

NEMESIS UUID in Practice

2022 Annual V3 Implementation
Meeting



NEMESIS ANNUAL MEETING 2022



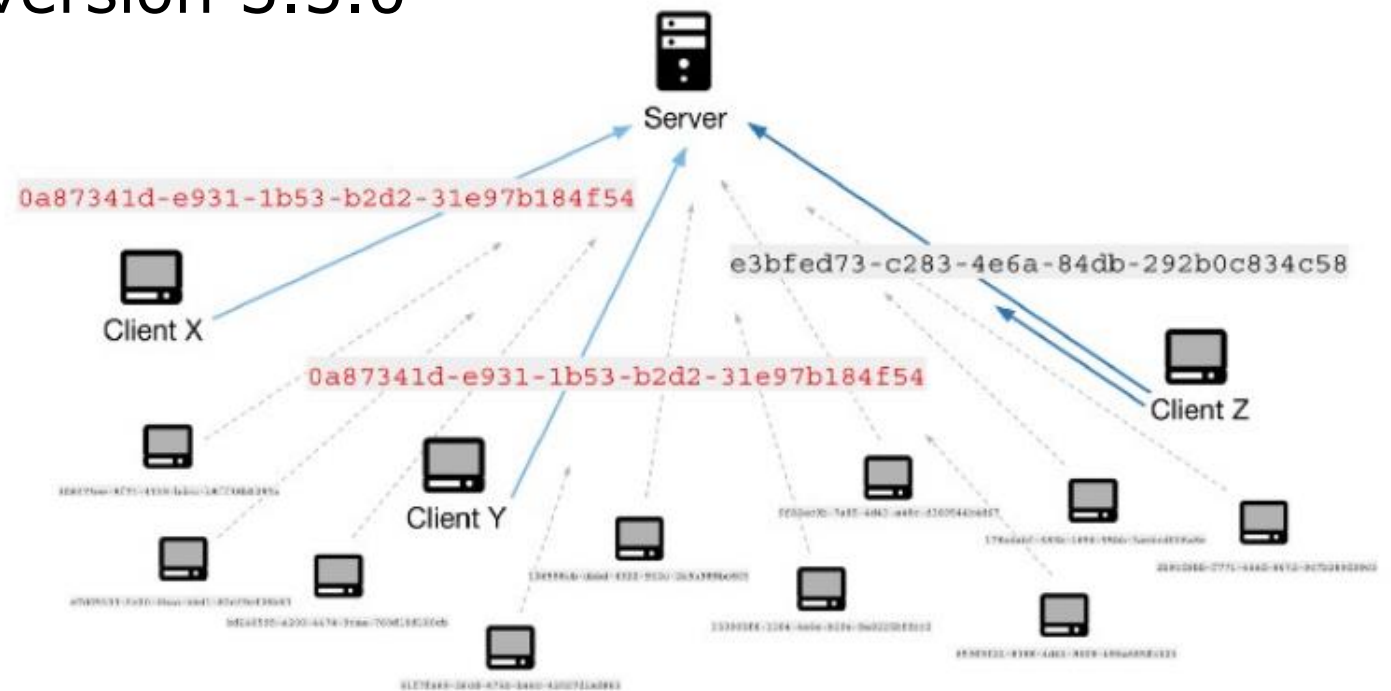
Use of a UUID

- What is a UUID?
 - UUID = Universally Unique Identifier (electronically generated)
 - Originally created by Microsoft (used in Windows OS[GUID]).
 - “Universally Unique” across time and space (allows for independent generation).
 - No other association, meaning or value.
 - Only use: identify a unique record.
- Example of a UUID
 - Odds of a GUID Collision = 2×10^{-122}**
 - Odds of Winning the Powerball = 1×10^{-9}**
 - 123e4567-e89b-12d3-a456-426350453501

