



Interoperability Modernization Strategy

ONC HITAC

Federal Electronic Health Record Modernization (FEHRM) office

Yvonne Cole
Metrics & Analysis Lead

Norman Stone, Lt Col, USAF, MC
Clinical Informaticist

10 November 2021



Agenda

DOD-VA

Interoperability Modernization Strategy

- Overview
 - Phase 3: Performance Measurement Plan
 - Performance Measure “Down-Select”
 - Next Steps
 - Questions
-



Agenda

DOD-VA

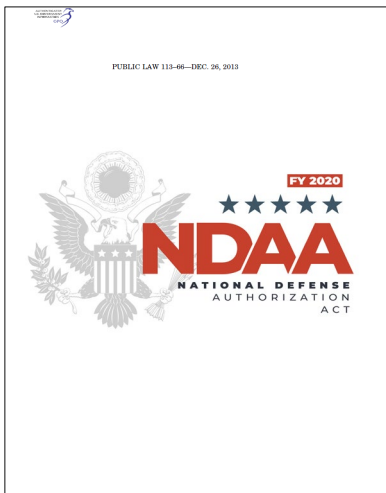
Interoperability Modernization Strategy

- Overview
 - Phase 3: Performance Measurement Plan
 - Performance Measure “Down-Select”
 - Next Steps
 - Questions
-



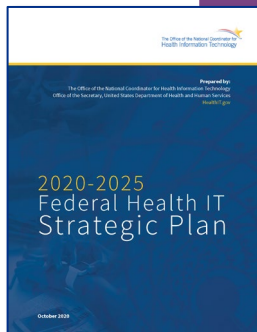
Overview

Dec 2019
NDAA 2020

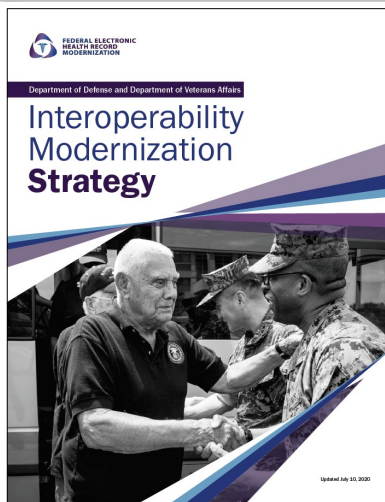


Advisory Group
Integrated Product Team

ONC-HIT
Federal Health IT Strategic Plan



PHASE
1 Strategy



COMPLETE

- Identify **Goals & Objectives**
- Delivered to Congress
6 Oct 2020

PHASE
2 Supporting Plan



COMPLETE

- Identify **Initiatives** supporting the Goals & Objectives
- Draft Supporting Plan
- EXCOM Approval
25 Mar 2021

PHASE
3 Performance Measurement



IN PROGRESS

- Identify **Performance Measures**
- Draft Performance Measurement Plan



Phase 1: Goals & Objectives

GOAL 1

Promote Health & Wellness

- 1A** Beneficiaries are empowered to manage their health and wellness
- 1B** Beneficiaries are empowered to manage their health care and benefits
- 1C** Health and benefits team members and public health organizations are able to access and analyze data and communicate findings and recommendations to improve individual- and population-level health and wellness
- 1D** Benefits and service providers deliver effective and efficient benefits and services

GOAL 2

Enhance the Delivery & Experience of Care

- 2A** Beneficiaries access health care and benefits regardless of location
- 2B** Beneficiaries have access to information to make informed choices about their health care providers and insurers
- 2C** Health and benefits team members provide care wherever the beneficiary is located
- 2D** Health and benefits team members practice safe and effective beneficiary-centered care
- 2E** Health and benefits team members experience reduced administrative burden and focus their time on beneficiaries
- 2F** Health and benefits team members are supported by information technology that meets their workflow and usability needs
- 2G** Patient safety and population health professionals identify, predict, monitor and prevent adverse events
- 2H** DOD, VA and members of the health care and benefits partner continuum promote sharing of health and benefits information among other federal, state and local entities in accordance with applicable laws and patient preferences

