**VEHICLE TRACKING SYSTEM WITH**

**ACCIDENT DETECTION**

**ABSTRACT:**

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In the modern era of smart transportation, Vehicle Tracking Systems (VTS) have gained significant importance in enhancing vehicle safety, efficiency, and overall management. This paper presents an advanced VTS that incorporates Accident Detection as an additional feature, leveraging the Internet of Things (IoT) technology. The proposed system combines real-time vehicle tracking with intelligent accident detection, aiming to provide timely assistance and improve emergency response times. Through the integration of IoT-enabled sensors, GPS modules, accelerometers, and communication devices, vehicles can transmit crucial data to a centralized monitoring platform. This platform processes and analyzes incoming data to identify potential accidents based on sudden deceleration, impact forces, and irregular vehicle behavior. Upon detecting a potential accident, the system triggers an immediate response, including notifying emergency services, relevant authorities, and the vehicle owner. The system's ability to pinpoint the accident location with high accuracy aids in swift rescue operations. Moreover, the system's continuous monitoring capabilities assist in post-accident analysis, providing valuable insights for accident reconstruction and prevention strategies.