

Medicaid Information Technology Architecture

Table of contents

What is MITA	8
Standards and Conditions	9
MITA 4.0 Goals	9
MITA 4.0 Design Principles	9
Versions of MITA	11
Concepts	11
Introduction to MITA 4.0	12
MITA Capability Model	15
Model Objective	15
Model Definition	15
MITA 3.0 vs. MITA 4.0 Capabilities	15
Model Structure	16
Model Application	16
Model Contents	17
Purpose	18
Update to MITA 3.0	18
Relationship of MITA Capabilities to Outcomes	19
Capability Mapping	21
Organizing Capabilities	22
MITA Capability Models	23
Relationship of MITA Capabilities to Maturity	24
Using Capability Maps for Heat Mapping Strategic Priorities and Identifying Gaps with the MITA Maturity Model	25
Guidance on reuse of the MITA Capability Model	27
ORBIT Overview	29
—	30

MITA 4.0 Process	31
Solution Planning Lifecycle	32
MITA 4.0 Enterprise Strategic Planning	32
Output of Outcomes Based Planning	33
Step 2: Identify Capabilities	34
Step 3: Identify Roles, Process, Information, Technology	35
Define Capability Architecture	36
Guidance	37
Step 5: Assess Maturity	38
Assess Maturity	39
Source	40
—	41
 MITA 4.0 Companion Guide	 42
Overview	43
Purpose	43
Reference(s)	43
Audience	43
Introduction	44
Enterprise Architecture Introduction	44
Business Architecture Introduction	44
Information Architecture Introduction	44
Technical Architecture Introduction	45
Goals	45
Outcome	45
Principles	46
Business Architecture Principles	46
Information Architecture Principles	46
Technical Architecture Principles	46

Develop Capability Architecture Process	47
Define Architectural Approach	47
Define Business Architecture Approach	47
Define Information Architecture Approach	47
Develop Baseline Capability Architecture	48
Develop Baseline Capability Business Architecture	48
Develop Baseline Capability Information Architecture	48
Develop Baseline Capability Technical Architecture	48
Define Target Capability Architecture	49
Develop Target Capability Business Architecture	49
Develop Target Capability Information Architecture	49
Develop Target Capability Technical Architecture	49
Align Architecture & Compile Concept of Operations	49
Perform Gap Analysis	49
Perform Business Architecture Gap Analysis	49
Perform Information Architecture Gap Analysis	49
Using the Capability Architecture	51
Using the Capability Business Architecture	51
Using the Capability Information Architecture	51
Using the Capability Technical Architecture	51
MITA 3.0 vs. 4.0 Architecture Development Process	52
Seven Standards and Conditions	52
Appendix A	52
—	53
MITA Reference Models	54
MITA Capability Model	55
Core Capabilities	56
Strategic Capabilities	57
Support Capabilities	58
Role Reference Model	59
Business Reference Model	60

MITA Capability Model	61
Introduction to Business Capability Models	61
Purpose	62
Update to MITA 3.0	62
The MITA Definition of Capability	63
Structure of the MITA Capability Model	63
Relationship of MITA Capabilities to Outcomes	65
Capability Mapping	68
Organizing Capabilities	69
MITA Capability Models	70
Relationship of MITA Capabilities to Maturity	71
Using Capability Maps for Heat Mapping Strategic Priorities and Identifying Gaps with the MITA Maturity Model	72
Guidance on reuse of the MITA Capability Model	74
About	76
MITA TA Capability Model	77
TA Domain Area Descriptions	78
—	82
MITA Maturity Model	83
MITA 4.0 Maturity Reference Model Document	84
Version History	84
Document Overview	84
Document Purpose	84
Audience	85
Model Overview	85
Maturity Model Purpose	85
Maturity Model Goals	85
Maturity Model Methodology and Guiding Principles	86
Maturity Model Levels and Definitions	87
Using the MITA Maturity Model in the MITA 4.0 Framework	87
Background on MITA 4.0 Capabilities and the Capability Reference Model	87
MITA 4.0 Capabilities and Maturity Assessment	88
Maturity Criteria	88
Outcomes (optional)	88
Roles (optional)	89
Business Architecture and Performance of Business Processes	89

Information and Data	89
Technology	90
Using Personas to describe Maturity Levels	90
Roles	91
Business Architecture Maturities	92
Information Architecture Criteria	93
Summary	94
Criteria	95
Reference	121
Assignments	126
Data Role Reference Model	127
Technical Architecture Maturities	128
—	129
MITA Artifacts & Templates	130
Output of Outcomes Based Planning	131
CONOPS overview	132
BA Viewpoints	133
IA Viewpoints	134
TA Viewpoints	135
Roadmap	136
MITA Scorecard	137
SS-A Output	138

Guidance for generating and submitting MITA SS-A results (Scorecards) to CMS in the correct format	139
Template (fill in all placeholders as applicable)	139
Notes	141
Open-Source SS-A Tool	142
—	143
References	144
References	145
Medicaid Information Technology Architecture Framework	146
—	147
Help Improve this Content	148

What is MITA



MEDICAID INFORMATION TECHNOLOGY ARCHITECTURE

The Medicaid Information Technology Architecture (MITA) Framework is an initiative by the Centers for Medicare & Medicaid Services (CMS) in partnership with State Medicaid Agencies (SMAs) and Medicaid systems vendors. It aims to establish national guidance and best practice references for processes, data standards, and technologies that facilitate planning and enhance program administration for State Medicaid Enterprises. Building upon the foundation of previous versions, MITA 4.0 supports the Medicaid mission and goals by facilitating integrated business and information technology transformations. This version refines, refocuses, and repurposes MITA to better align with the evolving needs of SMAs.

MITA 4.0 introduces several new approaches to enhance its relevance and accessibility, with the goal of making it more meaningful for stakeholders while streamlining processes to reduce the burden on state agencies. The framework incorporates various state agency viewpoints to improve efficiency and better align with the Advanced Planning Document process, certification outcomes, and state agency acquisition processes. Additionally, MITA 4.0 provides guidance that reflects current healthcare and IT trends, ensuring that it remains at the forefront of technological advancements.

By focusing on these enhancements, MITA 4.0 ensures that technology decisions align with Medicaid business needs, optimizing adaptability, flexibility, interoperability, and data sharing. This evolution enables significant improvements in policy, decision-making, and daily operations, ultimately advancing the capabilities of State Medicaid Enterprises.

- MITA Framework is a consolidation of principles, models, and guidelines that combine to form a template for the States to use to develop their own enterprise architectures.
- MITA processes provide guidance for State Medicaid Enterprise to use in adopting the MITA Framework through shared leadership, collaboration, and reuse of solutions.
- MITA planning guidelines help States prepare the MITA State Self-Assessment (SS-A) and Roadmap to develop enterprise architectures to align to and advance increasingly in MITA maturity for business, architecture, and data. The guidelines serve as the basis

for a state's requests for appropriate Federal Financial Participation (FFP) for their Medicaid Management Information Systems (MMIS) as well as Medicaid Information Technology (IT) system(s) projects related to eligibility determination and enrollment functions.

Standards and Conditions

The MITA framework plays an important role in helping states meet the standards and conditions outlined in [Standards and Conditions within 42 CFR 433.112](#) required for enhanced federal financial participation (FFP) for Medicaid technology investments funded through an approved APD. By providing a structured approach to planning and development, MITA assists states in aligning their technology solutions with Medicaid business needs and federal requirements. It encourages the use of modular, flexible systems that promote interoperability and data sharing, ensuring that states can effectively coordinate with other health services and systems. MITA also guides states in preparing their Advanced Planning Document (APD) submissions, offering a roadmap to compliance and efficiency. This alignment not only facilitates adherence to federal standards but also supports states in achieving their Medicaid program goals more efficiently, effectively, and sustainably, optimizing adaptability and enhancing overall program administration.

MITA 4.0 Goals

- Develop seamless and integrated systems that communicate effectively to achieve common Medicaid goals through interoperability and common standards.
- Promote an environment that supports flexibility, adaptability, and rapid response to changes in programs and technology.
- Promote an enterprise view that supports enabling technologies that align with Medicaid business processes and technologies.
- Provide data that is timely, accurate, usable, and easily accessible in order to support analysis and decision making for health care management and program administration.
- Provide performance measurement for accountability and planning.
- Coordinate with public health and other partners to integrate health outcomes within the Medicaid community.

MITA 4.0 Design Principles

During the development of MITA 4.0, workgroup participants identified a set of core principles designed to prioritize updates MITA 3.0 that make MITA more meaningful and accessible

to SMAs. These principles ensure that MITA remains a relevant and valuable tool for State Medicaid Agencies and their stakeholders.

Define Clear Linkages Between Capabilities and Outcomes: Establish clear definitions for both MITA Capabilities and Outcomes, and articulate the relationship between outcomes and the MITA architectures. This principle ensures that every capability is directly aligned with desired outcomes, linking strategic objectives with operational execution in a coherent framework.

Business-Driven Transformation: Define business transformations with a focus on aligning IT solutions with both common and unique state needs. This principle ensures that technology initiatives are directly informed by business objectives, leading to more effective and tailored solutions.

Standards First: Promote data and technical standards to improve IT development cost-effectiveness. By prioritizing standards, we aim to streamline processes and reduce complexity, ultimately enhancing interoperability and efficiency.

Reduce Burden on SMAs: Simplify processes and requirements to alleviate the administrative load on State Medicaid Agencies, enabling them to focus more on service delivery and less on compliance.

Enable Automation: Encourage the adoption of automated processes to increase efficiency and accuracy in Medicaid operations, reducing manual intervention and the potential for errors.

Release Guidance Aligned with Current Trends: Provide guidance that reflects the latest trends in healthcare and IT, ensuring that MITA 4.0 remains relevant and forward-looking in its approach to Medicaid management.

Integrate with Other Activities: Enhance the integration of MITA with related activities such as APD development, Certification, T-MSIS reporting, and state procurement processes. This principle aims to create a cohesive framework that supports comprehensive Medicaid management and aligns with broader state and federal initiatives.

Transition to a Web-Enabled Presentation: Move from the static, PDF-based MITA 3.0 to a dynamic, web-enabled format. This principle facilitates easier maintenance and continuous improvement by the community, allowing for real-time updates and enabling stakeholders to access the most current information. By fostering a collaborative environment, we encourage the sharing of insights and innovations, making MITA a more robust and adaptable framework for all users.

These principles are foundational to the development and implementation of MITA 4.0, ensuring it effectively supports the evolving needs of Medicaid operations.

Versions of MITA

— dev a change matrix showing dif between versions —

Concepts

- **Outcomes:** Define what SMAs aim to achieve through the implementation of MITA.
- **Business Process Model:** Define common business processes for the Medicaid Enterprise.
- **Maturity Model:** Illustrate the maturation of Medicaid operations over time.
- **Capability Matrices:** Align business, information, and technical capabilities with the Maturity Model.
- **State Self-Assessment (SS-A):** Represent current and future business, information, and technical capabilities.

MITA 4.0 ensures that technology decisions align with Medicaid business needs, optimizing adaptability, flexibility, interoperability, and data sharing. This evolution enables significant improvements in policy, decision-making, and daily operations. Explore the MITA 4.0 Framework to advance your State Medicaid Enterprise.

Introduction to MITA 4.0

Why Adopt MITA?

The MITA Initiative provides significant benefits to Medicaid stakeholders, including the public, states, and the federal government.

Helping the Public

MITA helps the public by making it easier for people to access healthcare. MITA helps improve the quality of care and drives data for decision-making to improve health outcomes and public safety. It also makes Medicaid enterprise systems more efficient, reduces fraud, and saves money by using standardized practices and reusable tools.

Helping the States

MITA helps states by supporting Medicaid program management and health reform efforts. MITA promotes prevention and wellness through collaboration and aligning technology with Medicaid priorities to get the most out of investments and support national health initiatives.

Helping CMS

MITA helps the federal government by streamlining how CMS reviews state Medicaid IT plans, aligning with national health goals and making better use of resources. MITA enhances coordination across agencies to improve processes, inform decisions, and lower costs for developing systems.

How is MITA 4.0 Different?

MITA 4.0 builds on MITA 3.0 to support Medicaid's mission by helping states modernize their business processes and technology systems to improve the administration of their Medicaid programs. MITA 4.0 evolves and refines the MITA framework to better meet the changing needs of State Medicaid Agencies.

Click the image below to learn more:

MITA Capability Model

Model Objective

The MITA 4.0 Capability Reference Model is a key component of the MITA 4.0 Framework. The primary objective of the reference model is to support the alignment of capabilities across SMA's to enable leverage, reuse and interoperability across SMA's.

Model Definition

A capability is defined as an ability that an SMA possesses or seeks to develop to achieve its goals and meet its desired outcomes. It represents what the SMA can do without attempting to explain how, why or where the SMA uses the capability. It may be an ability that may exist within the SMA today or be required to enable a new direction or reach a new desired outcome. Each capability is composed of the following:

- Outcomes – The definition of the desired outcomes that require the capability to be achieved.
- Roles – The individual roles that are responsible for providing the capability.
- Business Processes – The business processes that are performed to deliver the capability.
- Information – The information and the data management capabilities that are needed to deliver the capability.
- Technology – The technology that is used to automate the capability.

MITA 3.0 vs. MITA 4.0 Capabilities

MITA 3.0 defines capabilities as the competence of an individual, organization or system to perform a function or process. The MITA 4.0 framework changes the definition of a capability to not include the concept of competence. The capability in MITA 4.0 focuses only on the ability that an SMA possesses or seeks to develop, agnostic of how well the SMA performs that capability. The purpose of the state self-assessment (SS-A) in MITA 4.0 is to assess the maturity of the capability and how well the SMA performs the capability based on the outcomes, roles, business processes, information and technology that an SMA has defined and implemented to support that capability. The MITA 4.0 capabilities are closely aligned to the following concepts in MITA 3.0:

- MITA 3.0 Business Areas and Categories
- Technical Service Areas and Classifications

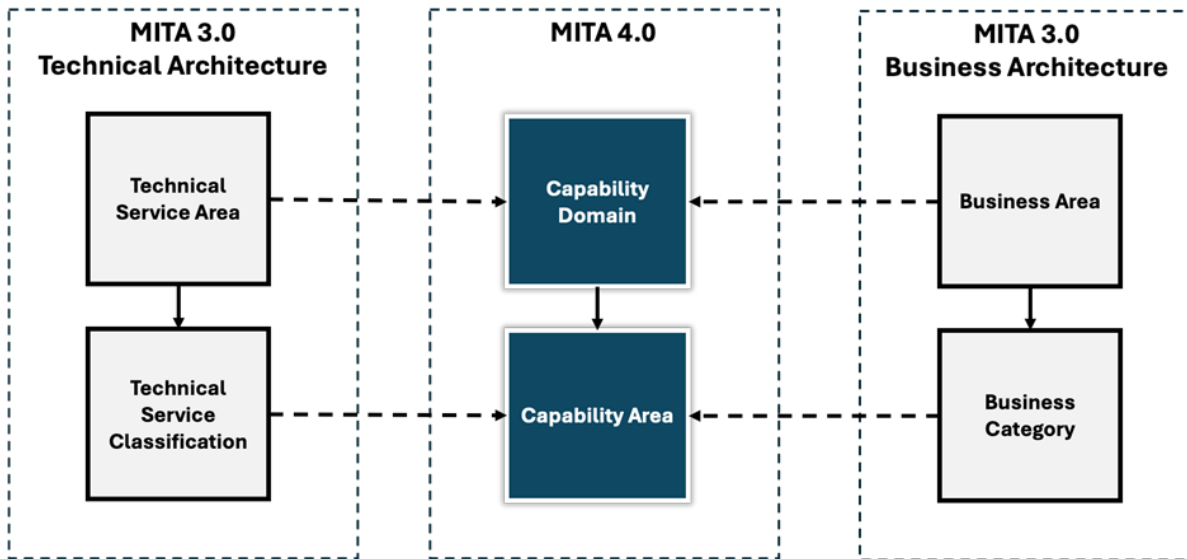


Figure 1: MITA 4.0 vs. MITA 3.0 Capabilities

Model Structure

A capability reference model is an abstract framework that defines concepts used for grouping capabilities that share a common meaning. It is used to establish a shared definition of capability concepts that cross organizational boundaries and helps to identify opportunities for sharing, leveraging and reuse. The MITA 4.0 Capability Reference Model is designed to identify the key capability concepts that are needed to support the Medicaid Program and achieve the goals and outcomes established for MITA 4.0. The MITA 4.0 Capability Model is grouped into (2) levels including:

- Capability Domain - High-level capability used to group common capabilities
- Capability Area – Detailed capabilities that decomposes the capability domain into sub-capabilities that can be used by SMA’s to classify their capabilities. There are one to many distinct Capability Areas for each Capability Domain. Each Capability Area can have one to many distinct Capabilities defined within it .

