

International Standard Accident Number: Linking Accident & Emergency Data (ISAN)

Initiative: zukunft.niedersachsen (nur ausgewählte Ausschreibungen)

Ausschreibung: Big Data in den Lebenswissenschaften der Zukunft

Bewilligung: 27.05.2019

Laufzeit:

The vast amount of data in the accident and emergency context becomes available by creating a technological foundation to securely link data from event data recorder (EDR), emergency medical services (EMS), and electronic health record (EHR), i.e., the International Standard Accident Number (ISAN). Based on date, time, and location coordinates of the event, the ISAN is requested initially from the alerting system. Such a token ? appropriately protected by cryptographic processes ? is embedded in the different systems and, secured by a trustee, it allows to merge the records on demand. Using ISAN, valuable information can be exchanged, far beyond the minimum set of data, which has been defined in the European eCall system. For example, the smart home that has alerted the collapse of an elderly person provides access to a floorplan, exact location of the event, and the key code to open the door. Furthermore, the accident and emergency chain can be analyzed from its emergence, through its treatment, to the care-relevant outcomes. A holistic and temporal view allows stakeholders ranging from healthcare providers to vehicle manufacturers and smart home companies to improve their services and products.

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