

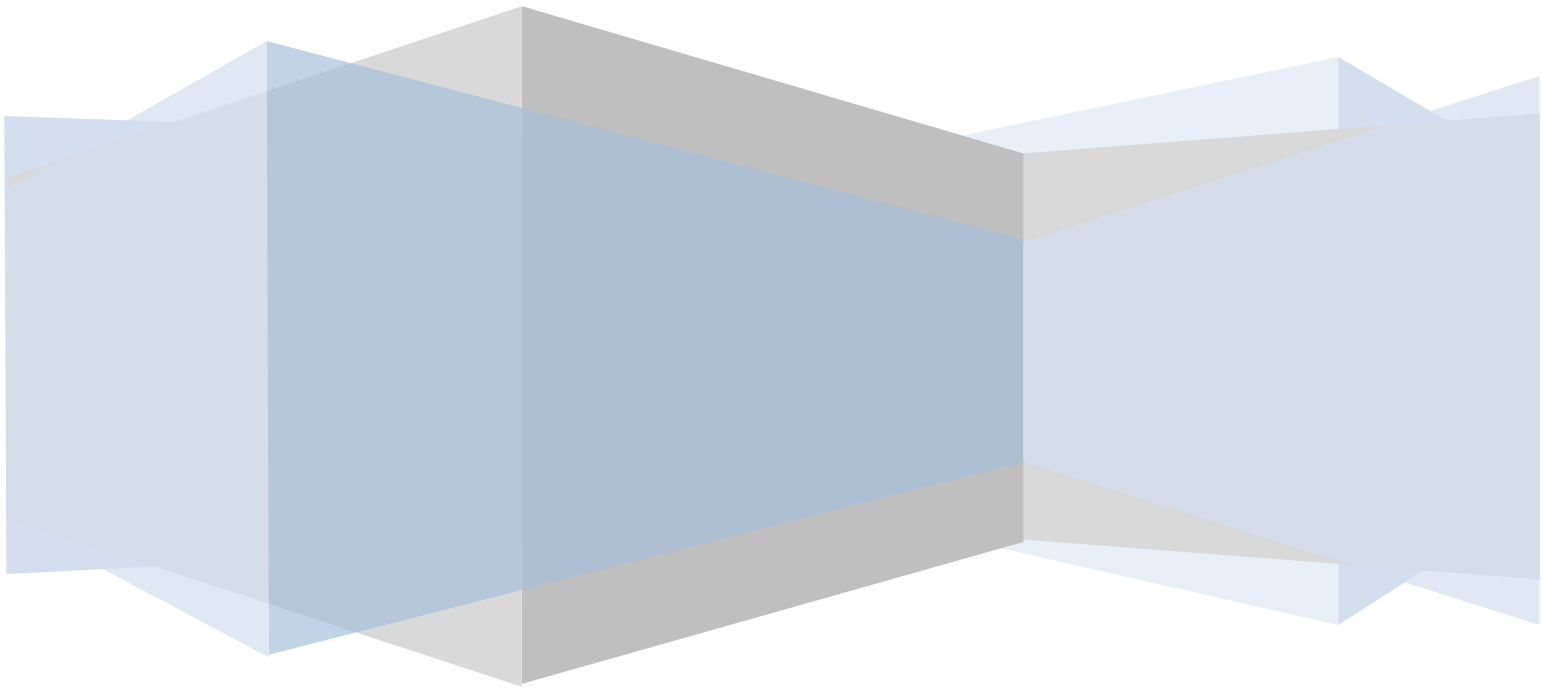


Version 1.2

continuum™

THE ASAM CRITERIA DECISION ENGINE

ASAM Web Services



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1. Purpose

This document aims at providing a guide for using the Web Services provided by the ASAM Continuum™ application.

This document assumes you are familiar with core concepts such as:

- RESTful Services
- HTTP
- Certificates
- Json

2. Overview

The Continuum Integration API implements a set of RESTful Web Services for setting up the system from a remote application. They have been designed to allow for the broadest and easiest solution for integrating with any type of system.

These Services include:

- Creating a Patient
- Updating a Patient
- Getting a Patient
- Getting the Assessment Types
- Creating an Assessment
- Getting the raw Assessment Data
- Getting the Assessment Report

3. Integration

There are two parts to the ASAM software. One part is our WEB API and that is a set of RESTful services that return JSON or XML (the client determines the format).

Then we have the ASAM assessment applications which is a hosted web application. It is recommended to open a new browser or new tab in the current browser session when accessing the ASAM assessment application. Trying to implement with an IFrame will cause security issues and that is due to known security flaws with IFrame implementations.

4. Authentication

In order to access any of the web services an authorization token must be provided along with the request to verify the request is coming from a trusted system.

An authorization token really is a string containing a set of parameters describing the current user which has been digitally signed using a certificate. This is done exactly the same as described in the “ASAM Continuum Single Sign-On” document.

The main way to provide this token is by adding a header to the HTTP request. The name of the header must be “SSOAuth”.

If you are making a get request you can also provide the token as part of the Url Parameters i.e.:

```
https://<server>/Patient/patient-1?UserId=user-1&UserName=Fred
Jones&Token=UGF0aWVudElkPXBhdGllbnQtMSZVc2VySWQ9dXNlci0xJlVzZXJOYW1lPUZyZWQgSm9u
ZXMmVXNlckVtYWlsPWZyZWQuam9uZXNAdGVzdC5jb20mVGltZXN0YW1wPTlwMDgtMTEtMDFUMT
k6MzU6MDAuMDAwMDAwMCOwNzowMA==
```

See Appendix A for instructions on creating the token string.

5. Web Services

5.1. Create Patient

This service provides the ability to easily create a patient. This request must be an HTTPS POST request that contains the authentication token using the “SSOAuth” header. This service will respond with the Key for the newly created Patient.

Authentication Parameters:

Name	Description	Required
EhrId	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
User ID	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL : <https://<server>/Api/Patient/>

Sample Json Content:

```
{
  "Name": {
    "FirstName": "Jane"
    "LastName": "Doe"
  },
  "DateOfBirth": "1987-01-05T00:00:00",
  "Gender": {
    "Code": "Female"
  }
}
```

Sample Json Response:

```
{
  "Key": "patient-1"
}
```

5.2. Update a patient

This service provides the ability to easily update a patient. This request must be an HTTPS PUT request that contains the authentication token using the “SSOAuth” header. This service will respond with the Key for the newly created Patient.

Authentication Parameters:

Name	Description	Required
Ehrid	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	Id of the patient.	Yes
Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating	Yes

	hash.	
--	-------	--

ServiceURL : https://<server>/Api/Patient/

Sample Json Content:

```
{
  "Key": "patient-1",
  "Name": {
    "FirstName": "Jane",
    "LastName": "Doe"
  },
  "DateOfBirth": "1987-01-05T00:00:00",
  "Gender": {
    "Code": "Female"
  }
}
```

Sample Json Response:

```
{
  "Key": "patient-1"
}
```

5.3. Get Patient

This service provides the ability to retrieve a patient. This request must be an HTTPS GET request that contains the authentication token using the "SSOAuth" header or contains the authentication parameters as part of the URL.

Authentication Parameters:

Name	Description	Required
EhrId	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	The Id of the patient.	Yes

Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL : <https://<server>/Api/Patient/<patientId>>

Sample Json Response:

```

{
  "Name": {
    "Prefix": "Mrs",
    "FirstName": "Jane",
    "MiddleName": "Anne",
    "LastName": "Doe",
    "Suffix": "Jr."
  },
  "DateOfBirth": "1987-01-05T00:00:00",
  "Gender": {
    "Code": "Female"
  },
  "Ethnicity": "Caucasian",
  "Religion": "Catholic",
  "Key": "patient-1"
}

```

5.4. Get Assessment Types

This service provides the ability to retrieve a list of the supported assessment types. This request must be an HTTPS GET request that contains the authentication token using the “SSOAuth” header or contains the authentication parameters as part of the URL.

