



# Web Service API Guide - IL

Provider and User Guide

# Document Revision History

Version	Date	Prepared By	Comments
3.18	05/11/2023	RA	Initial Draft for IL
3.19	08/07/2023	RA	Granted access to following methods: GetPatientContracts SearchPatientAuthorizations GetPatientAuthorizationInfo GetPatientAuthorizationChanges GetDeletedPatientAuthorizations

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# Overview

HHaExchange (HHAX) offers numerous web service interfaces allowing third party software systems to exchange data electronically. This document provides guidance in understanding the various interfaces and how to access them.

## Support

If additional assistance is needed, please submit a ticket to [EINTSupport@hhaexchange.com](mailto:EINTSupport@hhaexchange.com). Cases are escalated to the Enterprise Integration Service Desk (EISD) Production Support queue. An available Support Team Members will contact you directly to assist.

## Transmission Frequency and Limits

For optimal system performance, HHAX processes data in real time. The expectation is that data is sent by the provider or EVV vendor to HHAX as it is added, changed, and/or deleted in the third-party system. HHAX provides transaction statuses on a separate API call that is initiated by the third party EVV system. HHAX allows maximum 200 calls per method, per provider in a single minute.

## Security

The web service APIs are exposed as a Simple Object Access Protocol (SOAP) secure Hypertext Transfer Protocol (HTTPS) web service for the third-party software systems.

## Credentials

Every web service method at HHAX expects users to provide the following values for authentication and authorization. The following three parameters/values required for every method call.

Value	Description
App Name	This unique name identifies the User's application (App). Contact the HHAX Technical Team to register the App name. If the App name is not registered with HHAX then the method call will fail.
App Secret	This secret value is only known by the App. Obtain this value from the HHAX Technical Team. If the App Secret value is not provided or is incorrect, then the method call fails.
App Key	The App Key is used to create a user context to access the actual data. If the application attempts to access the data of more than one Agency (at HHAX), then an App Key is required for each Agency. Contact the Agency to obtain their App Key and in turn, the Agency contacts HHAX to obtain an App Key for the requestor.

## Error Codes

If the web service call is not successful, an error object is returned with an Error ID; explained briefly in the table below and described later in this document.

Error ID	Error Message	Description – Indicates that the...
-1	User account is locked.	App Key value is not valid
-2	User account is inactive.	App Key value is not valid
-5	Invalid application key '[VALUE]'	App Key value is not valid
-6	Invalid application secret key '[VALUE]'	App Secret value is not valid
-7	Invalid application name '[VALUE]'	App Name value is not valid
-8	Invalid application name/secret key	App Name/Secret pair is not correct
-11	Internal server error	Unknown error

These are the general error codes. Each method may add additional error numbers to help users determine the exact error. The additional error numbers (if any) are covered along with the documentation of the applicable web methods.

# Patient Information

The following methods are available to access Patient Information.

## Reading Patient Information

The following methods allow users to read Patient Information from HHAX.

Method	Description
<b>SearchPatients</b>	Allows users to search for a list of patients matching a selected search criterion. The results return a list of <i>PatientIDs</i> (which is a unique identifier of each Patient record). The ID returned by this method can be submitted to <a href="#">GetPatientDemographics</a> method to retrieve the demographic information of the given Patient.
<b>GetPatientDemographics</b>	This method allows users to retrieve Patient demographic information. The results return the information of one Patient at a time. When calling this method, the Patient ID must be submitted to access the specific Patient. Use the <a href="#">SearchPatients</a> method to retrieve the IDs of the Patients based on a search criterion.
<b>SearchPatientAuthorizations</b>	Returns a list of authorizations associated with a given Patient (Identified by Patient ID). The ID returned by this method can be passed to <a href="#">GetPatientAuthorizationInfo</a> method to retrieve the authorization details.
<b>GetPatientAuthorizationInfo</b>	Returns details of an authorization identified by the given Authorization ID.

## Writing Patient Information

The following methods can be used to perform various data modification operations related to Patient records.

Method	Description
<b>CreatePatientAuthorization</b>	Allows users to create a new authorization for a Patient.
<b>UpdatePatientAuthorization</b>	Allows users to update an existing authorization for a Patient.

## Interface Documentation

Web service methods related to Patient Information are covered in this section.

## SearchPatients

Allows users to search for Patients matching a given search criteria.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<SearchPatientsRequest
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <SearchFilters>
    <FirstName>string</FirstName>
    <LastName>string</LastName>
    <Status>string</Status>
    <PhoneNumber>string</PhoneNumber>
    <AdmissionID>string</AdmissionID>
    <MRNumber>string</MRNumber>
    <SSN>string</SSN>
  </SearchFilters>
</SearchPatientsRequest>
```

Search Patients			
Field	Description	Type	Data Type
<b>FirstName</b>	Patient's First Name. Can search for partial names (using 'starts-with' algorithm).	Optional	Text
<b>LastName</b>	Patient's Last Name. Can search for partial names (using 'starts-with' algorithm).	Optional	Text
<b>Status</b>	Patient Status Filter. Possible values: <ul style="list-style-type: none"> <li>• All</li> <li>• Hospitalized</li> <li>• Waiting</li> <li>• Discharged</li> <li>• Active</li> <li>• Hold</li> </ul> "Active" is assumed if a filter is not specified.	Optional	Text
<b>PhoneNumber</b>	Searches for Patients matching a given phone number in patient Home Phone, Phone2 and Phone3 fields. The number should have 10 digits and no special characters are allowed.	Optional	Number
<b>AdmissionID</b>	Searches for a Patient by Admission ID. An exact match algorithm is used (partial search is not supported).	Optional	Text
<b>MRNumber</b>	Searches for a Patient by Medical Record (MR) Number (Displays as Patient ID in the application). An exact match algorithm is used (partial search is not supported).	Optional	Text
<b>SSN</b>	Patient SSN Number	Optional	Text

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```
<SearchPatientsResult xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <Patients>
    <PatientID>223569</PatientID>
    <PatientID>123965</PatientID>
  </Patients>
</SearchPatientsResult>
```