GOAL 3

Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

- 3A** Beneficiaries have the choice to contribute their data to research initiatives
- 3B** Researchers and IT professionals advance interoperability to better facilitate research and innovation
- 3C** Researchers and innovators leverage data and information technologies to build information systems that are evidence-based to advance health, health care delivery and provision of benefits

GOAL 4

Connect Health Care and Health Data

- 4A** Leadership in health and benefits delivery, finance, and technology optimize the value of information technology
- 4B** Leadership in information and technology enable seamless integration between systems to support health care and related benefits



Phase 2: Supporting Plan

27 Initiatives

6 Foundational

- Chart Search API
- Common Operational Picture
- Community Administration of Vaccine Encounters (CAVE)
- COVID-19 Registry
- Direct Secure Messaging Capability
- Disability Benefits Questionnaire (DBQ) Data Ingestion
- DOD/VA Joint Personal Health Record Initiative (Digital Patient Engagement Platform)
- **Electronic Health Record Modernization Interoperability Components**
- Enable Access to Commissaries and Morale, Welfare and Recreation Facilities to Eligible Veterans and Caregivers

▪ **Federated Interagency Terminology Service (FITS)**

▪ **Identity Management**

- Individual Longitudinal Exposure Record (ILER)
- Integrated Disability Evaluation (IDES) Case File Transfer Capability

▪ **Interoperability Standards Framework (ISF)**

- Joint Federal Enclave
- Joint Health Information Exchange

▪ **Joint Longitudinal Viewer (JLV)**

- Medical and Dental referrals for Veteran Readiness and Employment (VR&E) Program Participants

- Military Personnel Data Transmission between DOD and VA
- Monitoring and Surveillance for Public Health and Disease Outbreak
- Patient Portals
- Separation Health Assessment
- Solor (System of Logical Representation)

▪ **Standards Development**

- Telehealth
- VA Digital Transformation
- Veterans Benefits Management System (VBMS) EHRM Exam Management Integration

Goals, Objectives & Initiatives

Slide 1

INITIATIVE	FOUNDATIONAL	GOAL 1 Promote Health & Wellness				GOAL 2 Enhance the Delivery & Experience of Care								GOAL 3 Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation			GOAL 4 Connect Health Care and Health Data	
		1A	1B	1C	1D	2A	2B	2C	2D	2E	2F	2G	2H	3A	3B	3C	4A	4B
Electronic Health Record Modernization Interoperability Components	●																	
Federated Interagency Terminology Service (FITS)	●																	
Identity Management	●																	
Joint Longitudinal Viewer (JLV)	●																	
Interoperability Standards Framework (ISF)	●																	
Standards Development	●																	
Chart Search API				●	●			●	●	●	●		●		●	●	●	●
Common Operational Picture				●							●							
Community Administration of Vaccine Encounters (CAVE)					●			●										
COVID-19 Registry				●				●								●		
Direct Secure Messaging Capability					●			●		●	●		●					●
Disability Benefits Questionnaire (DBQ) Data Ingestion				●				●	●	●		●			●	●	●	●
DOD/VA Joint Personal Health Record Initiative (Digital Patient Engagement Platform)		●	●			●	●				●			●				●
Enable Access to Commissaries and Morale, Welfare and Recreation Facilities to Eligible Veterans and Caregivers		●				●					●		●					●

