



Medicaid Management Information System Replacement (MMISR) Project

**SI21 – Data Services (DS) Module Integration
– Increment 1 – Module Orientation and
Discovery**

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Table of Contents

1.0	Introduction	5
2.0	Purpose	5
3.0	Goal.....	5
4.0	Scope.....	5
5.0	Approach.....	7
6.0	Roles and Responsibilities	7
7.0	Risk Mitigation Methods.....	9
8.0	Assumptions/Constraints/Risks	9
8.1	Assumptions	9
8.2	Constraints	10
8.3	Risks	10
9.0	Module Orientation Sessions	10
10.0	DS Interface and Integration Backlog Management	11
10.1	SI Catalog Management.....	12
10.2	DS Module Integration Backlog	12
10.3	Module Integration Plan.....	14
11.0	Shared Services	15
12.0	Core Data Domains	15
12.1	Reference Data	16
12.2	Master Data	16
13.0	Other Data Sources.....	16
14.0	Enterprise Test Data	18
15.0	ICAM Integration	18
16.0	Appendices	19
16.1	Appendix A: Deliverable Record of Changes	19
16.2	Appendix B: List of Acronyms	19
16.3	Appendix C: Referenced Documents	21
16.4	Appendix D: Deliverable Approval Form	21

Table of Tables

Table 1 – SOW Tasks*	5
Table 2 – Roles and Responsibilities – Deliverable Development.....	7
Table 3 – Roles and Responsibilities - Test Data	8
Table 4 – Orientation and Discovery Session	10
Table 5 – Data Domains.....	13
Table 6 – Pass-Through Files.....	17
Table 7 – Deliverable Record of Changes	19
Table 8 – List of Acronyms.....	19

Table of Figures

Figure 1 – DS Release Cycle Process15

1.0 Introduction

The New Mexico (NM) Human Services Department (HSD) has adopted the Health and Human Services (HHS) 2020 vision, a transformational, enterprise-wide approach to the HHS business. HHS 2020 will move service delivery from a program-centric approach to a citizen-centric approach. In addition, HSD will migrate away from program and technology silos into an integrated, flexible framework that supports service delivery and stakeholder interaction across HHS programs and organizations. HHS 2020 is technology-enabled, but includes rethinking organizational design, redesigning and streamlining business processes, and reducing barriers between organizations within the HHS enterprise. Please see Section 1: Introduction in Project Management Plan (PMO1) for a detailed Medicaid Management Information System Replacement (MMISR) project overview (link provided in [Appendix C](#) Section 17.3 of this document).

The NM HSD selected the Spruce-KPMG Team as its MMISR System Integrator (SI) to assess, evaluate, design, plan, and develop the integration platform for an information system to coordinate functions and operations between multiple agency systems and service modules.

2.0 Purpose

As part of the Spruce-KPMG Team Statement of Work (SOW), the Spruce-KPMG Team will provide Deliverable Number 21: Data Services (DS) Module Integration (SI21). The purpose of this deliverable for SI21 – Increment 1 – DS Module Orientation and Discovery is for the deliverable purpose, goals, description, and structure relative to the integration of the DS Module. The intended audience for this document includes the HSD-designated reviewers of SI21 – DS Module Integration as defined in the Resource Needs spreadsheet (link provided in [Appendix C](#) Section 17.3 of this document).

3.0 Goal

The goal of the SI21 – Increment 1 – DS Module Orientation and Discovery is to outline the contents of the SI21 deliverable, including descriptions of each of the planned increments of the deliverable, as well as each of the tasks that exist within those increments.

4.0 Scope

Based on the agreed-upon SOW, the scope of SI21 – Increment 1 – DS Module Orientation and Discovery includes:

Table 1 – SOW Tasks*

Task Item	Sub Tasks	Description
1.0 Module Orientation and Discovery		
	1.1	Contractor will conduct module orientation sessions in collaboration with MMISR Module Contractor to review their implementation schedule and

Deliverable – SI21 – DS Module Integration – Increment 1 – Module Orientation and Discovery