Authentication Parameters:

Name	Description	Required
EhrId	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes

UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL : <https://<server>/Api/AssessmentTypes/Get/>

Sample Json Response:

```
[
  {
    "DisplayName": "Continuum Comprehensive Assessment",
    "WellKnownName": "ComprehensiveAssessment"
  }
]
```

5.5. Create Assessment

This service provides the ability to easily create an assessment for a patient. This request must be an HTTPS POST request that contains the authentication token using the "SSOAuth" header. This service will respond with the Key and Type for the newly created Assessment. The URL must contain a valid Assessment Type. You can get a list of all valid assessment types by using the "Get Assessment Types" service.

Authentication Parameters:

Name	Description	Required
EhrId	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	The Id of the patient.	Yes

Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL : https://<server>/Api/<assessmentType>/Create/<patientId>

Example: https://asam-demo.feisystems.com/Api/ComprehensiveAssessment/Create/123

This post has no content.

Sample Json Response:

```
{
  "Key": "assessment-1",
  "Type": {
    "DisplayName": "ASAM - Full",
    "WellKnownName": "AsamFull"
  }
}
```

5.6. Get Assessment Summary

This service provides the ability to retrieve an assessments summary data. This request must be an HTTPS GET request that contains the authentication token using the “SSOAuth” header or contains the authentication parameters as part of the URL. The URL must contain a valid Assessment Type. You can get a list of all valid assessment types by using the “Get Assessment Types” service.

Authentication Parameters:

Name	Description	Required
Ehrid	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	The Id of the patient.	Yes

Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL : <https://<server>/<assessmentType>/Summary/<assessmentId>>

Example: <https://asam-demo.feisystems.com/Api/ComprehensiveAssessment/Summary/123>

Response will be Json data

```
{
  "Key": "assessment-1",
  "Type": {
    "DisplayName": "ASAM - Full",
    "WellKnownName": "AsamFull"
  },
  "CreatedTimestamp": "2013-01-14T12:57:06.2205129",
  "IsCompleted": true,
  "CompletedTimestamp": "2013-01-14T14:27:06.2205129",
  "PatientId": "1001",
  "PatientFirstName": "Jane",
  "PatientLastName": "Jones"
}
```

5.7. Get Assessment Data

This service provides the ability to retrieve an assessments raw data. This request must be an HTTPS GET request that contains the authentication token using the “SSOAuth” header or contains the authentication parameters as part of the URL. The URL must contain a valid Assessment Type. You can get a list of all valid assessment types by using the “Get Assessment Types” service.

Authentication Parameters:

Name	Description	Required
EhrId	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes

UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	The Id of the patient.	Yes
Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL : `https://<server>/<assessmentType>/Get/<assessmentId>`

Example: `https://asam-demo.feisystems.com/Api/ComprehensiveAssessment/Get/123`

Response will be Json data

See Appendix B.

5.8. Get Assessment Score Summary

This service provides the ability to retrieve an assessments score summary data. This request must be an HTTPS GET request that contains the authentication token using the "SSOAuth" header or contains the authentication parameters as part of the URL. The URL must contain a valid Assessment Type. You can get a list of all valid assessment types by using the "Get Assessment Types" service.

Authentication Parameters:

Name	Description	Required
Ehrid	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	The Id of the patient.	Yes
Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current	Yes

	message. See Appendix A for instructions on generating hash.	
--	--	--

ServiceURL : `https://<server>/<assessmentType>/ScoreSummary/<assessmentId>`

Example: `https://asam-demo.feisystems.com/Api/ComprehensiveAssessment/ScoreSummary/123`

Response will be Json data: See Appendix C

5.9. Get Assessment Report

This service provides the ability to retrieve an assessments report. This request must be an HTTPS GET request that contains the authentication token using the “SSOAuth” header or contains the authentication parameters as part of the URL. The URL must contain a valid Assessment Type. You can get a list of all valid assessment types by using the “Get Assessment Types” service.

Authentication Parameters:

Name	Description	Required
Ehrid	The Id of the EHR you are coming from	Yes
OrganizationId	The Id of the Organization you are coming from	Yes
UserId	The Id of the user who is requesting the resource.	Yes
UserName	The name of the user who is requesting the resource.	Yes
UserEmail	The email of the user who is requesting the resource.	Yes
PatientId	The Id of the patient.	Yes
Timestamp	Timestamp the message was created. This must be within 1 minute of the current time for the request to be successful. The format should follow RFC 1123, "ddd, dd MMM yyyy HH':'mm':'ss 'GMT'"	Yes
Token	This is the digitally signed SHA-1 hash of the current message. See Appendix A for instructions on generating hash.	Yes

ServiceURL: `https://<server>/Api/<assessmentType>/<assessmentId> /Report`

Example: `https://asam-demo.feisystems.com/Api/ComprehensiveAssessment/Report/123`

Response will be a PDF file.

6. Example Workflow

Here is a sample flow of requests and responses including creating a patient through opening an assessment utilizing single sign on.

1. Create Patient

Request:

```
POST https://localhost:44307/api/Patient/ HTTP/1.1
Accept: application/json
SSOAuth: EhrId=1&OrganizationId=1&UserId=123&UserName=Asam
APIUser&UserEmail=asamapiuser@feisystems.com&PatientId=0&Timestamp=Thu, 07 Jan 2016 15:01:11
GMT&Token=qjubrwFUq0VfXZPX6lzzQnGL1Miet8ugoSEgBwUp5SN0u1TzA+76vm7tkZnr6k9yE2IBd6+FRf3aScjCSA3
MTG2aTyZj8ZxImZc/ewBTdQvzxIvtNz71Ki8TyY6JE2f6qz69xdwaOKngilXtmIXEzjC8bxkxlyZSG/rYDoLttC8pkUZP
gSrQ8L1ZCVJibTbnvxA6FE9f5vwqan431e9rXbjnbEgfe3L2o/0ssqyRCHMPa58w16rh20ydCkoEHB8jiQm10a1sZJG3W
R1mFy0U36o14VPeCFUD59kIMozSLMuXuCCj+ZJM/UDiGGBA9bke6VQHEV2+J1nnaAhS4Ag==
Content-Type: application/json; charset=utf-8
Host: localhost:44307
Content-Length: 425
Expect: 100-continue

{"Name":{"Prefix":null,"FirstName":"John","MiddleName":null,"LastName":"Smith","Suffix":null},
"DateOfBirth":"2001-01-
01T00:00:00","Gender":{"Code":"Male","Name":null,"Value":0,"IsDefault":false,"SortOrder":null}
,"Ethnicity":{"Code":"Undeclared","Name":null,"Value":0,"IsDefault":false,"SortOrder":null},"R
eligion":{"Code":"Other","Name":null,"Value":0,"IsDefault":false,"SortOrder":null},"DataErrorI
nfoCollection":[],"key":0}
```

Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Length: 14
Content-Type: application/json; charset=utf-8
Expires: -1
Server: Microsoft-IIS/10.0
X-AspNet-Version: 4.0.30319
X-SourceFiles: =?UTF-
8?B?QzpcchJvamVjdHNCv210c1xQcm9kdwnOjE2MzYyY6JE2f6qz69xdwaOKngilXtmIXEzjC8bxkxlyZSG/rYDoLttC8pkUZP
X-Powered-By: ASP.NET
Date: Thu, 07 Jan 2016 15:01:11 GMT

{"key":163164}
```

2. Create Assessment

Request:

```
POST https://localhost:44307/api/ComprehensiveAssessment/Create/163164 HTTP/1.1
Accept: application/json
SSOAuth: EhrId=1&OrganizationId=1&UserId=123&UserName=Asam
APIUser&UserEmail=asamapiuser@feisystems.com&PatientId=163164&Timestamp=Thu, 07 Jan 2016
15:01:29
GMT&Token=uS+kLOLFtmLXBoC5D4w/DU9nKwO3M6a8NF3Yeq2KJC+Y6owQn1Jd5xdLXykjVvCP40p/P70iRGErwwCxuOqu
HzPTg62J7LTQrbbp54+EA97It5B5agzkNFEDA6zEUnhKAY6vX+wnhiSmC1CvQ9gYCaQLq8ypMbmw7pLJm/iATd1JEKhwGh
kxvQ69oxLOTOLZ7aUoh01U3XCYN0NDR+J+yYoEo8SwoyKRfTw+1g/yRruIKgvJEFAB/wIjd3gCuFhbQvq4ROvnms/PrNZh
uft8cwnwa6ayky/CUXH0G7SWScfZ90SvVfWd3oo1ASgJupNPHZVLruoRJ5YaoBUaXT9SLg==
Content-Type: application/json; charset=utf-8
Host: localhost:44307
Content-Length: 75
Expect: 100-continue
```

Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Length: 116
Content-Type: application/json; charset=utf-8
```

