Milestone 0 / Current

VAOS Data Tier

- VAR Facility
- VAR Messaging
- Clinic Appt Requests
- VAR Utility
- CC Appt Requests

VAOS Services

- VAR Utilities (VATS)
- SM Resources
- VAR Facility
- VAR Messaging
- VAR Resources

VA Mobile Shared Services

- Mobile PPMS
- Mobile CCE
- Mobile CDW Service
- Mobile Facility Service
- Mobile MVI Service
- Vista Scheduling Service (VSS) v2
- Mobile Appointment Service (MAS)
- Video Visits Service (VVS)
- Mobile Notification Service

VA Enterprise Services

- Provider Profile Management Service (PPMS)
- VA Community Care Eligibility (CCE) Service
- CDW SQL Server
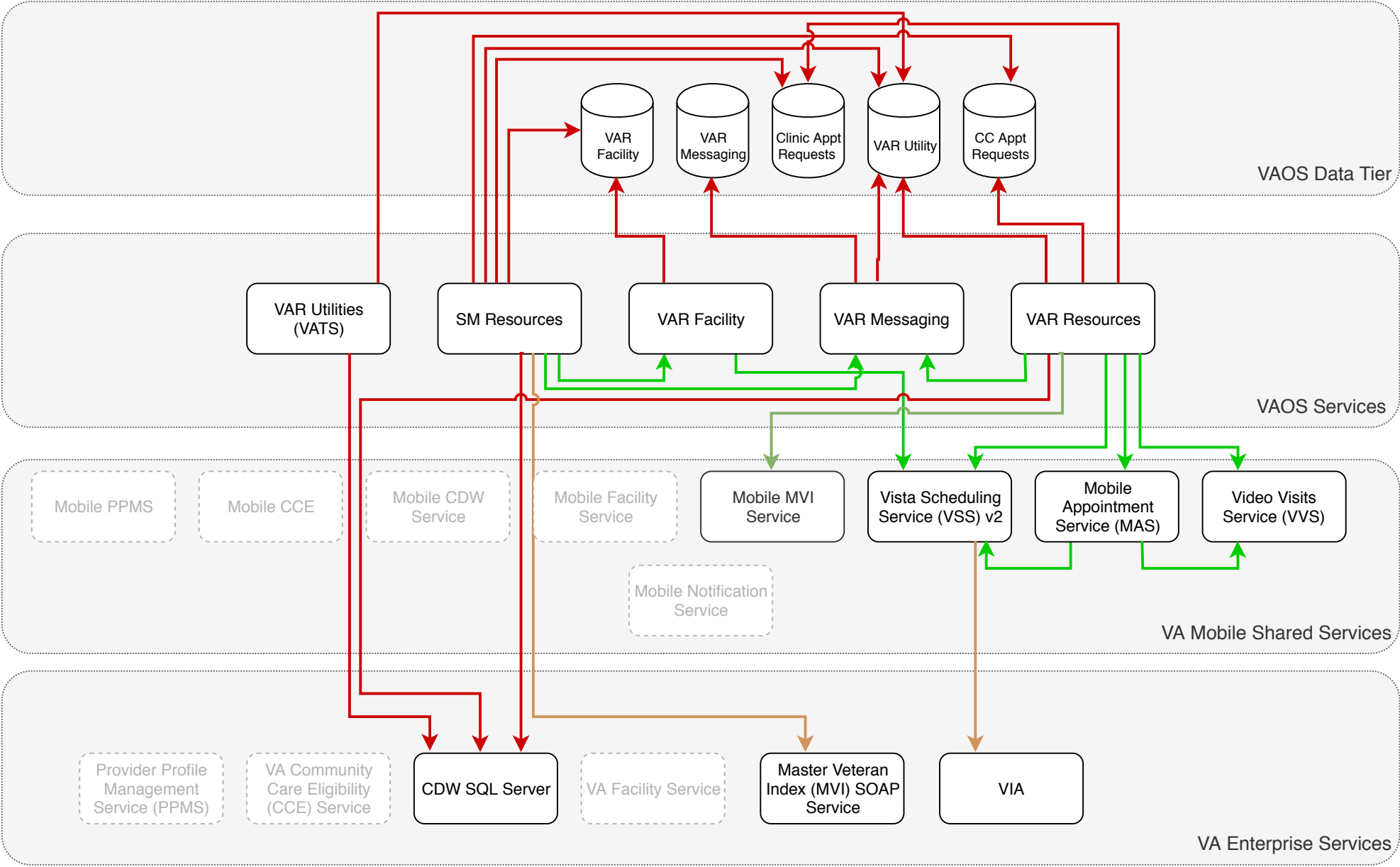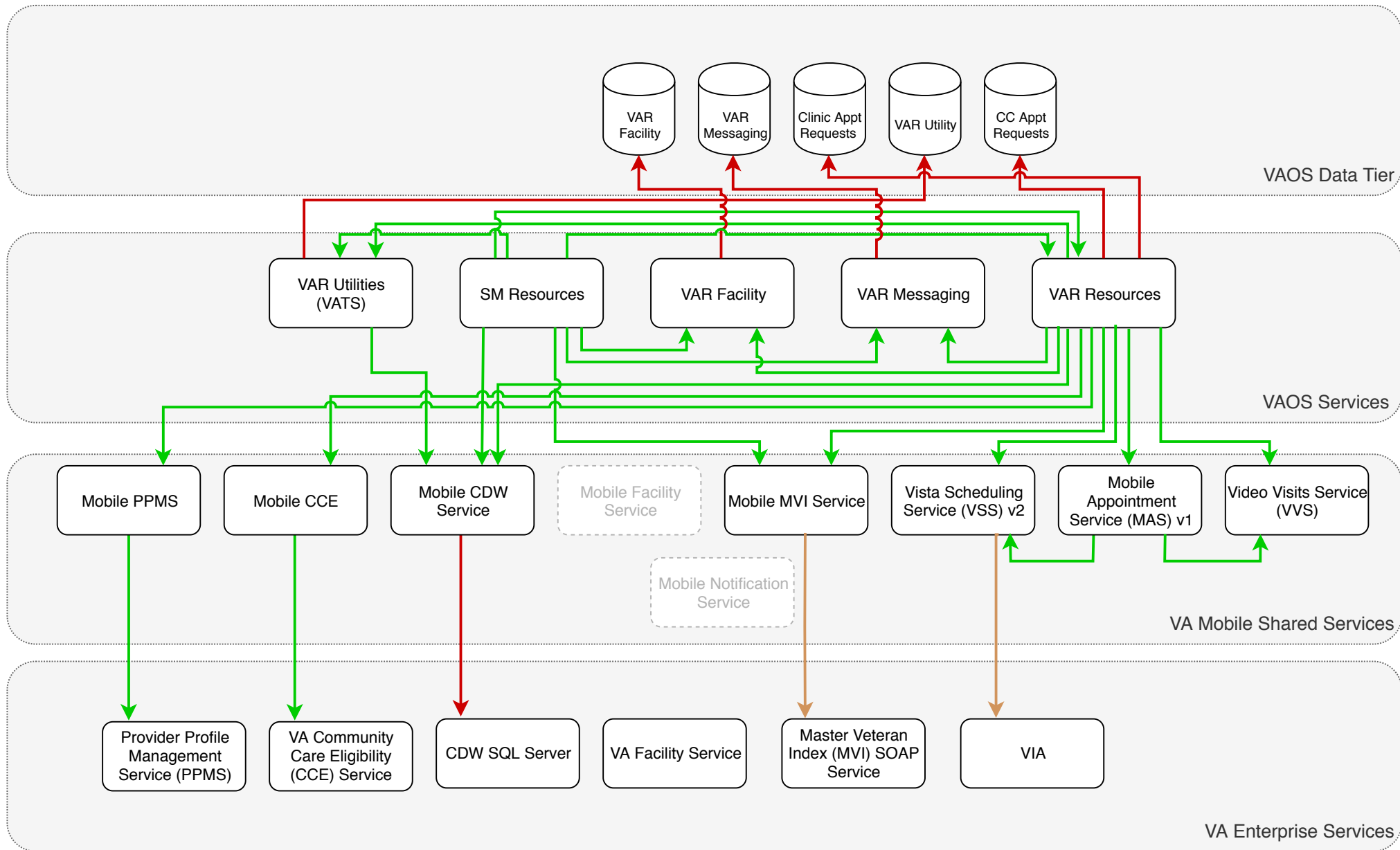- VA Facility Service
- Master Veteran Index (MVI) SOAP Service
- VIA

