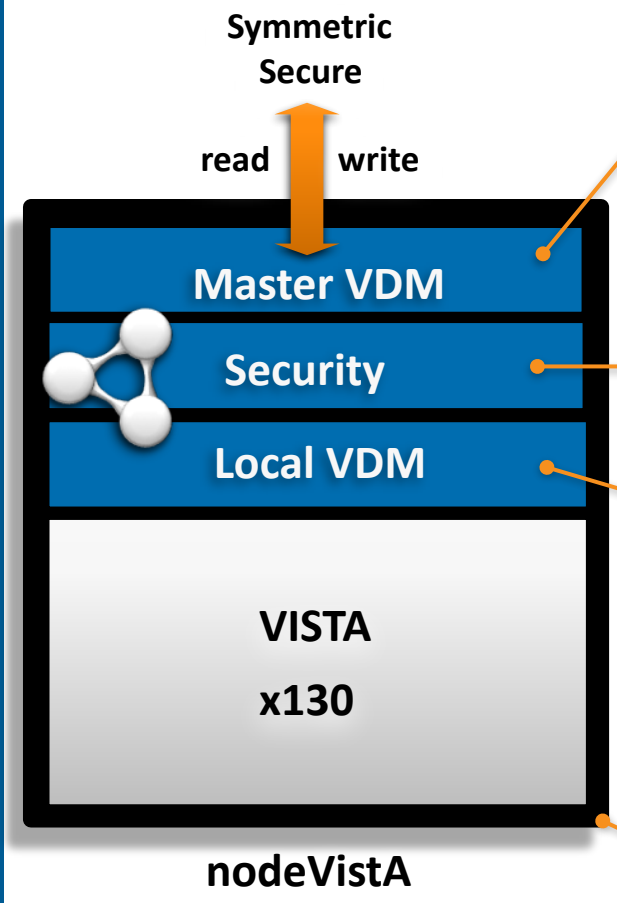
VistA Data Project Prototype

Deliverable Summary – End of 2016

What will the prototype test?

- Potential advantages of leveraging a "metadata-centric" approach to interoperability
- Applicability of modern metadata standards for expressing the rich set of data within VA and DoD's diverse Health IT systems
- Feasibility of an enabler for not just enterprise data sharing, but enterprise data management



Data Models (Linked Data / JSON-LD)

nodeVISTA (Javascript/Node) - *runtime environment*

Existing VISTA system(s)

Linked Data Model:

- Industry-standard, machine-processable, web-centric Linked Data model in JSON-LD
- Foundation of all VISTA models.

Master VistA Data Model (MVDM): A subset of VDM that uniformly spans across all VDMs for key domains, starting with the VPR model. This model is enriched by may sources of VISTA and non-VISTA metadata to provide all the 'missing' metadata to provide a single, symmetric transactional master data model (i.e. read model = write model).

Security Model: Augmented VDM with metadata annotations to support "On-the-data" Patient-centric data security. Is data-category aware (patient data vs other data)

VistA Data Model (VDM):

- In-process, server-side model that reflects and true, operational model in any local VISTA 'as is'.
- No persistence, pass-through to/from transactions against VISTA
- Avoids replication consistency issues since data is not staged in a separate tier

Runtime environment:

- Industry-standard Node.js / Javascript server-side runtime called nodeVISTA
- All data models and data transformations between models run in-process, server-side
- Packages are event-driven from the client with asynchronous I/O

To find more about background, acquisition documentation, or view deliverables, check out:
www.github.com/vistadataproject

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