Expires: -1
Server: Microsoft-IIS/10.0
X-AspNet-Version: 4.0.30319
X-SourceFiles: =?UTF-8?B?QzpcchJvamvjdHncv2l0c1xQcm9kdwn0XEFzYw1cvHJ1bmtcQXNhbs5QcGMuTXzjNfXhcGlCq29tcHJ1aGvuc2l2ZU Fzc2Vzc2l1bnRcQ3JlYXRlXDE2MzE2NA==?=
X-Powered-By: ASP.NET
Date: Thu, 07 Jan 2016 15:01:29 GMT

{"Type":{"DisplayName":"Continuum Comprehensive Assessment","WellKnownName":"ComprehensiveAssessment"},"Key":165165}

3. Open Assessment With Single Sign On:

Request:

POST https://localhost:44307/SingleSignOn/ HTTP/1.1
Host: localhost:44307
Connection: keep-alive
Content-Length: 597
Cache-Control: max-age=0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Origin: http://localhost:61550
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 6.3; win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/47.0.2526.106 Safari/537.36
Content-Type: application/x-www-form-urlencoded
Referer: http://localhost:61550/Patient/Index/163164?assessmentId=165165&assessmentType=ComprehensiveAssessment&signingCertName=wits.development&apiKey=7LL3KCGXVSJNFUZET35OZKNEU5FE6UHP7IADIQFS
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.8

EhrId=1&OrganizationId=1&UserId=123&UserName=Asam+APIUser&UserEmail=asamapiuser%40feisystems.com&PatientId=163164&Timestamp=Thu%2C%2016%20Jan%202016%2015%3A01%3A34+GMT&AssessmentType=ComprehensiveAssessment&AssessmentId=165165&Token=af7r1EaL99GvbuX8LJ35Kke7Qjesnck3S7CP0kqRvE27xs7dDEj8soXW9UZp5Kb%2FyGzX2KMu7YzZafadExLgES%2B%2FpHb3Agou%2FyTnfodk15fMU%2FpU6ok%2F1wOn2q4Lf40WETruQUx9HDMc5V%2BCQzTTbmbTUXR88H%2FXJxBdArUAh32MXrfc1vnsTNkh6q1yGbr%2Ftbk5tXm8impCg8rY3q6br4I1qOuqacpu2Pjbx8qk0Ucd4QXcpcTXQKnubF4w4G1BD%2FAWYTDClVSRV%2Bzm2h6Is4%2FSSEXopJ7BMXxpOarsopFah2MTFYxPpuTWcFLNK3QpYbgrCKrvVzKxZH3Hjmg%3D%3D

Response:

HTTP/1.1 302 Found
Cache-Control: private, s-maxage=0
Content-Type: text/html; charset=utf-8
Location: /ComprehensiveAssessment/Edit/165165
Server: Microsoft-IIS/10.0
X-AspNetMvc-Version: 4.0
X-AspNet-Version: 4.0.30319
Set-Cookie: SSOAuth=EAAAACEtmqDfhww+KQaTPofngHLivm2intU6ceF0U9Zcs1Sw459WYzOFVIFCbBV4xP/INZFI1Tx0xzpz051wKajcaB7zCK1x8+eZA02wB3gYebL0aoxFV0JBv8KpmEuqTyeS9yBqRBRkHv4GknXa5ggZcpFKEzk0Opibk3RwByNhawsfWfLP/iwc+0fRTvaun2Rl+MECMoUAWZYaeeJc+QDL+ExCp237CHtg2k1VbiQSFbfxwHps5C2e5vr3Bmsr52j5bF3XoOctrwZnGQeayoC8NYpkqqlCCHxm8+xc0cI5MU81yRn+0y08R5sx4/DBowvUXnACBDPWisc8rjkrFXjy1XXtpCsbPxzHTLcaSMxHXPGPwXy+m0h0b7A93aavCAVjmbUZTYyiXa2JjuASuBxMuw2as3geutkxIE/qTRCMAOQEeqCV3Lo/IAVw+8rLJBgB1HEIfggMVJQweqB6LSLfl5rnIf76tLbLwBPNtdIehKs049TBwa8ITHmjwJzOrCRHaCDqpUFTI2UduZUYvBuZ5QbXQTZ4FC7Q1/R311uIv00eIESTJ+2FosDGrX+mPohdYHnaj1GKIx01X0Is0XPCeOmTJSuKABiCbXkFrCW9umJa3avj21a0TYwozGI4ngz1nxwhdMUo1wVFAKxodIBsojMPO685Q714vtTbiHunL0BP+mVAKSqsamcvzt5pvH7bBQQ8Gsb1/BvV4qRIoMIeN1BuaGwkjh70t5DGw5Pu/ZusyD603KV+ool4fB8y3UUMn2SY+FRmhe6nSwc4BDT4+x5/cv0nJ48fyyg5tK9xjOqd4m5BgOutt0JSSjRQZun1lg==; path=/; secure
X-SourceFiles: =?UTF-8?B?QzpcchJvamvjdHncv2l0c1xQcm9kdwn0XEFzYw1cvHJ1bmtcQXNhbs5QcGMuTXzjNfXTaw5nbgVTawduT25c?=
X-Powered-By: ASP.NET
Date: Thu, 07 Jan 2016 15:01:53 GMT
Content-Length: 464

<html><head><title>Object moved</title></head><body><h2>Object moved to here.</h2>

<!-- Visual Studio Browser Link -->
<script type="application/json" id="__browserLink_initializationData">
 {"appName":"Chrome"}
</script>

```
<script type="text/javascript"
src="https://localhost:44398/df92d77277cc4d028d62ef3434fc0f43/browserLink"
async="async"></script>
<!-- End Browser Link -->
</body></html>
```

7. Release Notes

- V1.2
 - Added “Get Assessment Types” service.
 - Updated all assessment related services to now require the Assessment Type as part of the URL.
 - Added “Get Assessment Summary” service. The purpose of this service is to allow for getting status information about the assessment without having to load the entire assessment.
 - Added “Get Assessment Score Summary” service. This service gives a summary of the results that are shown on the report.
 - Added Workflow section.
- V1.1
 - UserEmail is now required for all requests
 - Timestamp is now required for all requests, format uses standard RFC 1123 "ddd, dd MMM yyyy HH':'mm':ss 'GMT'"

Appendix A

The Token parameter is created by hashing the concatenation of the rest of the parameters and then digitally signing that hash and finally converting the signed bytes to a Base64 string. We require the SHA-1 algorithm for performing the hash.

The format of the concatenation of the parameters is “parameter-name=value” with an “&” in-between each parameter:

```
PatientId=patient-1&UserId=user-1&UserName=Fred  
Jones&UserEmail=fred.jones@test.com&Timestamp=Fri, 30 Oct 2015 17:51:02 GMT
```

Then you would use that string as input to the SHA-1 algorithm to create the hash value of that string. And then you would sign that hash using a Certificate.