The number returned in the *PatientID* element is the Primary key of the patient record. This can be submitted to the *GetPatientDemographics* method to retrieve patient demographic information.

## GetPatientDemographics

Retrieves Patient demographic information for a given record.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<GetPatientDemographicsRequest
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientInfo>
    <ID>Number</ID>
  </PatientInfo>
</GetPatientDemographicsRequest>
```

Get Patient Demographics			
Field	Description	Type	Data Type
ID	Primary Key of the Patient to be retrieved. This call is usually followed by a call to <i>SearchPatients</i> method which retrieves the IDs of the desired Patients based on search filters.	Required	Number

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```
<GetPatientDemographicsResult
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
```



```

<Result Status="Success">
  <ErrorInfo>
    <ErrorID>0</ErrorID>
    <ErrorMessage />
  </ErrorInfo>
</Result>
<PatientInfo>
  <AgencyID>number</AgencyID>
  <OfficeID>number</OfficeID>
  <PatientID>Number</PatientID>
  <FirstName>string</FirstName>
  <MiddleName>string</MiddleName>
  <LastName>string</LastName>
  <BirthDate>yyyy-mm-dd</BirthDate>
  <Gender>string</Gender>
  <!-- Male | Female | Other -->
  <Coordinators>
    <Coordinator xsi:nil="true" />
    <Coordinator xsi:nil="true" />
  <PriorityCode>Number</PriorityCode>
  <ServiceRequestStartDate>yyyy-mm-dd</ServiceRequestStartDate>
  <Nurse>
    <ID>number</ID>
    <Name>string</Name>
  </Nurse>
  <AdmissionID>string</AdmissionID>
  <PatientID>number</PatientID>
  <MedicaidNumber>string</MedicaidNumber>
  <MedicareNumber>string</MedicareNumber>
  <AcceptedServices>
    <Discipline>HHA</Discipline>
    <Discipline>PCA</Discipline>
    <!-- Max Occurs unlimited -->
  </AcceptedServices>
  <SSN>xxx-xx-xxxx</SSN>
  <Alerts>string</Alerts>
  <SourceOfAdmission>
    <ID>number</ID>
    <Name>string</Name>
  </SourceOfAdmission>
  <Team>
    <ID>number</ID>
    <Name>string</Name>
  </Team>
  <Location>
    <ID>number</ID>
    <Name>string</Name>
  </Location>
  <Branch>
    <ID>number</ID>
    <Name>string</Name>
  </Branch>
  <Addresses>
    <Address xsi:nil="true" />
    <Address xsi:nil="true" />
  </Addresses>
  <HomePhone>xxx-xxx-xxxx</HomePhone>
  <Phone2>xxx-xxx-xxxx</Phone2>
  <Phone2Description>string</Phone2Description>
  <Phone3>xxx-xxx-xxxx</Phone3>

```

```

    <Phone3Description>string</Phone3Description>
    <HomePhoneLocationAddressID>string</HomePhoneLocationAddressID>
    <HomePhoneLocationAddress>string</HomePhoneLocationAddress>
    <HomePhone2LocationAddressID>string</HomePhone2LocationAddressID>
    <HomePhone2LocationAddress>string</HomePhone2LocationAddress>
    <HomePhone3LocationAddressID>string</HomePhone3LocationAddressID>
    <HomePhone3LocationAddress>string</HomePhone3LocationAddress>
    <Direction>string</Direction>
    <AlternateBilling>
      <FirstName>string</FirstName>
      <MiddleName>string</MiddleName>
      <LastName>string</LastName>
      <Street>string</Street>
      <City>string</City>
      <State>string</State>
      <Zip5></Zip5>
    </AlternateBilling>
    <EmergencyContact xsi:nil="true" />
  </EmergencyContacts>
  <EmergencyPreparedness>
    <EvacuationZone xsi:nil="true" />
  </EvacuationZone>
  <EvacuationLocation xsi:nil="true"/>
</EvacuationLocation>
  <MobilityStatus xsi:nil="true" />
</MobilityStatus>
  <ElectricEquipmentDependency xsi:nil="true" />
</ElectricEquipmentDependency>
</EmergencyPreparedness>
  <PayerID>number</PayerID>
  <PayerName>string</PayerName>
  <PayerCoordinatorID>number</PayerCoordinatorID>
  <PayerCoordinatorName>string</PayerCoordinatorName>
  <PatientStatusID>number</PatientStatusID>
  <PatientStatusName>string</PatientStatusName>
  <WageParity>string</WageParity>
  <WageParityFromDate1>string</WageParityFromDate1>
  <WageParityToDate1>string</WageParityToDate1>
  <WageParityFromDate2>string</WageParityFromDate2>
  <WageParityToDate2>string</WageParityToDate2>
  <PrimaryLanguageID>number</PrimaryLanguageID>
  <PrimaryLanguage>string</PrimaryLanguage>
  <SecondaryLanguageID>number</SecondaryLanguageID>
  <SecondaryLanguage>string</SecondaryLanguage>
  <AllowedCaregiverAccessPatientInfoToMobileApp>
    <Caregiver xsi:nil="true" />
  <Caregiver xsi:nil="true" />
</AllowedCaregiverAccessPatientInfoToMobileApp>
  <LastModifiedDate>string</LastModifiedDate>
</PatientInfo>
</GetPatientDemographicsResult>

