VistA Adaptive Maintenance: VA Enterprise Cloud Security Contract: T4NG-0411 / TAC-19-54164

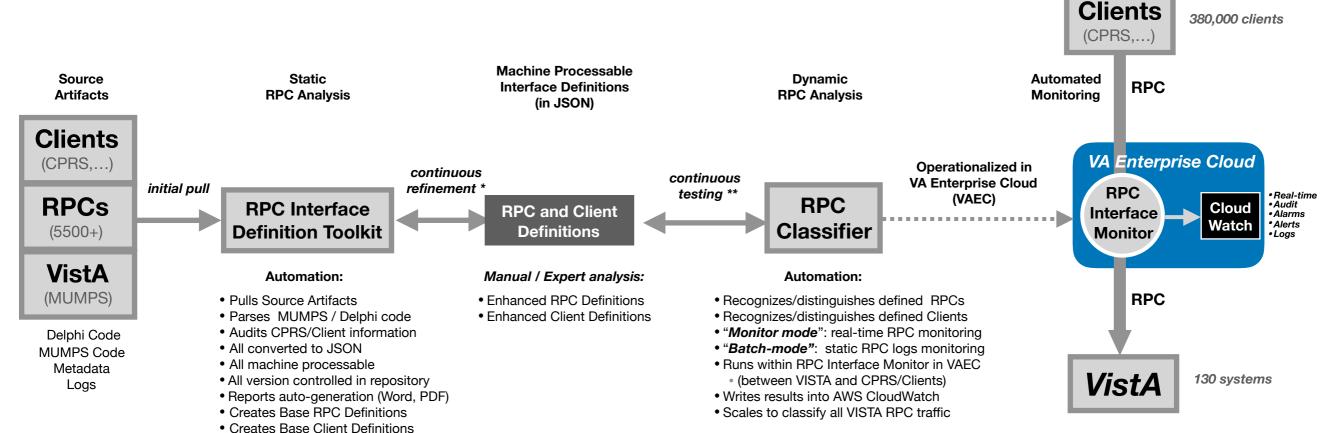
# **Veteran Health Cloud: Security**

Department of Veterans Affairs
Office of Information & Technology
Enterprise Cloud Solutions Office (ECSO)

**Final State:** 

#### Summary

The main interface of the Veterans Health Information Systems Architecture (VistA) for all clients and end-users is the remote procedure call (RPC) interface. Migrating the VistA RPC interface to the VA Enterprise Cloud provides real-time comprehensive cloud-based security for all Veteran health data.



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- All Veteran data access is comprehensively audited, monitored and secured for all users, clients, and applications in real-time via Cloudbased monitoring and security.
- All VistA systems, and all its Clients remain unchanged (i.e. non-invasive, immediate, enterprise-wide security upgrade)

## \* RPC and Client Definitions

DATA SCOPE	types, categories, volumes of data accessed: type, parameters, indexes RPC access and changes.  VistA: filename, property, package (application)
ACTIONS	READ, WRITE; AUTHENTICATION; UTILITY; PATIENT vs NON-PATIENT; NON-SPECIFIC
SENSITIVITY	Access or index PII (vs non-PII) ? "Patient RPC" Patient context
CLIENT TYPES and USAGE	Client type and RPC use: WHO, WHAT, WHEN, PATTERNS OF USE (legitimate user / rogue user)

### \*\* RPC Interface Test Suite

- Manually creating tests for each of the 5,500 RPCs would be extremely timeconsuming. Therefore the strategy relies on automated testing based on inspection of data streams produced by VistA RPC clients (such as CPRS).
- Machine-readable Client RPC Sequences ("Sequences") of typical RPCs as Clients and RPCs are identified and defined using the RPC Interface Definition Toolkit ("Toolkit").
- These Sequences will be continuously run through the RPC Interface Classifier by an RPC Interface Test Suite to ensure that the Classifier properly interprets definitions as they are created.
- A representative template RPC Sequence will be created for stress and volume testing, in parallel with other development tasks.