

G2 OPS, INC.
**MIMIC GOLD STANDARD
METHODOLOGY™ (GSM)**



G2OPS®
Smarter Intelligence.®

**Methodology, Models, Analysis, and
Organizational Change Management**

Executive Summary

Just a few of the great challenges a new or growing organization must face include allocation of personnel, delineation of duties and tasks, understanding the tools necessary to perform work, and above all, the accessibility and integrity of that information for those who need to know. These considerations are universal and often managed using disparate methods and solutions across several distinct working groups. This approach can lead to miscommunication, inhibit work efforts, and ultimately impact the customer's experience.

G2 Ops, Inc. (G2 Ops) has established a holistic solution through MIMIC and its associated MIMIC Gold Standard Methodology (MIMIC GSM[™]), which exist to support key business insights for decision making, process control and optimization, and gap analysis, as well as provide an everyday job tool for all employees.



Introduction

MIMIC is the G2 Ops-developed “digital twin” capable of mirroring an organization’s people, processes, and technology and storing this information in an accessible, digital location. Its name is derived from the ability of G2 Ops’ systems engineers to accurately bring to life a digital representation of a nebulous concept or process that is both intelligible and useful to its users.

The MIMIC GSM[™] informs the execution of this work, and involves drawing from Human Resources, Program Management, IT systems, and other disparate enterprise information sources to transform this knowledge into an easily consumable format (e.g., Power BI dashboards, Standard Operating Procedures (SOPs), custom reports) for briefing those with a need-to-know or providing firm guidance to perform a company process. In addition, MIMIC helps identify cross-functional seam issues and outlines the communication channels necessary to minimize their impact to the organization.

Methodology

MIMIC and the structure of the MIMIC GSM are informed by G2 Ops’ high-level Gold Standard Methodology (GSM[™]), which is itself a series of Model-Based Systems Engineering (MBSE) industry best practices and strategies that consistently guide the organization’s project solution development.

The MIMIC GSM™ takes the overall framework of the GSM™ and expands its focus to the organizational-level. Using a model-based approach, MIMIC's purpose is to capture an organization's current operations and their enabling systems to develop an enterprise architecture. It leverages the GSM™ and combines industry standard modeling languages like Business Process Model and Notation (BPMN) and Systems Modeling Language (SysML) with G2 Ops' own vetted best practices.

The methodology facilitates understanding and reporting of key business insights, answering the following questions:

- Who works for the organization?
- What is each employee's role, and what are their responsibilities?
- What tools are needed for employees to perform their duties?
- Where can employees be allocated to provide optimal value, fulfillment, and growth?
- Where does the organization have skill gaps that need to be addressed through training?

Receiving answers to the above questions can help organizations be prepared for change, leverage their resources to the greatest extent possible, and empower their employees.

To see these results, however, the enterprise architecture imagined by the MIMIC GSM™ must be reliable and accessible. The methodology's structure is founded on the consideration of the enterprise architecture (model) as the single source of truth for an organization's approved processes, procedures, and employee information. By placing this emphasis on the architecture, employees can trace directives and established corporate behaviors to one place.

To ensure accessibility, G2 Ops ensures that the outputs (i.e., SOPs) from the MIMIC enterprise architecture are housed in a public location for employees to access. Placing these artifacts up front for employee use promotes collaboration and keeps eyes on the processes for future improvement. In addition, engaging with the MIMIC team to request new SOPs is a simple and effective process – by submitting a formal New Process Request Form, the MIMIC systems engineers receive all the data they need via means that facilitate rapid ingestion into the designated model or architecture.

Modeling

The model-based MIMIC GSM™ enterprise architecture is developed and maintained using Cameo Systems Modeler (CSM), offering a single tool to store and allocate company data, including people, roles, tools, and processes. Its scope also includes a custom profile where stereotypes and customizations are housed so that this necessary corporate data can be populated in a repeatable format.