Here is example C# code for performing the hashing and digital signature using a certificate:

```
public static string SignWithCertificate(string text)  
{  
    // Open certificate store of current user  
    var my = new X509Store(StoreName.My, StoreLocation.LocalMachine);  
    my.Open(OpenFlags.ReadOnly);  
  
    // Look for the certificate with specific subject  
    var csp = my.Certificates.Cast<X509Certificate2>()  
        .Where(cert => cert.Subject.Contains("CN=TrustedCert"))  
        .Select(cert => (RSACryptoServiceProvider)cert.PrivateKey)  
        .FirstOrDefault();  
  
    // Hash the data  
    var sha1 = new SHA1Managed();  
    var data = Encoding.Unicode.GetBytes(text);  
    var hash = sha1.ComputeHash(data);  
  
    // Sign the hash  
    var signedBytes = csp.SignHash(hash, CryptoConfig.MapNameToOID("SHA1"));  
    return Convert.ToBase64String(signedBytes);  
}
```

So the Authentication Header would look like:

```
UserId=user-1&UserName=Fred Jones&UserEmail=fred.jones@test.com& PatientId=patient-  
1&Timestamp=Fri%2C+30+Oct+2015+17%3A51%3A02+GMT&Token=UGF0aWVudElkPXBhdGllbn  
QtMSZVc2VySWQ9dXNlci0xJlVzZXJOYW1lPUZyZWQgSm9uZXMmVXNlckVtYWlsPWZyZWQuam9u  
ZXNAdGVzdC5jb20mVGltZXN0YW1wPTlwMDgtMTEtMDFUMTk6MzU6MDAuMDAwMDAwMCOw  
NzowMA==
```


Appendix B

Assessment Data Json:

```
{
  "Id": "assessments-1",
  "GeneralInformationSection": {
    "AssessmentClass": {
      "Code": "FollowUp",
      "Name": "Follow Up",
      "Value": 2,
      "IsDefault": false,
      "SortOrder": 2
    },
    "PatientInControlledEnvironmentLast30Days": {
      "Code": "MedicalTreatment",
      "Name": "Medical Treatment",
      "Value": 3,
      "IsDefault": false,
      "SortOrder": 4
    },
    "InPenalOrChronicCareSettingRecently": false,
    "InterviewCircumstances": {
      "Code": "PatientTerminated",
      "Name": "Patient terminated",
      "Value": 1,
      "IsDefault": false,
      "SortOrder": 2
    },
    "InterviewMethod": {
      "Code": "InPerson",
      "Name": "In person",
      "Value": 1,
      "IsDefault": false,
      "SortOrder": 1
    },
    "IsResidenceOwnedByPatientOrFamily": true,
    "NumberOfDaysInControlledEnvironmentInPast30Days": 3,
    "NumberOfMonthsAtCurrentAddress": {
      "Year": 1,
      "Month": 2
    },
    "ControlledEnvironmentOtherDescription": null,
    "Key": null
  }
}
```

```

},
"LegalSection": {
  "CurrentlyAwaitingChargesTrialSentenceForLegalCharge": {
    "Code": "DrugCharges",
    "Name": "Drug charges",
    "Value": 7,
    "IsDefault": false,
    "SortOrder": 14
  },
  "DesireAndExternalFactorsDrivingTreatment": {
    "Code": "CommittedNoExternalPressures",
    "Name": "Committed; no external pressures",
    "Value": 0,
    "IsDefault": false,
    "SortOrder": 1
  },
  "ImportanceOfCounselingForCurrentLegalProblems": {
    "Code": "Slightly",
    "Name": "Slightly",
    "Value": 1,
    "IsDefault": false,
    "SortOrder": 2
  },
  "InterviewerComments": null,
  "InterviewerRatingPatientNeedForLegalServiceCounseling": {
    "Value": 2,
    "Min": 0,
    "Max": 9
  },
  "IsCurrentlyAwaitingChargesTrialSentence": true,
  "IsOnProbationOrParole": true,
  "IsPatientMisrepresentingInformation": true,
  "IsPatientUnableToUnderstand": true,
  "LastIncarcerationReason": null,
  "LengthInMonthsOfLastIncarceration": null,
  "NumberOfDaysCommittingCrimesForProfitInPast30Days": 1,
  "NumberOfDaysIncarceratedInPast30Days": 2,
  "NumberOfMonthsIncarceratedInLife": {
    "Year": 0,
    "Month": 4
  },
  "NumberOfTimesArrestedForArson": 2,
  "NumberOfTimesArrestedForAssault": 4,

```

```

"NumberOfTimesArrestedForBurglaryLarceny": 2,
"NumberOfTimesArrestedForContemptOfCourt": 3,
"NumberOfTimesArrestedForDrugCharges": 1,
"NumberOfTimesArrestedForForgery": 0,
"NumberOfTimesArrestedForHomicide": 3,
"NumberOfTimesArrestedForOtherArrest": 2,
"NumberOfTimesArrestedForParoleProbationViolation": 2,
"NumberOfTimesArrestedForProstitution": 4,
"NumberOfTimesArrestedForRape": 1,
"NumberOfTimesArrestedForRobbery": 1,
"NumberOfTimesArrestedForShopliftingVandalism": 1,
"NumberOfTimesArrestedForWeaponsOffense": 3,
"NumberOfTimesChargedWithDisorderlyConductVagrancyIntoxication": 1,
"NumberOfTimesChargedWithDrivingWhileIntoxicated": 1,
"NumberOfTimesChargedWithMajorDrivingViolations": 3,
"NumberOfTimesConvicted": 1,
"SeverityOfCurrentLegalProblems": {
    "Code": "Slightly",
    "Name": "Slightly",
    "Value": 1,
    "IsDefault": false,
    "SortOrder": 2
},
"WasVisitPromptedByCriminalJusticeSystem": true,
"Key": null
},
"MedicalSection": {
    "AuditoryDisturbanceLevel": {
        "Code": "MildHarshnessOrAbilityToFrighten",
        "Name": "Mild harshness or ability to frighten",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "BloodPressure": {
        "Systolic": 120,
        "Diastolic": 90
    },
    "ChronicMedicalProblemsThatInterfereWithLifeDescription": "cough,,,",
    "DescriptionOfMedicalProblemsInPast30Days": "headarch",
    "DescriptionOfPhysicalDisabilityPension": "ewwwwewqeq",
    "DescriptionOfReemergentSymptoms": "sore throat",
    "ExperiencedAcuteAlcoholDisulfiramReactionInPast24HoursStatus": {

```

```

        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "FeverOf102DegreesOrMoreInPast24Hours": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "HasChronicMedicalProblemsThatInterfereWithLife": true,
    "HeartRate": {
        "BeatsPerMinute": 80
    },
    "HighRiskPregnancyStatus": null,
    "HivAidsMedicalTreatmentStatus": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "ImportanceOfTreatmentForMedicalProblems": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "InterviewerComments": null,
    "InterviewerObservationOfPatientAgitationLevel": {
        "Value": 2,
        "Min": 0,
        "Max": 7
    },
    "InterviewerObservationOfPatientSenseOfAwareness": {
        "Code": "CannotDoSerialAdditionsOrIsUncertainAboutDate",
        "Name": "Cannot do serial additions or is uncertain about date",
        "Value": 1,
        "IsDefault": false,

```

```
        "SortOrder": 2
    },
    "InterviewerRatingOfPatientNeedForMedicalTreatment": {
        "Value": 2,
        "Min": 0,
        "Max": 8
    },
    "IsPatientMisrepresentingInformation": true,
    "IsPatientUnableToUnderstand": false,
    "IsTakingPrescriptionMedicine": true,
    "LevelOfConcernInPast30DaysAboutMedicalProblems": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "LostConsciousnessFromHeadTraumaInPast24Hours": {
        "Code": "No",
        "Name": "No",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "MayRequireInpatientAcutePancreatitisTreatment": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "MayRequireInpatientGastrointestinalBleedingTreatment": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "MayRequireInpatientLiverTreatment": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
```

```

        "SortOrder": 2
    },
    "MedicalProblems": [{
        "Code": "OphthalmologicEye",
        "Name": "Ophthalmologic, eye",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 2
    }],
    {
        "Code": "DentalTeethGums",
        "Name": "Dental, teeth, gums",
        "Value": 4,
        "IsDefault": false,
        "SortOrder": 4
    }],
    "MedicalProblemDescription": "pain",
    "MedicalProblemThatWouldComplicateDetoxificationStatus": {
        "Code": "Yes",
        "Name": "Yes",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "MobilityProblemsMayAffectTreatmentAttendance": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "MonthsSinceLastHospitalizationForPhysicalProblem": {
        "Year": 0,
        "Month": 3
    },
    "MultipleSeizuresInPast24Hours": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "MultipleSeriousMedicalProblemsExist": {