Model Application

SMA’s will use the MITA 4.0 Capability Reference Model to classify their own capabilities. The MITA 4.0 Capability Reference Model provides SMA’s the freedom to define their capabilities based on their own state-specific needs. The SMA’s should use the capability domains and areas in the reference model to classify their state-specific capabilities. Using the reference model enables alignment of capabilities across SMA’s and enables states and CMS the ability

to do the following:

- Identify opportunities to collaborate, leverage and reuse.
- Consistently assess and report capability maturity.

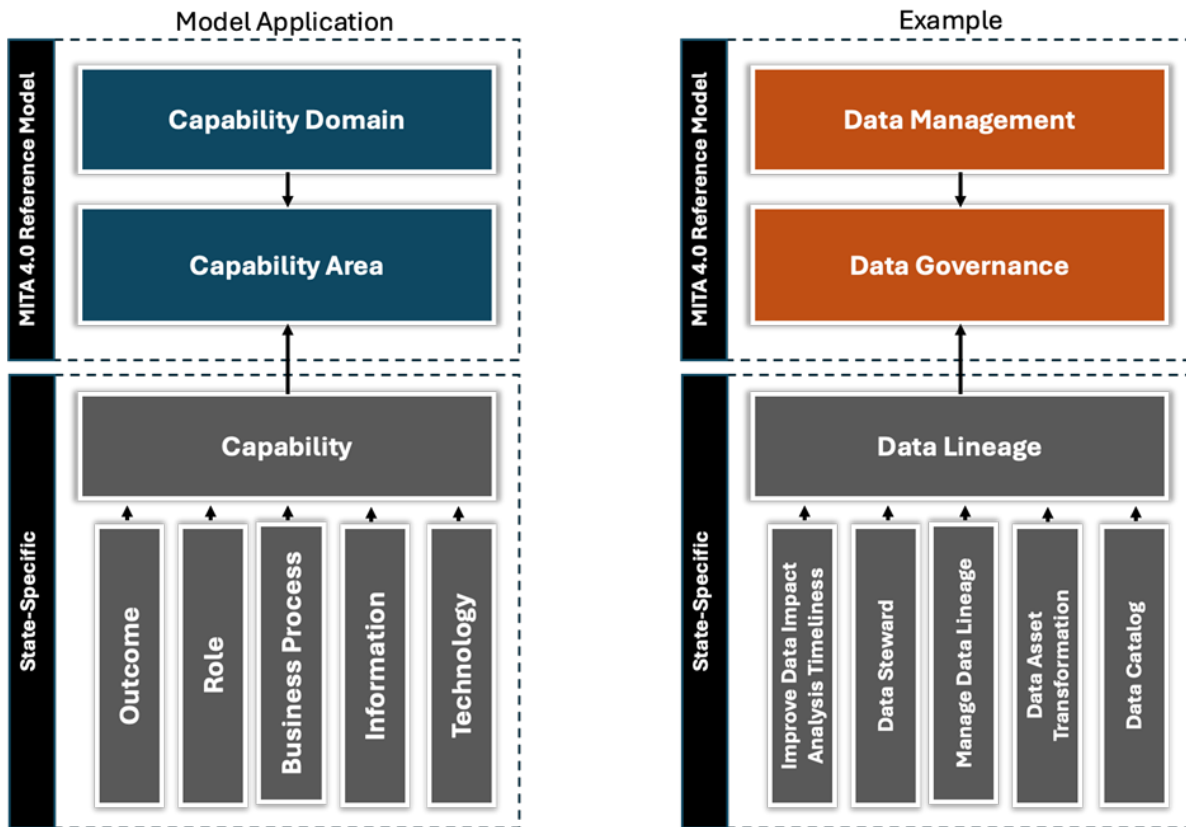


Figure 2: MITA 4.0 Reference Model Application Example

Model Contents

The capability domains identified in the MITA 4.0 Capability Reference Model are organized into (3) distinct groups including:

- **Strategic** – Identifies capabilities that an SMA possesses or seeks to develop that enable them to establish and maintain its enterprise strategy.
- **Core** – identifies capabilities that an SMA possesses or seeks to develop that enable them to meet its mission and achieve its desired outcomes.
- **Support** – Identifies capabilities that an SMA possesses or seeks to develop that are not specific to its mission but are critical for the core and strategic capabilities.

Purpose

i Note

MITA 4.0 does not endeavor to specify all of the capabilities SMA's may need to administer Medicaid programs; instead, this version of MITA focuses on the capabilities that are most closely oriented towards achieving the CMS-required outcomes.

Understanding the how the MITA Capability Model works is important to obtaining the most value out of many of the other tools and artifacts in the MITA framework, such as the MITA Maturity Model (MMM) and the Business Process Model (BPM). The MITA Capability Model provides a structured way for SMAs to identify, conceptually model, and improve the capabilities needed for efficient Medicaid operations.

It is important to note that MITA 4.0 does not endeavor to specify all of the capabilities SMA's may need to administer Medicaid programs; instead, this version of MITA focuses on the capabilities that are most closely oriented towards achieving the CMS-required outcomes. In this way MITA 4.0 provides a reference model for SMAs to model other capabilities that may be needed to achieve their other goals such as state specific outcomes, or other state priorities while providing more guidance within the MITA Framework to support modular.

Update to MITA 3.0

MITA 3.0 defined a capability as the level of maturity of a set of business processes within a business category. By focusing on “how” MES operate MITA 3.0 helped SMA's identify ways to improve and mature their business processes, but it did not link those processes with the outcomes they are intended to achieve or ensure better alignment of the information and technical architectures to business outcomes. The addition of the MITA capability model to the MITA 4.0 business architecture addresses that by providing the conceptual linkages needed to elevate the strategic vantage point of the MITA Framework. To guide this change, we present within this chapter a definition, description, and approach to modeling business capabilities, based on the widely used capability models contextualized for Medicaid Enterprises.

The business processes that operationalize MITA capabilities remain foundational to characterizing the business architecture, and are by definition a constituent part of any MITA capability. They provide essential information on how capabilities are operationalize and should continue to be a routinely utilized reference model for SMA business process mapping. They are found with in the Business Process Model chapter of this version of MITA.

Relationship of MITA Capabilities to Outcomes

In the context of the Medicaid Information Technology Architecture (MITA), outcomes are intrinsically linked to capabilities, as they represent the tangible results achieved through the effective integration and execution of various elements that constitute a capability. In this sense, outcomes and capabilities define each other.

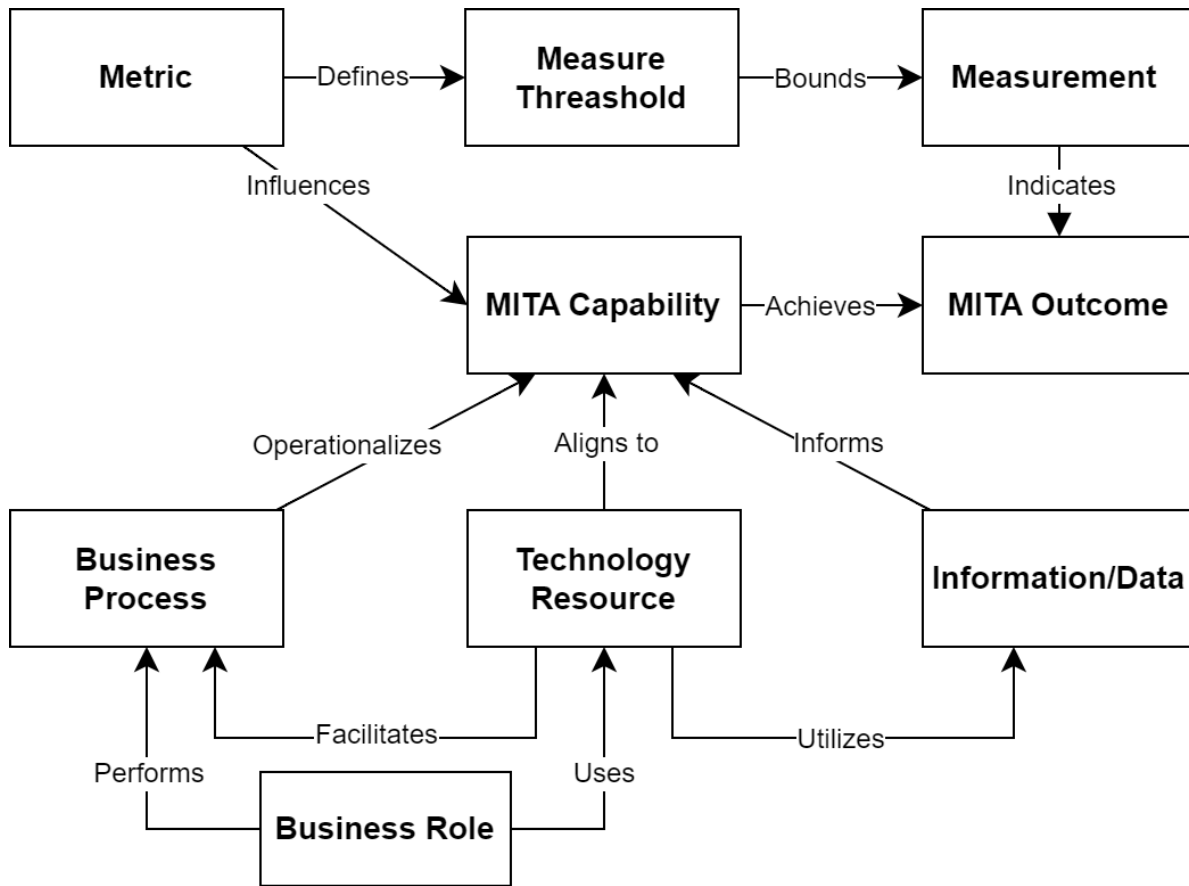


Figure 3: MITA Capability and Outcome Relationship Diagram

Outcomes

MITA defines outcomes broadly to encompass CMS-required outcomes, state-specific outcomes, and other outcomes not mandated as part of the Advance Planning Document (APD) process. The sole criterion for an outcome to meet this definition is that it must be a goal of a State Medicaid Agency (SMA) and be achieved through a Medicaid Enterprise System (MES) capability.

Key Definition

A MITA outcome is a goal of a State Medicaid Agency (SMA) that is achieved by a Medicaid Enterprise System (MES) capability.

Measure

Measure is a quantifiable metric used to assess the effectiveness and efficiency of capabilities within a Medicaid Enterprise System (MES). Measures provide quantifiable and qualitative values that help State Medicaid Agencies (SMAs) track progress toward achieving specific outcomes, such as CMS-required or state-specific goals. These indicators might include metrics like processing times, error rates, or compliance levels.

Measures are a measurement threshold by establishing a specific value or level that must be met or exceeded to demonstrate successful performance. For instance, a KPI might set a threshold for the maximum allowable processing time for claims, ensuring that they are handled within a specified timeframe to maintain compliance and eligibility for enhanced federal funding. By monitoring these thresholds, organizations can ensure they are meeting regulatory requirements and delivering high-quality services to beneficiaries, while also identifying areas for improvement.

Measure Threshold

A specific value or level of a measure that must be met or exceeded to demonstrate the effective achievement of a capability's intended outcome. This threshold serves as a benchmark for assessing whether the processes, roles, and resources integrated within a Medicaid Enterprise System (MES) are functioning optimally to meet the goals of a State Medicaid Agency (SMA). For example, a measurement threshold might be set for processing times, where claims must be processed within a certain number of days to ensure compliance with CMS-required outcomes and maintain eligibility for enhanced federal funding. By establishing and monitoring these thresholds, organizations can ensure they are meeting regulatory requirements and delivering high-quality services to beneficiaries.

Measurement

These outcomes and metrics are also used to ensure that healthcare systems or modules comply with applicable federal regulations, forming the baseline for system or module functionality. Achieving these outcomes is essential for continuing to receive enhanced federal funding for operations. Regular measurement and analysis of KPIs help organizations demonstrate compliance and effectiveness, ensuring that they meet regulatory requirements and continue to deliver high-quality services to beneficiaries.

In this way we can clearly interrelate all of the MITA architecture models and their individual components with the KPIs, thresholds, and measurements that indicate whether our capability achieves our desired outcome.

While models that help conceptualize the capabilities that achieve CMS-required outcomes are the ones modeled for this version of MITA, SMAs are encouraged to use these models as a reference to model capabilities.

Capability Mapping

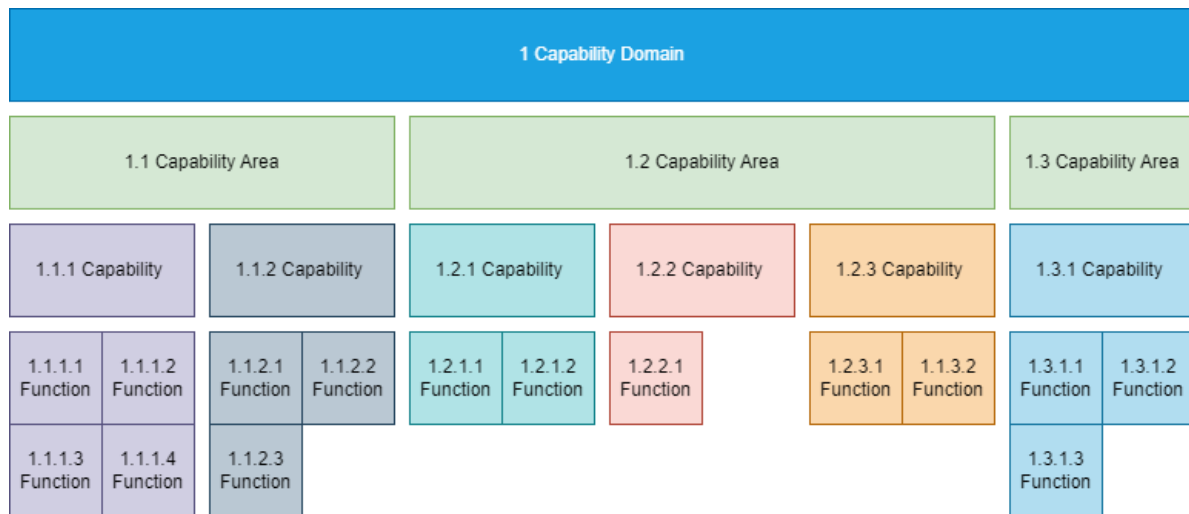
Capability mapping is a strategic tool that enables organizations, such as State Medicaid Agencies (SMAs), to systematically identify, organize, and visualize the key capabilities necessary to achieve their objectives. Within the MITA framework, capability mapping provides SMAs with a method of developing comprehensive views of the functions and processes required to deliver Medicaid services effectively. To begin the capability mapping process, SMAs should first identify the core capabilities that align with their strategic objectives, focusing on what the organization needs to achieve rather than how those goals are accomplished. This involves listing all necessary capabilities and understanding the desired outcomes they support. Next, these capabilities should be organized into domains and areas that reflect their strategic importance and interrelationships. Visualizing these capabilities through diagrams or maps provides all stakeholders a common view to understand the roles, processes, technology resources, and information/data involved in executing each capability, as well as the outcome each capability is designed to achieve. This structured approach not only highlights areas for improvement or investment but also ensures that organizational efforts are strategically aligned with desired outcomes.

