

New at the 2019 North American Connectathon: Blockchain and the IHE QEDm/mXDE Profiles for the Provenance of Health Documents

Profiles: IHE Query for Existing Documents (Mobile) – IHE QEDm, IHE Mobile Cross-Enterprise Document Data Element Extraction (mXDE)



Umberto Cappellini, Interoperability Architect for Grapevine World and IHE IT Infrastructure Technical Committee Co-chair will be delivering presentations, demonstrations, and making available proof-of-concept testing of using the Blockchain for health document provenance, specifically using the IHE QEDm/mXDE profiles.

One of the primary features of blockchain technology is to ensure traceability and immutability when calculating and storing the provenance of health documents, as described by the [IHE QEDm](#) (Query for Existing Data Mobile) Provenance Option.



Testing at the Connectathon will leverage the Hyperledger Blockchain node, an open-source, downloadable component hosted by the Linux Foundation (www.hyperledger.com).

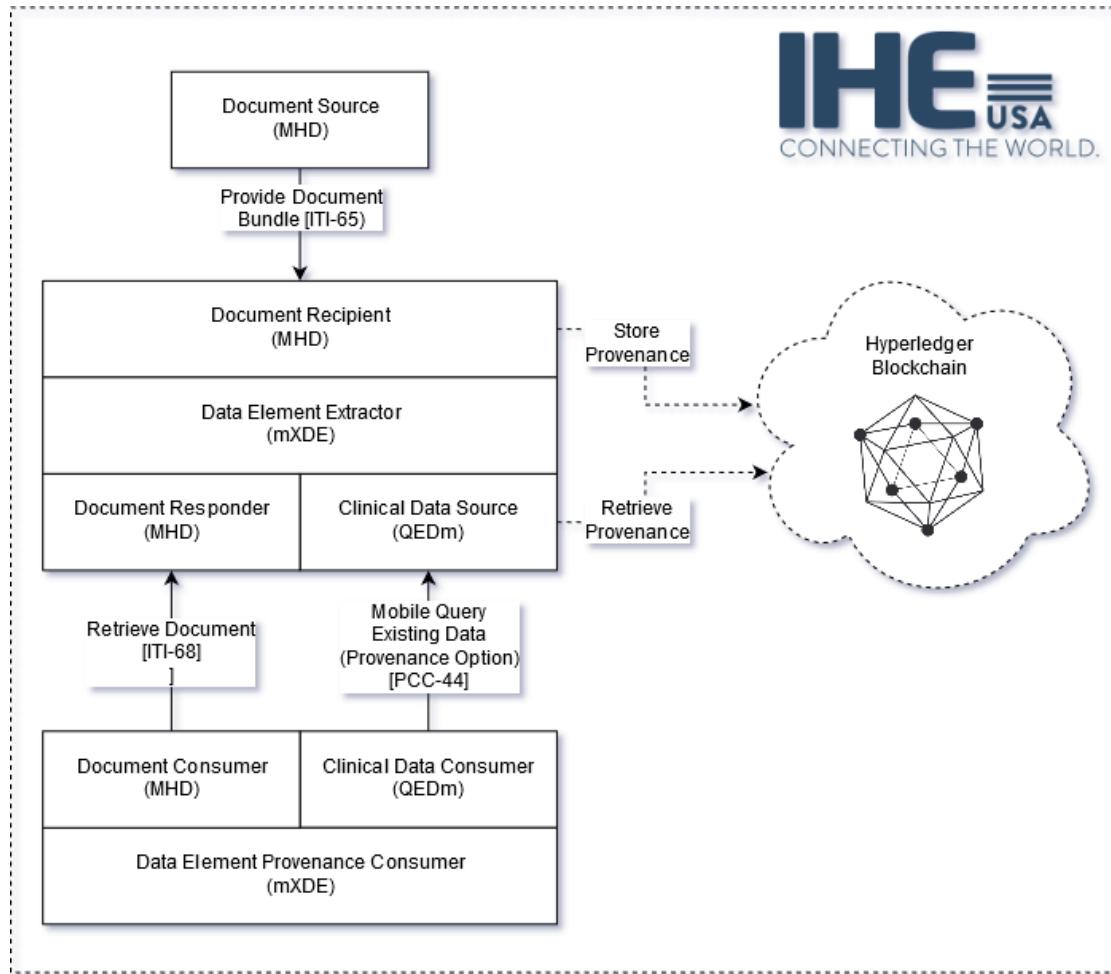
This testing initiative is aimed to stimulate discussion in the standards community in anticipation of more formal Blockchain testing at the North American Connectathon in 2020, and to advance discussions around formally drafting a supporting option for the profile.

The IHE North American Connectathon is held in Cleveland, OH from January 21-25. For more information, please contact Sarah Bell at sbell@himss.org.

www.iheusa.org

Technical Overview

IHE Profiles to be tested in the Data Provenance and Blockchain testing event: **MHD, mXDE, QEDm**



An MHD Document Recipient grouped with a mXDE Data Element Extractor and a QEDm Clinical Data Source will receive an MHD document bundle containing a CCDA document, convert it to FHIR resources, calculate provenance for each of them, and store it in the Hyperledger Blockchain.

Later on, an mXDE Data Element Provenance Consumer grouped with a QEDm Clinical Data Consumer will query for Data Elements including the corresponding provenance information and use the grouped MHD Document Consumer to obtain the original document in which the data elements were recorded.

Participating Vendors are welcome to implement any of the mentioned IHE actors. Testing and Q/A sessions will be available on demand, from January 23-25 of the Connectathon. No additional registration or fees are required for Connectathon participants. For any further information and detail, contact Umberto Cappellini at umberto.cappellini@grapevineworld.com or Sarah Bell at sbell@himss.org.