


Imersis Supports the State Medicaid System Lifecycle

Improve T-MSIS data quality and prepare for modularity!



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Built on cloud-first architecture, Imersis is a leading-edge Software-as-a-Service that scores T-MSIS data files the same way as the Centers for Medicare and Medicaid Services (CMS). Imersis decomposes the Outcomes Based Assessment (OBA) into the underlying data quality measures and validation rules to allow users to pinpoint specific data quality issues, root out the sources of bad data, and remediate data quality concerns.

In addition to helping states significantly improve T-MSIS scores, Imersis has also provided an environment for states to test the impact of system modifications prior to implementation. It can also enable states to determine the health of the Medicaid Enterprise System (MES) in preparation for module go-live and CMS certification.

Imersis has a role to play in all aspects of the Medicaid system lifecycle.

In the **Operations phase**, Imersis can help states improve their T-MSIS data quality. Imersis could also be leveraged for Medicaid data analytics and program monitoring.

In the **Change Control phase**, states can use Imersis to test system modifications in lower environments before releasing them into the production system and visualize how the changes impact T-MSIS data quality scores.

In the **Design, Development, and Implementation (DDI) phase**, pre- and post-production testing using Imersis can help states determine the health of their system and give them reassurance that modules are ready to "go live," and prepared for CMS certification.

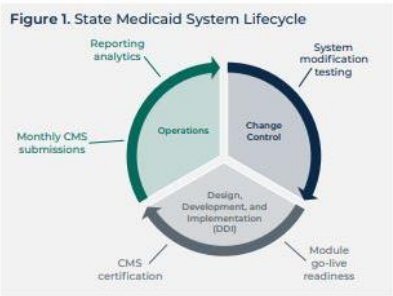




Figure 1. State Medicaid System Lifecycle

The diagram illustrates the State Medicaid System Lifecycle as a continuous cycle with three main phases:

- Operations:** Includes Reporting analytics and Monthly CMS submissions.
- Change Control:** Includes System modification testing.
- Design, Development, and Implementation (DDI):** Includes CMS certification and Module go-live readiness.

Imersis improves T-MSIS data quality.

- After just eight weeks of using Imersis, one state moved from red status (i.e., does not meet OBA targets - fail on critical priority) to blue status (i.e., meets OBA targets) on the OBA map for T-MSIS data quality on Medicaid.gov.
- Over five months of using Imersis, another state resolved 53 issues on their CMS data quality report, far surpassing their average of 34 issues per year over the prior three years.
 - Utilizing Imersis, Mathematica provided direct technical assistance support to the state on 43 percent of these issues (23/53).
 - Nearly half of the data quality issues the state resolved had been on their CMS data quality report for more than a year.

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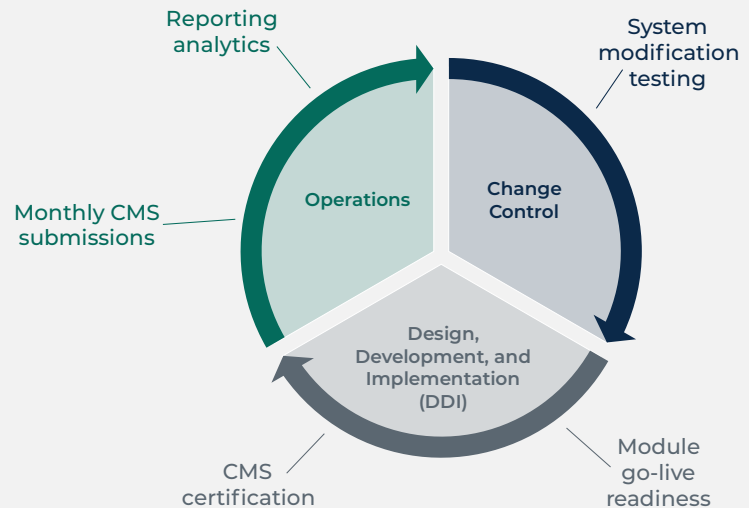
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Imersis enhances T-MSIS data quality improvement process and change control.

- / T-MSIS data quality scores are available in Imersis within 24 hours of a data submission. The quick turnaround gives states extra time to identify data quality issues and develop action plans for resolution before submitting data to CMS. It can also allow states to get a head start on fixing issues that CMS will identify in their submission.
- / Imersis supports states' change control process by enabling states to submit T-MSIS files from lower environments before pushing system modifications to production. 
"Nothing goes into our Medicaid system without first testing in Imersis."
— Rob, State Staff
- / Imersis supports an unlimited number of test files for any reporting period. This allows states to visualize the impact of system modification and code changes to their T-MSIS data quality scores and compare measure results between submissions as many times as is needed to achieve the desired result.
- / States have seamlessly integrated Imersis into their existing data quality improvement processes, including adapting the Production Readiness Review (PRR) Lifecycle to fully incorporate Imersis into their testing procedures.
- / One state client successfully added steps to their PRR to use Imersis to test a system modification on archived data instead of production data to resolve long-standing reporting in T-MSIS.
- / The Imersis team can create custom data quality measures to help states test specific modules or address data quality issues of importance.

Imersis supports design development and implementation (DDI) and modularity.

- / CMS continues to place greater emphasis on maintaining T-MSIS data quality scores as states transition to modular systems (SMD#22-001). Imersis helps DDI teams be confident that modules are ready to go-live through the submission comparison feature. By comparing T-MSIS data quality scores from existing monolithic systems to module test data before go-live, states can see the exact impacts module development has on their T-MSIS data quality scores. 
"We love using the tool because it really does what we need it to do to help us test things in advance and make sure they are working."
— Sam, Vendor

Imersis leverages Mathematica technical assistance support from T-MSIS experts.

- / Mathematica offers states technical assistance support through deep-dive sessions into prioritized data quality issues to review results in Imersis and identify root causes and potential solutions. Additionally, the Jira-based Imersis Help Desk provides both product support and access to T-MSIS experts to help states effectively and efficiently use Imersis to improve their T-MSIS data quality scores.
- / In deep-dive sessions, Mathematica guides states through Imersis to resolve state-specific issues. Recently we showed one state how to use the sample errant record feature to identify the providers with the highest volume of claims that were flagged with errors on a specific measure. The state used this information to deploy a system modification in their test environment and then submitted a test file to Imersis. After reviewing measure results in Imersis and determining that their fix was successful, the state deployed the modification to the production system and resolved the issue on their CMS data quality report. 
"We used the Sample Errant Records in DQ30 to develop our system fix."
— Chelle, State Staff

Let's continue the Imersis discussion.

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