The benefits of capability mapping are multifaceted, offering SMAs a clear pathway to strategic alignment and gap analysis. By visualizing capabilities, organizations can identify operational gaps and determine what new or enhanced capabilities are needed to close those gaps. This visualization also improves communication among stakeholders by providing a clear and concise representation of the organization's functions. To refine capabilities, SMAs should analyze current operations, assess the efficiency of underlying processes, and optimize them to enhance capability effectiveness. Additionally, capability mapping serves as a foundation for heat mapping, which assesses the MITA Framework will utilize to visualize the maturity of each capability evaluated in the State Self-Assessment. SMAs can overlay heat maps over their capability maps to visualize many things other than maturity levels, using color coding to indicate areas of strength and weakness. Regular updates to these maps allow SMAs to monitor progress and ensure resources are allocated effectively to achieve strategic goals. The MITA framework includes examples of capability maps based on CMS-required outcomes, serving as a reference model for SMAs to develop their own capability maps tailored to state-specific goals and priorities. By leveraging the reference models provided by MITA, SMAs can ensure

their capability mapping efforts are aligned with both federal requirements and state-specific priorities.

Organizing Capabilities

To enhance the resolution and detail of a capability and provide a unified view of all its components, a block diagram can be employed to provide a common view of any MES. This diagram effectively links the capability to business processes, roles, technical resources, and information resources through functional decomposition. By breaking down the capability into its constituent parts, the block diagram offers a visual representation that highlights the interrelationships and dependencies among these elements. This approach provides a clearer understanding of how each component contributes to the overall capability, facilitating more effective analysis, optimization, and alignment with organizational objectives.

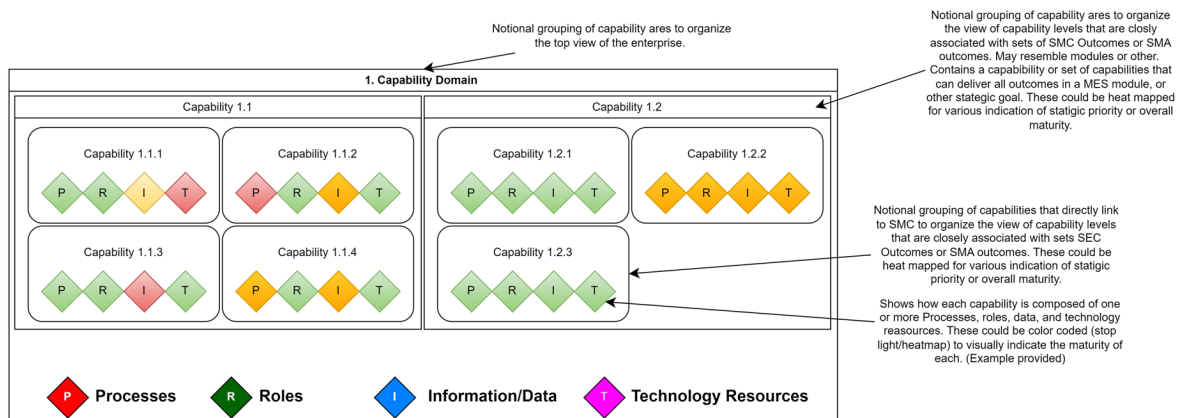


We use this same method to present an this top level view of the capabilities required to achieve CMS-required outcomes. From this view increasingly detailed models can be constructed.



MITA Capability Models

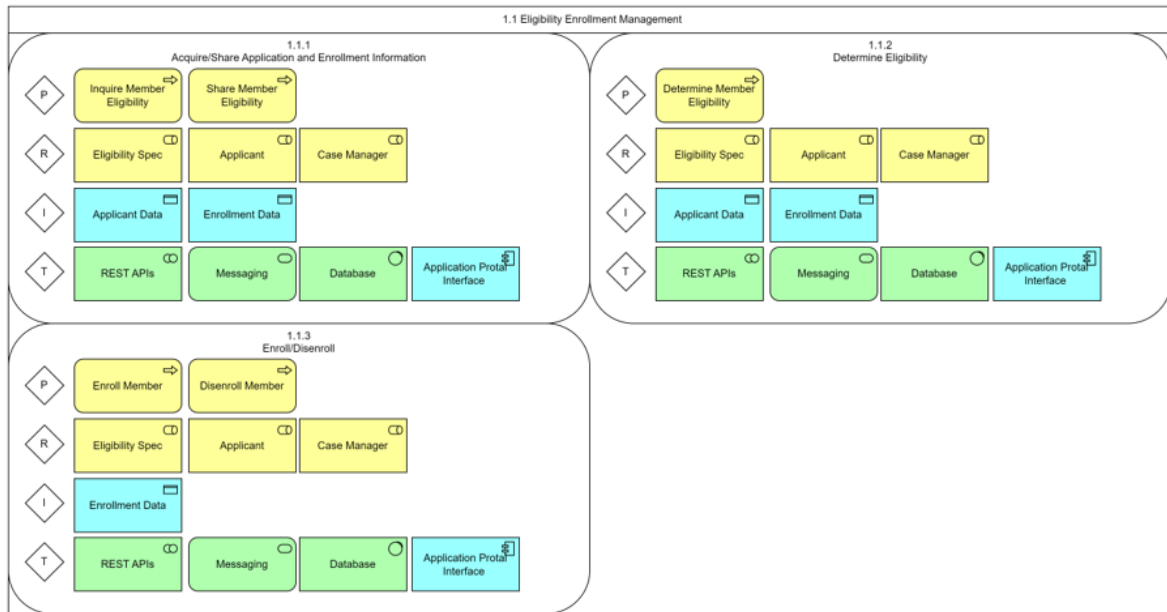
The MITA framework represents capabilities visually through a layered model that represent a capability of being composed of sub-capabilities and the processes, roles, information and technology resources (PRIT) that support the business in sustaining the capability. Each layer up depicts increasingly strategic capabilities and each layer down depicts the constituent elements that compose a capability in increasing operational detail. It is not the intention of this version of MITA to provide a full operational or tactical view of a capability, though SMAs may consider using this approach to improve their organizational awareness of their operations by developing further layers of their capabilities through functional decomposition.



- **Capability Domains:** The first layer of this model aims to group capabilities to organize the strategic view of an SMA's capabilities. In this view one or many capabilities can be

grouped within a domain to indicate the pursuit of common outcomes. Each domain is denoted with a single number to help annotate each capability.

- **Capability Areas:** The second layer of this model aims to provide a view of the groups of capabilities that compose a domain. They are organized to show capabilities that serve a specific group of similar outcomes and essential
- **Capabilities:** The third layer of this model provides a more detailed view view of



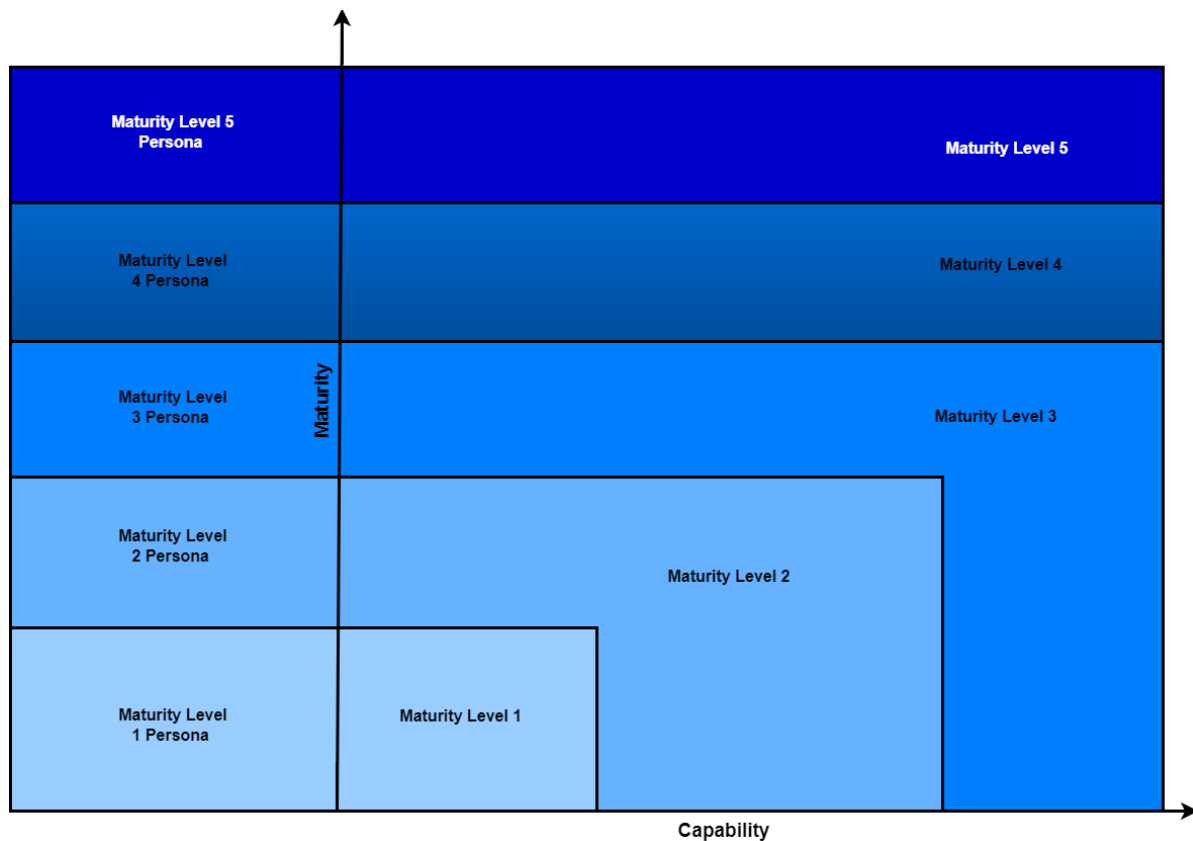
Relationship of MITA Capabilities to Maturity

Warning

Under development.

• Levels of Maturity

- Description of the five levels of maturity in the MITA framework
- How capabilities evolve and mature over time



Using Capability Maps for Heat Mapping Strategic Priorities and Identifying Gaps with the MITA Maturity Model

Capability maps are powerful tools that not only provide a visual representation of an SMA's key capabilities but also serve as a foundation for strategic analysis and planning. There are many approaches to heat mapping capabilities, each offering unique insights into organizational priorities and gaps. Here, we describe two approaches: assessing maturity levels using the MITA Maturity Model and prioritizing strategic outcomes.

Identifying Gaps with the MITA Maturity Model

The MITA Maturity Model provides a framework for assessing the maturity of an organization's capabilities across various dimensions, such as business processes, information, and technology. By integrating the maturity model with capability maps, SMAs can identify gaps between their current state and desired maturity levels.

Example 1: Identifying Gaps in Data Management Maturity Using the PRIT Model

An SMA is conducting an assessment of its data management capabilities using the MITA Maturity Model, with a focus on the PRIT (Processes, Roles, Information, and Technology) framework. The capability map includes various data-related capabilities, such as “Data Integration,” “Data Quality Management,” and “Data Analytics.” Each of these capabilities is evaluated across the PRIT dimensions to determine their maturity levels using the revised scale:

Processes: Level 1: Ad-Hoc Roles: Level 2: Compliant Information: Level 2: Compliant Technology: Level 2: Compliant The capability map is updated to reflect the maturity assessment, with each dimension marked with a color code: red for Level 1: Ad-Hoc, yellow for Level 2: Compliant, green for Level 3: Efficient, blue for Level 4: Optimized, and purple for Level 5: Pioneering. This visualization helps the SMA prioritize strategic actions to enhance the “Data Integration” capability, such as standardizing processes, refining roles, improving data quality, and upgrading technology.

Heat Mapping Strategic Priorities

Heat mapping involves applying a color-coded overlay to a capability map to visually represent the status or priority level of each capability. This technique can be used to highlight areas of strength, weakness, or strategic importance. For example, capabilities that are critical to achieving CMS-required outcomes might be marked in one color, while those needing immediate attention or improvement could be marked in another. This visual representation helps stakeholders quickly grasp the strategic landscape and make informed decisions about where to allocate resources and focus efforts.

Example 2: Prioritizing Capabilities for CMS-Required Outcomes

An SMA is focused on achieving specific CMS-required outcomes related to improving patient care and reducing administrative costs. The agency creates a capability map that outlines all the capabilities necessary to meet these outcomes. By applying a heat map, the SMA highlights capabilities that are directly linked to these outcomes in green, indicating they are of high strategic priority. Capabilities that are indirectly related or less critical are marked in yellow, while those that are currently underperforming or not aligned with strategic goals are marked in red.

This visual representation allows the SMA to quickly identify which capabilities require immediate attention and resources to ensure compliance with CMS requirements. For instance, if the capability related to “Claims Processing Efficiency” is marked in red, the agency can prioritize initiatives to enhance this capability, such as investing in new technology or streamlining processes.

Other Uses for Capability Heat Mapping

Beyond assessing maturity levels and prioritizing strategic initiatives, capability heat mapping can be applied in various other contexts to enhance organizational effectiveness and alignment.

Example 3: Aligning Capabilities with State-Specific Initiatives

An SMA is working on a state-specific initiative to enhance telehealth services for rural populations. The capability map includes capabilities related to telehealth, such as “Telehealth Infrastructure,” “Provider Engagement,” and “Patient Access.” The SMA uses a heat map to highlight these capabilities in blue, indicating their alignment with the state-specific initiative.

By analyzing the capability map, the SMA identifies that “Provider Engagement” is a critical capability that requires further development to support the telehealth initiative. The agency decides to invest in training programs and outreach efforts to engage providers in rural areas, ensuring that the telehealth services are effectively delivered to the target population.

These examples demonstrate how capability maps, combined with heat mapping and the MITA Maturity Model, can provide valuable insights for strategic planning and gap analysis. By visualizing priorities and maturity levels, SMAs can make informed decisions about where to focus resources and efforts, ultimately enhancing their Medicaid Enterprise Systems and achieving strategic objectives.

- **Capability Mapping**
 - Introduction to capability mapping and its significance
 - How capabilities are organized and detailed at various levels of abstraction

Guidance on reuse of the MITA Capability Model

- **Practical Application**
 - How to integrate the capability model into daily operations and strategic planning
 - Tips for maximizing the benefits of the model
- **Continuous Improvement**
 - Encouragement for ongoing assessment and refinement of capabilities
 - Leveraging feedback and performance data for model enhancement
- **Implementation Guidance**
 - Steps for adopting the capability model
 - Resources and support available for SMAs
- **Performance Monitoring and Reporting**

- Role of the capability model in tracking and enhancing performance
- Use of metrics and standards to measure capability effectiveness

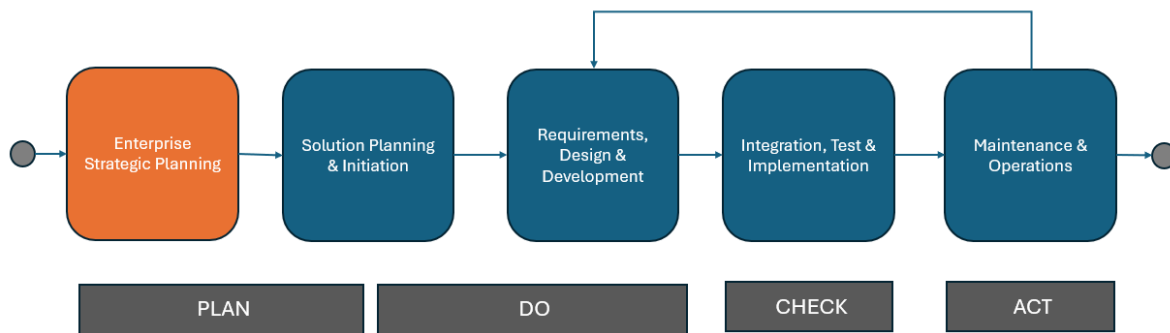
ORBIT Overview

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MITA 4.0 Process

Solution Planning Lifecycle



Placeholder content for Solution Planning overview.

