

## PART II SCOPE OF SERVICES

### DATA STREAMS

MHDO currently manages four separate data streams relating to health care delivery and payments in the State of Maine.

- 1) Claims – the All Payer Claims Database (APCD) - Chapter 243
- 2) Hospital Inpatient / Outpatient - Chapter 241
- 3) Hospital Financial and Organizational - Chapters 300 and 630
- 4) Quality Metrics - Chapter 270

The data are broadly described in 22 M.R.S. § 8701 *et seq*

(<http://www.mainelegislature.org/legis/statutes/22/title22ch1683sec0.html>) and more specifically described in Rules (<http://mhdo.maine.gov/imhdo/rules.aspx>) promulgated by the Agency.

### CURRENT STATE

MHDO currently manages its data streams with segregated processes and distinct technology toolsets. Bidders can find a more detailed description of the organization's current technical and organizational structure in the Deloitte report commissioned by the Agency and referenced in the documentation section of this RFP.

### PLANNED TECHNICAL ARCHITECTURE

#### OVERVIEW

The MHDO needs to function as a highly robust and secure data warehouse with:

- an efficient extract, transform, load (ETL) architecture that can support high-volume imports of multiple data files in multiple formats at rapid speeds and
- a set of common data structures that are used across the data streams and externally available for 3<sup>rd</sup> parties and
- a self-service architecture to support web access to raw data sets, generated queries, and higher-level standard reports based on the data held in the data warehouse (via web services, etc.)

#### MASTER PATIENT

Consistent, accurate, historical, and current demographic data on the patients reported across the claims, inpatient/outpatient, and other data streams. The patient is assigned a unique identifier that is used to refer to this patient across the enterprise. The objective is to ensure that each patient is represented only once across all streams.

#### MASTER PROVIDER

Consistent, accurate, historical, and current demographic data on the medical providers reported across the claims, inpatient/outpatient, and other data streams. The Master Provider Index must include the National Provider Identifier (NPI). The objective is to ensure that each provider is represented only once across all streams.

#### MASTER PAYER

Consistent, accurate, historical, and current demographic data on the payers (insurance companies, third party administrators, etc.) reported across the claims, inpatient/outpatient, and other data streams. The Master Payer Index must include the NAIC (where applicable) and/or the entities' federal EIN. The objective is to ensure that each payer is represented only once across all streams.

#### SELF-SERVICE DATA ACCESS

The MHDO wishes to provide data consumers with multiple methods for accessing **releasable** data from the warehouse. Note that not all data that the MHDO collects are releasable and some data are releasable only under specific circumstances. All of the access methods described below must allow MHDO to configure which data elements can be provided under different circumstances and authorization levels, consistent with the data governance policy established as part of this effort.

#### WEB SERVICES

The warehouse should provide a set of publically available web service APIs that would allow interested parties to configure their systems to directly access the MHDO warehouse via SOAP or REST protocols.

#### RAW DATA DOWNLOADS

Via the online portal, data requestors should be able to download defined "raw" data sets (e.g., all claims by year) in multiple formats (e.g., Excel, ASCII text delimited, XML, etc).

#### SELF-GENERATED QUERIES

Via the online portal, data requestors should be able to generate (and download) limited data sets / reports based on defined parameters.

#### STATIC REPORTS

Via the online portal data requestors should have access to predefined and generated reports from the MHDO.