```

## GetPatientContracts

Returns Patient Contracts for given Patient from HHAExchange.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```

<GetPatientContractsRequest
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientID>number</PatientID>
  <VisitDate>yyyy-mm-dd</VisitDate >
</GetPatientContractsRequest>

```

## Get Patient Contracts

Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAExchange.	Required	Number
VisitDate	Format: YYYY-MM-DD	Optional	Date

### Response Data

```

<GetPatientContractsResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <PatientContracts>
    <PatientContractInfo>
      <PlacementID>number</PlacementID>
      <Contract>
        <ID>number</ID>
        <Name>string</Name>
      </Contract>
      <IsPrimaryContract>string</IsPrimaryContract>
      <!-- Yes | No -->
      <AltPatientID>string</AltPatientID>
      <ServiceStartDate>yyyy-mm-dd</ServiceStartDate>
      <SourceOfAdmission>
        <ID>number</ID>
        <Name>string</Name>
      </SourceOfAdmission>
      <ServiceCode>
        <ID>number</ID>
        <Name>string</Name>
      </ServiceCode>
      <DischargeDate>yyyy-mm-dd</DischargeDate>
      <DischargeTo>
        <ID>number</ID>
        <Name>string</Name>
      </DischargeTo>
    </PatientContractInfo>
  </PatientContracts>
</GetPatientContractsResult>

```

Get Patient Contracts Result		
Field	Description	Data Type
PlacementID	Unique ID of the Placement in HHAExchange.	Number
Contract ID	A list of <i>Contracts</i> can be retrieved by calling the method <i>GetContracts</i> documented in the <i>Reference Tables</i> section.	Number
Contract Name	Name of the Contract	String
IsPrimaryContract	Possible Values: Y ( <b>Yes</b> ) or N ( <b>No</b> )	String
AltPatientID	Alternate Patient Number	String
ServiceStartDate	Format: <b>YYYY-MM-DD</b>	Date
SourceOfAdmission ID	Retrieve a list of <i>Source of Admissions</i> by calling the method <i>GetSourceOfAdmissions</i> documented in the <i>Reference Tables</i> section.	Number
SourceOfAdmission Name	Name of the Source of Admission	String
ServiceCode ID	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetBillingServiceCodes</i> documented in the <i>Reference Tables</i> section.	String
ServiceCode Name	Name of the Service Code	String
DischargeDate	Format: <b>YYYY-MM-DD</b>	Date
DischargeTo ID	Patient Discharge to ID. Retrieve a list of <i>Patient Discharge To</i> by calling the method <i>GetPatientDischargeTo</i> documented in the <i>Reference Tables</i> section.	Number
DischargeTo Name	Name of the <b>Discharge to</b> Reason	String

## SearchPatientAuthorizations

Allows users to search for Authorization entries associated with a given Patient ID.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<SearchPatientAuthorizationsRequest
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <SearchFilters>
    <PatientID>number</PatientID>
  </SearchFilters>
</SearchPatientAuthorizationsRequest>
```

## SearchPatientAuthorizations

Field	Description	Type	Data Type
PatientID	Patient ID to retrieve authorization information.	Required	Number

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```
<SearchPatientAuthorizationsResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <PatientAuthorizations>
    <!-- Max Occurs Unlimited -->
    <Authorization>
      <ID>number</ID>
      <StartDate>yyyy-mm-dd</StartDate>
      <StopDate>yyyy-mm-dd</StopDate>
      <AuthorizationNumber>string</AuthorizationNumber>
      <ContractID>number</ContractID>
      <ContractName>string</ContractName>
    </Authorization>
    <Authorization>
      <ID>number</ID>
      <StartDate>yyyy-mm-dd</StartDate>
      <StopDate>yyyy-mm-dd</StopDate>
      <AuthorizationNumber>string</AuthorizationNumber>
      <ContractID>number</ContractID>
      <ContractName>string</ContractName>
    </Authorization>
  </PatientAuthorizations>
</SearchPatientAuthorizationsResult>
```

The number returned in the *ID* element is the Primary Key of the authorization record. This can be submitted to the *GetPatientAuthorizationInfo* method to retrieve additional details of each Authorization record.

## GetPatientAuthorizationInfo

Returns details of an authorization record identified by a given Authorization ID.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<GetPatientAuthorizationInfoRequest
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
```

```

    <AppKey>string</AppKey>
  </Authentication>
  <AuthorizationInfo>
    <PatientID>Number</PatientID>
    <AuthorizationID>number</AuthorizationID>
  </AuthorizationInfo>
</GetPatientAuthorizationInfoRequest>