Architectural Issues

- Poor Separation Between Layers
- Overlapping & Duplicative Functionality
- Tightly-Coupled Services
- Monolith Services
- Databases Used for Service Integration
- Reliance on Non-Standard Interfaces
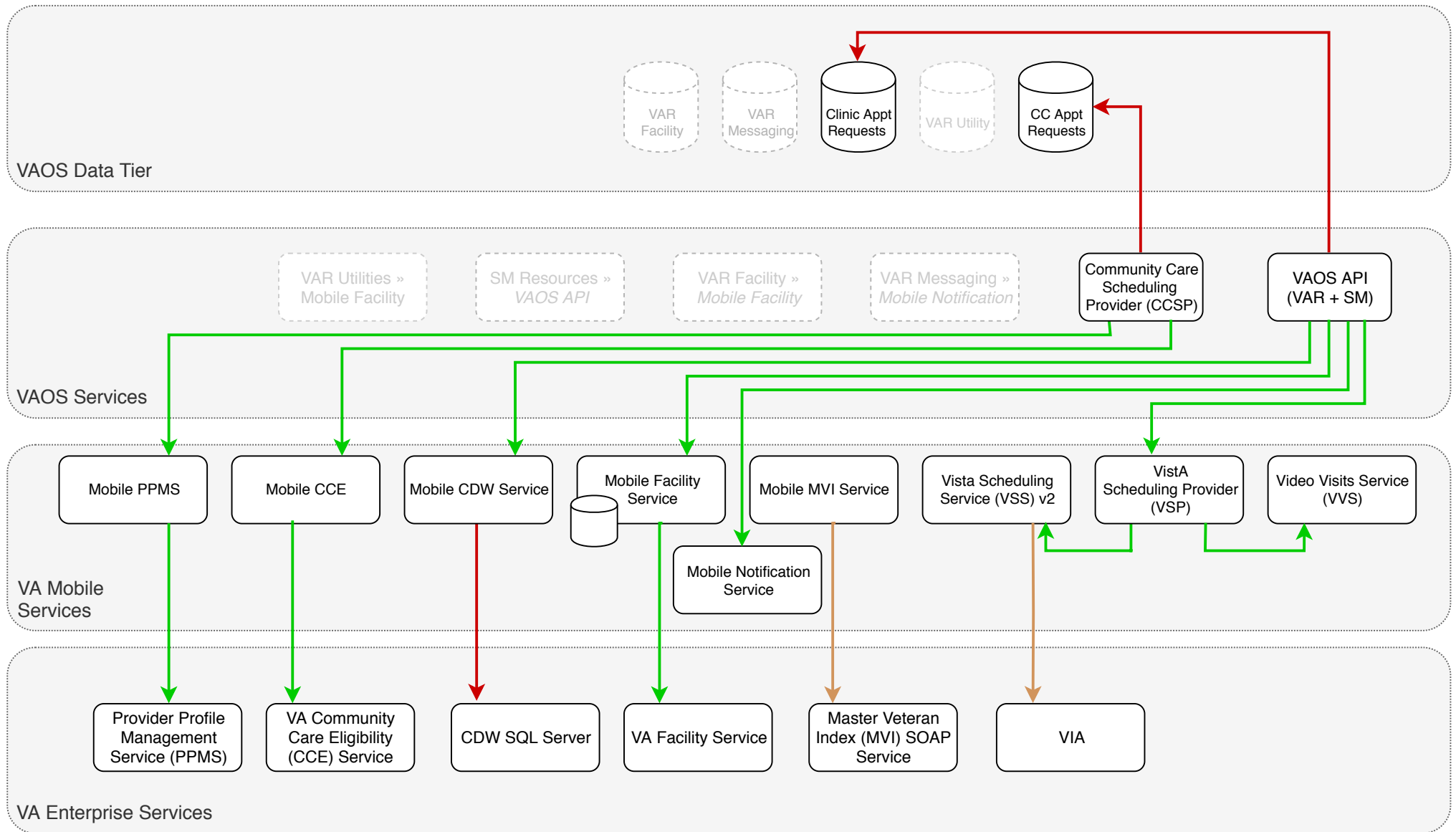
Milestone 1 / April 2020

VAOS Data Tier

- VAR Facility
- VAR Messaging
- Clinic Appt Requests
- VAR Utility
- CC Appt Requests

VAOS Services

- VAR Utilities (VATS)
- SM Resources
- VAR Facility
- VAR Messaging
- VAR Resources

VA Mobile Shared Services

- Mobile PPMS
- Mobile CCE
- Mobile CDW Service
- Mobile Facility Service
- Mobile MVI Service
- Vista Scheduling Service (VSS) v2
- Mobile Appointment Service (MAS) v1
- Video Visits Service (VVS)
- Mobile Notification Service