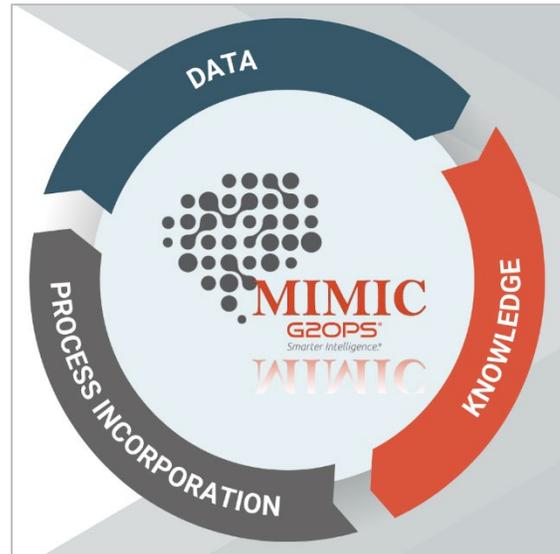
Models created by MIMIC systems engineers offer a concise visual representation of the data listed above, and activity diagrams map organizational procedures clearly and linearly. This ease of access and use bolsters the organization's ability to quickly comprehend and find gaps in its processes. In addition, the flexibility inherent to MBSE enables systems engineers to develop unique solutions and models tailored directly to the organizational need.

In addition, G2 Ops utilizes curated MIMIC plugins that interface with Cameo and extend the CSM functionality to include the ability to automatically import data from external sources, like ADP.

Capabilities and Products

The MIMIC GSM™ allows for the generation and maintenance of several functional artifacts produced and exported directly from the enterprise model. Just a few of the artifacts organizations may find useful include the following:

- The models themselves for succinct visualizations of company operations or dependent relationships
- Databases and related output visualizations in various formats
 - Spreadsheets
 - Power BI dashboards
- Training documentation (SOPs) to aid in the execution of day-to-day, recurring processes
- Custom reports for unique data analysis
 - Query a position qualification and certification requirements to identify personnel qualified for specific roles based on established parameters
 - Query personnel access requirements to understand which roles have specific user permissions
 - Query resource and tool requirements to understand what is needed to execute a task
- Organizational charts
 - View the structure for awareness of company reporting hierarchies
 - Understand accountable parties in company processes to assess gaps, traceability, and critical points



Organizations with these tools and resources at their disposal are better equipped to make fruitful business decisions and sustain operational effectiveness; the MIMIC GSM™ offers several interrelated paths to organizational success.

Organizational Change Management

The MIMIC GSM™ sets its sights on sustained, long-term organizational success, something only achieved through continuous refinement and improvement. Through the methodology's enterprise architecture, the single source of truth is capable of continuous maturation through secure, incremental updates.

Consistently capturing an organization's processes, technology, and operations in their current state allows for analysis and assessment for future improvement. When processes and the models representing them must change, CSM offers a thorough version history toolset for ongoing configuration management and visualization of how MIMIC artifacts grow and develop over time. Assigning the ability to make these updates and track them exclusively to the MIMIC engineers guarantees a secure and reliable workflow for the institution and analysis of organizational change.

In addition, storing all organizational processes, roles, relationships, and other data in a single space allows for convenient and comprehensive quality assurance of company practices. Artifacts such as dashboards and custom reports can output pertinent information in a digestible format capable of streamlining auditing efforts and freeing up time for leadership to implement valuable change.

Conclusion

MIMIC and its surrounding MIMIC GSM™ offer organizations a comprehensive solution to several unique and inevitable challenges. Its flexibility and accessibility allow for companies of any size to map their processes, roles, responsibilities, capabilities, tools, and more to a single space. Using MBSE and G2 Ops' own GSM™, MIMIC systems engineers can leverage established engineering best practices for a variety of organizational applications, bolstering the potential for meaningful change, creating reusable solutions for employees to use and reference, streamlining communication, and ensuring growth and refinement.

G2 Ops leverages a decade of experience integrating Systems, Cybersecurity, and Software Engineering techniques to provide solutions to a growing list of Government and private customers. G2 Ops combines cutting edge tools with innovative engineering practices, data analytics, and risk algorithms that enhance visibility into complex infrastructures, optimizing resiliency in system design and operations.

G2 Ops is a woman-owned small business led by an executive staff known for providing cutting-edge solutions to solve our nation's most complex engineering challenges. G2 Ops has been named to the Inc. 5000 list of America's fastest growing companies each of the last 6 years (2018-2023) and has locations in Arlington, VA, Virginia Beach, VA, and San Diego, CA.