





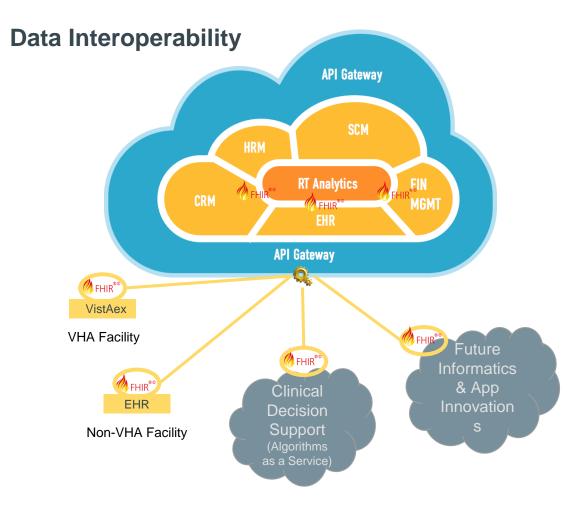


# VA Open Digital Health

A heroic platform for our heroes

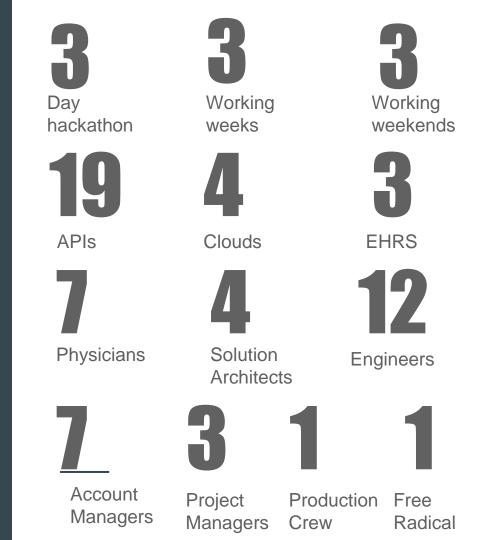
#### **DHP Overview**

- 1. ONE ELECTRONIC HEALTH RECORD SYSTEM (EHR) WITH ONE LOGICAL INSTANCE
- 2. ONE OPERATIONAL MANAGEMENT PLATFORM WITH INTEGRATED RESOURCE MANAGEMENT, FINANCIAL AND SUPPLY CHAIN SYSTEM
- 3. ONE, INTEGRATED CUSTOMER
  RELATIONSHIP MANAGEMENT SYSTEM
- 4. ONE REAL TIME ANALYTICS ENGINE
- 5. ONE API GATEWAY



# Sprint 1: Storming to Performing in 4 weeks

Glimpse of what a successful public private partnership can look like



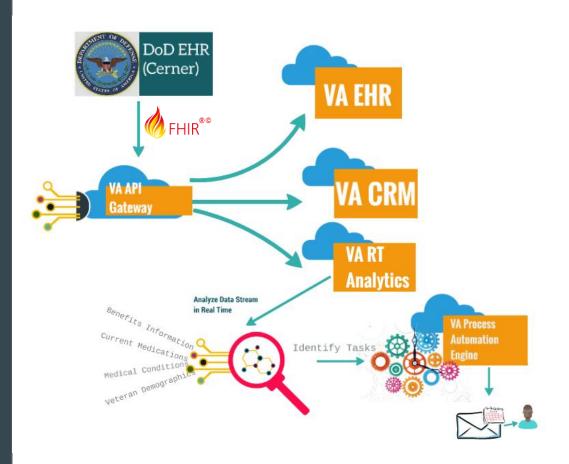
#### Behind the scenes

When the Veteran Enrolled through the CRM it made a call to the the VA API Gateway

The API Gateway pulled the Veteran's Record from Cerner's FHIR Resources

The API posted the Veteran's Record in the VA EHR, the VA CRM (Veteran Engagement) and the VA Realtime Analytics Engine