```

```
"Code": "NotSure",
  "Name": "Not sure or possibly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"NeedForMedicalOrPhysicalRehabilitation": {
  "Code": "TwoToFourVisitsPerMonth",
  "Name": "2 to 4 Visits per Month",
  "Value": 2,
  "IsDefault": false,
  "SortOrder": 3
},
"NumberOfDaysWithMedicalProblemsInPast30Days": 5,
"PhysicalHealthsEffectOnSubstanceProblems": {
  "Code": "SlightProblemsWontInterfereWithRecovery",
  "Name": "Slight health problems won't interfere",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
},
"PregnantStatus": {
  "Code": "No",
  "Name": "No",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
},
"PrescriptionMedicineDescription": "vitamins",
"ReceivesPensionForPhysicalDisability": true,
"RequiresInpatientCardiacMonitoring": {
  "Code": "NotSure",
  "Name": "Not sure or possibly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
},
"RequiresMedicalMonitoringForReemergenceOfSymptoms": true,
"SeizureInPast24Hours": {
  "Code": "Yes",
  "Name": "Yes",
  "Value": 2,
  "IsDefault": false,
```

```
        "SortOrder": 3
    },
    "SexuallyTransmittedDiseaseStatus": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignsOfIntoxicationExist": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignsOfToxicPsychosisExist": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SufferedHeadTraumaInPast48Hours": {
        "Code": "Yes",
        "Name": "Yes",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "SufferedSeriousImpairmentFromOverdoseInPast24Hours": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "TimesHospitalizedForMedicalProblems": 2,
    "TuberculosisInfectionStatus": {
        "Code": "KnownInfectionMedicallyTreated",
        "Name": "Yes, known infection which is being or has been medically treated",
        "Value": 1,
        "IsDefault": false,
```



```

        "SortOrder": 2
    },
    "UnsteadinessOrLossOfBalance": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "VisualDisturbanceLevel": {
        "Code": "MildSensitivity",
        "Name": "Mild sensitivity",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "Key": null
},
"Patient": {
    "Name": {
        "Prefix": "Mr.",
        "FirstName": "Albert",
        "MiddleName": null,
        "LastName": "Smith",
        "Suffix": null
    },
    "DateOfBirth": "1957-01-03T00:00:00-05:00",
    "Gender": {
        "Code": "Male",
        "Name": "Male",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 1
    },
    "Ethnicity": null,
    "Religion": null,
    "Key": null
},
"PsychologicalSection": {
    "DepressionEvaluation": {
        "ObservedRetardationOfThoughtOrSpeech": {
            "Code": "SlightRetardationAtInterview",
            "Name": "Slight retardation at interview",

```

```

        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "RangeOfEnergyInPastWeek": {
        "Code":
"ProblemsDefinitelyPresentMostEveryDaySubjectivelyExperiencedAsSevere",
        "Name": "Problems definitely present most every day, subjectively experienced as
severe",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "RangeOfGuiltInPastWeek": {
        "Code": "SelfReproachFeelsHeSheHasLetPeopleDown",
        "Name": "Self-reproach, feels he/she has let people down",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "RangeOfInterestInDoingThingsInPastWeek": {
        "Code": "ThoughtsAndFeelingsOfIncapacityFatigueOrWeakness",
        "Name": "Thoughts and feelings of incapacity, fatigue or weakness related to
activities, work or hobbies",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "RangeOfIrritabilityInPastWeek": {
        "Code": "SubjectiveTensionAndIrritability",
        "Name": "Subjective tension and irritability",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "RangeOfMoodInPastWeek": {
        "Code": "IndicatedOnlyOnQuestioning",
        "Name": "Indicated only on questioning",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    },
    "Key": null

```

```

},
"InterviewerRating": {
  "ActivePsychiatricDiagnosesOtherThanSubstanceAbuse": [{
    "Code": "ObsessiveCompulsiveDisorder",
    "Name": "Obsessive-Compulsive Disorder",
    "Value": 6,
    "IsDefault": false,
    "SortOrder": 7
  },
  {
    "Code": "SchizophreniaPsychoticOrThoughtDisorder",
    "Name": "Schizophrenia, Psychotic or Thought Disorder",
    "Value": 10,
    "IsDefault": false,
    "SortOrder": 11
  }
  ],
  "AddictionOnlyTreatmentAccessibleToPatient": {
    "Code": "NotSure",
    "Name": "Not sure or possibly",
    "Value": 1,
    "IsDefault": false,
    "SortOrder": 2
  },
  "AppearanceOfAnxietyNervousness": {
    "Value": 3,
    "Min": 0,
    "Max": 8
  },
  "AppearanceOfDepressionWithdrawal": {
    "Value": 3,
    "Min": 0,
    "Max": 8
  },
  "AppearanceOfFluctuatingOrientationInLast24Hours": {
    "Value": 3,
    "Min": 0,
    "Max": 8
  },
  "AppearanceOfHostility": {
    "Value": 2,
    "Min": 0,
    "Max": 8
  }
},

```

```
"AppearanceOfLethargy": {
  "Value": 4,
  "Min": 0,
  "Max": 8
},
"AppearanceOfParanoiaOrImpairedThinking": {
  "Value": 5,
  "Min": 0,
  "Max": 8
},
"AppearanceOfSpeechImpairmentBadPosture": {
  "Value": 4,
  "Min": 0,
  "Max": 8
},
"AppearanceOfTroubleConcentratingOrRemembering": {
  "Value": 5,
  "Min": 0,
  "Max": 8
},
"AppearanceofAgitation": {
  "Value": 2,
  "Min": 0,
  "Max": 8
},
"CurrentBehaviorInconsistentWithSelfCare": {
  "Code": "NotSure",
  "Name": "Not sure or possibly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"CurrentProblemBehaviorsRequireContinuousInterventions": {
  "Code": "Yes",
  "Name": "Yes",
  "Value": 2,
  "IsDefault": false,
  "SortOrder": 3
},
"DemonstratingDangerToSelfOrOthers": {
  "Value": 1,
  "Min": 0,
  "Max": 8
}
```

```
},
"DoesPatientCarryPsychiatricDiagnosis": {
  "Code": "YesReportedByPatient",
  "Name": "Yes, reported by patient",
  "Value": 2,
  "IsDefault": false,
  "SortOrder": 3
},
"EvidenceOfChronicOrganicMentalDisability": {
  "Code": "Yes",
  "Name": "Yes",
  "Value": 2,
  "IsDefault": false,
  "SortOrder": 3
},
"GlobalAssessmentOfFunctioningScore": 1,
"HasSuicidalThoughts": {
  "Value": 1,
  "Min": 0,
  "Max": 8
},
"IndicatingRiskOfHarmToOthers": {
  "Value": 1,
  "Min": 0,
  "Max": 8
},
"IndicatingRiskOfHarmToSelfOrVictimizationByOthers": {
  "Value": 1,
  "Min": 0,
  "Max": 8
},
"IntensiveCaseManagementAccessibleToPatient": {
  "Code": "No",
  "Name": "No",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"InterviewerComments": null,
"IsPatientMisrepresentingInformation": {
  "Code": "NotSure",
  "Name": "Not sure or possibly",
  "Value": 1,
```

```

        "IsDefault": false,
        "SortOrder": 2
    },
    "IsPatientUnableToUnderstand": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "LevelOfSupervisionNeededForProtectionFromSelfHarm": {
        "Value": 2,
        "Min": 0,
        "Max": 8
    },
    "LikelihoodOfRecurrenceOfPsychiatricDecompensation": {
        "Value": 5,
        "Min": 0,
        "Max": 8
    },
    "LimitedInAbilityToContractForSafetyIfRiskOfHarmToSelfOrOthers": {
        "Value": 2,
        "Min": 0,
        "Max": 8
    },
    "PatientAbleToSafelyAccessNeededResources": true,
    "PatientNeedForPsychiatricPsychologicalTreatmentRating": {
        "Value": 2,
        "Min": 0,
        "Max": 8
    },
    "PatientRequires24HourControlledSupervisedEnvironment": {
        "Code": "NotSure",
        "Name": "Not sure or possibly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "PsychiatricEvaluationAndServicesAccessibleToPatient": {
        "Code": "Yes",
        "Name": "Yes",
        "Value": 2,
        "IsDefault": false,