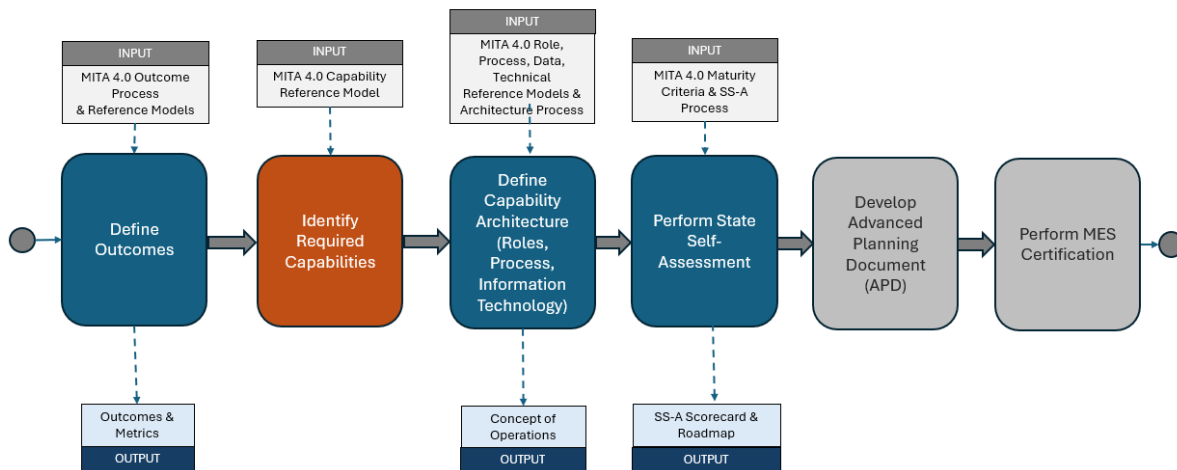
MITA 4.0 Enterprise Strategic Planning

Placeholder content for Enterprise Strategic Planning overview.

Output of Outcomes Based Planning

TODO: OBP group to update and edit

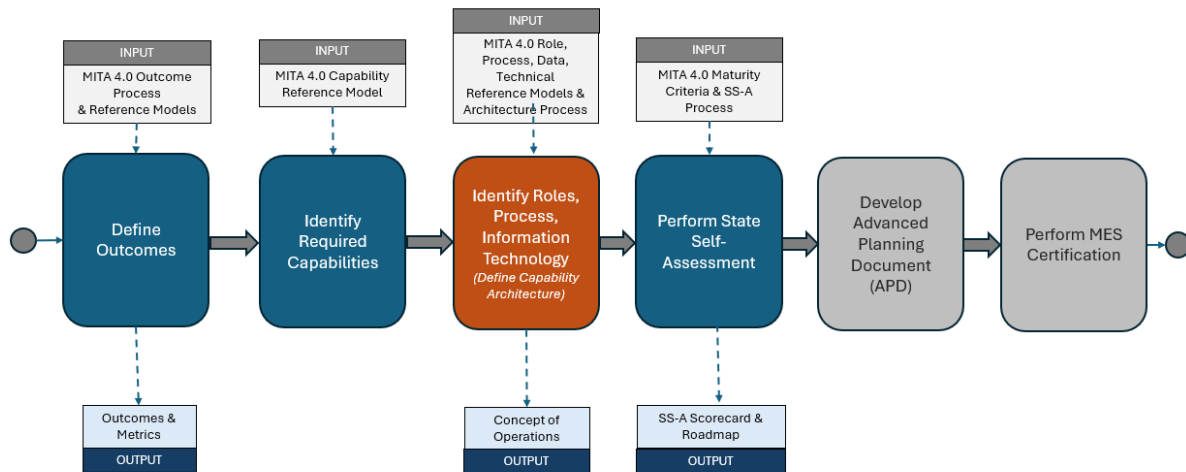
Step 2: Identify Capabilities



TODO: NextGen to update and edit

Step 3: Identify Roles, Process, Information, Technology

Define Capability Architecture



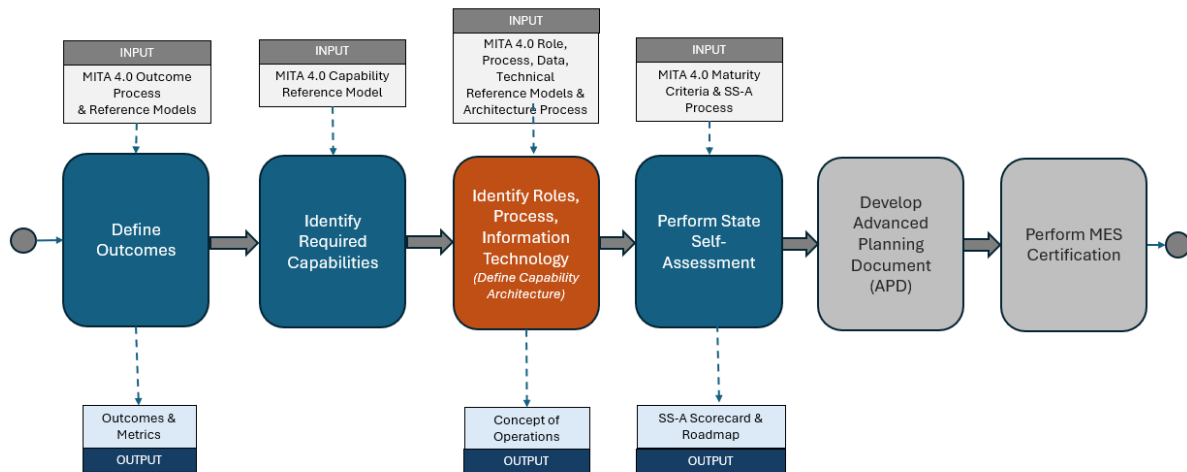
Guidance

Use the [MITA Companion Guide](#) to define your Capability Architecture

Step 5: Assess Maturity

TODO: SS-A group to update and edit

Assess Maturity



Source

<https://mitre.app.box.com/file/2001074303896?s=frg0y7grikal4opulpwgud7qv7z3vjm7>

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MITA 4.0 Companion Guide

Overview

Purpose

TBD

Reference(s)

TBD

Audience

The primary audience for this document includes but is not limited to:

- MITA 4.0 NextGen Members
- MITA 4.0 SS-A Workgroup Members
- MITA Governance Board
- MESC MITA 4.0 Workshop Participants

Introduction

Enterprise Architecture Introduction

Business Architecture Introduction

TBD

Information Architecture Introduction

IA Purpose

IA describes a logical architecture for the Medicaid Enterprise. The primary objectives of an IA are below:

- Align information requirements with Medicaid Enterprise vision and direction.
- Improve system effectiveness.
- Facilitate growth and innovation.
- Lower overall life cycle costs.
- Enable interoperability and data sharing.

This architecture provides a description of the information strategy, architecture, and data. These descriptions are necessary so that States can use them as guidelines to define the common data needs that will enable the future business processes of their State Medicaid Enterprises.

IA Scope

It is imperative for the States to review the Business and Information Architectures together. The MITA IA is a set of information system requirements, derived from the BA and fulfilled by the IA, connecting and aligning these two architectures. They are different views of the integrated enterprise architecture.

Just as the BA business model has sub-groupings of business processes called business areas, the IA models have sub-groupings of information called subject areas. The generic term that MITA uses to describe a business area or subject area is *domain*. These sub-groupings allow a portion of the model to be viewable as a whole, or the entire model to be viewable at an overview level, thereby eliminating some complexity involved in understanding a large model. All business areas or domains will align across BA and IA (e.g., the Provider Management business area

aligns with the Provider domain in the information model). Each domain supports the others and properly aligns at each major system deployment to minimize redundancy and overlap.

Roles

Information architects are responsible for first understanding the BA and then creating and maintaining the IA in alignment with the BA. Solution architects, guided by the information and technical architectural methodologies, work with the business and information architects to maintain this alignment throughout the project. This cooperation continues through full deployment and ongoing operations.

As States evolve and begin aligning their technology with MITA, they will see a shift from traditional siloed methodologies to an enterprise approach that includes other health and human service-related systems. This shift results in the engagement of interoperability concepts to replace outdated data warehouse and data distribution methods with data sharing and Cloud Computing concepts.

Technical Architecture Introduction

TBD

Goals

Establish a simplified common enterprise architecture framework that SMA's can use to support the following:

- Ensure that all SMA's speak a common language
- Avoid lock-in to proprietary solutions by standardizing on open methods for enterprise architecture
- Save time and money, and utilize resources more effectively
- Achieve demonstrable Return on Investments (ROI)
- Provide a holistic view of an organizational landscape
- Act as a modular scalable framework that enables organizational transformation
- Enable organizations of all sizes across all industries to work off the same standard for enterprise architecture

Outcome

Provide guidance to SMA's on how to identify the roles, business processes, information and technology needed to support SMA capabilities to meet desired outcomes.

Principles

TBD

Business Architecture Principles

TBD

Information Architecture Principles

Data is an Asset

Statement: Data is an asset that has value to the enterprise and is managed accordingly.

Rationale: Data is a valuable corporate resource; it has real, measurable value. Accurate, timely data is critical to accurate, timely decisions.

Data is Shared and Fit for Use

Statement: Users have access to the data necessary to perform their duties; therefore, data is shared across enterprise functions and organizations.

Data is Accessible

Statement: Data is accessible for users to perform their functions.

Technical Architecture Principles

TBD

Develop Capability Architecture Process

Define Architectural Approach

Define Business Architecture Approach

TBD

Define Information Architecture Approach

Purpose

The Define Information Architecture Approach business process defines the activities undertaken by State Medicaid Agency (SMA) to define the information architecture reference models, viewpoints and tools that will be used to describe the information architecture for a specific capability.

Objectives

- Identify the Information Architecture Reference Models and Viewpoints to best meet the SMA's desired outcomes
- Select the tools that will be used to develop the information architecture views

Key Inputs

- SMA Outcomes
- Capability Definition
- Capability Stakeholder Roles Identified

Key Outputs

- Information Architecture Reference Models
- Information Architecture Viewpoints
- Information Architecture Modeling Tool

Roles & Responsibilities

Role	Responsibility
Data Owner	Accountable
Data Steward	Consulted
Data Architect	Responsible

Steps

1. Select required MITA and SMA specific viewpoints
2. Determine overall modeling process
3. Identify required catalogs of data building blocks
4. Identify required matrices
5. Identify required diagrams
6. Identify types of requirements to be collected
7. Select required MITA and SMA specific reference models
8. Select required information architecture modeling tools

Develop Baseline Capability Architecture

Develop Baseline Capability Business Architecture

TBD

Develop Baseline Capability Information Architecture

TBD

Develop Baseline Capability Technical Architecture

TBD

Define Target Capability Architecture

Develop Target Capability Business Architecture

TBD

Develop Target Capability Information Architecture

TBD

Develop Target Capability Technical Architecture

TBD

Align Architecture & Compile Concept of Operations

TBD

Perform Gap Analysis

Perform Business Architecture Gap Analysis

TBD

Perform Information Architecture Gap Analysis

Purpose

The Perform Information Architecture Gap Analysis process defines the activities undertaken by the SMA to identify the gaps between the baseline and target capability information architecture.

Objectives

- Define information architecture requirements and expectations for the SMA to achieve their desired outcomes

Key Inputs

- Baseline Capability Information Architecture Views

- Baseline Capability Information Architecture Maturity Scores
- Target Capability Information Architecture Views
- Target Capability Information Architecture Maturity Scores

Key Outputs

- Gap Analysis Results
- Information Architecture Requirements

Roles & Responsibilities

Role	Responsibility
Data Architect	Responsible
Data Steward	Consulted
Data Owner	Accountable
Data Governance Committee	Consulted

Steps

1. Compare baseline data dictionary to target data elements and identify gaps and reuse opportunities.
2. Compare baseline data governance roles to target data governance roles and identify gaps and reuse opportunities.
3. Compare baseline reports and measures to target reports and measures and identify gaps.
4. Compare baseline reference data to target reference data and identify gaps.
5. Compare baseline data validation rules to target data validation rules and identify gaps.
6. Use target data quality measures to assess the quality of the data and identify gaps.
7. Identify potential data sources and standards.
8. Compare baseline to target information architecture maturity and identify gaps and opportunities.
9. Develop information architecture requirements to fill gaps.

Using the Capability Architecture

Using the Capability Business Architecture

TBD

Using the Capability Information Architecture

The IA provides a conceptual and logical view of all of the data commonly used throughout the Medicaid Enterprise. It describes the integrated information requirements of the Medicaid Enterprise using general data objects and relationships.

Key points

- Architecture is the primary tool for strategic planning, communicating information requirements, implementing integrated systems, and providing an integrated information strategy.
- The Medicaid Enterprise data model layer connects reusable business concepts to application-level views of enterprise data through generalized content.
- States use the Logical Data Model (LDM) to build Logical Application Data Models, including state-specific adaptations and extensions.
- Architects build application data models at both logical and physical abstraction levels and reuse data objects defined at the enterprise level, ensuring common keys, attributes, and definitions.
- The IA guides States in selecting a data management strategy that supports interoperability, data sharing, and cloud-based solutions.

Using the Capability Technical Architecture

TBD

MITA 3.0 vs. 4.0 Architecture Development Process

Seven Standards and Conditions

TBD

Appendix A

TBD

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MITA Reference Models

MITA Capability Model

Placeholder content

Core Capabilities

Placeholder content

Strategic Capabilities

Placeholder content

Support Capabilities

Placeholder content

Role Reference Model

Placeholder content

Business Reference Model

Placeholder content for Business Reference Model.

MITA Capability Model

Introduction to Business Capability Models

A capability model is a conceptual framework that outlines the key capabilities an organization needs to achieve its strategic objectives. It provides a comprehensive view of what an organization can do and helps identify areas for improvement or investment. In the context of an orchestra, a capability model might help the orchestra identify the set of skills and resources, or other types of capabilities it needs to perform a symphony. Just like an orchestra needs well practiced musicians, sheet music, instruments, a conductor, and an audience to produce a great symphony, a State Medicaid Agency (SMA) needs its Medicaid Enterprise System (MES) to employ or develop specific capabilities to deliver its services effectively, efficiently, and economically to its enrollees and providers.

The concept of a business capability is extensively used within enterprise architecture modeling and has been broadly used within Business Capability Models as a tool to better align the business strategy and information technology of both private sector and governmental organizations since they emerged in the mid-2000s. One example comes from the TOGAF Standard, a well-known standard in enterprise architecture. Like most architecture frameworks TOGAF defines a capability as something a business can do to meet its goals. This focuses a strategic lens of an organization on “what” it needs to achieve its goals, rather than “how” those goals are achieved. This perspective allows for business planning from different viewpoints, facilitating strategic alignment and operational efficiency.

SMA business architects, technologists, systems analysts, executives, managers, and program staff can use this same modeling approach to represent the functional components of their Medicaid Enterprise System (MES) in ways that can help reveal gaps in their systems and provide insights on what new or enhanced capabilities might be needed to close those gaps.

By focusing on capabilities, SMAs can better align their information and technology resources and processes with their strategic business goals, ultimately improving their insight into how to improve the outcomes their Medicaid Enterprise Architecture produces.

Purpose

Note

MITA 4.0 does not endeavor to specify all of the capabilities SMA's may need to administer Medicaid programs; instead, this version of MITA focuses on the capabilities that are most closely oriented towards achieving the CMS-required outcomes.

Understanding the how the MITA Capability Model works is important to obtaining the most value out of many of the other tools and artifacts in the MITA framework, such as the MITA Maturity Model (MMM) and the Business Process Model (BPM). The MITA Capability Model provides a structured way for SMAs to identify, conceptually model, and improve the capabilities needed for efficient Medicaid operations.

It is important to note that MITA 4.0 does not endeavor to specify all of the capabilities SMA's may need to administer Medicaid programs; instead, this version of MITA focuses on the capabilities that are most closely oriented towards achieving the CMS-required outcomes. In this way MITA 4.0 provides a reference model for SMAs to model other capabilities that may be needed to achieve their other goals such as state specific outcomes, or other state priorities while providing more guidance within the MITA Framework to support modular.

Update to MITA 3.0

MITA 3.0 defined a capability as the level of maturity of a set of business processes within a business category. By focusing on “how” MES operate MITA 3.0 helped SMA's identify ways to improve and mature their business processes, but it did not link those processes with the outcomes they are intended to achieve or ensure better alignment of the information and technical architectures to business outcomes. The addition of the MITA capability model to the MITA 4.0 business architecture addresses that by providing the conceptual linkages needed to elevate the strategic vantage point of the MITA Framework. To guide this change, we present within this chapter a definition, description, and approach to modeling business capabilities, based on the widely used capability models contextualized for Medicaid Enterprises.

The business processes that operationalize MITA capabilities remain foundational to characterizing the business architecture, and are by definition a constituent part of any MITA capability. They provide essential information on how capabilities are operationalize and should continue to be a routinely utilized reference model for SMA business process mapping. They are found with in the Business Process Model chapter of this version of MITA.