The VA Analytics engine starts watching the patient's record, notices that this is the Veteran's first visit and schedules the visit



```
Types
999 7
1000 T
         is: [search]
1002 V
         queryParameters:
                                                                      Resources
           _format?:
             enum: [application/json, application/xml]
1005 V
         is: [conformance]
         queryParameters:
1007 V
           format?:
             enum: [application/json, application/xml]
                                                                                Type: fhirHistory
                                                                       // history
         type: fhirHistory
1012 V
                                                                      /metadata
1013 V
         is: [conformance]
     Meet our first heroic sidekick
     The API
      GATEWAY
     Cast: Mulesoft's Anypoint Platform,
     Georgia Tech's TechOnFHIR, VA's
     VistaExchange
           type: fhirHistory
                                                                      /Patient/(id)/Condition
                                                                                          Type: fhirCompartment
```

type: { fhirVersionedResource: { resourceName: Patient }

API is behind a firewall (?)

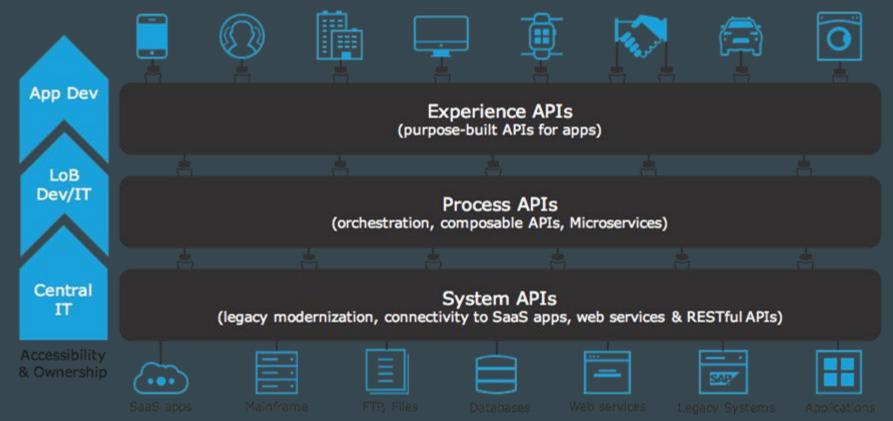
GET

GET

GET

**OPTIONS** 

## Platform for API-led Connectivity



#### Design Approach - Map Business through API's

#### **FIRST PASS**

Took the first scenario and broke it down to identify the business process flow

Mapped each major step as a potential API

Without bothering about how it will be implemented, listed the data need for each step of the process

#### SECOND PASS

Went through the second scenario and followed the same process

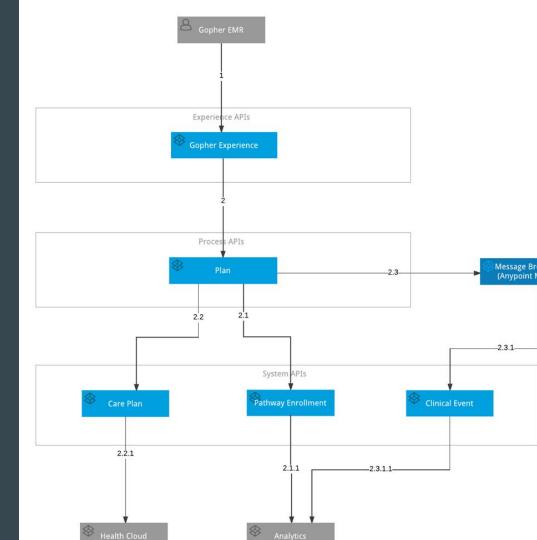
If the API's identified in the first pass did not address some of the newer needs, either added a new API or modified one from the earlier list

#### Behind the scenes

When the Patient record was transferred over, the VA Realtime Analytics Engine noted the Traumatic Brain Injury problem.

It went through the library of Clinical Pathways, found that Byron was "Eligible" for the TBI Pathway called the Pathway Enrollment API which posted the Pathway.

When the Physician agreed and accepted the pathway, the workflow associated with the pathway was passed over to the VA CRM and added to Byron's Care Plan by calling the Care Plan API



### Sprint 2: Going Mobile

Connecting the Veteran to the Internet of Healthcare Things

Day hackathon

**APIs** 

Working weeks

Clouds

Working weekends

**EHRS** 

Working weeks

MyVA Care Mobile App

Device & Video APIs









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