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(57) Abstract :

Disclosed is a convoy vehicle identification and authentication system (100) for determining friend or foe status of approaching vehicles in a defense sector, includes a Base Station module configured to register and authenticate convoy vehicles by generating unique encrypted identification (ID) for each vehicle and storing registration details in a blockchain architecture, a Private Blockchain module for facilitating decentralized data storage and sharing of authentication records, mission details, and Lists of Mission (LOM) and Deviated (LOD) convoy vehicles, an Comparison module for analyzing authentication data, mission details, and real-time location information, determining the friend or foe status of approaching vehicles based on the analyzed data, and a Path Detection module within the Base Station module, tracking convoy vehicle paths and updating the List of Deviated (LOD) convoy vehicles based on real-time location data.

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