Task Item	Sub Tasks	Description
		identify schedule coordination for system integration platform (SIP) interactions.
	1.2	The MMISR Module Contractor will provide its out-of-the-box (OOTB) application programming interface (API) Catalog and interface needs. The Contractor will update the Orchestration and Interface Catalogs and create a backlog with identified interfaces and integrations. Contractor will plan the integration and provide a project plan to the Procuring Agency for module integration activities.
	1.3	Contractor will collaborate with the MMISR Module Contractor to orient the MMISR Module Contractor of shared services (Address Standardization and Validation [ASV]; Identity, Credential, and Access Management [ICAM]; Master Data Management [MDM] [Client and Provider]; Enterprise Content Management [ECM]/Communication Content Management [CCM]), core data domains (Claim, Provider, Member, etc.), reference data, enterprise test data, and system migration repository (SMR). The MMISR Module Contractor will use this information to document its requirements to integrate with the SIP.
	1.4	Contractor will determine configuration requirements for the SIP integration services to the MMISR Module Contractor across scope areas identified in the task above including shared services (ASV, MDM, ICAM, ECM, CCM), core business services, and additional data sources to be included in data migration via the SMR.
	1.5	Contractor will collaborate with the MMISR Module Contractor to identify what SIP and MMISR Module Contractor integration services need to be monitored using automated tools on the SIP to confirm compliance with the Maintenance and Operations (M&O) Plan and with the Procuring Agency approved service level agreements (SLAs).
2.0 Review and Acceptance of Module Orientation and Discovery Tasks		
	2.1	Contractor will deliver module integration schedule and updated Interface and Orchestration Catalogs in the configuration management database (CMDB) for review and acceptance by Procuring Agency.

*Please note that the SOW is in the process of revision as part of the contract amendment process and tasks reflect the updated version rather than the original version of the SOW. Additionally, please note that based on discussions with the DS Module Contractor, only Phase 1 of the activities in Task 5.0 (Sub-Tasks 5.1-5.5) will be applicable for this module integration.

Decisions and clarifications relative to the scope of this deliverable will be documented in the MMISR Decision Log on SharePoint: MMISR – Decisions – All Items (sharepoint.com) (link provided in [Appendix C](#) Section 17.3 of this document).

Only Tasks 1.0 and 2.0 is covered in Increment 1 deliverable Orientation and Discovery.

5.0 Approach

The SI team’s approach for the DS Module’s Orientation and Discovery is to conduct weekly HSD-DS-SI meetings with the HSD and DS Module teams to socialize the integration points and understand the gaps. The SI team will document the gaps in the meeting minutes and create JIRA modification proposals and address the resolution in the JIRA tickets for each type of integration – Security and ICAM integration, Shared Services integration, Data integration which includes transactional data, reference data, master data and test data, and Service and Infrastructure Monitoring.

6.0 Roles and Responsibilities

The table below lists the roles and responsibilities specific to the creation and review of this deliverable.

Table 2 – Roles and Responsibilities – Deliverable Development

Role	Responsibilities
SI Deliverable Team	<ul style="list-style-type: none"> • Conduct deliverable kickoff (in email form) • Develop Deliverable Expectations Document (DED) and obtain approval following the established review process • Perform the scope of work defined in the contract for the deliverable • Develop deliverable and coordinate with HSD throughout the established review process to address reviewer feedback
Deliverable Review Team	<ul style="list-style-type: none"> • Participate in knowledge transfer (KT) and other working sessions • Provide documentation and related information to SI Deliverable Team • Review deliverable in alignment with the Request for Quote (RFQ), proposal, and contract
Enterprise Project Management Office (EPMO)	<ul style="list-style-type: none"> • Review the deliverable against the "Deliverable Standards Acceptance Criteria" checklist and provide comments, as applicable
Independent Verification and Validation (IV&V)	<ul style="list-style-type: none"> • Review deliverable in alignment with the RFQ, proposal, and contract
HSD Contract Manager	<ul style="list-style-type: none"> • Provide notification to the SI Deliverable Team of rejection or approval of the deliverable • Coordinate the completion of the Deliverable Approval Signature Form
HSD Project Manager (PM)	<ul style="list-style-type: none"> • Coordinate Subject Matter Expert (SME) reviews of the deliverable • Coordinate the submission and tracking of comments provided by reviewers on the deliverable • Communicate status of the deliverable to the HSD Contract Manager, SI Deliverable Team, Deliverable Review Team, EPMO, and IV&V

The table below lists the roles and responsibilities specific to the testing performed for the test data provided to the DS Module Contractor.