```

```

        "SortOrder": 3
    },
    "RiskOfHarmToSelfOrOthersIsHigherWithSubstanceUse": {
        "Code": "YesOnlyWithUseOrIntoxication",
        "Name": "Yes, only with use or intoxication",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    },
    "Key": null
},
"PsychologicalHistory": {
    "AnxietyAttackChestPainsInLast24Hours": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    },
    "AnxietyAttackChestPainsInLastMonth": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    },
    "AnxietyAttackChestPainsInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    },
    "AnxietyAttackChestPainsRelatedToSubstanceUse": null,
    "AnxietyAttackChillsHotFlashesInLast24Hours": null,
    "AnxietyAttackChillsHotFlashesInLastMonth": null,
    "AnxietyAttackChillsHotFlashesInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    },

```

```
"AnxietyAttackChillsHotFlashesRelatedToSubstanceUse": null,
"AnxietyAttackChokingInLast24Hours": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"AnxietyAttackChokingInLastMonth": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"AnxietyAttackChokingInLifetime": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"AnxietyAttackChokingRelatedToSubstanceUse": null,
"AnxietyAttackDistortedRealityInLast24Hours": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"AnxietyAttackDistortedRealityInLastMonth": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"AnxietyAttackDistortedRealityInLifetime": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
}
```



```
},
"AnxietyAttackDistortedRealityRelatedToSubstanceUse": {
  "Code": "LikelyRelatedToActiveSubstanceUseOrIntoxication",
  "Name": "Symptoms are likely related to active substance use or intoxication",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"AnxietyAttackDizzinessFaintnessInLast24Hours": null,
"AnxietyAttackDizzinessFaintnessInLastMonth": null,
"AnxietyAttackDizzinessFaintnessInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"AnxietyAttackDizzinessFaintnessRelatedToSubstanceUse": null,
"AnxietyAttackDyingSensationInLast24Hours": null,
"AnxietyAttackDyingSensationInLastMonth": null,
"AnxietyAttackDyingSensationInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"AnxietyAttackDyingSensationRelatedToSubstanceUse": null,
"AnxietyAttackInLast24Hours": null,
"AnxietyAttackInLastMonth": null,
"AnxietyAttackInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"AnxietyAttackLoseControlInLast24Hours": null,
"AnxietyAttackLoseControlInLastMonth": null,
"AnxietyAttackLoseControlInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
```

```
        "IsDefault": false,
        "SortOrder": 1
    },
    "AnxietyAttackLoseControlRelatedToSubstanceUse": null,
    "AnxietyAttackMoreThanOnceInLast24Hours": null,
    "AnxietyAttackMoreThanOnceInLastMonth": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "AnxietyAttackMoreThanOnceInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "AnxietyAttackMoreThanOnceRelatedToSubstanceUse": null,
    "AnxietyAttackNauseaDiarrheaInLast24Hours": null,
    "AnxietyAttackNauseaDiarrheaInLastMonth": null,
    "AnxietyAttackNauseaDiarrheaInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "AnxietyAttackNauseaDiarrheaRelatedToSubstanceUse": null,
    "AnxietyAttackNumbnessInLast24Hours": null,
    "AnxietyAttackNumbnessInLastMonth": null,
    "AnxietyAttackNumbnessInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "AnxietyAttackNumbnessRelatedToSubstanceUse": null,
    "AnxietyAttackPalpitationsInLast24Hours": null,
    "AnxietyAttackPalpitationsInLastMonth": null,
    "AnxietyAttackPalpitationsInLifetime": {
```

```
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "AnxietyAttackPalpitationsRelatedToSubstanceUse": null,
    "AnxietyAttackRandomInLast24Hours": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "AnxietyAttackRandomInLastMonth": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "AnxietyAttackRandomInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "AnxietyAttackRandomRelatedToSubstanceUse": null,
    "AnxietyAttackShortnessBreathInLast24Hours": {
        "Code": "Moderately",
        "Name": "Moderately",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "AnxietyAttackShortnessBreathInLastMonth": {
        "Code": "Moderately",
        "Name": "Moderately",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    },
```

```
"AnxietyAttackShortnessBreathInLifetime": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"AnxietyAttackShortnessBreathRelatedToSubstanceUse": {
  "Code": "LikelyRelatedToSubstanceWithdrawal",
  "Name": "Symptoms are likely related to substance withdrawal",
  "Value": 2,
  "IsDefault": false,
  "SortOrder": 3
},
"AnxietyAttackSweatyInLast24Hours": null,
"AnxietyAttackSweatyInLastMonth": null,
"AnxietyAttackSweatyInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"AnxietyAttackSweatyRelatedToSubstanceUse": null,
"AnxietyAttackTremblingInLast24Hours": null,
"AnxietyAttackTremblingInLastMonth": null,
"AnxietyAttackTremblingInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"AnxietyAttackTremblingRelatedToSubstanceUse": null,
"AnxietyAttackWithin24HoursRelatedToSubstanceUse": null,
"AnxietyTensionWorryInLast24Hours": {
  "Code": "Moderately",
  "Name": "Moderately",
  "Value": 2,
  "IsDefault": false,
  "SortOrder": 3
},
"AnxietyTensionWorryInLastMonth": {
```

```
        "Code": "Moderately",
        "Name": "Moderately",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "AnxietyTensionWorryInLifetime": {
        "Code": "Moderately",
        "Name": "Moderately",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "AnxietyTensionWorryWithin24HoursRelatedToSubstanceUse": {
        "Code": "LikelyRelatedToActiveSubstanceUseOrIntoxication",
        "Name": "Symptoms are likely related to active substance use or intoxication",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "CantWaitForThingsWantedBadly": true,
    "DepressionWithin24HoursRelatedToSubstanceUse": null,
    "DifficultToWorkNowForFutureGain": false,
    "EmotionalProblemsCorrelationWithSubstanceUse": {
        "Code": "ProblemsIndependentOfSubstanceUse",
        "Name": "Problems occur independent of substance use",
        "Value": 3,
        "IsDefault": false,
        "SortOrder": 4
    },
    "FeelLikeFailureInLast24Hours": null,
    "FeelLikeFailureInLast24HoursRelatedToSubstanceUse": null,
    "FeelLikeFailureInLastMonth": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "FeelLikeFailureInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
```

```

        "IsDefault": false,
        "SortOrder": 2
    },
    "HowDifficultProblemsForWorkHomeAndSocialInteraction": {
        "Code": "Slightly",
        "Name": "Slightly (bothersome but able to take care of things)",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "HowDifficultToSelfManageEmotionalProblems": {
        "Code": "Slightly",
        "Name": "Slightly, occasional lapses of self-care (neglects getting to sleep on time,
exercising, or forgets a medication dose)",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "HowEmotionalProblemsImpactRecoveryEfforts": {
        "Code": "ProblemsWontInterfere",
        "Name": "Problems won't interfere",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "HowImportantPsychologicalEmotionalCounseling": {
        "Code": "SlightlyImportant",
        "Name": "Slightly, mild psychological needs that can be addressed in conventional
recovery work",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "HowTroubledByPsychologicalEmotionalProblemsLast30Days": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "InabilityToFeelPleasureFromActivitiesInLast24Hours": null,
    "InabilityToFeelPleasureFromActivitiesInLastMonth": null,
    "InabilityToFeelPleasureFromActivitiesInLifetime": {