The MITA Definition of Capability

Within the context of MITA, a capability can be defined as the ability or capacity of a State Medicaid Agency to achieve a desired outcome in compliance with the [Standards and Conditions within 42 CFR 433.112](#). A capability may currently exist in an operational state or be envisioned for future development. Through careful planning, capabilities defined in this way can be matured and refined over time to become more effective and efficient. They can be organized and detailed at various levels of abstraction, providing precise descriptions for operational purposes or more generalized views for strategic planning.

Key Definition

...a capability is defined as the ability or capacity of a SMA to achieve a desired outcome...

To fully define a business capability, it is essential to understand how it is realized through the integration of people, processes, information, and technology resources of an SMA. While these elements of the capability can change regularly, the capability itself should endure over longer planning horizons, supporting the long-term alignment of business and IT and the achievement of increasingly beneficial business outcomes.

Structure of the MITA Capability Model

As depicted in the model below, the MITA Capability Model orients the people, process, technology, and information resources to define a MITA Capability. This means that to model a capability the appropriate components of the information architecture and the technical architecture must be brought together with the business architecture to fully formulate any MITA Capability.

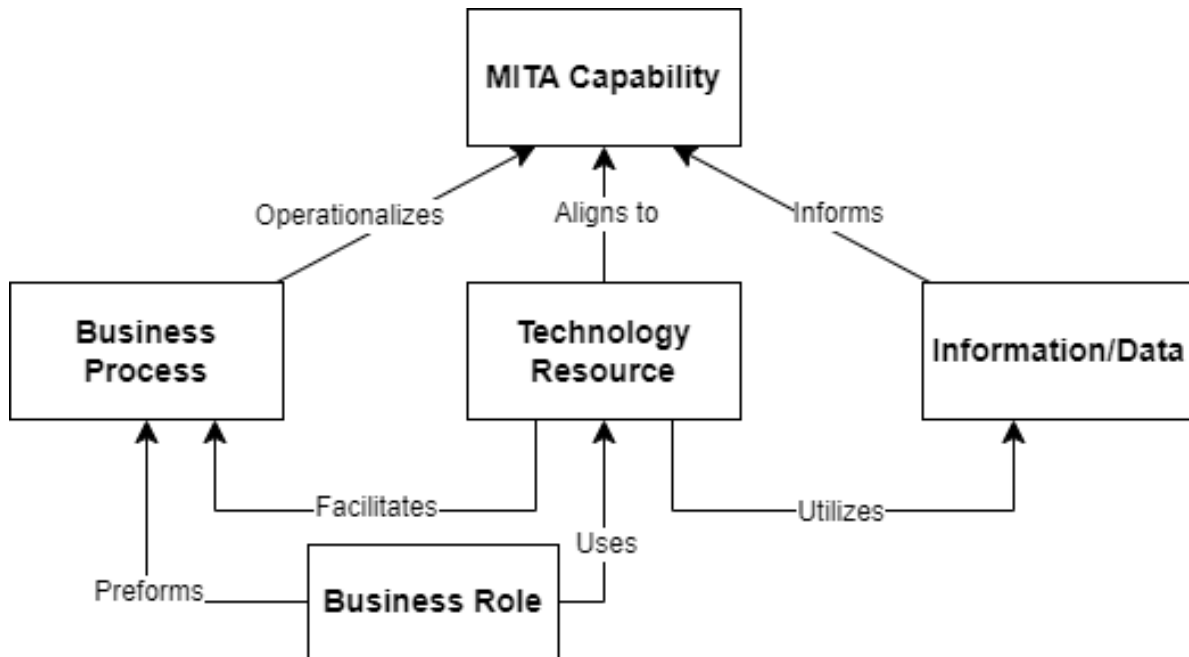


Figure 1: MITA Capability Relationship Diagram

Business Roles

Business roles represent individual actors, stakeholders, or partners involved in delivering a business capability. A single organizational group or team may be wholly responsible for delivering the capability, or multiple business entities may share the delivery of a particular business capability. Business Roles perform Business Processes using Technology Resources. They require skills and knowledge resources to achieve outcomes, and should be actively engaged as partners in the development or enhancement of any capability they help deliver.

Business Processes

Individual business capabilities may be enabled or delivered through a range of business processes that detail the activities (the how) associated with delivering the capability. Identifying and analyzing the efficiency of the underlying processes helps to optimize the business capability's effectiveness. Identifying the processes within a business capability provides a focus for maturing the capability in concert with the other capability components. Business Processes operationalize Business Capabilities.

Information/Data

Information/data represents the business data, knowledge, and insight consumed or produced by the business capability (as distinct from IT-related data entities). This may also include information that the capability exchanges with other capabilities to support the execution of value streams. Examples include information about customers and prospects, products and services, business policies and rules, sales reports, and performance metrics. Information/data inform the Business Capability, answering questions and supporting business rules.

Technology Resources

Business capabilities rely on a range of tools, applications, systems, and services for successful execution. Technology Resources use Information/data to facilitate Business Processes. Such resources may include:

- Modular software applications
- Cloud or on-premise infrastructure
- Microservices
- Analytics
- Customer portal

In this way we can clearly interrelate all of the MITA architecture models and their individual components which allows us to reveal gaps not only in the individual components of the architecture, but also understand their impact on the integration of the architecture components at the capability level.

Relationship of MITA Capabilities to Outcomes

In the context of the Medicaid Information Technology Architecture (MITA), outcomes are intrinsically linked to capabilities, as they represent the tangible results achieved through the effective integration and execution of various elements that constitute a capability. In this sense, outcomes and capabilities define each other.

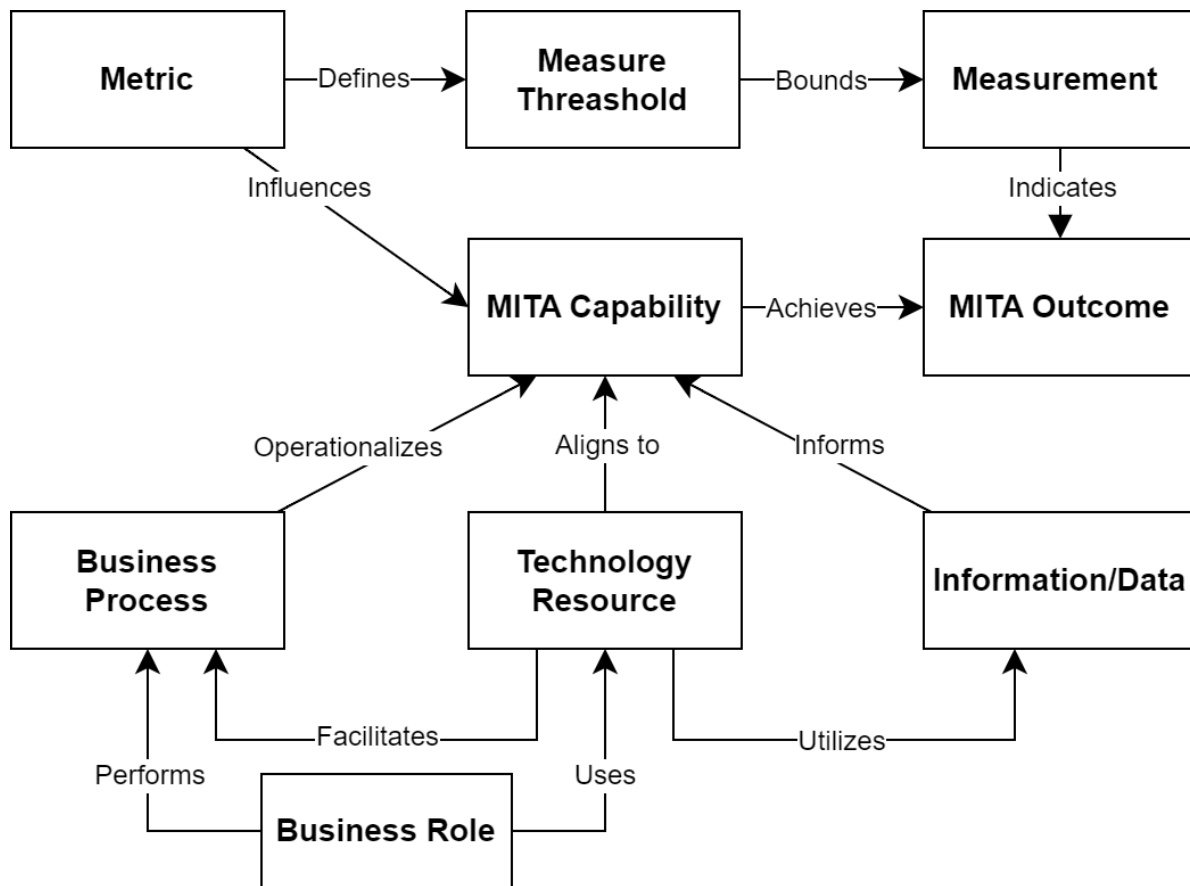


Figure 2: MITA Capability and Outcome Relationship Diagram

Outcomes

MITA defines outcomes broadly to encompass CMS-required outcomes, state-specific outcomes, and other outcomes not mandated as part of the Advance Planning Document (APD) process. The sole criterion for an outcome to meet this definition is that it must be a goal of a State Medicaid Agency (SMA) and be achieved through a Medicaid Enterprise System (MES) capability.

Key Definition

A MITA outcome is a goal of a State Medicaid Agency (SMA) that is achieved by a Medicaid Enterprise System (MES) capability.

Measure

Measure is a quantifiable metric used to assess the effectiveness and efficiency of capabilities within a Medicaid Enterprise System (MES). Measures provide quantifiable and qualitative values that help State Medicaid Agencies (SMAs) track progress toward achieving specific outcomes, such as CMS-required or state-specific goals. These indicators might include metrics like processing times, error rates, or compliance levels.

Measures are a measurement threshold by establishing a specific value or level that must be met or exceeded to demonstrate successful performance. For instance, a KPI might set a threshold for the maximum allowable processing time for claims, ensuring that they are handled within a specified timeframe to maintain compliance and eligibility for enhanced federal funding. By monitoring these thresholds, organizations can ensure they are meeting regulatory requirements and delivering high-quality services to beneficiaries, while also identifying areas for improvement.

Measure Threshold

A specific value or level of a measure that must be met or exceeded to demonstrate the effective achievement of a capability's intended outcome. This threshold serves as a benchmark for assessing whether the processes, roles, and resources integrated within a Medicaid Enterprise System (MES) are functioning optimally to meet the goals of a State Medicaid Agency (SMA). For example, a measurement threshold might be set for processing times, where claims must be processed within a certain number of days to ensure compliance with CMS-required outcomes and maintain eligibility for enhanced federal funding. By establishing and monitoring these thresholds, organizations can ensure they are meeting regulatory requirements and delivering high-quality services to beneficiaries.

Measurement

These outcomes and metrics are also used to ensure that healthcare systems or modules comply with applicable federal regulations, forming the baseline for system or module functionality. Achieving these outcomes is essential for continuing to receive enhanced federal funding for operations. Regular measurement and analysis of KPIs help organizations demonstrate compliance and effectiveness, ensuring that they meet regulatory requirements and continue to deliver high-quality services to beneficiaries.

In this way we can clearly interrelate all of the MITA architecture models and their individual components with the KPIs, thresholds, and measurements that indicate whether our capability achieves our desired outcome.

While models that help conceptualize the capabilities that achieve CMS-required outcomes are the ones modeled for this version of MITA, SMAs are encouraged to use these models as a reference to model capabilities.

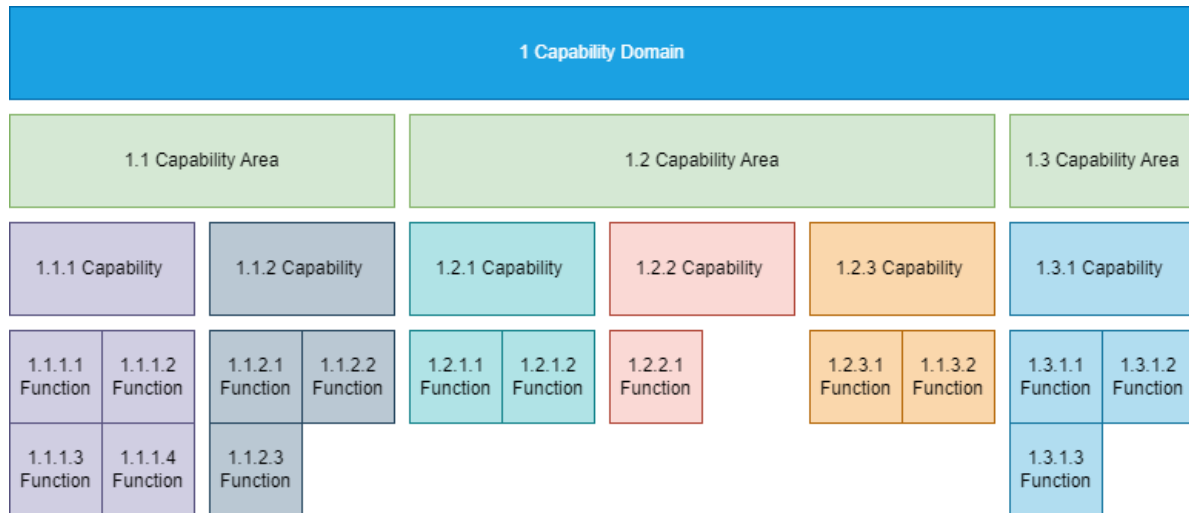
Capability Mapping

Capability mapping is a strategic tool that enables organizations, such as State Medicaid Agencies (SMAs), to systematically identify, organize, and visualize the key capabilities necessary to achieve their objectives. Within the MITA framework, capability mapping provides SMAs with a method of developing comprehensive views of the functions and processes required to deliver Medicaid services effectively. To begin the capability mapping process, SMAs should first identify the core capabilities that align with their strategic objectives, focusing on what the organization needs to achieve rather than how those goals are accomplished. This involves listing all necessary capabilities and understanding the desired outcomes they support. Next, these capabilities should be organized into domains and areas that reflect their strategic importance and interrelationships. Visualizing these capabilities through diagrams or maps provides all stakeholders a common view to understand the roles, processes, technology resources, and information/data involved in executing each capability, as well as the outcome each capability is designed to achieve. This structured approach not only highlights areas for improvement or investment but also ensures that organizational efforts are strategically aligned with desired outcomes.

The benefits of capability mapping are multifaceted, offering SMAs a clear pathway to strategic alignment and gap analysis. By visualizing capabilities, organizations can identify operational gaps and determine what new or enhanced capabilities are needed to close those gaps. This visualization also improves communication among stakeholders by providing a clear and concise representation of the organization's functions. To refine capabilities, SMAs should analyze current operations, assess the efficiency of underlying processes, and optimize them to enhance capability effectiveness. Additionally, capability mapping serves as a foundation for heat mapping, which assesses the MITA Framework will utilize to visualize the maturity of each capability evaluated in the State Self-Assessment. SMAs can overlay heat maps over their capability maps to visualize many things other than maturity levels, using color coding to indicate areas of strength and weakness. Regular updates to these maps allow SMAs to monitor progress and ensure resources are allocated effectively to achieve strategic goals. The MITA framework includes examples of capability maps based on CMS-required outcomes, serving as a reference model for SMAs to develop their own capability maps tailored to state-specific goals and priorities. By leveraging the reference models provided by MITA, SMAs can ensure their capability mapping efforts are aligned with both federal requirements and state-specific priorities.

Organizing Capabilities

To enhance the resolution and detail of a capability and provide a unified view of all its components, a block diagram can be employed to provide a common view of any MES. This diagram effectively links the capability to business processes, roles, technical resources, and information resources through functional decomposition. By breaking down the capability into its constituent parts, the block diagram offers a visual representation that highlights the interrelationships and dependencies among these elements. This approach provides a clearer understanding of how each component contributes to the overall capability, facilitating more effective analysis, optimization, and alignment with organizational objectives.