Table 3 – Roles and Responsibilities - Test Data

Role	Responsibilities
SI Developer	<ul style="list-style-type: none"> • Generate comma-separated values (CSV) files from the ingested data based on approved layouts for unit testing • Resolve defects logged in the SI JIRA project by the SI Testing Team or the DS Module Contractor
SI Data Engineer	<ul style="list-style-type: none"> • Submit queries to HSD for production data files • Create the accompanying configuration file for each CSV file to be ingested by Deidentification of User Data for the deidentification tool • Access the de-identification tool to deidentify requested data • Coordinate with HSD for the deidentification tool’s “Source System” and “Common Value Lists” for deidentification of data • Oversee ingestion process and load deidentified data and production files to the SIP
SI Test Engineer	<ul style="list-style-type: none"> • Support Data Engineer in deidentification process, including JavaScript Object Notation (JSON) creation • Use platform-generated CSV files to perform functional testing • Compare data found in generated CSV files to the approved layouts • Log Bugs and Modification Proposal tickets in the SI JIRA project for any irregularities found during unit testing • Liaise with HSD and the DS Module Contractor regarding any Bug or Modification Proposal tickets filed in the SI JIRA project • As needed, conduct retesting of generated CSV files to confirm resolution of reported issues • Report status and analysis of issues as requested during Daily and/or Weekly meetings with the DS Module Contractor • Present key blocking issues during Issue Review Meeting and provide insight into Modification Proposal tickets during HSD data collaboration meetings/weekly HSD-DS-SI meetings. In alignment with HSD process, only certain technical issues are sent to the Data Governance Council (DGC) or Technical Change Review Board (TCRB). • Review and triage Bugs logged by the DS Module Contractor • Coordinate with the DS Module Contractor regarding issues reported by the DS Module Contractor
NM HSD	<ul style="list-style-type: none"> • Coordinate resolution of defects related to the issues raised by the Spruce-KPMG Team and/or Data Service Module attributed to source systems data
Data Shepherds	<ul style="list-style-type: none"> • Support analysis of any source system-related issues
DS Module Contractor	<ul style="list-style-type: none"> • Conduct initial triage of delivered data by comparing output against the integration design documents (IDDs), file lists, and requirements for DS Module integration

	<ul style="list-style-type: none">• Log suspected SIP Bugs in the SI JIRA project• Retest Bug addressed by the SI Developers that were previously logged or reported by the DS Module Contractor
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7.0 Risk Mitigation Methods

To help mitigate risks throughout the deliverable development process, the Spruce-KPMG Team maintained consistent and open communication with the DS Module Contractor, HSD PM, and other HSD key resources as defined in the PMO7 - Risk Management Plan (link provided in [Appendix C](#) Section 17.3 of this document). Any issues were immediately escalated to help ensure that completion of the deliverable would remain on schedule. The Spruce-KPMG Team also held regular meetings with the DS Module Contractor and HSD to track the progress of completing work on the deliverable and identify any challenges and cross-workstream dependencies.

8.0 Assumptions/Constraints/Risks

This section documents any assumptions made, constraints considered, and risks identified that affected the development of the deliverable.

8.1 Assumptions

- The Spruce-KPMG Team assumes that incremental files are generated and provided by the Omnicaid source system vendor or module contractor. If such incremental files are not available, the Spruce-KPMG Team assumes that any periodic load will be a full load that overwrites the existing Staging data store.
- The Spruce-KPMG Team assumes that SI will get direct read access to the Automated System Program and Eligibility Network (ASPEN) database and ASPEN source tables will have column(s) to identify the incremental records. If such column(s) are not available, the Spruce-KPMG Team assumes that any periodic load will be a full load that overwrites the existing Staging data store.
- The Spruce-KPMG Team assumes that Staging zip files received will be archived per the HSD backup and archiving policy; however, data in Staging will be overwritten by future loads/updates.
- The Spruce-KPMG Team assumes that Omnicaid and ASPEN data extraction selection criteria to extract source data are identified and validated by HSD.
- The Spruce-KPMG Team assumes that business data quality validations (for example: max claim amount or drug price cap amount) will not be implemented within the extract, transfer, load (ETL) process; instead, the Spruce-KPMG Team will implement only data quality rules for format, structure, and data types.
- The Spruce-KPMG Team assumes that this document only addresses batch file-based data exchanges and not service-oriented architecture (SOA)-based exchanges.

- The Spruce-KPMG Team shall be in compliance with HSD security requirements including Center for Medicaid and Medicare Services (CMS) Minimum Acceptable Risk Standards for Exchanges (MARS-E) 2.2 and Internal Revenue Service (IRS) Pub 1075 standards.
- The Spruce-KPMG Team shall be in compliance with Federal Information Processing Standards (FIPS) Publication 140-2 encryption standards.

