

Los Angeles County | Department of Mental Health | Chief Information Office Bureau

Dictionary Service | COMPANION GUIDE



LOS ANGELES COUNTY DEPARTMENT OF MENTAL HEALTH

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Disclosure Statement

This document represents the Los Angeles County Department of Mental Health (LACDMH) implementation of Dictionary Service. LACDMH reserves the right to modify and change the document at any time. LACDMH will disseminate the information in a timely manner, should there be any change to this document.

Revision and Sign-off Sheet

Version History

Date	Author	Version	Change Reference
09/13/2018	LACDMH Integration Team	201801	Initial Release
07/16/2019	LACDMH Integration Team	201801	Updated section B.1.1, B.1.2 and Appendix

Reviewers

Name	Version Approved	Position	Date
Juan Fermin	201801	IT Manager	09/13/2018
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A. INTRODUCTION

A.1 OVERVIEW

The Dictionary Service is intended to give the Trading Partners (TP)s the ability to retrieve all active acceptable values for Services (APIs) provided by LACDMH—such as Service Request Log (SRL), Client Services, and Level of Care APIs. This Companion Guide is intended for TPs and their respective EHR vendors on the implementation and interaction with DS to retrieve said acceptable values for any specific data attribute of DMH services.

This guide assumes the reader has a working understanding of the following technology stack including but not limited to the open protocols and standards of SOAP, WSDL, XSD, and XML as they relate to data exchange between applications or systems. In addition, it is imperative that the reader has a working knowledge of user authentication using x.509 certificates, Public Key Infrastructure (PKI) exchange, and Certificate Authority technologies.

The Dictionary Service supports the following operation to facilitate data exchange between TPs and LACDMH:

- GetDictionary

This guide describes service operation requests and responses. The Request action indicates what LACDMH will be expecting as “Input”. The Response action indicates what LACDMH will be returning as “Output”.

A.2 SECURITY

The Dictionary Service uses X.509 Digital Certificates and a Managed Public Key Infrastructure (MPKI) to authenticate and authorize TPs. To access the services successfully, callers must provide a Program Identifier or ProgramID (previously referred to as the Legal Entity Number) along with their LACDMH assigned Digital Certificate. In the Message Context Input of the request, “ProgramID” is required. Please note that certificate authentication is verified via transport.

To illustrate placement of the Program Identifier, a sample SOAP message is provided below:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://b2b.dmh.lacounty.gov/DS/201801"
xmlns:mes="http://b2b.dmh.lacounty.gov/DS/201801/MessageContext">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetDictionary_Input>
      <mes:MessageContextInput ProgramID="12345"/>
      <GetDictionary AppServiceName="?" Type="?"/>
    </ns:GetDictionary_Input>
  </soapenv:Body>
</soapenv:Envelope>
```

When an invalid certificate is provided, the service will return a 403 Forbidden error. When the ProgramID provided is blank or invalid, the service will also deny access to resources and return an error.

B. BUSINESS USE CASE & SERVICE OPERATIONS

This section describes Dictionary Service operation and associated use cases. TPs can retrieve detailed enumerated list of a specific data attribute of a particular service by providing the Application Service Name and the data attribute name.

B.1 Get Dictionary

Definition:

The Get Dictionary operation allows Trading Partners to retrieve all active acceptable values for any particular data attribute of a given solution.

Use Case:

1: Get all acceptable values for a data attribute that accepts values from a pre-defined list.

Service Action:

GetDictionary operation is used for the above business use case.

Precondition:

TP is authenticated and can provide an Dictionary Service compliant input.

B.1.1 GETDICTIONARY_INPUT

* R = Required; CR = ConditionallyRequired; O = Optional

Ref #	Data Element	R CR O	Data Type	Min Len	Max Len	Restriction	Acceptable Values
1	ProgramID	R	String	5	6	n/a	ProgramID configured in BizTalk associated with the Digital Certificate used for authentication.
2	AppServiceName	R	String	n/a	n/a	Must match with the LACDMH acceptable solution service name:	<ul style="list-style-type: none"> • CS • SRL • LOC • EPSDT
3	Type	R	String	n/a	n/a	Must match with the LACDMH acceptable data attribute name.	See Note-1

B.1.2 GETDICTIONARY_OUTPUT

Ref #	Data Element	Data Type	Required
1	Acknowledgement	String	Yes
2	Code	String	Yes
3	Description	String	Yes
4	Version	String	Yes
5	Type	String	Yes

B.1.3 XML SAMPLE OF SEARCHSERVICEREQUEST INPUT

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://b2b.dmh.lacounty.gov/DS/201801"
xmlns:mes="http://b2b.dmh.lacounty.gov/DS/201801/MessageContext">
  <soapenv:Header/>
  <soapenv:Body>
    <ns:GetDictionary_Input>
      <mes:MessageContextInput ProgramID="<EnterProgramID>" />
      <GetDictionary AppServiceName="SRL" Type="ProgramOfServiceCode" />
    </ns:GetDictionary_Input>
  </soapenv:Body>
</soapenv:Envelope>
```