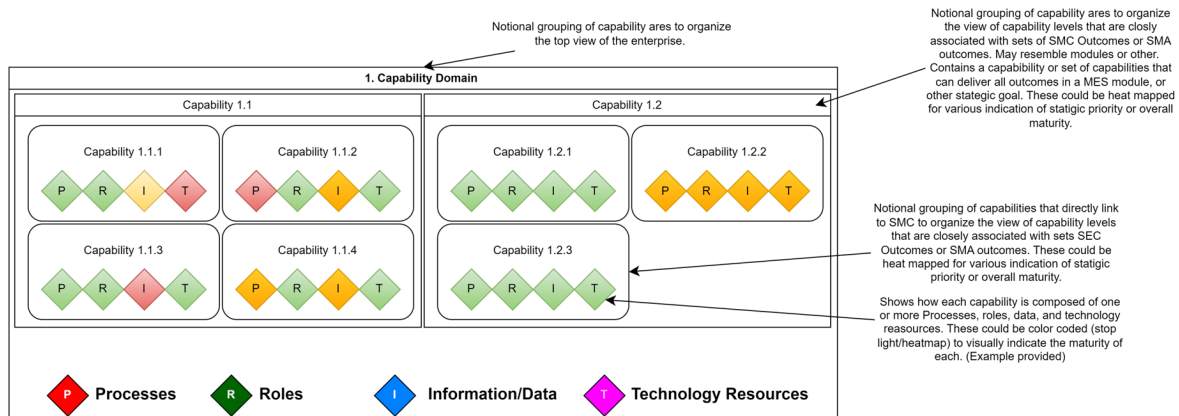


We use this same method to present an this top level view of the capabilities required to achieve CMS-required outcomes. From this view increasingly detailed models can be constructed.



MITA Capability Models

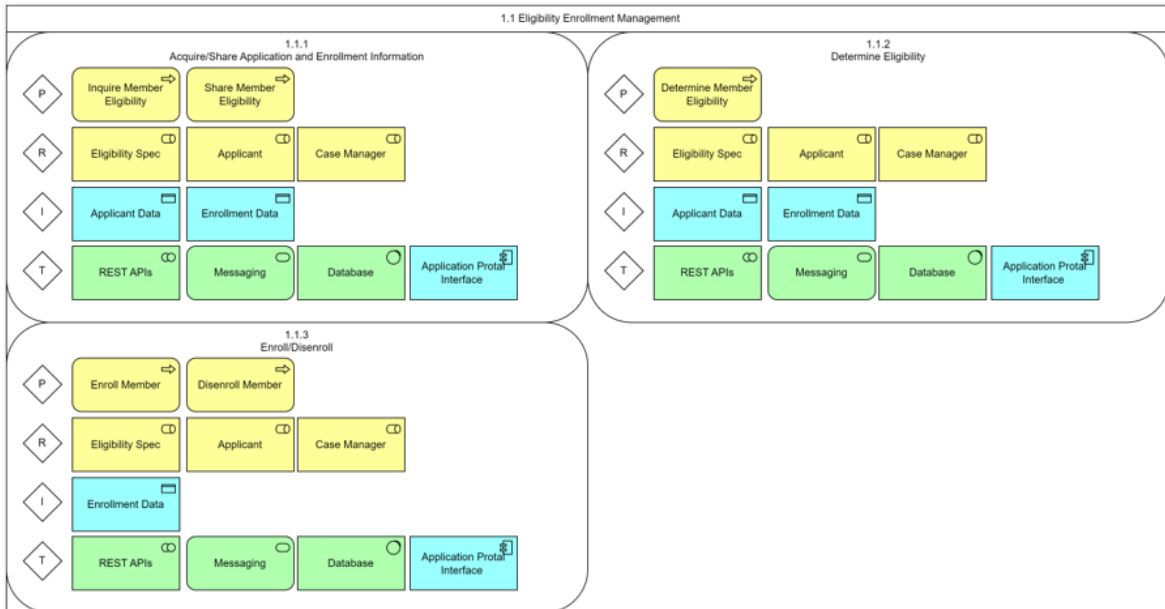
The MITA framework represents capabilities visually through a layered model that represent a capability of being composed of sub-capabilities and the processes, roles, information and technology resources (PRIT) that support the business in sustaining the capability. Each layer up depicts increasingly strategic capabilities and each layer down depicts the constituent elements that compose a capability in increasing operational detail. It is not the intention of this version of MITA to provide a full operational or tactical view of a capability, though SMAs may consider using this approach to improve their organizational awareness of their operations by developing further layers of their capabilities through functional decomposition.



- **Capability Domains:** The first layer of this model aims to group capabilities to organize the strategic view of an SMA's capabilities. In this view one or many capabilities can be

grouped within a domain to indicate the pursuit of common outcomes. Each domain is denoted with a single number to help annotate each capability.

- **Capability Areas:** The second layer of this model aims to provide a view of the groups of capabilities that compose a domain. They are organized to show capabilities that serve a specific group of similar outcomes and essential
- **Capabilities:** The third layer of this model provides a more detailed view view of

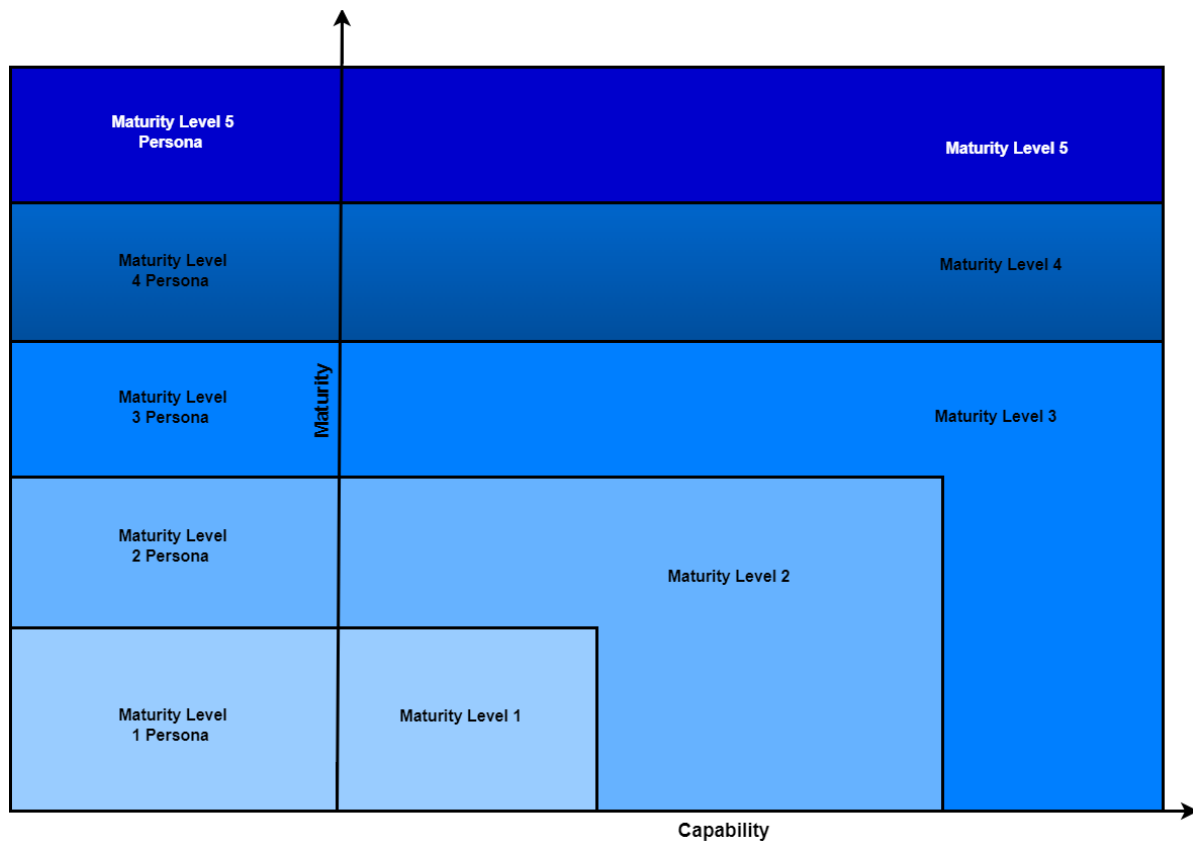


Relationship of MITA Capabilities to Maturity

Warning

Under development.

- **Levels of Maturity**
 - Description of the five levels of maturity in the MITA framework
 - How capabilities evolve and mature over time



Using Capability Maps for Heat Mapping Strategic Priorities and Identifying Gaps with the MITA Maturity Model

Capability maps are powerful tools that not only provide a visual representation of an SMA's key capabilities but also serve as a foundation for strategic analysis and planning. There are many approaches to heat mapping capabilities, each offering unique insights into organizational priorities and gaps. Here, we describe two approaches: assessing maturity levels using the MITA Maturity Model and prioritizing strategic outcomes.

Identifying Gaps with the MITA Maturity Model

The MITA Maturity Model provides a framework for assessing the maturity of an organization's capabilities across various dimensions, such as business processes, information, and technology. By integrating the maturity model with capability maps, SMAs can identify gaps between their current state and desired maturity levels.

Example 1: Identifying Gaps in Data Management Maturity Using the PRIT Model

An SMA is conducting an assessment of its data management capabilities using the MITA Maturity Model, with a focus on the PRIT (Processes, Roles, Information, and Technology) framework. The capability map includes various data-related capabilities, such as “Data Integration,” “Data Quality Management,” and “Data Analytics.” Each of these capabilities is evaluated across the PRIT dimensions to determine their maturity levels using the revised scale:

Processes: Level 1: Ad-Hoc Roles: Level 2: Compliant Information: Level 2: Compliant Technology: Level 2: Compliant The capability map is updated to reflect the maturity assessment, with each dimension marked with a color code: red for Level 1: Ad-Hoc, yellow for Level 2: Compliant, green for Level 3: Efficient, blue for Level 4: Optimized, and purple for Level 5: Pioneering. This visualization helps the SMA prioritize strategic actions to enhance the “Data Integration” capability, such as standardizing processes, refining roles, improving data quality, and upgrading technology.

Heat Mapping Strategic Priorities

Heat mapping involves applying a color-coded overlay to a capability map to visually represent the status or priority level of each capability. This technique can be used to highlight areas of strength, weakness, or strategic importance. For example, capabilities that are critical to achieving CMS-required outcomes might be marked in one color, while those needing immediate attention or improvement could be marked in another. This visual representation helps stakeholders quickly grasp the strategic landscape and make informed decisions about where to allocate resources and focus efforts.

Example 2: Prioritizing Capabilities for CMS-Required Outcomes

An SMA is focused on achieving specific CMS-required outcomes related to improving patient care and reducing administrative costs. The agency creates a capability map that outlines all the capabilities necessary to meet these outcomes. By applying a heat map, the SMA highlights capabilities that are directly linked to these outcomes in green, indicating they are of high strategic priority. Capabilities that are indirectly related or less critical are marked in yellow, while those that are currently underperforming or not aligned with strategic goals are marked in red.

This visual representation allows the SMA to quickly identify which capabilities require immediate attention and resources to ensure compliance with CMS requirements. For instance, if the capability related to “Claims Processing Efficiency” is marked in red, the agency can prioritize initiatives to enhance this capability, such as investing in new technology or streamlining processes.

Other Uses for Capability Heat Mapping

Beyond assessing maturity levels and prioritizing strategic initiatives, capability heat mapping can be applied in various other contexts to enhance organizational effectiveness and alignment.

Example 3: Aligning Capabilities with State-Specific Initiatives

An SMA is working on a state-specific initiative to enhance telehealth services for rural populations. The capability map includes capabilities related to telehealth, such as “Telehealth Infrastructure,” “Provider Engagement,” and “Patient Access.” The SMA uses a heat map to highlight these capabilities in blue, indicating their alignment with the state-specific initiative.

By analyzing the capability map, the SMA identifies that “Provider Engagement” is a critical capability that requires further development to support the telehealth initiative. The agency decides to invest in training programs and outreach efforts to engage providers in rural areas, ensuring that the telehealth services are effectively delivered to the target population.

These examples demonstrate how capability maps, combined with heat mapping and the MITA Maturity Model, can provide valuable insights for strategic planning and gap analysis. By visualizing priorities and maturity levels, SMAs can make informed decisions about where to focus resources and efforts, ultimately enhancing their Medicaid Enterprise Systems and achieving strategic objectives.

- **Capability Mapping**
 - Introduction to capability mapping and its significance
 - How capabilities are organized and detailed at various levels of abstraction

Guidance on reuse of the MITA Capability Model

- **Practical Application**
 - How to integrate the capability model into daily operations and strategic planning
 - Tips for maximizing the benefits of the model
- **Continuous Improvement**
 - Encouragement for ongoing assessment and refinement of capabilities
 - Leveraging feedback and performance data for model enhancement
- **Implementation Guidance**
 - Steps for adopting the capability model
 - Resources and support available for SMAs
- **Performance Monitoring and Reporting**

- Role of the capability model in tracking and enhancing performance
- Use of metrics and standards to measure capability effectiveness

About

MITA TA Capability Model



Placeholder content

TA Domain Area Descriptions

1

Infrastructure

The core technology environment that Medicaid systems run on - including cloud, servers, storage, and connectivity.

1.1

Compute and Hosting

Provides the servers, containers, and cloud platforms where Medicaid systems and applications run.

1.2

Storage

Manages where Medicaid data lives, including files, backups, and archives, ensuring information is secure, accessible, and retained according to state and federal laws.

1.3

Networking and Connectivity

Enables secure connections between internal systems, external partners, and cloud environments, ensuring fast, reliable communication between components.

1.4

Resilience and Scaling

It helps systems stay online and responsive during outages or emergencies, including failover mechanisms, load balancing, and disaster recovery capabilities. The ability to scale up and scale down during peak demand, usage, and traffic spikes.

2

Integration

How Medicaid systems, modules, and external partners securely share data and coordinate actions.

2.1

API and Interface Management

Managed the digital entry points that allow systems to exchange data using common formats like FHIR, X12, or REST, supporting modular design and partner interoperability.

2.2

System Messaging

Enables real-time or scheduled communication between systems, such as sending alerts, in a consistent and traceable way.

2.3

External Partner Integration

Supports secure, governed connectivity with MCOs, Providers, CMS, and other state/federal partners, critical for Medicaid coordination.

3

Platform Services

Shared technology services that support core Medicaid functions and are reused across modules.

3.1

Application Hosting

Provides managed environments for running Medicaid applications, such as platforms for APIs, microservices, or background tasks, while reducing manual overhead.

3.2

Business Rules and Workflow

Lets business or IT teams define rules (e.g., eligibility logic) and automate multi-step processes (e.g., Provider Enrollment) without needing to hard-code logic.

3.3

Common Platform Functions

Offers reusable tools, such as notification engines, address verification, or file upload services, that multiple systems can use instead of rebuilding the same features.

4

Application Architecture

The structure of Medicaid software and how people interact with it.

4.1

Modular Architecture

Breaks large Medicaid systems into smaller, independent components that are easier to scale and replace.

4.2

User Interfaces

Designs the screens, portals, and mobile views that users interact with, including members and providers, while ensuring accessibility and consistency.

4.3

Session and State Management

Keeps track of what a user is doing during a session, so they can resume or complete actions reliably and securely.

5

Security and Identity

How systems and data are protected, and how users and systems are granted access.

5.1

Identity and Access Services

Controls who can log in, what they can do, and how their identity is verified.

5.2

Consent Management

Capture, store, and enforce member consents and data-sharing preferences.

5.3

System and Data Protection

Applies safeguards like encryption, firewalling, and secure system configurations to prevent unauthorized access and protect sensitive Medicaid and healthcare data.

5.4

Security Monitoring

Watches for unusual activity, logs what is happening, and supports audits. Helps State Medicaid Agencies meet CMS and NIST security standards (e.g., MARS-E).

6

Operations and Monitoring

How Medicaid systems are monitored, managed, and kept running smoothly.

6.1

System Monitoring

Tracks system health, such as uptime, performance, and availability, through dashboards, alerts, and automated checks to catch problems early.

6.2

System Operations

Provides centralized tools that staff use to manage systems, schedule jobs, deploy updates, and monitor activity across environments.

7

Development and Release

How software and infrastructure are built, tested, released, and secure.

7.1

Code and Configuration Management

Allows teams to safely write, track, and manage software changes, and define infrastructure settings as code to reduce errors and improve consistency.

7.2

Testing and Release

Runs tests to catch bugs, and moves code through environments (e.g., Development, Test, Production) using pipelines that reduce manual steps.