8.2 Constraints

- The Spruce-KPMG Team will ingest incremental files from Omnicaid for Claims data and SI will run incremental query to get extract from ASPEN for eligibility data. All other data sources (non-claims for Omnicaid and non-eligibility tables in ASPEN) are received as a full reload.
- The Spruce-KPMG Team will only be passing data through to the DS Module Contractor. Any defects within the data which originate from the source cannot be fixed by the SI.

8.3 Risks

- Data sources and data files planned by the SI in 2023 and 2024 are requested by HSD in 2022 as pass-through files in order for DS to complete design, development, and implementation (DDI) activities. These additional requirements will need to be factored into the SI's project schedule to avoid delays in data delivery. To help mitigate this risk, the contents of pass-through files will not be altered by the SI. For future pass-through files, the SI has proposed using the MFT tool after the MFT license is acquired for next year.
- Data delivery of full load of Omnicaid data and ASPEN data within required SLAs could be delayed if infrastructure capacity needs are not met in a timely manner.
- Data delivery of full load of Omnicaid data and ASPEN data within required SLAs could be delayed if there are data quality issues in the source system's data that needs to be fixed in the source system or if there is no clear interim resolution from HSD that could be implemented by the SMR solution. Any Critical issues, Major issues, and Minor issues are resolved within HSD-specified timeline guidance to meet the SLAs.
- If changes in layouts of data from source or consuming systems are not communicated to the SI before development begins, it could cause delays in data delivery.
- Any errors in the metadata which are identified after the development starts and code freeze date could cause delays in data delivery.

9.0 Module Orientation Sessions

The SI team has conducted the following sessions with the HSD and DS teams for Module Orientation and Discovery to discuss and confirm the DS Integration points and gaps. The meeting agenda, presentation, meeting minutes and action items for these are available in the table below:

Table 4 – Orientation and Discovery Session

Topic	Meeting Dates	Link to Presentations	Link to Minutes	Link to Action Items
Data Delivery	5/25/22 6/1/22	SI Team Deck	Minutes	No action item recorded
Reference Data	5/25/22 6/1/22 6/28/22 (Reference Data Management [RDM] Solution)	SI Team Deck SI-HSD RDM Meeting Deck	Minutes SI-HSD RDM Meeting minutes	Recorded action items in the respective meeting minutes
Test Data	5/25/22 6/1/22	SI Team Deck	Minutes	No action item recorded
ICAM and Security	4/27/22 5/24/22 6/21/22	ICAM - DS Integration.pptx DS ICAM Integration - Requirement - Design Workshop 1 DS ICAM Integration - Requirement - Design Workshop 2	No formal minutes. DS ICAM Integration - Requirement - Design Workshop 1 DS ICAM Integration - Requirement - Design Workshop 2	Recorded action items in the respective meeting minutes
Shared Services	5/25/22 6/1/22	SI Team Deck	Minutes	No action item recorded

10.0 DS Interface and Integration Backlog Management

As part of the SI11 Deliverable – SaaS Customizations for Enterprise Designs (link provided in [Appendix C](#) Section 17.3 of this document), the Spruce-KPMG Team collaborated with NM HSD and created an Integration Backlog and To-Be Interface Catalog for the DS module. The Integration Backlog identifies integration points discovered through the Business Transformation Council (BTC) journey analysis and provides business view of potential integration. The To-Be Interface Catalog for the DS Module identifies interfaces from the As-Is catalog as well as information from the current DS Module Integration file lists.

10.1 SI Catalog Management

SI has already delivered to the DS Module vendor three (3) years of data files on March 31, 2022, and incremental weekly files between April 7, 2022, and April 28, 2022. This file inventory list has been documented in deliverable SI06 – Group 6 Plans/Designs – Canonical Model, ETL (link provided in [Appendix C](#) Section 17.3 of this document) which was submitted and approved by HSD.

Based on DS Module testing and change requests (or Modification Proposals in NM SI JIRA instance) submitted to HSD and approved by HSD, SI will implement the change requests and fix the remaining open defects. SI has agreed to submit the modified inventory file list along with the layouts to HSD and the DS Module by July 31, 2022. This will be included in deliverable SI21 – Increment 2 – Update SIP Configuration Designs.