VA Enterprise Services

- Provider Profile Management Service (PPMS)
- VA Community Care Eligibility (CCE) Service
- CDW SQL Server
- VA Facility Service
- Master Veteran Index (MVI) SOAP Service
- VIA

Improvements

- Clear Separation of Layers/Responsibilities
- Single Data Service per DB
- 1st Class Service Interoperability Using REST Interfaces

Architectural Issues

- Overlapping & Duplicative Functionality
- Complicated Service Dependencies
- Tightly-Coupled Services
- Overly-Broad, Monolith Services

Milestone 2 / April 2020

VAOS Data Tier
- VAR Facility
- VAR Messaging
- Clinic Appt Requests
- VAR Utility
- CC Appt Requests

VAOS Services
- VAR Utilities » Mobile Facility
- SM Resources » VAOS API
- VAR Facility » Mobile Facility
- VAR Messaging » Mobile Notification
- Community Care Scheduling Provider (CCSP)
- VAOS API (VAR + SM)

VA Mobile Services
- Mobile PPMS
- Mobile CCE
- Mobile CDW Service
- Mobile Facility Service
- Mobile MVI Service
- Vista Scheduling Service (VSS) v2
- VistA Scheduling Provider (VSP)
- Video Visits Service (VVS)
- Mobile Notification Service

VA Enterprise Services
- Provider Profile Management Service (PPMS)
- VA Community Care Eligibility (CCE) Service
- CDW SQL Server
- VA Facility Service
- Master Veteran Index (MVI) SOAP Service
- VIA

Improvements
- Replaces Unnecessary VAOS-Specific Services with Existing Shared Services
- Service Consolidation:
  - **SM & VAR** » VAOS API
  - **VAR Msg**. » Mobile Notifications
  - **VATS & Facility** » Mobile Facility
- Community Care Scheduling Provider
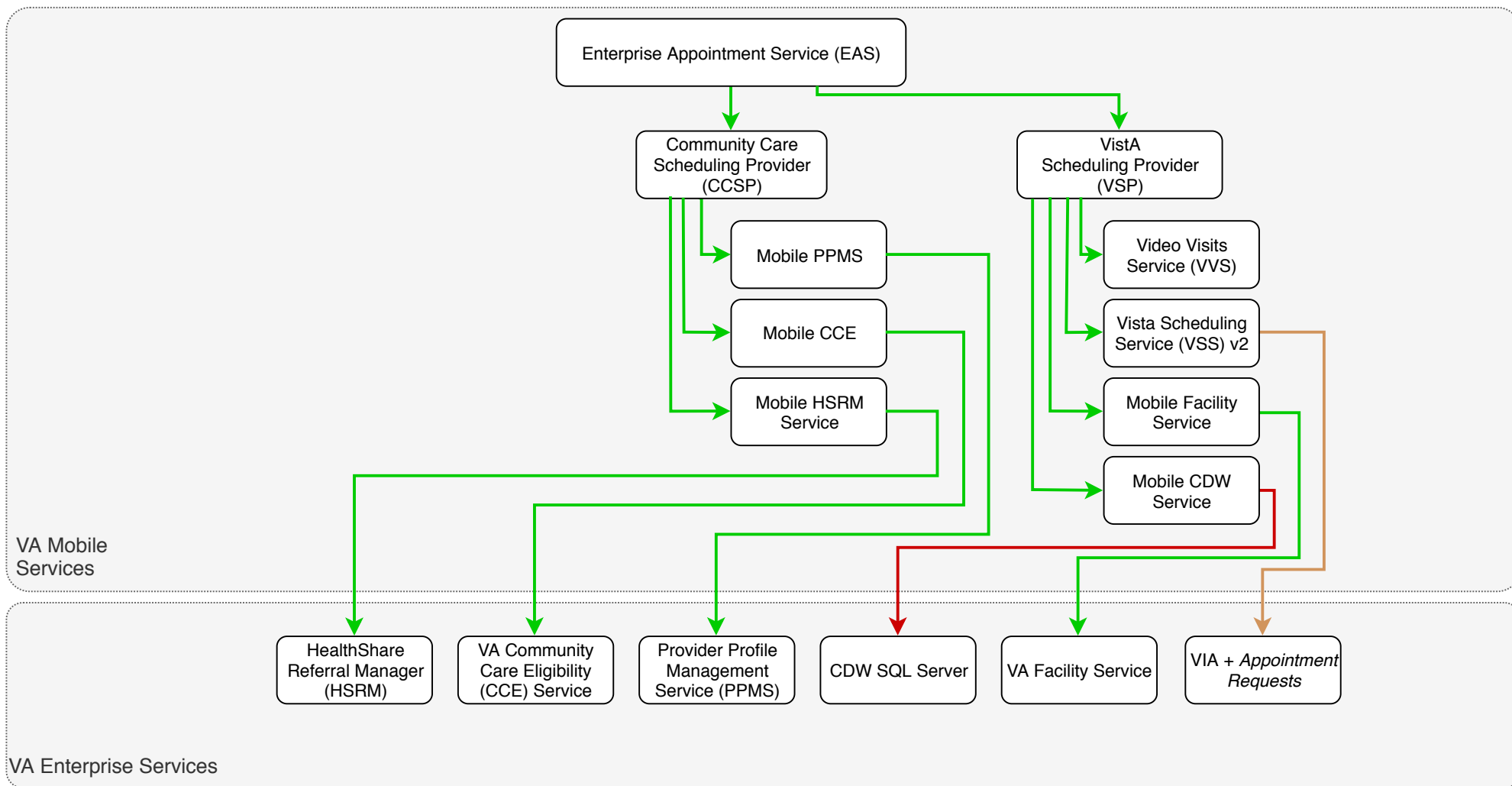- MAS » VistA Scheduling Provider