7.3

Security Compliance

Builds in security checks and compliance rules at every step of development, ensuring that code is safe and standards are met before going live.

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MITA Maturity Model

MITA 4.0 Maturity Reference Model Document

Version 0.1 | August 8, 2025

Version History

Version	Date	Author	Notes
0.1		Z. Rioux, S. Lucas	Initial Release

Document Overview

Document Purpose

The MITA 4.0 Maturity Model Reference document was developed to formalize the framework for the MITA 4.0 Maturity Model and to guide State Medicaid Agencies (SMAs) in assessing their Medicaid Enterprise Systems (MES) maturity.

This document will be used to communicate the framework and model and gather feedback from the following:

- MITA NextGen Workgroup
- SS-A Workgroup
- MITA Governance Board
- CMS
- MITA 4.0 Pilot Participants

Audience

The primary audience for this document includes but is not limited to:

- MITA 4.0 NextGen Members
- MITA 4.0 SS-A Workgroup Members
- MITA Governance Board
- CMS
- MITA 4.0 Pilot Participants

Model Overview

Maturity Model Purpose

The MITA Maturity Model (MMM) provides SMAs with a framework to systematically assess, benchmark, and improve processes, capabilities, architecture, and performance. It offers SMAs a clear path to assess maturity, target areas for improvement, and achieve greater efficiency and effectiveness.

Maturity Model Goals

- **Align with Strategic Objectives:** Help ensure capabilities directly support SMA goals.
- **Drive Standardization, Efficiency, and Consistency:** Standardize and streamline processes across a SMA.
- **Enable Effective Transformation:** Enable transformative and higher-quality outcomes with greater effectiveness and performance.
- **Optimize Resource Use and Integrate with MES Operations:** Maximize impact while minimizing waste.
- **Strengthen Risk Management:** Increase the ability to identify and mitigate risks.
- **Enable Measurable Progress:** Provide measures to track improvement over time.

Maturity Model Methodology and Guiding Principles

To create the MITA 4.0 Maturity Model, the MITA Governance Board initiated a MITA SS-A Maturity work group tasked with the completion of the following deliverables:

1. Develop a MITA 4.0 Maturity Model.
2. Draft a MITA 4.0 Maturity Model Reference Guide that provides an overview of the MITA 4.0 approach to develop the MMM.
3. Collaborate with other work groups in development of Maturity Criteria for the MMM based on the MITA 4.0 approach to using the state self-assessment (SS-A) to assess the maturity of a capability and how well the SMA performs a capability.
4. Collaborate with other work groups on the development of a high-level overview of the MITA 4.0 process to aide in understanding how the MMM and the MITA 4.0 SS-A will be conducted.

Phases

- **Phase 1 – Initiation (Oct-Dec 2024):** Team formation, purpose definition, and socialization of MITA maturity.
- **Phase 2 – Fact-finding and Visioning (Nov-Jan 2025):** Research of >60 industry maturity models, visioning sessions, and draft of a MMM scale.
- **Phase 3 – Finalize MITA 4.0 Maturity Model (Jun-Oct 2025):** Socialize draft scale, gather feedback, and build out levels and criteria.
- **Phase 4 – Pilot MMM and Supporting Documentation (Nov 2025-Mar 2026):** Pilot with SMAs, gather feedback, and align with MITA 4.0 goals.

The MMM team selected **The Open Group Architecture Framework (TOGAF)** as the baseline model and extended it to meet SMA needs.

Key retained features:

- 5 maturity levels.
- Descriptive keywords for each level.
- “Non-applicable” rating option.

- Assessment at the capability-area level.
- Averaging of maturity scores across capabilities.

Maturity Model Levels and Definitions

Level	Name	Description
1	Initial	Commitment to perform.
2	Developing	Ability to perform.
3	Defined	The activities performed.
4	Managed	Ability to measure and analyze.
5	Optimized	Ability to implement, improve, and innovate.
N/A	N/A	Non-applicable.

Level Details

- **Level 1 (Initial):** Processes are unstructured, reactive, and inconsistent.
- **Level 2 (Developing):** Basic processes exist, some standardization, metrics collected.
- **Level 3 (Defined):** Processes fully implemented, documented, and aligned; metrics actively monitored.
- **Level 4 (Managed):** Processes operational, consistent, and performance-driven; organization acts as a thought-leader.
- **Level 5 (Optimized):** Data-driven strategies, predictive decision-making, continuous improvement, nationally recognized.

Using the MITA Maturity Model in the MITA 4.0 Framework

Background on MITA 4.0 Capabilities and the Capability Reference Model

A **capability** is an ability that an SMA possesses or seeks to develop to achieve its goals. In MITA 4.0 each capability is composed of:

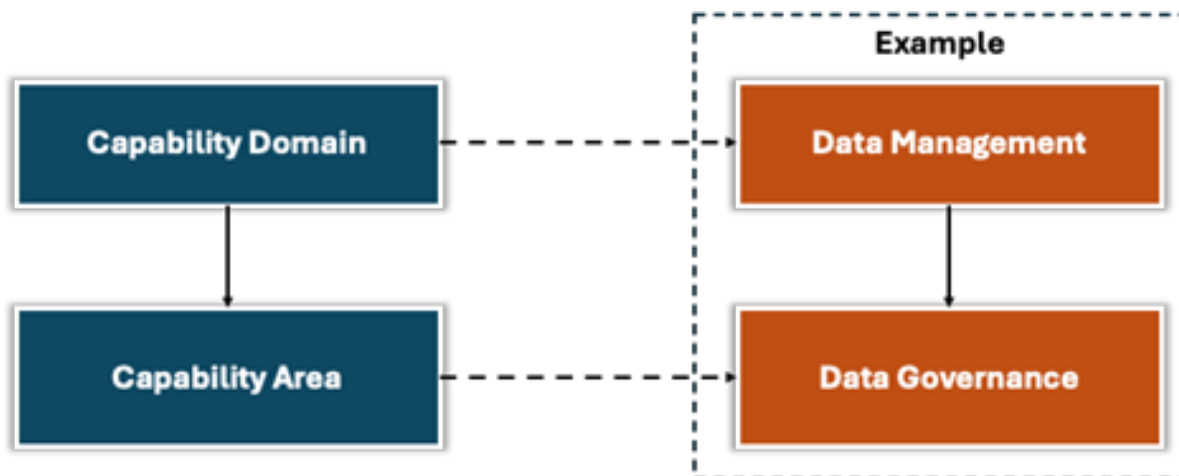
- **Outcomes** – Desired results.

- **Roles** – Responsible individuals.
- **Business Processes** – Activities performed.
- **Information** – Data and information needed.
- **Technology** – Tools that automate the capability.

The **Capability Reference Model** groups capabilities into:

- **Capability Domain** – High-level grouping.
- **Capability Area** – Detailed sub-capabilities.

(Figure omitted – see original document for visual.)



MITA 4.0 Capabilities and Maturity Assessment

The state self-assessment (SS-A) evaluates maturity of each capability area using the **ORBIT** framework (Outcomes, Roles, Business processes, Information, Technology).

Maturity Criteria

Outcomes (optional)

Level	Culture & Mindset	Capability	Quality & Consistency	Alignment to Goals	Use of Metrics	Reusability & Integration
1 – Initial	No culture of outcomes	No internal capability	Ambiguous, inconsistent	Not aligned	No measurement	No reuse
2 – Developing	Emerging awareness	Basic understanding, vendor-led	Some structure, not fully SMART	Emerging alignment	Interest but not aligned	Limited reuse
3 – Defined	Intentional alignment	Sufficient experience, oversight	Defined approach, variable quality	Intentional alignment	Regular reference	Some reuse
4 – Managed	Systematic, consistent	Fully capable internally	Well-established, actionable	Systematic alignment	Regular evaluation	Consistent reuse
5 – Optimizing	Embedded, high-quality	Deep expertise, self-sufficient	High-quality, standardized	Seamless alignment	Embedded in continuous improvement	Seamless reuse

Roles (optional)

(Similar table omitted for brevity – see original document for full details.)

Business Architecture and Performance of Business Processes

(Content omitted – see original document.)

Information and Data

(Content omitted – see original document.)

Technology

(Content omitted – see original document.)

Using Personas to describe Maturity Levels

MITA 4.0 adds **personas** to make maturity levels relatable and actionable. Personas help:

- **Improve Communication:** Turn abstract concepts into stories.
- **Support Planning & Decision-Making:** Align organizations with a persona to plan steps toward the next level.

(Figure omitted – see original document.)

End of document.

Roles

Placeholder content for Roles.

Business Architecture Maturities

Placeholder content

Information Architecture Criteria

Summary

Count of Criteria Name	Column Labels	Row Labels	Level 1	Level 2	Level 3	Level 4	Level 5	Grand #N/ATotal
Business Intelligence & Data Science	2	2	1	1	1			7
Data Architecture, Modeling & Design	1	1	4	1	1			8
Data Governance	2	1	3	2	5			13
Data Integration & Interoperability	1	1	1	1	1			5
Data Quality	2	1	2	2	2			9
Data Security & Privacy		1	1	1	1			4
Data Storage & Warehousing			2	1	1			4
Document & Content	1	1	2	1	1			6
Master Data Management	2		1	1	1			5
Metadata Management	1	1		1	1			4
Reference Data	1	1	2	1	1			6
Management (blank)						3	3	
Grand Total	13	10	19	13	16	3	74	

Criteria

Ma- tu- rity Level	Cri- teria Name	Cri- teria Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Data As- set Iden- tifi- ca- tion	The data as- sets that are used to sup- port the ca- pa- bil- ity have been iden- tifi- fied.	Has the SMA iden- tifi- fied all of the data as- sets that are used to sup- port the ca- pa- bil- ity business pro- cesses?	En- sures all data re- sources are ac- counted for and man- aged ef- fec- tively.	Ini- tial	Metadata Manage- ment	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Criteria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Data Ex- change Iden- tifi- ca- tion	The data ex- change iden- tifi- ca- tion that sup- port the ca- pa- bil- ity have been de- fined and doc- u- mented	Has the SMA iden- tified and doc- u- mented the data ex- change that cur- rently sup- port the ca- pa- bil- ity busi- ness pro- cesses?	En- ables ef- fec- tive man- age- ment and gov- er- nance of data flows be- tween sys- tems.		Ini- tial	Data In- tegration & Interoper- ability	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Data Is- sues & Anomaly Iden- tifi- ca- tion	Known data anoma- lies and is- sues that im- pact the data as- sets have been iden- ti- fied, im- doc- u- mented and are tracked as- set(s)?	Has the SMA iden- tified doc- u- mented the data anoma- lies and is- sues that im- pact the data reli- a- bil- ity and ac- cu- racy.	En- ables proac- tive res- olu- tion and mon- itor- ing of data qual- ity is- sues, en- sur- ing reli- a- bil- ity and ac- cu- racy.	Ini- tial	Data Quality	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Has the SMA de- fine- d the data needs have been iden- ti- fied us- ing data man- age- ment ca- pa- bil- i- ties.	Ques- tion tion	Ra- tio- nale man- age- ment ac- tivi- ties with or- ga- ni- za- tional ob- jec- tives and stake- holder re- quire- ments.	Related Activity (ies)	Cat- e- Type	Def- ini- tion	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Data Man- age- ment Need Iden- tifi- ca- tion	All as- so- ci- ated data needs have been iden- ti- fied us- ing data man- age- ment ca- pa- bil- i- ties.	Has the SMA de- fine- d the data needs have been iden- ti- fied us- ing data man- age- ment ca- pa- bil- i- ties.	Aligns data man- age- ment ac- tivi- ties with or- ga- ni- za- tional ob- jec- tives and stake- holder re- quire- ments.		Ini- tial	Def- ini- tion	Data Gover- nance	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Data Pro- fil- ing	The data as- sets that are used to sup- port the ca- pa- bil- ity have been pro- filed.	Has the SMA per- formed a data qual- ity, file struc- ture, and con- tent to sup- port in- formed data man- age- ment de- ci- sions.		Ini- tial	Data Quality	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Criteria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Doc- u- ment Iden- tifi- ca- tion	The doc- u- ments that are needed to sup- port the ca- pa- bil- ity have been iden- ti- fied.	Has the SMA iden- ti- fied the doc- u- men- ta- tion and that knowl- edge needed to sup- port the ca- pa- bil- ity busi- ness pro- cesses?	Sup- ports com- plete doc- u- men- ta- tion and knowl- edge needed to sup- port the ca- pa- bil- ity busi- ness pro- cesses?		Ini- tial Doc- u- ment & Con- tent	Informa- tion Architec- ture			

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	In- for- ma- tion Iden- tifi- ca- tion	The as- so- ci- ated con- cepts that are needed to sup- port the ca- pa- bil- ity has been iden- ti- fied.	Has the SMA iden- tified the key data con- cepts that are avail- able to sup- port the ca- pa- bil- ity get ca- pa- bil- ity re- quire- ments. busi- ness pro- cesses?	En- sures that all nec- es- sary in- for- ma- tion is avail- able to ful- fill the ca- pa- bil- ity re- quire- ments. busi- ness pro- cesses?	Ini- tial	Data Ar- chi- tec- ture, Mod- el- ing & De- sign	Informa- tion Architec- ture		

Ma- tu- rity Level	Cri- teria Name	Has the SMA con- sis- tent def- ini- tion, man- age- ment, and use of mas- ter data en- ti- ties.	En- sures	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Master Data Modeling	Master data approach (e.g. Master Data Rules) have been iden- ti- fied and im- ple- mented for the as- so- ci- ated data.			Ini- tial	Master Data Manage- ment	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Has the SMA ef- fec- tive mas- ter data man- age- ment and in- te- gra- tion.	Sup- ports ef- fec- tive mas- ter data man- age- ment and in- te- gra- tion.	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Mas- ter Data Source Iden- tifi- ca- tion	Mas- ter data sources pro- duc- ers and con- sumers have been iden- ti- fied for the as- so- ci- ated data. sup- port the tar- get ca- pa- bil- ity busi- ness pro- cesses?	Has the SMA ef- fec- tive mas- ter data man- age- ment and in- te- gra- tion.		Ini- tial	Master Data Manage- ment	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Mea- sure Iden- tifi- ca- tion	All mea- sures and met- rics needed to sup- port re- port- ing on the ca- pa- bil- ity have been iden- ti- fied.	Has the SMA iden- tified the mea- sures and met- rics for that are needed to per- sup- port re- port- ing for the ca- pa- bil- ity busi- ness pro- cesses?	En- sures that all rel- e- vant met- rics are trac- ked for ef- fec- tive per- for- mance man- age- ment.	Ini- tial	Business Intelli- gence & Data Science	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Cri- teria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Ref- er- ence Data Iden- tifi- ca- tion	The ref- er- ence data in- cluded in the data as- set has been de- fined and doc- u- ment- ed	Has the SMA iden- ti- fied the ref- er- ence data that are needed to sup- port the sys- tems. pa- bil- ity busi- ness pro- cesses?	Sup- ports data con- sis- tency and ef- fec- tive use of ref- er- ence data across sys- tems.		Ini- tial	Reference Data Manage- ment	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Re- port Iden- tifi- ca- tion	All re- ports that are needed to sup- port the ca- pa- bil- ity have been iden- ti- fied.	Has the SMA iden- tified the re- quire- ments that are un- der- stood and pro- duced to sup- port the data.	Guar- tees re- port- ing re- quire- ments are un- der- stood and sup- ported by the data.	Ini- tial	Business Intelli- gence & Data Science	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Criteria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Def- ini- tion	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 1	Term & Acronyms Identi- fifi- ca- tion	The as- so- ci- ated busi- ness terms and acronyms have been de- fined.	Has the SMA de- fined the key terms and mon acronyms that der- stand- ing of key terms across the en- ter- prise. busi- ness pro- cesses?	Re- duces ambi- guity and en- sures com- mon der- stand- ing of key terms across the en- ter- prise. busi- ness pro- cesses?		Ini- tial		Data Gover- nance	In- for- ma- tion Ar- chi- tec- ture	Artifact Review	Busi- ness Glos- sary