The DS Module change requests approved by HSD includes the following type of representative changes:

- File layout changes to specific columns for data type or length based on data received
- Legacy column removal for columns that are no longer relevant to the new SaaS solution platform; for example, legacy MarkLogic internal keys for document model representation
- File layout consolidation for child tables that are combined with the parent table (flattening)
- File layout changes for data sourced from both ASPEN and Omnicaid Client and Managed Care Organization (MCO) domains; HSD recommended to keep the data separate instead of combining data from both systems into one (1) file
- Duplicate record removal based on composite business keys provided for the Omnicaid and ASPEN tables
- Updates to Business Keys (primary and foreign) as defined by the source system and SMEs, which the SI team will translate to the layout
- File format changes to handle special characters
- Record removal for records that have nulls in mandatory columns
- Additional tables to the model which include ASPEN Living arrangement data table, Omnicaid Provider MCO Network data table, and ASPEN Application data tables

The SI11 Orchestration Plan Integration Backlog information for the DS Module will not be used in this deliverable because the scope is limited to DS Module data delivery for the January 2023 go-live date.

10.2 DS Module Integration Backlog

Based on the above scope definition for the DS Module integration, the DS Module Integration Backlog will contain only the current file lists for integration. The following is the domain level information for DS Module integration.

Table 5 – Data Domains

Domain Name	Domain Description	Integration Direction to SI
Provider	An individual, institution, facility, agency, physician, health care practitioner, non-medical individual agency, or other entity that is licensed or otherwise authorized to provide any of the Covered Services in the state to HHS 2020 Enterprise Agencies. Providers include individuals and vendors providing services to Clients.	Outbound
Claim	A record of services rendered to a Client. This may include bills or invoices submitted by a Provider to the state, or a per member per month reimbursement (e.g., capitation) claim generated for months of enrollment.	Outbound
Client_Omnicaid	A person or entity that is or has been eligible and enrolled in state programs served by the vendor selected as a result of this procurement. It is also referred to as Beneficiary, Member, Participant, or Recipient.	Outbound
Client_Aspen	A person or entity that is or has been eligible and enrolled in state programs served by the vendor selected as a result of this procurement. It is also referred to as Beneficiary, Member, Participant, or Recipient.	Outbound
Financial	Creation of Gross Level Payouts, Cost Settlement, Reconciliations, Recoupments and Accounts Receivables and Creation of interfaces to State-wide Human Resources, Accounting, and Management Reporting (SHARE) and Department of Finance and Administration (DFA).	Outbound
Prior Authorization	The New Mexico Omnicaid Prior Authorization (PA) Subsystem collects and maintains comprehensive current and historical information about Prior Authorizations. PAs are submitted for the determination of medical and dental necessity for Medicaid and waived services for the clients of New Mexico’s Medicaid Program.	Outbound
Managed Care_Omnicaid	Information that identifies a managed care plan. This data is currently used in Omnicaid only for cohort generation.	Outbound
Managed Care_Aspen	Information that identifies a managed care plan. This data is currently used in ASPEN for enrolling clients appropriately.	Outbound
Third Party Liability	The Third Party Liability Subsystem Narrative maintains comprehensive current and historical information to support the benefit recovery functions of the New Mexico Omnicaid MMIS.	Outbound

	<p>The Medical Assistance Division (MAD) uses this information to reduce its liability to pay for client Medicaid claims. The Third Party Liability (TPL) Subsystem ensures that Medicaid is the payer of last resort by identifying, cost avoiding and recovering from liable third parties.</p>	
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10.3 Module Integration Plan

The DS Module integration plan is based on the current timeline and scope agreement with the DS Module vendor and NM HSD. This plan will leverage KPMG Resource Integration Suite – Connected (KRIS-C) Data Integration capabilities and tools with existing file transfer provisions.

SI will be sending data to the DS system and to do that SI will need the following integration points:

- Omnicaid to SIP: File-based inbound data transfer from Omnicaid server to SI’s file server. SI had a meeting on May 12, 2022, with Omnicaid team and agreed to meet in August 2022 to confirm the endpoints for the file servers and how the Omnicaid team can send the files directly to SI’s input file server.
- ASPEN to SIP: Database connectivity to ASPEN Oracle Production Backup database from SI’s Database to run read-only ASPEN queries to pull the data from ASPEN tables. SI met with the ASPEN team on June 22, 2022 and agreed to meet in August 2022 to confirm firewall settings, endpoints and database connections.
- HSD to SIP: File-based inbound data transfer for pass-through files from HSD Secure SharePoint site to SI’s input file server. SI met with HSD on March 14, 2022 and agreed on a process for transferring pass-through files manually from the HSD SharePoint site to DS MoveIT server.
- SIP to DS Module: File-based outbound data transfer from SI’s output file server to DS MoveIT server. SI met with DS on May 25, 2022 and agreed to meet in August 2022 to confirm new server Internet Protocol (IP) address whitelisting to enable the connectivity and user credentials for MoveIT server access.