```

## Get Patient Authorization Info Request

Field	Description	Required	Data Type
<b>PatientID</b>	ID of the Patient record to be queried	Required	Number
<b>AuthorizationID</b>	Unique ID of the authorization record returned. This can be obtained by making a call to <i>SearchPatientAuthorizations</i> method described earlier.	Required	Number

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```

<GetPatientAuthorizationInfoResult
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInf
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <AuthorizationInfo>
    <Patient>
      <PatientID>number</PatientID>
      <AdmissionNumber>string</AdmissionNumber>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
    </Patient>
    <AuthorizationID>number</AuthorizationID>
    <Contract>
      <ID>number</ID>
      <Name>string</Name>
    </Contract>
    <Discipline>
      <ID>number</ID>
      <Name>string</Name>
    </Discipline>
    <AuthorizationNumber>string</AuthorizationNumber>
    <ServiceCode>
      <ID>number</ID>
      <Name>string</Name>
    </ServiceCode>
    <StartDate>yyyy-mm-dd</StartDate>
    <StopDate>yyyy-mm-dd</StopDate>
    <MaxUnits>number</MaxUnits>
    <BankedHours>string</BankedHours>
    <!-- Y or N -->
    <Period>
      <ID>number</ID>

```

```

        <Name>string</Name>
    </Period>
    <!-- Day | Week | Entire Period -->
    <DailyMaxAuthorization>
        <!-- Applicable only if authorization period is "day" -->
        <Sunday>number</Sunday>
        <Monday>number</Monday>
        <Tuesday>number</Tuesday>
        <Wednesday>number</Wednesday>
        <Thursday>number</Thursday>
        <Friday>number</Friday>
        <Saturday>number</Saturday>
    </DailyMaxAuthorization>
    <WeeklyMaxAuthorization>number</WeeklyMaxAuthorization>
    <!-- If Period is "week" -->
    <EntirePeriodMaxAuthorization>number</EntirePeriodMaxAuthorization>
    <MonthlyMaxAuthorization>number</MonthlyMaxAuthorization>
    <SpecificDateType>string</SpecificDateType>
    <Weekday>string</Weekday>
    <Weekend>string</Weekend>
    <Notes>string</Notes>
    <!-- If period is Entire Period -->
    <Notes>string</Notes>
    <IsAdditionalRule>Yes</IsAdditionalRule>
    <AdditionalRules>
        <AdditionalRule>
            <MaximumVisits>number</MaximumVisits>
            <Period>
                <ID>number</ID>
                <Name>string</Name>
            </Period>
            <Hours>decimal</Hours>
        </AdditionalRule>
        <AdditionalRule>
            <MaximumVisits>number</MaximumVisits>
            <Period>
                <ID>number</ID>
                <Name>string</Name>
            </Period>
            <Hours>decimal</Hours>
        </AdditionalRule>
    </AdditionalRules>
</AuthorizationInfo>
</GetPatientAuthorizationInfoResult>

```

## CreatePatientAuthorization

A client application can call this method to create an authorization for Patient.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```

<CreatePatientAuthorization xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
    <Authentication>
        <AppName>string</AppName>
        <AppSecret>string</AppSecret>
        <AppKey>string</AppKey>
    </Authentication>
    <CreateAuthorizationInfo>

```

```

<PatientID>number</PatientID>
<ContractID>number</ContractID>
<DisciplineID>number</DisciplineID>
<ServiceCodeID>number</ServiceCodeID>
<AuthorizationNumber>string</AuthorizationNumber>
<FromDate>dateTime</FromDate>
<ToDate>dateTime</ToDate>
<HoursPerAuthPeriod>decimal</HoursPerAuthPeriod>
<SpecificDateType>boolean</SpecificDateType>
<WeekDay>boolean</WeekDay>
<WeekEnd>boolean</WeekEnd>
<BankedHours>string</BankedHours>
<IsAdditionalRules>string</IsAdditionalRules>
<Period>string</Period>
<MaxHoursPeriod>decimal</MaxHoursPeriod>
<SatMinutes>decimal</SatMinutes>
<SunMinutes>decimal</SunMinutes>
<MonMinutes>decimal</MonMinutes>
<TueMinutes>decimal</TueMinutes>
<WedMinutes>decimal</WedMinutes>
<ThuMinutes>decimal</ThuMinutes>
<FriMinutes>decimal</FriMinutes>
<AdditionalRules>
  <AdditionalRule>
    <MaximumVisits>number</MaximumVisits>
    <Period>string</Period>
    <OfXHours>decimal</OfXHours>
  </AdditionalRule>
  <AdditionalRule>
    <MaximumVisits>number</MaximumVisits>
    <Period>string</Period>
    <OfXHours>decimal</OfXHours>
  </AdditionalRule>
</AdditionalRules>
<Notes>string</Notes>
<BillingDiagnosisCodes>
  <BillingDiagnosisCode>
    <DiagnosisCode>string</DiagnosisCode>
    <Description>string</Description>
    <IsPrimary>string</IsPrimary>
  </BillingDiagnosisCode>
  <BillingDiagnosisCode>
    <DiagnosisCode>string</DiagnosisCode>
    <Description>string</Description>
    <IsPrimary>string</IsPrimary>
  </BillingDiagnosisCode>
</BillingDiagnosisCodes>
<ProgramCode>string</ProgramCode>
<BudgetAmount>decimal</BudgetAmount>
</CreateAuthorizationInfo>
</CreatePatientAuthorization>