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Con- tent Tax- on- omy Iden- tifi- ca- tion	A con- tent tax- on- omy struc- ture has been de- vel- oped to or- ga- nize the con- tent needed to sup- port the ca- pa- bil- ity.	Has the SMA de- vel- oped a con- tent tax- on- omy dis- cov- ery, and man- age- ment of con- tent across the en- ter- prise. ment im- ages to sup- port the ca- pa- bil- ity busi- ness pro- cesses?	En- ables con- sis- tent or- ga- ni- za- tion, dis- cov- ery, and man- age- ment of con- tent across the en- ter- prise.	De- vel- op- ing & Con- tent	Informa- tion Architec- ture			

Ma- tu- rity Level	Cri- teria Name	Cre- ation	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Data Defi- ni- tion De- vel- op- ment	All data in the as- so- ci- ated dic- data as- sets (e.g. Data Files, sup- Databas- es)	Has the cre- ated data dic- tio- nar- ies Data across the or- ga- ni- za- tion. ness pro- cesses?	Catalog known data assets der- stand- ing and con- sis- tent use of data across the or- ga- ni- za- tion. ness pro- cesses?	De- vel- op- ing	Def- ini- tion Man- age- ment	In- for- ma- tion Ar- chi- tec- ture	Artifact Review	Data Dictio- nary / Data Cata- log

Ma- tu- rity Level	Cri- teria Name	Cri- teria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Category	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Data Lin- eage De- vel- op- ment	The lin- eage, in- clud- ing data trans- for- ma- tions, of the as- so- ci- ated data as- sets have been doc- u- mented and tracked	Has the SMA doc- u- mented the lin- eage of data as- sets that are used to sup- port the ca- pa- bil- ity and busi- ness pro- cesses?	Sup- ports trace- abil- ity, in- pact anal- y- sis, and data gov- er- nance ef- forts.		De- vel- op- ing	Def- ini- tion	Data Gover- nance	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Data Se- cu- rity Clas- sifi- ca- tions	Data se- cu- rity and pri- vacy clas- sifi- ca- tions have been ap- plied to all as- so- ci- ated data	Has the SMA iden- ti- fied and ap- plied clas- sifi- ca- tions that are used to sup- port the ca- pa- bil- ity busi- ness pro- cesses?	Pro- tects sen- si- tive in- for- ma- tion and com- pli- ance with pri- vacy reg- ula- tions.	De- vel- op- ing	Def- ini- tion & Privacy	Data Security & Privacy	In- for- ma- tion Ar- chi- tec- ture	

Ma- tu- rity Level	Cri- teria Name	Criteria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Def- ini- tion	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Data Vali- da- tion Rule Defi- ni- tion	Data val- ida- tion rules have been de- fined and im- ple- mented for the as- so- ci- ated data.	Has the SMA de- fine and is im- ple- mented for the as- so- ci- ated data.	En- sures that the SMA is vali- dated and data that is fit for use as it is col- lected/cre- ated. are used to sup- port the ca- pa- bil- ity busi- ness pro- cesses?		De- vel- op- ing		Data Quality	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	En- ter- prise Data Ref- er- ence Model Iden- tifi- ca- tion	En- ter- prise data ref- er- ence mod- els (MITA ped DRM, en- Con- cep- tual, Log- i- cal) have been iden- ti- fied.	Has the SMA iden- ti- fied and/or de- vel- oped en- ter- prise data ref- er- ence mod- els to sup- port the ca- pa- bil- ity busi- ness pro- cesses?	Es- tab- lishes a foun- da- tion for con- sis- tent data def- ini- tions and in- ter- op- er- abil- ity.	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	En- ter- prise Data Ref- er- ence Model Iden- tifi- ca- tion	En- ter- prise data ref- er- ence mod- els (MITA ped DRM, en- Con- cep- tual, Log- i- cal) have been iden- ti- fied.	Has the SMA iden- ti- fied and/or de- vel- oped en- ter- prise data ref- er- ence mod- els to sup- port the ca- pa- bil- ity busi- ness pro- cesses?	Es- tab- lishes a foun- da- tion for con- sis- tent data def- ini- tions and in- ter- op- er- abil- ity.			De- vel- op- ing	Data Architec- ture, Modeling & Design	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Mea- sure Defi- ni- tion	All mea- sure SMA spec- ifi- ca- tions that are in- cluded in the re- ports have been de- fined, that mapped to the cor- re- spond- ing data ele- ments and are un- der for- mal con- trol by the SMA.	Has the SMA de- vel- oped de- tailed mea- sures reli- able, and trace- able to source data. mea- sures needed to sup- port the re- ports used for the ca- bil- ity busi- ness pro- cesses?	En- sures mea- sures are con- sis- tent, reli- able, and trace- able to source data.	De- vel- op- ing	Business Intelli- gence & Data Science	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Re- port Defi- ni- tion	All re- ports that are needed to sup- port the busi- ness have been de- fined, the pub- lished and ac- ces- si- ble to au- tho- rized stake- hold- ers.	Has the SMA de- fined and pub- lished the re- ports that are used for read- ily ca- vail- able for decision- making. business pro- cesses?	En- sures re- port- ing needs are met and in- for- ma- tion is read- ily avail- able for decision- making.	De- vel- op- ing	Business Intelli- gence & Data Science	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Has the SMA data struc- tural fin- dings and are aligned with the struc- ture of the data ca- pa- bility business pro- cesses?	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Struc- ture Data Stan- dards Iden- tifi- ca- tion	All re- quired struc- tural fin- dings and are aligned with the struc- ture of the data ca- pa- bility business pro- cesses?	En- sures data struc- tures are don- tent and in- ter- era- ble cross sys- tems and pro- cesses.	De- vel- op- ing	Data In- tegration & Interoper- ability	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	Has the required capabilities/ reference data.	Related Activity (ies)	Pro- motes stan- dard- iza- tion and in- ter- op- er- abil- ity by us- ing com- mon ter- mi- nol- ogy and code sets. busi- ness pro- cesses?	Cat- e- gory Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 2	Vo- cab- u- lary Data Stan- dard Iden- tifi- ca- tion	All re- quired vo- cab- u- lary/ reference data. All have been iden- tified and aligned to as- so- ci- ated ref- er- ence data.	Has the SMA fin- anced the vo- cab- u- lary/ reference data. All have been iden- tified and aligned to as- so- ci- ated ref- er- ence data.	Pro- motes stan- dard- iza- tion and in- ter- op- er- abil- ity by us- ing com- mon ter- mi- nol- ogy and code sets. busi- ness pro- cesses?	De- vel- op- ing	Reference Data Manage- ment	In- for- ma- tion Ar- chi- tec- ture		

Ma- tu- rity Level	Cri- teria Name	te- ria	Ques- tion	Ra- tio- nale	Related Activity (ies)	Cat- e- Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
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brevity)

Ma- tu- rity Level	Cri- teria Name	Im- prove- ment	Does the SMA reg- u- larly iden- tify and im- ple- ment data se- cu- rity & pri- vacy based on ma- tu- rity and the im- pacted data is im- aligned to the en- ter- prise vi- sion for im- prov- ing	Ra- tio- nale Strength- ens pro- tec- tion of sen- si- tive data and com- pli- ance with pri- vacy reg- u- la- tions. age- ment im- prove- ment plans based on ma- tu- rity/per- for- mance gaps that im- prove data se- cu- rity & pri- vacy man- age- ment for	Related Activity (ies)	Cat- e- gory Type	Data Manage- ment Capabil- ity	Ar- chi- tec- ture	Sug- gested Valida- tion Method	Sug- gested Evi- dence
Level 5	Data Se- cu- rity & Pri- vacy Ma- tu- rity Im- prove- ment	Im- prove- ment plans have been de- vel- oped and im- ple- mented to ad- dress gaps in the SMA's data se- cu- rity & pri- vacy based on ma- tu- rity and the im- pacted data is im- aligned to the en- ter- prise vi- sion for im- prov- ing	Does the SMA reg- u- larly iden- tify and im- ple- ment data se- cu- rity & pri- vacy reg- u- la- tions. age- ment im- prove- ment plans based on ma- tu- rity/per- for- mance gaps that im- prove data se- cu- rity & pri- vacy man- age- ment for	Strength- ens pro- tec- tion of sen- si- tive data and com- pli- ance with pri- vacy reg- u- la- tions. age- ment im- prove- ment plans based on ma- tu- rity/per- for- mance gaps that im- prove data se- cu- rity & pri- vacy man- age- ment for		Op- ti- miz- ing & Pri- vacy	Data Se- cu- rity & Pri- vacy	Informa- tion Architec- ture		

Note: Only a subset of rows is shown; the full sheet can be added similarly.

Reference

Column	Description	Type	Description	Maturity Level	Data Description
Matu- rity Level	Identifies the lowest maturity level that the criteria applies to.		Initial		SMA is in a planning phase, readying the agency to support adoption of enterprise-wide planning efforts to improve SMA program delivery, yet no structured documentation or standards exist to support planning activities.

Column	Description	Type	Description	Maturity Level	Data Description
Criteria Name	Identifies a unique name for the criteria.		Developing	SMA meets or is working toward meeting required MES regulations (e.g. CFRs) and supporting guidance (i.e. SHO, SMD). SMA has formalized and begun adopting MES industry-recognized planning (i.e. MITA, PMBOK) and architectural frameworks (i.e. MITA, TOGAF, CMMI).	

Column	Description	Type	Description	Maturity Level	Data Description
Criteria	Identifies the specific criteria that must be met in order to be assessed at the defined maturity level.		Definition	SMA MES is compliant with required regulations (e.g. CFRs) and supporting guidance (i.e. SHO, SMD). SMA's MES has adopted and is managing to industry-recognized planning and architectural models allowing for transparency between their SS-A, MES Roadmaps, MES Concepts of Operations (COOs), Advanced Planning Documents (APDs), architectural frameworks, and reference models.	
Type	Identifies a category that groups similar types of criteria.		Managed	SMA MES maintains federal compliance, adheres to their planning and architectural models, and manages MES performance to achieve agency's vision, goals, and objectives.	

Column	Description	Type	Description	Maturity Level	Data Description
Ratio- nale	Identifies the rationale for how the criteria supports the SMA and/or CMS.		Optimizing	SMA MES maintains federal compliance, adheres to their planning and architectural models, and manages MES performance. SMA teams use iterative methodologies (e.g., Agile) to manage and enhance their MES planning and architectural efforts to help achieve agency's desired vision, goals, and objectives.	
Related Activity	Identifies the activity that should be performed to meet this activity				
Architec- ture	identifies the architecture that applies to the criteria.				
Sug- gested Valida- tion Method	Identifies a method for validating that the criteria has been met.				

Column	Description	Type	Description	Maturity Level	Data Description
Sug- gested Evi- dence	Identifies the artifact or other items that can be used to validate that the criteria has been met.				

Assignments

Data Exchange	Data Architecture Modeling	Master Data Management	Data Governance
Richard	Richard	Jeff	Dwayne

Data Role Reference Model

Role	Description
Data Owner	
Business Data Steward	
Technical Data Steward	
Data Governance Steering Committee	
Data Custodian	
Data Modeler	
Data Architect	

Technical Architecture Maturities

Placeholder content

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MITA Artifacts & Templates

Output of Outcomes Based Planning

TODO: OBP group to update and edit

CONOPS overview

Placeholder content for CONOPS overview

BA Viewpoints

IA Viewpoints

TA Viewpoints

Roadmap

Placeholder content for Roadmap.

MITA Scorecard

Placeholder content for MITA Scorecard.

SS-A Output

Guidance for generating and submitting MITA SS-A results (Scorecards) to CMS in the correct format

- Submit your results using the same standardized structure and field names as shown in the MITA Assessment Export file.
- Include all sections and fields exactly as they appear:
 - Header with “MITA Assessment Results”
 - State and System
 - Assessment Information: Assessment ID, Created, Last Updated, Status, Completion, Exported, Export Version, Last Saved
 - Summary Statistics: Overall Average Score, Capability Areas Assessed, Domains Covered, Assessment Completion
 - Capability Assessment Summary with the columns: Domain, Capability Area, Overall Score, Base Level, Bonus Outcome, Role, Business Process, Information, Technology
 - Detailed Assessment Results: Domain sections with capability areas and their detailed metrics (Overall Score, Base Level, Bonus, Outcomes, Checkbox Completion where applicable, Roles, Business Process, Information, Technology)
 - Footer on each page in the format “MITA Assessment Export - [State] Page [X] of [Y] Generated: [timestamp]”
- Use the “Export Version” field and the “Generated” timestamp as shown.
- Submitting with this template is important for CMS to be able to aggregate all states’ SS-A’s for national level reporting.

Template (fill in all placeholders as applicable)

MITA Assessment Results

State: [State Name]

System: [System Name]

Assessment Information

Assessment ID: [Assessment ID]

Created: [MMM DD, YYYY, HH:MM AM/PM]
Last Updated: [MMM DD, YYYY, HH:MM AM/PM]
Status: [Status]
Completion: [Percent%]
Exported: [MMM DD, YYYY, HH:MM AM/PM]
Export Version: [Version]
Last Saved: [MMM DD, YYYY, HH:MM AM/PM]

Summary Statistics

Overall Average Score [Value] out of 5.0
Capability Areas Assessed [X] of [Y]
Domains Covered [Number]
Assessment Completion [Percent%]

Capability Assessment Summary

Domain	[Domain Name]	Capability Area	[Capability Area Name]	Overall Score	[Value]	Base Level
Domain	[Domain Name]	Capability Area	[Capability Area Name]	Overall Score	[Value]	Base Level
Domain	[Domain Name]	Capability Area	[Capability Area Name]	Overall Score	[Value]	Base Level

MITA Assessment Export - [State Name] Page 1 of [Total Pages] Generated: [MMM DD, YYYY, HH:MM AM/PM]

Detailed Assessment Results

Domain: [Domain Name]

[Capability Area Name]

Overall Score: [Value] out of 5.0

Base Level: [Value], Bonus: +[Value]

Outcomes:

Level [Level], Final Score: [Value] (Level [Level] + [Bonus Detail])

Checkbox Completion: [Checked]/[Total] ([Percent%])

Roles:

Level [Level], Final Score: [Value]

Business Process:

Level [Level], Final Score: [Value]

Information:

Level [Level], Final Score: [Value]

Technology:

Level [Level], Final Score: [Value]

MITA Assessment Export - [State Name] Page [2] of [Total Pages] Generated: [MMM DD, YYYY, HH:MM AM/PM]

[Repeat the Detailed Assessment Results block above for each capability area under the domain]

Notes

- Use the exact section titles and field labels shown above.
- Include page footers with page numbers and the generated timestamp on each page.
- Maintain the “out of 5.0” notation where scores are reported.
- Populate Role, Business Process, Information, and Technology fields for each capability area as shown.

Open-Source SS-A Tool

Placeholder content for Open-Source SS-A Tool.

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References

References

Medicaid Information Technology Architecture Framework

Medicaid Information Technology Architecture (MITA) 3.0 was the previous major release of MITA, a Center for Medicare and Medicaid Services (CMS) initiative that fosters an integrated business and information technology (IT) transformation across the Medicaid enterprise in an effort to improve the administration and operation of the Medicaid program. This version updates version 2.0 published in 2006 and takes into account the availability of new technologies, such as cloud computing service based architecture. MITA 3.0 also reflects new and recently updated legislation, including:

- Health Information Technology for Economic and Clinical Health Act (HITECH)
- Children's Health Insurance Program Reauthorization Act (CHIPRA)
- Affordable Care Act (ACA)
- Health Insurance Portability and Accountability Act (HIPAA)

The CMS final rule entitled Medicaid Program: Federal Funding for Medicaid Eligibility Determination and Enrollment Activities (Federal Register Vol. 76, No. 75), effective April 19, 2011, provides states with the authority to receive enhanced federal funding in order to achieve a higher degree of interaction and interoperability across the Medicaid enterprise and the Health Insurance Exchanges and CMS IT Guidance for Exchanges and Medicaid IT systems.

MITA 3.0 also adds a new section to the framework to assist states in the preparation of the State Self Assessment and Advanced Planning Documents which are used by states to obtain federal financial participation for the costs of IT systems. Framework documentation is provided in the following zip files available for download:

- [MITA 3.0 Front Matter](#)
- [MITA 3.0 Part 1](#)
- [MITA 3.0 Part 2](#)
- [MITA 3.0 Part 3](#)
- [State Self Assessment](#)
- [MITA 3.0 BPT Vault](#)
- [MITA 3.0 BCM Vault](#)

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