Goals, Objectives & Initiatives

Slide 2

INITIATIVE	FOUNDATIONAL	GOAL 1 Promote Health & Wellness				GOAL 2 Enhance the Delivery & Experience of Care								GOAL 3 Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation			GOAL 4 Connect Health Care and Health Data	
		1A	1B	1C	1D	2A	2B	2C	2D	2E	2F	2G	2H	3A	3B	3C	4A	4B
Individual Longitudinal Exposure Record (ILER)				●	●			●	●		●	●	●			●		●
Integrated Disability Evaluation System (IDES) Case File Transfer Capability									●				●					●
Joint Federal Enclave																		●
Joint Health Information Exchange								●			●							●
Medical and Dental Referrals for Veteran Readiness and Employment (VR&E) Program Participants				●	●			●	●		●						●	●
Military Personnel Data Transmission between DOD and VA		●			●				●								●	●
Monitoring and Surveillance for Public Health and Disease Outbreak				●							●	●	●					●
Patient Portals		●	●			●	●				●							●
Separation Health Assessment (SHA)								●	●	●			●					
Solor (System of Logical Representation)		●		●				●	●	●	●	●			●	●	●	●
Telehealth			●		●	●		●	●	●	●							●
VA Digital Transformation			●				●	●	●		●				●		●	●
Veterans Benefits Management System (VBMS) EHRM Exam Management Integration				●	●			●	●	●						●	●	●

INITIATIVES ALIGNED:

6	5	4	7	7	4	3	7	9	7	14	3	7	1	3	4	5	14
---	---	---	---	---	---	---	---	---	---	----	---	---	---	---	---	---	----



Agenda

DOD-VA

Interoperability Modernization Strategy

- Overview
 - Phase 3: Performance Measurement Plan
 - Performance Measure “Down-Select”
 - Next Steps
 - Questions
-



Phase 3: Performance Measurement

Purpose

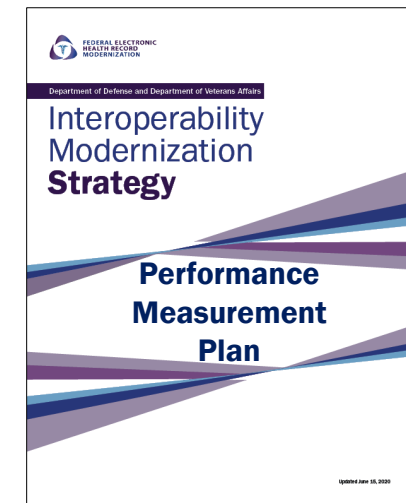
Develop Performance Measures that enable tracking of progress toward the Objectives identified in the Interoperability Modernization Strategy

Process

1. Divide Initiatives into **5 Work Groups**
2. Lead an **Initiative by Initiative review** → Develop Performance Measures
3. **Align Performance Measures to Objectives**
4. Identify the most illustrative Performance Measures for each Objective

Deliverable

A **Performance Measurement Plan** document centered on the Strategy Objectives and describing Performance Measures for each Objective





Phase 3: Performance Measurement

Work Groups

WG 1: Benefits	WG 2: Standards	WG 3: Population Health	WG 4: Clinical	WG 5: Work Group #5
<ul style="list-style-type: none">▪ Chart Search API▪ Enable Access to Commissaries and Morale, Welfare and Recreation Facilities to Eligible Veterans and Caregivers▪ Medical and Dental referrals for Veteran Readiness and Employment (VR&E) Program Participants	<ul style="list-style-type: none">▪ Interoperability Standards Framework (ISF)▪ Solor (System of Logical Representation)▪ Standards Development	<ul style="list-style-type: none">▪ COVID-19 Registry▪ Individual Longitudinal Exposure Record (ILER)▪ Monitoring and Surveillance for Public Health and Disease Outbreak	<ul style="list-style-type: none">▪ Electronic Health Record Modernization Interoperability Components▪ Joint Health Information Exchange▪ Joint Longitudinal Viewer (JLV)▪ Patient Portals▪ Separation Health Assessment▪ Telehealth	<ul style="list-style-type: none">▪ Direct Messaging Capability▪ Identity Management▪ Joint Federal Enclave▪ Military Personnel Data Transmission between DOD and VA▪ VA Digital Transformation