```

Create Patient Authorization			
Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAeXchange	Required	Number



## Create Patient Authorization

Field	Description	Type	Data Type
<b>ContractID</b>	Retrieve a list of Patient Contracts by calling the method <b>GetPatientContracts</b> documented in the Patient Information section.	Required	Number
<b>DisciplineID</b>	Retrieve a list of <i>Disciplines</i> by calling the method <b>GetPatientDisciplines</b> documented in the <i>Reference Tables</i> section.	Required	String
<b>ServiceCodeID</b>	Retrieve a list of Service Codes by calling the method <b>GetContractServiceCode</b> documented in the <i>Reference Tables</i> section.	Required	Number
<b>AuthorizationNumber</b>	The authorization number for this authorization.	Required	String
<b>FromDate</b>	Authorization Start Date. Format: <b>YYYY-MM-DD</b>	Required	String
<b>ToDate</b>	Authorization End Date. Format: <b>YYYY-MM-DD</b>	Required	String
<b>HoursPerAuthPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50 Only applies to <b>Period</b> = Daily, Weekly or Monthly	Optional	Decimal
<b>SpecificDateType</b>	Possible Values: <b>True</b> or <b>False</b> If Period = Daily or Weekly	Optional	Boolean
<b>WeekDay</b>	Weekday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>WeekEnd</b>	Weekend/Holiday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>BankedHours</b>	Possible values: <b>Y</b> or <b>N</b>	Optional	String
<b>IsAdditionalRules</b>	Possible Values: <b>True</b> or <b>False</b> If "True" this authorization can be restricted further through 3 additional fields "Maximum Visits" "Period" and "Of X Hours"	Required	String
<b>Period</b>	Possible Values: <b>Daily, Weekly, Monthly</b> or <b>Entire Period</b>	Required	String
<b>MaxHoursPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50.	Optional	Decimal
<b>SatMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>SunMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>MonMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal

Create Patient Authorization			
Field	Description	Type	Data Type
<b>TueMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>WedMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>ThuMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>FriMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>MaximumVisits</b>	Whole number between 1 and 999 Required if Additional Rules = "True".	Situational	Number
<b>Period</b>	Possible values: <b>Week, Month or Entire Period</b> Required if Additional Rules = "True".	Situational	String
<b>OfXHours</b>	Number of hours which can be scheduled for visits under this additional rule. Format: 99.99 Required if Additional Rules = "True".	Situational	Decimal
<b>Note</b>	Note	Optional	String
<b>DiagnosisCode</b>	Billing Diagnosis ICD-10 Code	Optional	String
<b>Description</b>	Description of ICD-10 Code	Optional	String
<b>IsPrimary</b>	Possible values: <b>Yes or No</b>	Optional	String
<b>Program Code</b>	Program Code	Optional	String
<b>BudgetAmount</b>	Budget Amount	Optional	Decimal

**Response Data**

If the method call is successful, the *Status* element of the *Result* node is set to "Success" and Authorization ID of the specified Patient is returned. If the request fails, an error number is returned in the *ErrorID* element.

```
<CreatePatientAuthorizationResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreatePatientAuthorizationResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage />
      </ErrorInfo>
    </Result>
  </CreatePatientAuthorizationResult>
</CreatePatientAuthorizationResponse>
```

```

        </Result>
        <PatientAuthorization>
            <PatientID>number</PatientID>
            <AuthorizationID>number</AuthorizationID>
        </PatientAuthorization>
    </CreatePatientAuthorizationResult>
</CreatePatientAuthorizationResponse>

```

## UpdatePatientAuthorization

A client application can call this method to update authorization for Patient.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```