Assumptions
- VAR, VATS, and SM **Web UIs** Remain
- Interfaces Consolidated, Not Refactored

Architectural Issues
- VAOS-Specific CC & Clinic Appt. Requests
- Complex, VA-Specific Scheduling Logic
- No Support for Cerner Scheduling

Milestone 3 / July 2020

VA Mobile Services

- Enterprise Appointment Service (EAS)
  - Community Care Scheduling Provider (CCSP)
    - Mobile PPMS
    - Mobile CCE
    - Mobile HSRM Service
  - VistA Scheduling Provider (VSP)
    - Video Visits Service (VVS)
    - Vista Scheduling Service (VSS) v2
    - Mobile Facility Service
    - Mobile CDW Service

VA Enterprise Services

- HealthShare Referral Manager (HSRM)
- VA Community Care Eligibility (CCE) Service
- Provider Profile Management Service (PPMS)
- CDW SQL Server
- VA Facility Service
- VIA + *Appointment Requests*

Improvements

- EAS Provides Single FHIR-Based Interface for Both VistA (VSP) and Community Care (CCSP)
- VAOS-Specific CC Database Replaced by HSRM Interface
- VAOS-Specific Clinic Appointment Request Database Replaced by VistA Appointment Requests
- VA Utility/VATS Incorporated Into Facility Service
- FHIR-Based Interoperability; No Need to Understand Complex, VA-Specific Business Rules for Scheduling
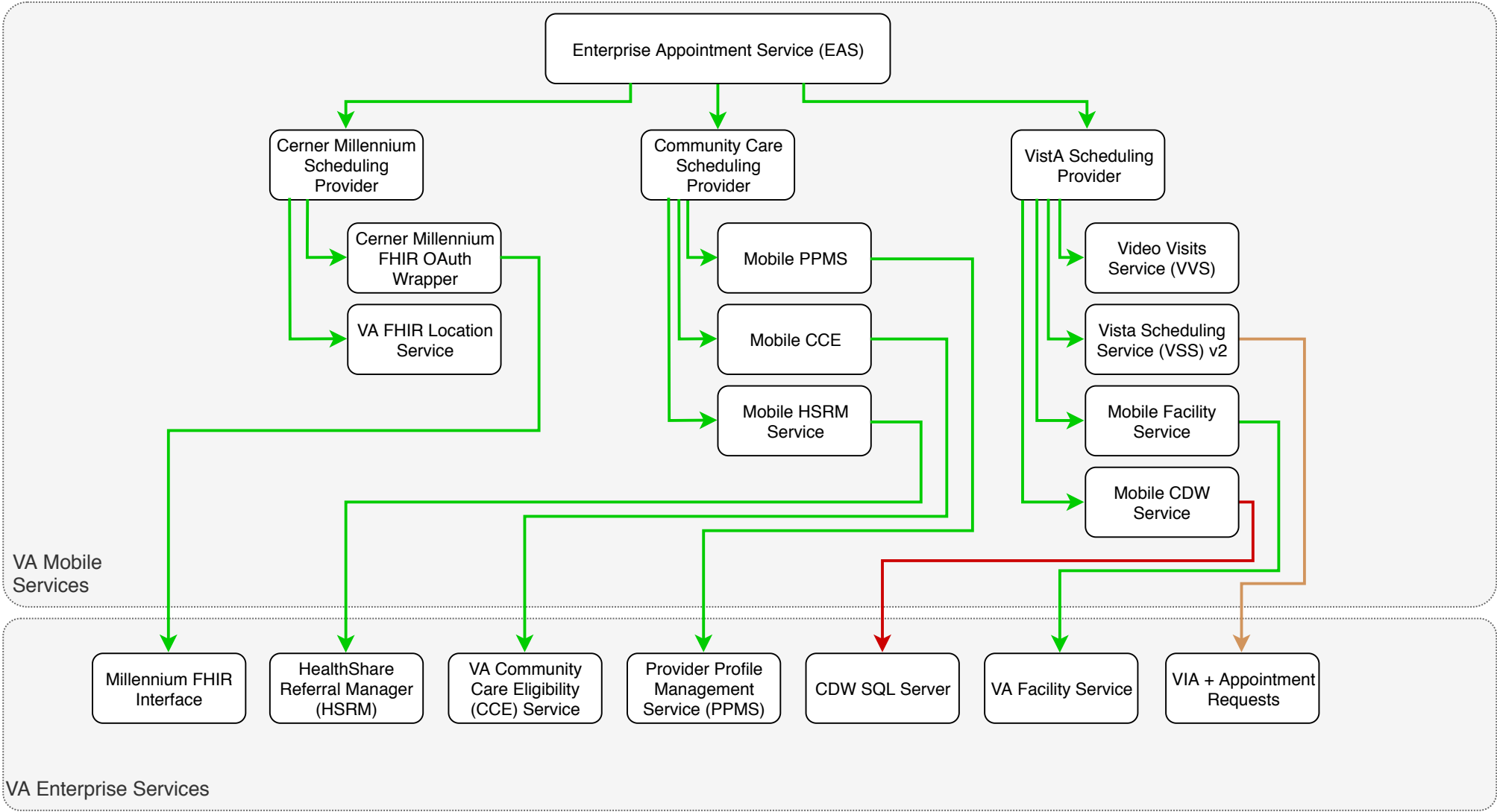- Establishes Framework for Cerner Scheduling Support

Assumptions

- VA.gov/VAOS Uses FHIR
- VSE-Managed Appointment Requests
- **SM Web** Decommissioned
- **VAR Web** Decommissioned

Architectural Issues

- No Support for Cerner Appointment Scheduling

Milestone 4 / September 2020

Enterprise Appointment Service (EAS)

VA Mobile Services

- Cerner Millennium Scheduling Provider
  - Cerner Millennium FHIR OAuth Wrapper
  - VA FHIR Location Service
- Community Care Scheduling Provider
  - Mobile PPMS
  - Mobile CCE
  - Mobile HSRM Service
- VistA Scheduling Provider
  - Video Visits Service (VVS)
  - Vista Scheduling Service (VSS) v2
  - Mobile Facility Service
  - Mobile CDW Service