```

```

        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "InabilityToFeelPleasureFromActivitiesRelatedToSubstanceUse": null,
    "IsReceivingNeededCare": {
        "Code": "Yes",
        "Name": "Yes",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "MedicatedForPsychologicalEmotionalProblemInLast24Hours": false,
    "MedicatedForPsychologicalEmotionalProblemInLastMonth": true,
    "MedicatedForPsychologicalEmotionalProblemInLifetime": true,
    "MovingSpeakingSlowlyInLast24Hours": null,
    "MovingSpeakingSlowlyInLastMonth": null,
    "MovingSpeakingSlowlyInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "MovingSpeakingSlowlyWithin24HoursRelatedToSubstanceUse": null,
    "NumberOfDaysExperiencedPsychologicalEmotionalProblemsInLast30Days": 3,
    "PastPsychologicalOrEmotionalProblems": [{
        "Code": "Agoraphobia",
        "Name": "Agoraphobia",
        "Value": 3,
        "IsDefault": false,
        "SortOrder": 4
    }
    ],
    {
        "Code": "SchizophreniaPsychoticOrThoughtDisorder",
        "Name": "Schizophrenia, Psychotic or Thought Disorder",
        "Value": 10,
        "IsDefault": false,
        "SortOrder": 11
    }
    ],
    "PoorAppetiteOrOvereatingInLast24Hours": null,

```

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"PoorAppetiteOrOvereatingInLast24HoursRelatedToSubstanceUse": null,
"PoorAppetiteOrOvereatingInLastMonth": null,
"PoorAppetiteOrOvereatingInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"ReceivesPensionForPsychiatricDisability": false,
"SignificantPeriodAttemptedSuicideInLast24Hours": null,
"SignificantPeriodAttemptedSuicideInLastMonth": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"SignificantPeriodAttemptedSuicideInLifetime": {
  "Code": "Slightly",
  "Name": "Slightly",
  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
},
"SignificantPeriodAttemptedSuicideRelatedToSubstanceUse": null,
"SignificantPeriodCurbingViolentBehaviorInLast24Hours": null,
"SignificantPeriodCurbingViolentBehaviorInLastMonth": null,
"SignificantPeriodCurbingViolentBehaviorInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
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"SignificantPeriodCurbingViolentBehaviorRelatedToSubstanceUse": null,
"SignificantPeriodExcessiveBehaviorInLast24Hours": null,
"SignificantPeriodExcessiveBehaviorInLastMonth": null,
"SignificantPeriodExcessiveBehaviorInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
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```
        "SortOrder": 1
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    "SignificantPeriodExcessiveBehaviorRelatedToSubstanceUse": null,
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        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
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    "SignificantPeriodFidgetingInLastMonth": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignificantPeriodFidgetingInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignificantPeriodFidgetingRelatedToSubstanceUse": null,
    "SignificantPeriodFlashbacksInLast24Hours": null,
    "SignificantPeriodFlashbacksInLastMonth": null,
    "SignificantPeriodFlashbacksInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
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    "SignificantPeriodFlashbacksRelatedToSubstanceUse": null,
    "SignificantPeriodHallucinationsInLast24Hours": null,
    "SignificantPeriodHallucinationsInLastMonth": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    },
```

```
"SignificantPeriodHallucinationsInLifetime": {
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  "Value": 1,
  "IsDefault": false,
  "SortOrder": 2
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"SignificantPeriodImpairedThoughtInLastMonth": null,
"SignificantPeriodImpairedThoughtInLifetime": {
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  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
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"SignificantPeriodImpairedThoughtRelatedToSubstanceUse": null,
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"SignificantPeriodIrritabilityInLastMonth": null,
"SignificantPeriodIrritabilityInLifetime": {
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  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"SignificantPeriodIrritabilityRelatedToSubstanceUse": null,
"SignificantPeriodLethargyInLast24Hours": null,
"SignificantPeriodLethargyInLastMonth": null,
"SignificantPeriodLethargyInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
  "Value": 0,
  "IsDefault": false,
  "SortOrder": 1
},
"SignificantPeriodLethargyRelatedToSubstanceUse": null,
"SignificantPeriodMuscleTensionInLast24Hours": null,
"SignificantPeriodMuscleTensionInLastMonth": null,
"SignificantPeriodMuscleTensionInLifetime": {
  "Code": "NotAtAll",
  "Name": "Not at all",
```

```
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
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    "SignificantPeriodMuscleTensionRelatedToSubstanceUse": null,
    "SignificantPeriodNegativeThoughtsInLast24Hours": null,
    "SignificantPeriodNegativeThoughtsInLastMonth": null,
    "SignificantPeriodNegativeThoughtsInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodNegativeThoughtsRelatedToSubstanceUse": null,
    "SignificantPeriodOfSeriousDepressionInLast24Hours": null,
    "SignificantPeriodOfSeriousDepressionInLastMonth": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodOfSeriousDepressionInLifetime": {
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        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
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    "SignificantPeriodParanoiaInLastMonth": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodParanoiaInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
```

```
        "SortOrder": 2
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    "SignificantPeriodParanoiaRelatedToSubstanceUse": null,
    "SignificantPeriodSleepDisorderInLast24Hours": null,
    "SignificantPeriodSleepDisorderInLastMonth": null,
    "SignificantPeriodSleepDisorderInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodSleepDisorderRelatedToSubstanceUse": null,
    "SignificantPeriodSuicidalThoughtsInLast24Hours": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignificantPeriodSuicidalThoughtsInLastMonth": {
        "Code": "Moderately",
        "Name": "Moderately",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "SignificantPeriodSuicidalThoughtsInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignificantPeriodSuicidalThoughtsRelatedToSubstanceUse": {
        "Code": "LikelyRelatedToSubstanceWithdrawal",
        "Name": "Symptoms are likely related to substance withdrawal",
        "Value": 2,
        "IsDefault": false,
        "SortOrder": 3
    },
    "SignificantPeriodThoughtsOfSelfInjuryInLast24Hours": null,
    "SignificantPeriodThoughtsOfSelfInjuryInLastMonth": {
```

```

        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodThoughtsOfSelfInjuryInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignificantPeriodThoughtsOfSelfInjuryRelatedToSubstanceUse": null,
    "SignificantPeriodTroubleWithAttitudeTowardOthersInLast24Hours": null,
    "SignificantPeriodTroubleWithAttitudeTowardOthersInLastMonth": null,
    "SignificantPeriodTroubleWithAttitudeTowardOthersInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodTroubleWithAttitudeTowardOthersRelatedToSubstanceUse": null,
    "SignificantPeriodUntruePerceptionInLast24Hours": null,
    "SignificantPeriodUntruePerceptionInLastMonth": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodUntruePerceptionInLifetime": {
        "Code": "Slightly",
        "Name": "Slightly",
        "Value": 1,
        "IsDefault": false,
        "SortOrder": 2
    },
    "SignificantPeriodUntruePerceptionRelatedToSubstanceUse": null,
    "SignificantPeriodViolentUrgesInLast24Hours": null,
    "SignificantPeriodViolentUrgesInLastMonth": null,
    "SignificantPeriodViolentUrgesInLifetime": {

```

```

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        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "SignificantPeriodViolentUrgesRelatedToSubstanceUse": null,
    "TimesTreatedForPsychologicalOrEmotionalProblemsAsOutpatient": 3,
    "TimesTreatedForPsychologicalOrEmotionalProblemsInHospital": 1,
    "WorriedAboutAnxietyAttackInLast24Hours": null,
    "WorriedAboutAnxietyAttackInLastMonth": null,
    "WorriedAboutAnxietyAttackInLifetime": {
        "Code": "NotAtAll",
        "Name": "Not at all",
        "Value": 0,
        "IsDefault": false,
        "SortOrder": 1
    },
    "WorriedAboutAnxietyAttackRelatedToSubstanceUse": null,
    "Key": null
},
"Key": null
},
"AllVisited": true,
"CreatedTimestamp": "2012-10-01T09:14:01.9378619-04:00",
"CreatedSystemAccount": null,
"UpdatedTimestamp": "2012-10-10T09:15:01.9378619-04:00",
"UpdatedSystemAccount": null,
"IsCompleted": false,
"Key": null
}

```

Appendix C

Sample Assessment Score Summary Data

```

{
  "AssessmentKey": "0267bcd6-7ca7-46c0-b395-aa676b9c7ba4",
  "UserName": "leo.smith@safeharbor1x1.com",
  "Dimension1WithdrawalScores": {
    "CareLevel_0_5_EarlyInterventionScore": {
      "IsMet": false
    }
  }
}

```

