management as the foundation.

Dean Brewster with Ciena, will discuss how large network operators employ Ciena's extensive experience in networking and software development to assist with collecting, organizing, validating, and transforming the information about the network into a scalable and reliable source for future artificial intelligence.

This session will share insights on Data Management in the commercial networking industry and Ciena's own journey within the ML/AI/GenAI areas.

Ciena's experience in this area has led to the development of a platform that integrates and normalizes network data into data sets and creates a vendor agnostic, standards-based extensible datastore. This platform and the analytics developed enables Ciena to provide services to network operators for complex tasks such as network transformation of legacy technologies, fully utilizing existing equipment, and capacity planning all made possible by effective network data management.