The above dates are based on project plan submitted by SI Project Management Office (PMO) to HSD on June 24, 2022 and are subject to change based on discussions with HSD and the DS Module. The following diagram shows the DS Module release cycle and how data delivery to the DS Module will be managed and issues addressed.

Deliverable – SI21 – DS Module Integration – Increment 1 – Module Orientation and Discovery

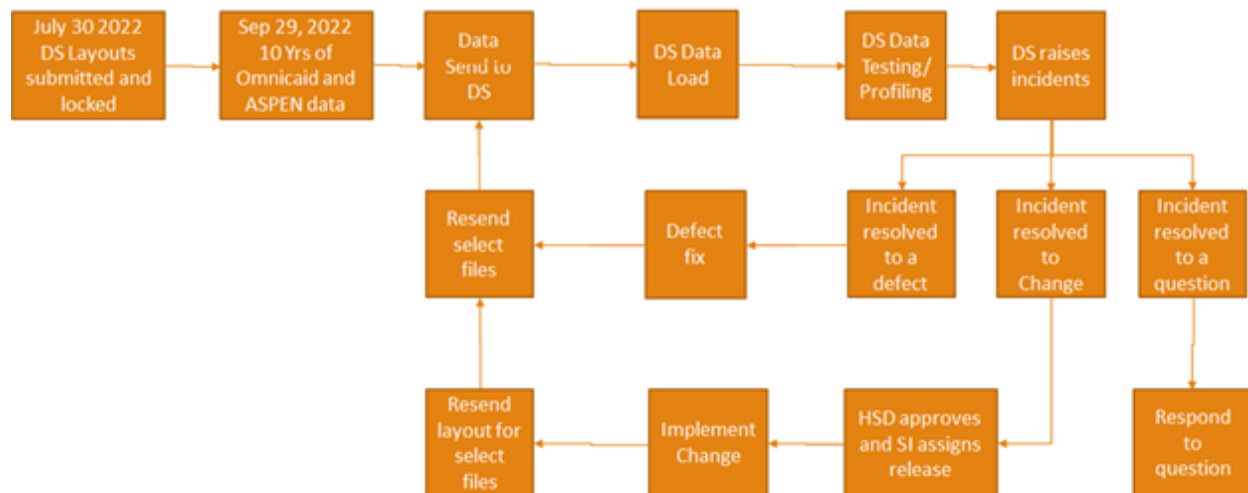


Figure 1 – DS Release Cycle Process

11.0 Shared Services

The KRIS-C Solution provides Shared Services for ASV, ECM/CCM, and MDM for module integration usage. ASV, ECM/CCM and MDM Shared Services will not be in scope for DS Module Integration based on the current scope agreement with the DS Module vendor and NM HSD. This was reviewed during the SI21 Kick-off for Orientation/Discovery with the DS Module.

12.0 Core Data Domains

For Omnicaid data received by the SI, the data from the following seven (7) core data domains will be sent to the DS Module vendor for nine (9) Years (from 1/1/2014 to 8/31/2022):

- Client
- Provider
- Claims
- TPL
- PA
- Financial
- MCO

For ASPEN data pulled by the SI, the data from the following three (3) core data domains will be sent to the DS Module vendor for nine (9) Years (from 1/1/2014 to 8/31/2022):

- Client (Eligibility, Case, Application, Enrollment)
- MCO
- Miscellaneous (new domain created by HSD in their Metadata)

The file list for each domain will be submitted in deliverable SI21 – Increment 2 – Update SIP Configuration Designs.

After completing the nine (9) years of one-time data delivery on September 29, 2022, the SI will send weekly files to the DS Module as they are sent from Omnicaid and ASPEN to SI starting October 1, 2022 to the go-live date of January 1, 2023.