```
},
"CareLevel_I_DetoxificationScore": {
  "IsMet": true
},
"CareLevel_I_OutpatientScore": {
  "IsMet": false
},
"CareLevel_II_DetoxificationScore": {
  "IsMet": false
},
"CareLevel_III_2_DetoxificationScore": {
  "IsMet": true
},
"CareLevel_III_7_DetoxificationScore": {
  "IsMet": false
},
"CareLevel_IV_DetoxificationScore": {
  "IsMet": false
},
"CareLevelOpioidMaintenanceTherapyScore": {
  "IsMet": false
},
"ResolveCount": 5,
"SeverityNumber": 2
},
"Dimension2BiomedicalScores": {
  "BioSeverityNumber": 0,
  "CareLevel_0_5_EarlyInterventionScore": {
    "IsMet": false
  },
  "CareLevel_I_OutpatientScore": {
    "IsMet": true
  },
  "CareLevel_II_1_IntensiveOutpatientScore": {
    "IsMet": true
  },
  "CareLevel_II_5_PartialHospitalizationScore": {
    "IsMet": true
  },
  "CareLevel_III_1_ClinicallyManagedLowIntensityResidentialTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_III_3_ClinicallyManagedMediumIntensityResidentialTreatmentScore": {
```

```
"IsMet": true
},
"CareLevel_III_5_ClinicallyManagedHighIntensityResidentialTreatmentScore": {
  "IsMet": true
},
"CareLevel_III_7_MedicallyMonitoredIntensiveInpatientTreatmentScore": {
  "IsMet": false
},
"CareLevel_IV_MedicallyManagedIntensiveInpatientTreatmentScore": {
  "IsMet": false
},
"CareLevelOpioidMaintenanceTherapyScore": {
  "IsMet": false
},
"ResolveCount": 4,
"SeverityNumber": 5
},
"Dimension3EmotionalBehavioralScores": {
  "CareLevel_0_5_EarlyInterventionScore": {
    "IsMet": false
  },
  "CareLevel_I_OutpatientScore": {
    "IsMet": true
  },
  "CareLevel_II_1_IntensiveOutpatientScore": {
    "IsMet": false
  },
  "CareLevel_II_5_PartialHospitalizationScore": {
    "IsMet": false
  },
  "CareLevel_III_1_ClinicallyManagedLowIntensityResidentialTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_III_3_ClinicallyManagedMediumIntensityResidentialTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_III_5_ClinicallyManagedHighIntensityResidentialTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_III_7_MedicallyMonitoredIntensiveInpatientTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_IV_MedicallyManagedIntensiveInpatientTreatmentScore": {
```



```
"IsMet": false
},
"CareLevelOpioidMaintenanceTherapyScore": {
  "IsMet": false
},
"ResolveCount": 4,
"SeverityNumber": 8
},
"Dimension4ReadinessToChangeScores": {
  "CareLevel_0_5_EarlyInterventionScore": {
    "IsMet": false
  },
  "CareLevel_I_OutpatientScore": {
    "IsMet": true
  },
  "CareLevel_II_1_IntensiveOutpatientScore": {
    "IsMet": false
  },
  "CareLevel_II_5_PartialHospitalizationScore": {
    "IsMet": true
  },
  "CareLevel_III_1_ClinicallyManagedLowIntensityResidentialTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_III_3_ClinicallyManagedMediumIntensityResidentialTreatmentScore": {
    "IsMet": false
  },
  "CareLevel_III_5_ClinicallyManagedHighIntensityResidentialTreatmentScore": {
    "IsMet": false
  },
  "CareLevel_III_7_MedicallyMonitoredIntensiveInpatientTreatmentScore": {
    "IsMet": false
  },
  "CareLevel_IV_MedicallyManagedIntensiveInpatientTreatmentScore": {
    "IsMet": false
  },
  "CareLevelOpioidMaintenanceTherapyScore": {
    "IsMet": false
  },
  "DdeSeverityNumber": 0,
  "ResolveCount": 3,
  "SeverityNumber": 5
},
```

```
"Dimension5RelapsePotentialScores": {
  "CareLevel_0_5_EarlyInterventionScore": {
    "IsMet": false
  },
  "CareLevel_I_OutpatientScore": {
    "IsMet": true
  },
  "CareLevel_II_1_IntensiveOutpatientScore": {
    "IsMet": false
  },
  "CareLevel_II_5_PartialHospitalizationScore": {
    "IsMet": false
  },
  "CareLevel_III_1_ClinicallyManagedLowIntensityResidentialTreatmentScore": {
    "IsMet": true
  },
  "CareLevel_III_3_ClinicallyManagedMediumIntensityResidentialTreatmentScore": {
    "IsMet": false
  },
  "CareLevel_III_5_ClinicallyManagedHighIntensityResidentialTreatmentScore": {
    "IsMet": false
  },
  "CareLevel_III_7_MedicallyMonitoredIntensiveInpatientTreatmentScore": {
    "IsMet": false
  },
  "CareLevel_IV_MedicallyManagedIntensiveInpatientTreatmentScore": {
    "IsMet": false
  },
  "CareLevelOpioidMaintenanceTherapyScore": {
    "IsMet": false
  },
  "DdeSeverityNumber": 2,
  "HasImminentSevereConsequences": false,
  "ResolveCount": 2,
  "SeverityNumber": 5
},
"Dimension6LivingEnvironmentScores": {
  "CareLevel_0_5_EarlyInterventionScore": {
    "IsMet": false
  },
  "CareLevel_I_OutpatientScore": {
    "IsMet": true
  },
}
```

```
"CareLevel_II_1_IntensiveOutpatientScore": {
  "IsMet": true
},
"CareLevel_II_5_PartialHospitalizationScore": {
  "IsMet": false
},
"CareLevel_III_1_ClinicallyManagedLowIntensityResidentialTreatmentScore": {
  "IsMet": false
},
"CareLevel_III_3_ClinicallyManagedMediumIntensityResidentialTreatmentScore": {
  "IsMet": false
},
"CareLevel_III_5_ClinicallyManagedHighIntensityResidentialTreatmentScore": {
  "IsMet": false
},
"CareLevel_III_7_MedicallyMonitoredIntensiveInpatientTreatmentScore": {
  "IsMet": false
},
"CareLevel_IV_MedicallyManagedIntensiveInpatientTreatmentScore": {
  "IsMet": false
},
"CareLevelOpioidMaintenanceTherapyScore": {
  "IsMet": false
},
"DdeSeverityNumber": 0,
"ResolveCount": 0,
"SeverityNumber": 0
},
"DimensionalAdmissionCriteriaResults": {
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    "IsMet": false
  },
  "CareLevel_I_DetoxificationScore": {
    "IsMet": true
  },
  "CareLevel_I_OutpatientScore": {
    "IsMet": true
  },
  "CareLevel_II_1_IntensiveOutpatientScore": {
    "IsMet": false
  },
  "CareLevel_II_5_PartialHospitalizationScore": {
    "IsMet": false
  }
}
```

```
},
"CareLevel_II_DetoxificationScore": {
  "IsMet": false
},
"CareLevel_III_1_ClinicallyManagedLowIntensityResidentialTreatmentScore": {
  "IsMet": false
},
"CareLevel_III_2_DetoxificationScore": {
  "IsMet": false
},
"CareLevel_III_3_ClinicallyManagedMediumIntensityResidentialTreatmentScore": {
  "IsMet": false
},
"CareLevel_III_5_ClinicallyManagedHighIntensityResidentialTreatmentScore": {
  "IsMet": false
},
"CareLevel_III_7_DetoxificationScore": {
  "IsMet": false
},
"CareLevel_III_7_MedicallyMonitoredIntensiveInpatientTreatmentScore": {
  "IsMet": false
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"CareLevel_IV_DetoxificationScore": {
  "IsMet": false
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"CareLevel_IV_MedicallyManagedIntensiveInpatientServicesScore": {
  "IsMet": false
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"CareLevelOpioidMaintenanceTherapyScore": {
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"DataErrorInfoCollection": [

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