Phase 3: Performance Measurement

Categories of Performance Measures

CATEGORY	DEFINITION	EXAMPLES
Transactional Metric	A Performance Measure that counts the number of times a specific system activity or transaction occurs.	<ul style="list-style-type: none">▪ BlueButton record downloads▪ Number of prescriptions sent to pharmacies electronically
Programmatic Metric	A Performance Measure that is based on the completion of a program management milestone	<ul style="list-style-type: none">▪ Percentage of hospitals that are “live” with a new electronic prescribing system
Outcome Metric	<p>A Performance Measure that describes how often a desired end-result occurs in association with a specific system or process change.</p> <p>The outcome could be clinical, or it could be financial, efficiency, satisfaction, etc.</p>	<ul style="list-style-type: none">▪ Clinical: Improvement in cholesterol level in patients who had electronic prescriptions sent and filled▪ Efficiency: Reduced time required by pharmacist to fill an electronic prescription



Phase 3: Performance Measurement

Chart Search API

DESCRIPTION

The Chart Search API is a software program designed to reduce the amount of time needed for Benefits and Claims Examiners to complete the “evidence gathering” phase of the response to Veterans’ claim for benefits.

The Chart Search API will search multiple systems simultaneously, then allow “tagging” of specific information and transfer of the information to the Veteran’s case file.

CANDIDATE PERFORMANCE MEASURES

1. Delivery of Chart Search API software Iteration #1

PROGRAMMATIC

2. Number of Monthly Active Users (MAU) of the Chart Search API

TRANSACTIONAL

3. Number of searches performed with the Chart Search API in the past month

TRANSACTIONAL

4. Time in Queue for Evidence-Gathering Phase of Claim Review

OUTCOME

PRELIMINARY



Agenda

DOD-VA

Interoperability Modernization Strategy

- Overview
 - Phase 3: Performance Measurement Plan
 - Performance Measure “Down-Select”
 - Next Steps
 - Questions
-



Phase 1: Goals & Objectives

GOAL 1

Promote Health & Wellness

- 1A** Beneficiaries are empowered to manage their health and wellness
- 1B** Beneficiaries are empowered to manage their health care and benefits
- 1C** Health and benefits team members and public health organizations are able to access and analyze data and communicate findings and recommendations to improve individual- and population-level health and wellness
- 1D** Benefits and service providers deliver effective and efficient benefits and services

GOAL 2

Enhance the Delivery & Experience of Care

- 2A** Beneficiaries access health care and benefits regardless of location
- 2B** Beneficiaries have access to information to make informed choices about their health care providers and insurers
- 2C** Health and benefits team members provide care wherever the beneficiary is located
- 2D** Health and benefits team members practice safe and effective beneficiary-centered care
- 2E** Health and benefits team members experience reduced administrative burden and focus their time on beneficiaries
- 2F** Health and benefits team members are supported by information technology that meets their workflow and usability needs
- 2G** Patient safety and population health professionals identify, predict, monitor and prevent adverse events
- 2H** DOD, VA and members of the health care and benefits partner continuum promote sharing of health and benefits information among other federal, state and local entities in accordance with applicable laws and patient preferences

GOAL 3

Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

- 3A** Beneficiaries have the choice to contribute their data to research initiatives
- 3B** Researchers and IT professionals advance interoperability to better facilitate research and innovation
- 3C** Researchers and innovators leverage data and information technologies to build information systems that are evidence-based to advance health, health care delivery and provision of benefits

GOAL 4

Connect Health Care and Health Data

- 4A** Leadership in health and benefits delivery, finance, and technology optimize the value of information technology
- 4B** Leadership in information and technology enable seamless integration between systems to support health care and related benefits



Phase 3: Performance Measurement

Conceptual Approach

GOAL 1

Promote Health & Wellness

GOAL 2

Enhance the Delivery & Experience of Care

GOAL 3

Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

GOAL 4

Connect Health Care and Health Data

1A 1B 1C 1D

2A 2B 2C 2D 2E 2F 2G 2H

3A 3B 3C

4A 4B

Benefits and service providers deliver effective and efficient benefits and services