After the go-live date, SI will be sending the data on a weekly basis to the DS Module as per the SI maintenance and operations plan. All the above dates are based on the project plan submitted by SI PMO to HSD on June 24, 2022, and are subject to change based on discussions with HSD and the DS Module.

12.1 Reference Data

The SI team will be sending three (3) sets of reference data to the DS Module as they are received from source systems and HSD:

- Omnicaid Reference tables that are mapped in HSD Metadata
- Omnicaid Valid Values Reference CSV (refresh only when sent from Omnicaid)
- ASPEN Reference tables that are mapped in HSD Metadata

If there are any other reference data HSD maintains manually, SI will be sending them as pass-through files.

Please note that the legacy Multi-Value Map Reference file sent from the previous SI vendor will not be sent to the DS Module as all the reference values in the Multi-Value Map Reference file are covered by the three (3) sets of reference data. This change was based on the recommendation from HSD Omnicaid SME and ASPEN SME and SI's own comparison analysis.

12.2 Master Data

As agreed with HSD and the DS Module Contractor on November 8, 2021, the SI team will be sending Enterprise Identifiers for Client and Provider files to DS in the files below:

- Aspen Client, Address, Language, Veteran and Merge files
- Omnicaid Client, Address, Language, Veteran and Merge files
- Provider file

The MDM solution will be implemented with matching, merging and survivorship rules as per the agreed SI Project plan with HSD in 2023.

13.0 Other Data Sources

The following table contains the list of pass-through files provided by HSD with their associate source systems which will then be transferred over to DS Module:

Table 6 – Pass-Through Files

File Name	File Description	Source System/Module	Target System/Module
Federal Medical Assistance Percentages (FMAP)	Alternate Name: Federal Financial Participation in State Assistance Expenditures Needed for: CMS Federal reports (CMS64, CMS21, CMS37)	MAD	DS Module
CMS 64 Manual Adjustment File	Required for CMS 64	MAD	DS Module
Projection Files – State Medicaid Projections	Needed for Financial Dashboard and CMS37/21B	MAD	DS Module
Projection Files – CMS37/21B Budget Projections	Needed for Financial Dashboard and CMS37/21B	MAD	DS Module
CMS accounting values	Needed for CMS64 and CMS21	HSD- Administrative Services Division (ASD)/HSD – MAD	DS Module
SHARE General Ledger	Needed for CMS54, CMS21, CMS37, Financial Dashboard, CMS64 Data Mart, Financial Data Mart	MAD – SHARE	DS Module
Palco	Needed for Home and Community Based Services (HCBS) Dashboard and Client Data Mart	MAD – Palco	DS Module
U.S. Census Data	Needed for HSD data analysis done by analysis and economists	U.S. Census	DS Module
Omnicaid System tables	DS requested Omnicaid System tables (SYSTEM_PARAM_HEADER, SYSTEM_PARAM_DETAIL, SYSTEM_LIST_HEADER, SYSTEM_LIST_DETAIL)	Omnicaid	DS Module

14.0 Enterprise Test Data

The Enterprise Test Data Deidentification process will be described in detail in the forthcoming SI18 deliverable – Enterprise Test Data. Per the Orientation and Discovery sessions held with HSD and the DS Module Contractor on June 1, 2022 and June 8, 2022, the SIP Enterprise Test Data De-identification process will not be leveraged for the upcoming DS Module integration as part of SI21. Instead, live production data (Personally Identifiable Information [PII]/Protected Health Information [PHI]) will be used for testing throughout the upcoming integration phases in both System Integration Testing (SIT) and User Acceptance Testing (UAT). This data will not follow the Enterprise Test Data Deidentification process and will follow the standard SIP to DS data file process. Internally, SIP will be using deidentified data generated in February 2022 for unit testing.

15.0 ICAM Integration

Please note that this section was not included in the approved DED and was added to clarify and address ICAM integration.

ICAM is a framework of business processes, policies and technologies that facilitates the management of identities in the form of employees, contractors, vendors, and other state agency users. DS applications will have two (2) primary areas of integration with ICAM: Access Management and Identity Management.

Access Management

The Access Management provides functionalities such as authentication and coarse-grain authorization using industry standard federated protocols such as Security Assertion Markup Language (SAML) 2.0 for DS web applications. All the internal HSD users will be authenticated against DoIT Azure Active Directory (AD) orchestrated by ICAM as identity broker. Once the authentication is successful, ICAM will enforce coarse-grain authorization to make sure internal HSD users have required application access. Fine-grain authorization will be handled by the individual DS application. The applications that are considered for access management integrations are Cognos, Tableau and Infosphere.