<UpdatePatientAuthorization xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <UpdateAuthorizationInfo>
    <AuthorizationID>int</AuthorizationID>
    <ContractID>int</ContractID>
    <DisciplineID>int</DisciplineID>
    <ServiceCodeID>int</ServiceCodeID>
    <AuthorizationNumber>string</AuthorizationNumber>
    <FromDate>dateTime</FromDate>
    <ToDate>dateTime</ToDate>
    <HoursPerAuthPeriod>decimal</HoursPerAuthPeriod>
    <BankedHours>string</BankedHours>
    <IsAdditionalRules>string</IsAdditionalRules>
    <Period>string</Period>
    <SpecificDateType>boolean</SpecificDateType>
    <WeekDay>boolean</WeekDay>
    <WeekEnd>boolean</WeekEnd>
    <MaxHoursPeriod>decimal</MaxHoursPeriod>
    <SatMinutes>decimal</SatMinutes>
    <SunMinutes>decimal</SunMinutes>
    <MonMinutes>decimal</MonMinutes>
    <TueMinutes>decimal</TueMinutes>
    <WedMinutes>decimal</WedMinutes>
    <ThuMinutes>decimal</ThuMinutes>
    <FriMinutes>decimal</FriMinutes>
    <DXCode1>string</DXCode1>
    <DXCode2>string</DXCode2>
    <DXCode3>string</DXCode3>
    <AdditionalRules>
      <AdditionalRule>
        <AuthorizationAdditionalRuleID>int</AuthorizationAdditionalRuleID>
        <MaximumVisits>int</MaximumVisits>
        <Period>string</Period>
        <OfXHours>decimal</OfXHours>
      </AdditionalRule>
    </AdditionalRule>
    <AuthorizationAdditionalRuleID>int</AuthorizationAdditionalRuleID>
    <MaximumVisits>int</MaximumVisits>

```

```

        <Period>string</Period>
        <OfXHours>decimal</OfXHours>
    </AdditionalRule>
</AdditionalRules>
<Notes>string</Notes>
<BillingDiagnosisCodes>
    <BillingDiagnosisCode>
        <DiagnosisCode>string</DiagnosisCode>
        <Description>string</Description>
        <IsPrimary>string</IsPrimary>
    </BillingDiagnosisCode>
    <BillingDiagnosisCode>
        <DiagnosisCode>string</DiagnosisCode>
        <Description>string</Description>
        <IsPrimary>string</IsPrimary>
    </BillingDiagnosisCode>
</BillingDiagnosisCodes>
<BlackOutDates>
    <BlackOutDate>
        <FromDate>dateTime</FromDate>
        <ToDate>dateTime</ToDate>
        <BlackOutDateNotes>string</BlackOutDateNotes>
    </BlackOutDate>
    <BlackOutDate>
        <FromDate>dateTime</FromDate>
        <ToDate>dateTime</ToDate>
        <BlackOutDateNotes>string</BlackOutDateNotes>
    </BlackOutDate>
</BlackOutDates>
<ProgramCode>string</ProgramCode>
<BudgetAmount>decimal</BudgetAmount>
</UpdateAuthorizationInfo>
</UpdatePatientAuthorization>

```

## Update Patient Authorization

Field	Description	Type	Data Type
<b>AuthorizationID</b>	Unique ID of the authorization record. This can be obtained by calling the method <b><i>SearchPatientAuthorizations</i></b>	Required	Number
<b>ContractID</b>	Retrieve a list of Patient Contracts by calling the method <b><i>GetPatientContracts</i></b> documented in the <i>Patient Information</i> section.	Required	Number
<b>DisciplineID</b>	Retrieve a list of <i>Disciplines</i> by calling the method <b><i>GetPatientDisciplines</i></b> documented in the <i>Reference Tables</i> section	Required	String
<b>ServiceCodeID</b>	Retrieve a list of Service Codes by calling the method <b><i>GetContractServiceCode</i></b> documented in the <i>Reference Tables</i> section.	Required	Number
<b>AuthorizationNumber</b>	The authorization number for this authorization.	Required	String
<b>FromDate</b>	Authorization Start Date. Format: <b>YYYY-MM-DD</b>	Required	DateTime

## Update Patient Authorization

Field	Description	Type	Data Type
<b>ToDate</b>	Authorization End Date. Format: <b>YYYY-MM-DD</b>	Required	DateTime
<b>HoursPerAuthPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50. Only applies to <b>Period</b> = Daily, Weekly or Monthly	Optional	Decimal
<b>BankedHours</b>	Possible values: <b>Y</b> or <b>N</b>	Optional	String
<b>IsAdditionalRules</b>	Possible Values: <b>True</b> or <b>False</b> If "True" this authorization can be restricted further through 3 additional fields "Maximum Visits" "Period" and "Of X Hours".	Required	String
<b>Period</b>	Possible Values: <b>Daily, Weekly, Monthly</b> or <b>Entire Period</b>	Required	String
<b>SpecificDateType</b>	Possible Values: <b>True</b> or <b>False</b> If Period = Daily or Weekly	Optional	Boolean
<b>WeekDay</b>	Weekday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>WeekEnd</b>	Weekend/Holiday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>MaxHoursPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>SatMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>SunMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>MonMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>TueMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>WedMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>ThuMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>FriMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>AuthorizationAdditionalRuleID</b>	Unique Rule ID of the authorization record. This can be obtained by calling the method <b>GetPatientAuthorizationInfo</b>	Situational	Number

Update Patient Authorization			
Field	Description	Type	Data Type
<b>MaximumVisits</b>	Whole number between 1 and 999 Required if Additional Rules = "True".	Situational	Number
<b>Period</b>	Possible values: <b>Week, Month or Entire Period</b> Required if Additional Rules = "True".	Situational	String
<b>OfXHours</b>	Number of hours which can be scheduled for visits under this additional rule. Format: 99.99 Required if Additional Rules = "True".	Situational	Decimal
<b>Note</b>	Note	Optional	String
<b>DiagnosisCode</b>	Billing Diagnosis ICD-10 Code	Optional	String
<b>Description</b>	Description of ICD-10 Code	Optional	String
<b>IsPrimary</b>	Possible values: <b>Yes or No</b>	Optional	String
<b>From Date</b>	Blackout Start Date. Format: <b>YYYY-MM-DD</b>	Optional	DateTime
<b>To Date</b>	Blackout End Date. Format: <b>YYYY-MM-DD</b>	Optional	DateTime
<b>Notes</b>	Blackout Notes	Optional	String
<b>Program Code</b>	Program Code	Optional	String
<b>BudgetAmount</b>	Budget Amount	Optional	Decimal

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```
<UpdatePatientAuthorizationResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdatePatientAuthorizationResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage />
      </ErrorInfo>
    </Result>
    <PatientAuthorization>
      <PatientID>number</PatientID>
      <AuthorizationID>number</AuthorizationID>
    </PatientAuthorization>
  </UpdatePatientAuthorizationResult>
```

```
</UpdatePatientAuthorizationResponse>
```

