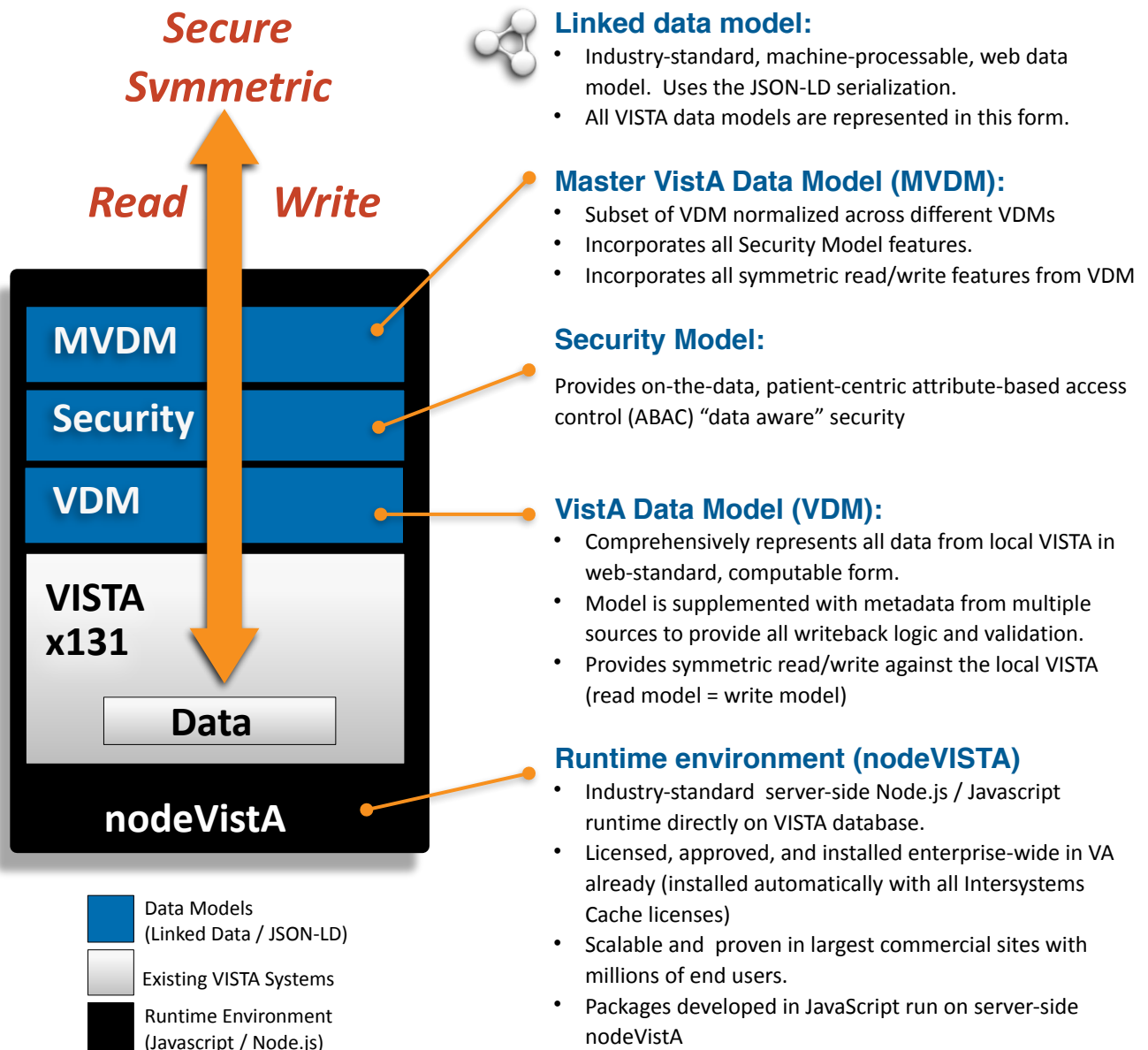# VistA Data Project Prototype

Executive Summary of Prototype Deliverable (End 2016)

What will the prototype validate feasibility of?

A Secure, Symmetric Read/Write Data Model for VA's VISTA Systems

Secure
Symmetric

Read   **Write**

MVDM
Security
VDM
VISTA x131
Data
nodeVistA

Data Models
(Linked Data / JSON-LD)

Existing VISTA Systems

Runtime Environment
(Javascript / Node.js)

Linked data model:
- Industry-standard, machine-processable, web data model. Uses the JSON-LD serialization.
- All VISTA data models are represented in this form.

Master VistA Data Model (MVDM):
- Subset of VDM normalized across different VDMs
- Incorporates all Security Model features.
- Incorporates all symmetric read/write features from VDM

Security Model:

Provides on-the-data, patient-centric attribute-based access control (ABAC) "data aware" security

VistA Data Model (VDM):
- Comprehensively represents all data from local VISTA in web-standard, computable form.
- Model is supplemented with metadata from multiple sources to provide all writeback logic and validation.
- Provides symmetric read/write against the local VISTA (read model = write model)

Runtime environment (nodeVISTA)
- Industry-standard server-side Node.js / Javascript runtime directly on VISTA database.
- Licensed, approved, and installed enterprise-wide in VA already (installed automatically with all Intersystems Cache licenses)
- Scalable and proven in largest commercial sites with millions of end users.
- Packages developed in JavaScript run on server-side nodeVistA

To find more about background, technical details, documentation, or deliverables see:

https://github.com/vistadataproject/documents

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