Note: Access to the non-human user accounts such as service/system accounts are enforced outside ICAM. These are typically managed within other KRIS-C Solution components.

Identity Management

The Identity Management provides functionalities such as user access request and approval, provisioning/de-provisioning of users and access, access request fulfillment. The user's access is being facilitated either by Azure AD group mapping or leveraging ServiceNow request access portal. User and Access provisioning will be either automated by ICAM using standard connectors or it can be manually provisioned by emailing the application administrations and assigning the fulfillment task in ICAM/ServiceNow. The applications that are considered for identity management integrations are Cognos, Tableau, Infosphere and Structured Query Language (SQL) Developer/Client.

16.0 Appendices

16.1 Appendix A: Deliverable Record of Changes

The deliverable will include a record of changes in the following form:

Table 7 – Deliverable Record of Changes

Version Number	Date	Author/Owner	Description of Change
0.1	6/24/2022	Spruce-KPMG Team	The initial draft for internal review
1.0	7/5/2022	Spruce-KPMG Team	Initial draft submitted to NM Deliverable Review Team
2.0	7/26/2022	Spruce-KPMG Team	Final draft submitted to NM Deliverable Review Team

16.2 Appendix B: List of Acronyms

A list of project-specific acronyms will be maintained on the MMISR SharePoint site.

Table 8 – List of Acronyms

Acronym	Definition
AD	Active Directory
API	Application Programming Interface
ASD	Administrative Services Division
ASPEN	Automated System Program and Eligibility Network
ASV	Address Standardization and Validation
BTC	Business Transformation Council
CCM	Communication Content Management
CMDB	Configuration Management Database
CMS	Center for Medicaid and Medicare Services
CSV	Comma-Separated Values
DED	Deliverable Expectations Document
DFA	Department of Finance and Administration
DS	Data Services
ECM	Enterprise Content Management
EPMO	Enterprise Project Management Office
ETL	Extract, Transfer, Load
FMAP	Federal Medical Assistance Percentage
HCBS	Home and Community Based Services
HHS	Health and Human Services

Deliverable – SI21 – DS Module Integration – Increment 1 – Module Orientation and Discovery

Acronym	Definition
HSD	Human Services Department
ICAM	Identity, Credential, and Access Management
IDD	Integration Design Document
IP	Internet Protocol
IV&V	Independent Verification and Validation
JSON	JavaScript Object Notation
KRIS-C	KPMG Resource Integration Suite – Connected
KT	Knowledge Transfer
M&O	Maintenance and Operations
MAD	Medical Assistance Division
MCO	Managed Care Organization
MDM	Master Data Management
MMIS	Medicaid Management Information System
MMISR	Medicaid Management Information System Replacement
NM	New Mexico
OOTB	Out-of-the-box
PA	Prior Authorization
PHI	Protected Health Information
PII	Personally Identifiable Information
PM	Project Manager
PMO	Project Management Office
PMO1	Project Management Plan
PMO7	Risk Management Plan
RDM	Reference Data Management
RFQ	Request for Quote
SAML	Security Assertion Markup Language
SHARE	State-wide Human Resources, Accounting, and Management Reporting
SI	System Integrator
SI06	Deliverable 6 – Group 6 Plans/Designs – Canonical Model, ETL
SI11	Deliverable 11 – SaaS Customizations for Enterprise Designs
SI18	Deliverable 18 – SaaS Enterprise Test Data
SI21	Deliverable 21 – Data Services Module Integration
SIP	System Integration Platform
SIT	System Integration Testing
SLAs	Service Level Agreements
SME	Subject Matter Expert
SMR	System Migration Repository
SOA	Service-Oriented Architecture
SOW	Statement of Work
SQL	Structured Query Language
TPL	Third Party Liability
UAT	User Acceptance Testing

16.3 Appendix C: Referenced Documents

Upon contract award, the selected vendor will be provided access to additional information, as needed.

16.4 Appendix D: Deliverable Approval Form

Upon approval of the SI21 DS Module Integration – Increment 1 – Module Orientation and Discovery deliverable, the Deliverable Approval Signature Form must be filled out, where appropriate, printed, and routed for signature. Once all signatures are provided, the Deliverable Approval Signature Form must be uploaded to SharePoint in its respective deliverable folder.