# Incremental Fetch Method

This section provides an overview of the various web methods available to retrieve changes incrementally from HHAExchange. This method allow users to retrieve changes occurring to various entities after the last successful synchronization attempt.

Changes are tracked using a key field in our change tracking system. Every time a record changes, a new row is generated in the change tracking system. The key field is the following:

1. **Modified Date** – Indicates the time when the record was modified. This is an EST date/time format with precision up to milliseconds.

Every row returned by each of the *Incremental Fetch Method* contains a value indicating the time when the change occurred. This value can be submitted to the subsequent requests to indicate the last change the user received; in turn, the web service sends the user the next group of changes which occurred after the specified time/sequence.

The incremental fetch method send out data in batches of 100 records at a time. When calling this method, the web method sends out the oldest records first. Therefore, if more than 100 records were modified since the specified date/time values, the oldest 100 records are returned. When the results are processed, the user can verify that 100 are received. Users need to repeatedly call this web method until all the records are received.

In an ideal scenario, the calling application maintains/stores the *ModifiedDate* value of the last record received with the previous web method call and passes that value in the next web method call.

## Incremental Method

The following method is available for incremental data fetch.

1. GetPatientChangesV2
2. GetPatientAuthorizationChanges
3. GetDeletedPatientAuthorizations

## GetPatientChangesV2

Retrieves Patient information from Patient records modified after a given date/time.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<GetPatientChangesV2
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <OfficeID>number</OfficeID>
  <ModifiedAfter>yyyy-mm-dd hh:mm:ss.mss</ModifiedAfter>
</GetPatientChangesV2>
```



## Get Patient Changes V2 Request

Field	Description	Type	Data Type
OfficeID	If the Agency is using the Multiple Office feature, an office ID can be specified here to filter the results. If this filter is missing, all the records (that the user has access to) are returned.	Optional	Number
ModifiedAfter	Specify a date/time value in EST to retrieve rows modified/created after the given time.	Required	Date/Time

### Response Data

```
<GetPatientChangesV2Result xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <GetPatientChangesV2Info>
    <AgencyID>number</AgencyID>
    <!-- Unique ID of the Agency -->
    <OfficeID>number</OfficeID>
    <PayerID>number</PayerID>
    <!-- Unique ID of the Payer -->
    <PatientID>number</PatientID>
    <!-- Unique ID of the Patient -->
    <ModifiedDate>yyyy-mm-dd hh:mm:ss.mss</ModifiedDate>
    <!-- Modified/Created time in EST-->
    <FirstName>string</FirstName>
    <MiddleName>string</MiddleName>
    <LastName>string</LastName>
    <StatusID>number</StatusID>
    <AdmissionID>string</AdmissionID>
    <MRNumber>string</MRNumber>
    <!-- This field is displayed as "Patient ID" in the HHAX
Application -->
    <Gender>string</Gender>
    <!-- Male | Female -->
    <DateOfBirth>yyyy-mm-dd</DateOfBirth>
    <PriorityCode>number</PriorityCode>
    <AcceptedServices>string</AcceptedServices>
    <MedicaidNumber>string</MedicaidNumber>
    <MedicareNumber>string</MedicareNumber>
    <SSN>string</SSN>
    <Address1>string</Address1>
    <Address2>string</Address2>
    <City>string</City>
    <State>string</State>
    <Zip5>number</Zip5>
    <Zip4>string</Zip4>
    <CrossStreet>string</CrossStreet>
    <Direction>string</Direction>
    <HomePhone>xxx-xxx-xxxx</HomePhone>
    <Phone2>xxx-xxx-xxxx</Phone2>
    <Phone2Description>string</Phone2Description>
```