B.1.4 XML STRUCTURE OF SEARCHSERVICEREQUEST OUTPUT

SUCCESSFUL: (truncated)

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <ns0:GetDictionary_Output xmlns:ns0="http://b2b.dmh.lacounty.gov/DS/201801"
xmlns:mc="http://b2b.dmh.lacounty.gov/DS/201801/MessageContext">
      <mc:MessageContextOutput Acknowledgement="Completed successfully.">
        <Error/>
      </mc:MessageContextOutput>
      <ListDictionary>
        ----following node <Dictionary/> will repeat multiple times based on the number of existing active dictionary
        codeds----
        <Dictionary Code="7731A" Description="LE00066 Tri City Mental Health Center - 7731A TRI CITY MENTAL
        HEALTH CENTER" Version="201801 " Type="ProgramOfServiceCode" />
        ---truncated--
      </ListDictionary>
    </ns0:GetDictionary_Output>
  </s:Body>
</s:Envelope>
```

UNSUCCESSFUL:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <s:Fault>
      <faultcode>Code will vary </faultcode>
      <faultstring xml:lang="en-US">Error Message</faultstring>
    </s:Fault>
  </s:Body>
</s:Envelope>
```

OR

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <ns0:GetDictionary_Output xmlns:ns0="http://b2b.dmh.lacounty.gov/DS/201801"
xmlns:mc="http://b2b.dmh.lacounty.gov/DS/201801/MessageContext">
      <mc:MessageContextOutput>
        <Error ErrorDescription=" Error Message " />
      </mc:MessageContextOutput>
      <ListDictionary />
    </ns0:GetDictionary_Output>
  </s:Body>
</s:Envelope>
```


C. Error Handling

Following table lists the most common errors along with reasons and corrective actions.

Error Code	Operation	Error Message	Reason	Corrective Action
s:Client	All operations	Authorization failed. Unauthorized access to this LACDMH web service is prohibited.	ProgramID not associated with the digital certificate used.	ProgramID tied to the TP's digital certificate needs to be used.
-1000	All operations.	<h2>403 - Forbidden: Access is denied.</h2><h3>You do not have permission to view this directory or page using the credentials that you supplied.</h3>	Digital certificate missing or wrong endpoint.	Install and set up the LAC DMH issued digital certificate or check if the correct endpoint is used for WSDL.
-1000	All operations	The '<data-attribute-name>' attribute has an invalid value according to its data type.	Either invalid value or no value submitted for the stated data attribute.	Enter the acceptable valid value.
-1000	All operations	The required attribute <name of the data attribute> is missing.	Submitted REQUEST does not contain the required data attribute specified.	Enter the required data attribute with a valid value.
-1000	All operations.	Finding the document specification by message type..... failed. Verify the schema deployed properly.	Submitted REQUEST is using an older version of Dictionary Service wsdl	Update the Dictionary Service wsdl to the latest version. Use the URL from Appendix. Click HERE .
-1000	All operations	The source was not found, but some or all event logs could not be searched. To create the source, you need permission to read all event logs to make sure that the new source name is unique. Inaccessible logs: Security.	Digital Certificate is corrupted and/or DMH BizTalk profile is corrupted.	Contact DMH by opening a Heat Ticket.
-1000	Get and Search operations	Record not found.	No code exists or 'Type' is left blank.	Enter a valid value for the data attribute 'Type'.

Appendix

WSDL LOCATIONS

WSDL:

LACDMH Dictionary Services are available in the following environments:

- TST Environment (For Release Candidate (RC) and TP vendors to build the new features of WSDL)
<https://b2btst.dmh.lacounty.gov/DictionaryService/DictionaryServiceInterface.svc?SingleWSDL>
- QA Environment (For Testing and Certification)
<https://b2bqa.dmh.lacounty.gov/DictionaryService/DictionaryServiceInterface.svc?SingleWSDL>
- Production (For going LIVE)
<https://b2b.dmh.lacounty.gov/DictionaryService/DictionaryServiceInterface.svc?SingleWSDL>

SUMMARY OF CHANGES IN VERSION 201801

Date	Operation(s) Items / Section	Description of Change(s)
09/13/2018	All sections	Initial version
07/16/2019	B.1.1	Ref #2 Acceptable values have been listed.
07/16/2019	B.1.2	Removed Note-1
07/16/2019	Appendix	Correct WSDL URLs have been listed.