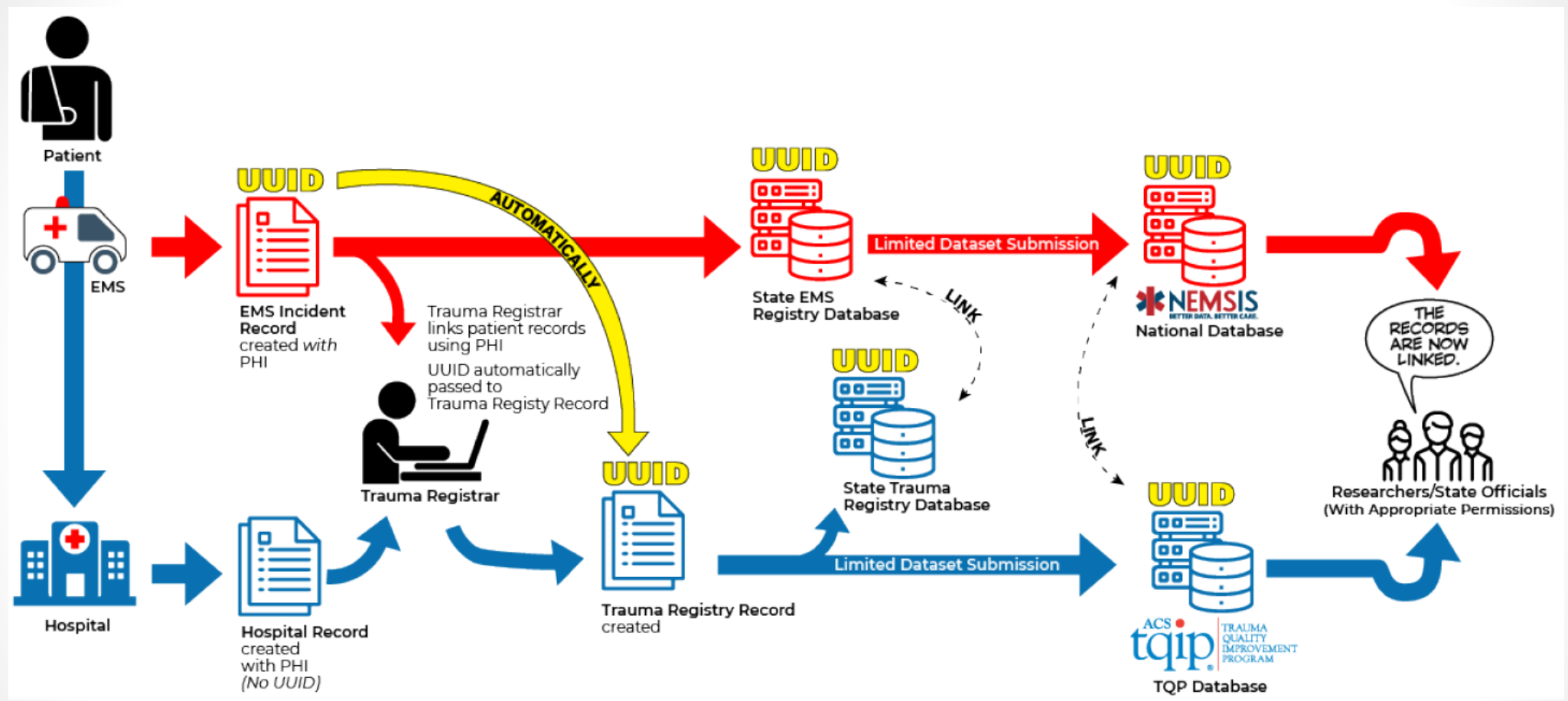


How/Why is a UUID Implemented in the EMSDataSet

- Upon record generation, an embed UUID in a ePCR will allow for tracking and facilitate record updates.
 - UUIDs exist in NEMESIS version 3.5.0



EMS UUID: Facilitates Down-Stream Linkage



Value Added (Privacy and Accessibility)

- Can be shared from the EMS agency...to the state...to the nation...with no lingering relationship to a patient, provider, hospital, or state.
- Local hospital, EMS agency, state and national registries now all have the same unique link between EMS and hospital records for trauma patients.
- Much more accurate and reliable than probabilistic linkage.



NEMESIS UUID: Interest has exploded!

- **Bipartisan Infrastructure Bill (BIL) components:**
 - BIL/IIJA provision: (2) INJURY HEALTH DATA.—The Secretary shall [coordinate with the Director of the Centers for Disease Control and Prevention to [develop and implement a plan for States]⁷ to combine [highway crash data]¹ and [injury health data]² to produce a [national database]³ of [pedestrian]⁴ [injuries and fatalities]⁵, [disaggregated by demographic characteristics]⁶.
 - Other ancillary ideas include Bluetooth UUID to police record



Questions for Consideration

- What additional technical aspects of the UUID exchange do we still need to consider/build?
- What, in addition, will States and hospitals need to understand and approve its use (e.g., educational materials)?