VA Enterprise Services

- Millennium FHIR Interface
- HealthShare Referral Manager (HSRM)
- VA Community Care Eligibility (CCE) Service
- Provider Profile Management Service (PPMS)
- CDW SQL Server
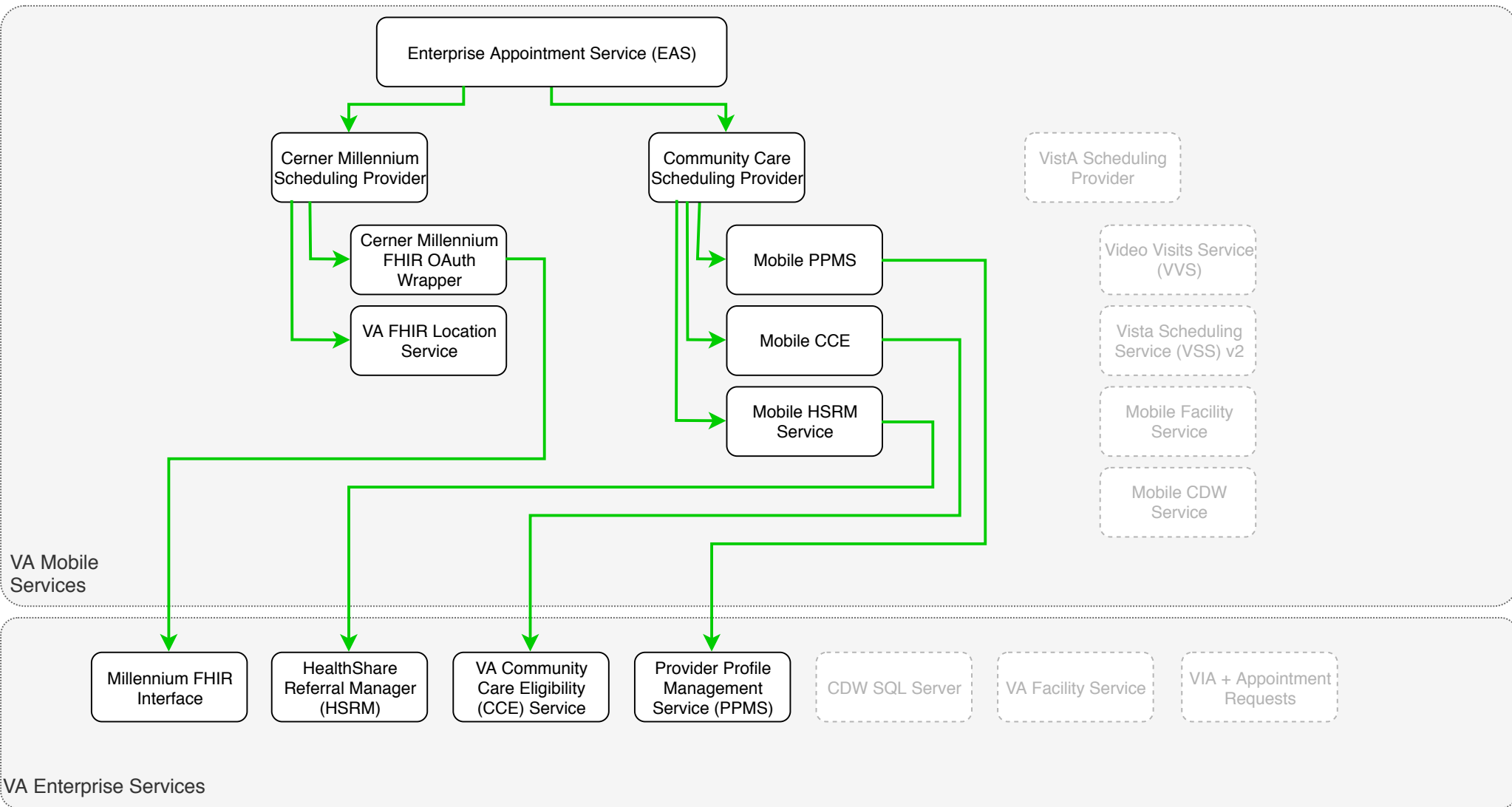- VA Facility Service
- VIA + Appointment Requests

Improvements

- EAS Provides Single FHIR-Based Interface for All Appointment Scheduling Systems
- Millennium Appointment Provider Augments Any Missing / Incompatible FHIR Resources (e.g. Location Service)