INITIATIVE
Chart Search API

PERFORMANCE MEASURE

Time in Queue for Evidence-Gathering Phase of Claim Review

OUTCOME

PERFORMANCE MEASURE

Number of Chart Searches Performed

TRANSACTIONAL

PERFORMANCE MEASURE

Number of Monthly Active Users (MAU)

TRANSACTIONAL

PERFORMANCE MEASURE

Delivery of Chart Search API Iteration 1

PROGRAMMATIC



Phase 3: Performance Measurement

Down-Selection

GOAL 1
Promote Health & Wellness

1A 1B 1C 1D

GOAL 2
Enhance the Delivery & Experience of Care

2A 2B 2C 2D 2E 2F 2G 2H

GOAL 3
Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

3A 3B 3C

Initial:

Numerous candidate Performance Measures identified and aligned to each Objective

GOAL 4
Connect Health Care and Health Data

4A 4B



Phase 3: Performance Measurement

Down-Selection

GOAL 1
Promote Health & Wellness

1A 1B 1C 1D

GOAL 2
Enhance the Delivery & Experience of Care

2A 2B 2C 2D 2E 2F 2G 2H

GOAL 3
Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

3A 3B 3C

GOAL 4
Connect Health Care and Health Data

4A 4B

Down-select:
Identify & retain the most illustrative Performance Measures



Phase 3: Performance Measurement

Down-Select

Considerations

1

Addresses Congressional Interest

Through legislation, hearings and communications, Congress has expressed interest in specific technologies, systems and processes. If a Performance Measure involves a technology, system or process with Congressional interest, it is prioritized.

2

Directly Measures Progress Toward Interoperability

Some Performance Measures track progress toward interoperability more directly than others. If a Performance Measure is designed to more directly track progress toward interoperability, it is prioritized.

3

Measures an Outcome

It has long been a goal of the health data interoperability (HDI) field to express the value of HDI in terms of health, efficiency, financial or other outcomes that matter to stakeholders. Performance Measures that track an outcome are prioritized.

4

Exhibits Strong Support for Multiple Objectives

Some Performance Measures emerge as highly illustrative of progress across multiple Objectives. If a Performance Measure demonstrates progress across multiple Objectives, it is prioritized.

5

Derived from a Foundational Initiative

The Interoperability Modernization Strategy contains six Initiatives whose effects on interoperability were so broad and pervasive, the Initiatives were considered “Foundational”. Performance Measures derived from Foundational Initiatives are prioritized.

6

Objectives with Few Performance Measures

During the process of generating Performance Measures and aligning them to Objectives, some Objectives have few Performance Measures aligned under them (3 or fewer). If an Objective has few Performance Measures aligned to it, then those Performance Measures are prioritized.



Phase 3: Performance Measurement

Down-Selection

GOAL 1
Promote Health & Wellness

1A	1B	1C	1D

GOAL 2
Enhance the Delivery & Experience of Care

2A	2B	2C	2D	2E	2F	2G	2H

GOAL 3
Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

3A	3B	3C

GOAL 4
Connect Health Care and Health Data

4A	4B

Goal:

A final, parsimonious set of the most illustrative Performance Measures for each Objective



Agenda

DOD-VA

Interoperability Modernization Strategy

- Overview
 - Phase 3: Performance Measurement Plan
 - Performance Measure “Down-Select”
 - Next Steps
 - Questions
-



Performance Measurement and Reporting

Transition to Metrics & Analysis IPT

DOD-VA

Interoperability Modernization Strategy

IPT

- Develop Goals and Objectives
- Outline candidate Performance Measures & related artifacts

FEHRM Metrics & Analysis (M&A) IPT

- Validate the scope of the IM Strategy PMP
- Validate M&A IPT membership
- Examine candidate Performance Measures
- Develop measure technical specifications
- Recommend reporting method, frequency of reporting, and responsible offices



Agenda

DOD-VA

Interoperability Modernization Strategy

- Overview
 - Phase 3: Performance Measurement Plan
 - Performance Measure “Down-Select”
 - Next Steps
 - Questions
-



Questions