Architectural Issues

- Complexity of VistA Appointment Provider Becomes Unnecessary as VistA is Decommissioned from all VAMCs
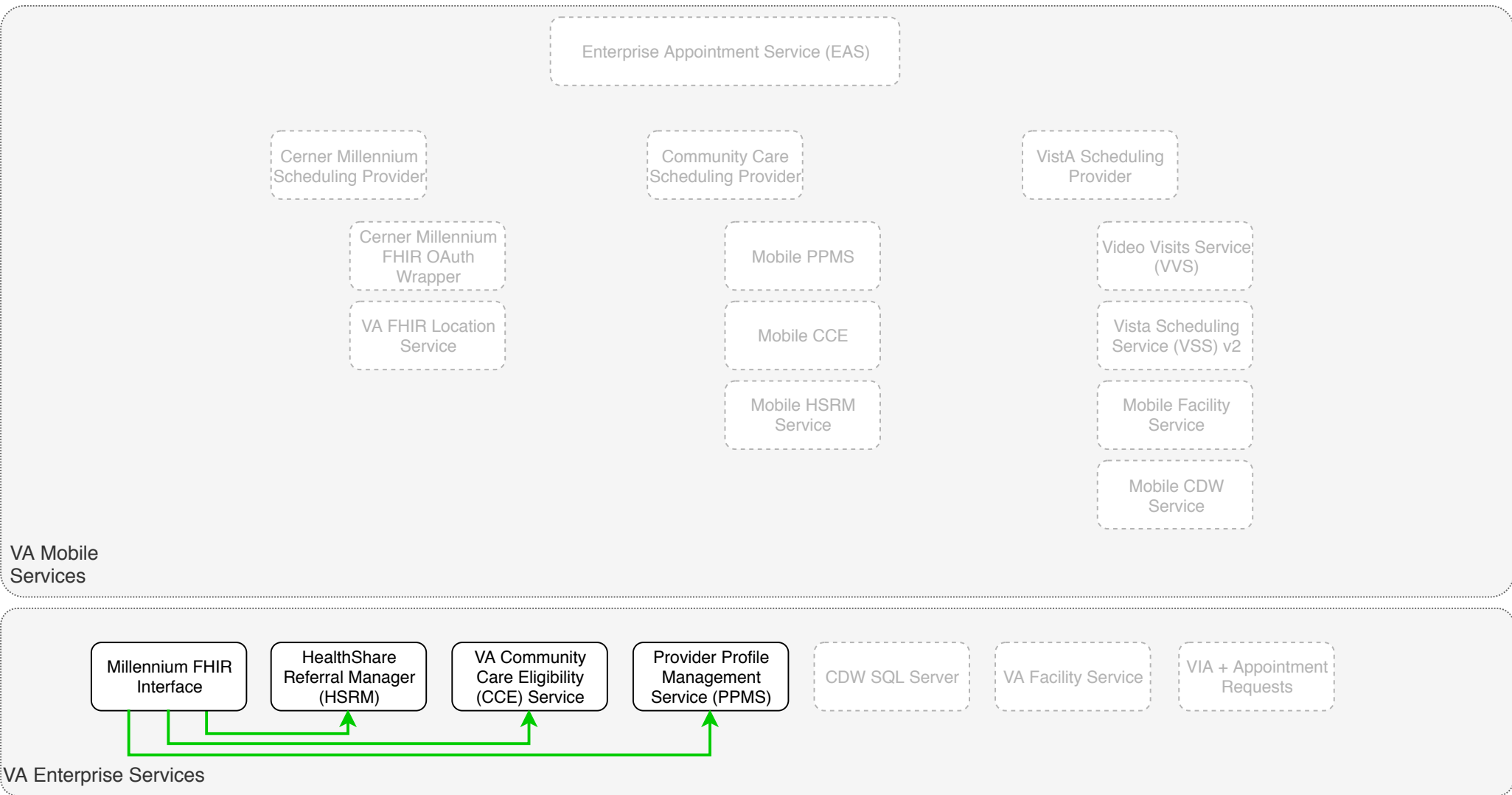
Milestone 5

VA Mobile Services

Enterprise Appointment Service (EAS)

Cerner Millennium Scheduling Provider

Community Care Scheduling Provider

VistA Scheduling Provider

Cerner Millennium FHIR OAuth Wrapper

VA FHIR Location Service

Mobile PPMS

Mobile CCE

Mobile HSRM Service

Video Visits Service (VVS)

Vista Scheduling Service (VSS) v2

Mobile Facility Service

Mobile CDW Service

VA Enterprise Services

Millennium FHIR Interface

HealthShare Referral Manager (HSRM)

VA Community Care Eligibility (CCE) Service

Provider Profile Management Service (PPMS)

CDW SQL Server

VA Facility Service

VIA + Appointment Requests

Improvements

- VistA Scheduling Provider Decommissioned as VAMCs are Fully Migrated to Millennium

Architectural Issues

- Complexity of EAS Becomes Unnecessary as Cerner Integrates with HSRM, CCE, and PPMS

Milestone 6

VA Mobile Services

Enterprise Appointment Service (EAS)

Cerner Millennium Scheduling Provider

Community Care Scheduling Provider

VistA Scheduling Provider

Cerner Millennium FHIR OAuth Wrapper

Mobile PPMS

Video Visits Service (VVS)

VA FHIR Location Service

Mobile CCE

Vista Scheduling Service (VSS) v2

Mobile HSRM Service

Mobile Facility Service

Mobile CDW Service

VA Enterprise Services

Millennium FHIR Interface

HealthShare Referral Manager (HSRM)

VA Community Care Eligibility (CCE) Service

Provider Profile Management Service (PPMS)

CDW SQL Server

VA Facility Service

VIA + Appointment Requests

Improvements

- EAS Decomissioned
- EAS Clients Migrate to Using Millennium FHIR Interface Directly

Architectural Issues

- None