```

<Phone3>xxx-xxx-xxxx</Phone3>
<Phone3Description>string</Phone3Description>
<WageParity>string</WageParity>
<!-- Yes | No -->
<WageParityFromDate1>yyyy-mm-dd</WageParityFromDate1>
<WageParityToDate1>yyyy-mm-dd</WageParityToDate1>
<WageParityFromDate2>yyyy-mm-dd</WageParityFromDate2>
<WageParityToDate2>yyyy-mm-dd</WageParityToDate2>
<AlternateBilling>
  <IsAlternateBilling>string</IsAlternateBilling>
  <!-- Yes | No -->
  <FirstName>string</FirstName>
  <LastName>string</LastName>
  <MiddleName>string</MiddleName>
  <Street>string</Street>
  <City>string</City>
  <State>string</State>
  <ZipCode>string</ZipCode>
</AlternateBilling>
<EmergencyContact1>
  <Name>string</Name>
  <RelationshipID>number</RelationshipID>
  <RelationshipName>string</RelationshipName>
  <RelationshipOther>string</RelationshipOther>
  <LivesWithPatient>string</LivesWithPatient>
  <!-- Yes | No -->
  <HaveKeys>string</HaveKeys>
  <!-- Yes | No -->
  <Phone1>xxx-xxx-xxxx</Phone1>
  <Phone2>xxx-xxx-xxxx</Phone2>
  <Address>string</Address>
</EmergencyContact1>
<EmergencyContact2>
  <Name>string</Name>
  <RelationshipID>number</RelationshipID>
  <RelationshipName>string</RelationshipName>
  <RelationshipOther>string</RelationshipOther>
  <LivesWithPatient>string</LivesWithPatient>
  <!-- Yes | No -->
  <HaveKeys>string</HaveKeys>
  <!-- Yes | No -->
  <Phone1>xxx-xxx-xxxx</Phone1>
  <Phone2>xxx-xxx-xxxx</Phone2>
  <Address>string</Address>
</EmergencyContact2>
<EmergencyPreparedness>
  <MobilityStatusID>number</MobilityStatusID>
  <EvacuationZoneID>number</EvacuationZoneID>
  <EvacuationLocationID>number</EvacuationLocationID>
  <OtherEvacuationLocation>
    string
  </OtherEvacuationLocation>
  <ElectricEquipmentDependency>
    string
  </ElectricEquipmentDependency>
  <Description>string</Description>
</EmergencyPreparedness>
<NurseID>number</NurseID>
<Coordinators>
  <Coordinator>string</Coordinator>

```

```

        <Coordinator>string</Coordinator>
    </Coordinators>
    <Frequency>string</Frequency>
    <Cluster>string</Cluster>
    <!-- Yes | No -->
    <IsMutualLinked>number</IsMutualLinked>
    <MutualLinkPatientID>number</MutualLinkPatientID>
    <IsPrimaryPatient>string</IsPrimaryPatient>
    <!-- Yes | No -->
    <ServiceStartDate>yyyy-mm-dd</ServiceStartDate>
    <ProjectedDCDate>yyyy-mm-dd</ProjectedDCDate>
    <SourceOfAdmissionID>number</SourceOfAdmissionID>
    <LocationID>number</LocationID>
    <TeamID>number</TeamID>
    <BranchID>number</BranchID>
    <Alert>string</Alert>
    <ReferralMasterId>number</ReferralMasterId>
    <ReferralReceivedDate>yyyy-mm-dd</ReferralReceivedDate>
    <ReferralSourceId>number</ReferralSourceId>
    <ReferralStatus>number</ReferralStatus>
    <ReferralLostReasonId>number</ReferralLostReasonId>
    <ReferralLostReasonNote>string</ReferralLostReasonNote>
    <CommissionStatus>string</CommissionStatus>
    <ReferralContactId>number</ReferralContactId>
    <ReferralIntakePersonId>number</ReferralIntakePersonId>
    <AccountManagerId>number</AccountManagerId>
    <RequestSpecialAgencyId>number</RequestSpecialAgencyId>
    <RequestGender>string</RequestGender>
    <RequestPrimaryLanguage>number</RequestPrimaryLanguage>
    <RequestSecondaryLanguage>number</RequestSecondaryLanguage>
    <RequestOther>string</RequestOther>
    <AllowedCaregiverAccessPatientInfoToMobileApp>
        <Caregiver>
            <ID>int</ID>
            <Name>string</Name>
        </Caregiver>
        <Caregiver>
            <ID>int</ID>
            <Name>string</Name>
        </Caregiver>
    </AllowedCaregiverAccessPatientInfoToMobileApp>
</GetPatientChangesV2Info>
</GetPatientChangesV2Result>

```

## Get Patient Changes V2 Result

Field	Description	Data Type
AgencyID	ID of the Agency in HHAExchange	Number
OfficeID		Number
PayerID	Unique ID of the Payer in HHAExchange	Number
PatientID	Unique ID of the Patient in HHAExchange	Number
ModifiedDate	Modified/Created time in UTC Format: YYYY-MM-DD HH:MM:SS.MSS	Date/Time
FirstName		String

## Get Patient Changes V2 Result

Field	Description	Data Type
MiddleName		String
LastName		String
StatusID	Possible Values: "1" - Waiting "2" - Pending "3" - Active "4" - Hospitalized "5" - Discharged "6" - Partially Pla "8" - Hold	Number
AdmissionID		String
MRNumber	Patient's MR Number. (Displays as Patient ID in the application.)	String
Gender	Possible Values: "Male"   "Female"	String
DateOfBirth	Format: YYYY-MM-DD	Date
PriorityCode		Number
AcceptedServices		String
MedicaidNumber		String
MedicareNumber		String
SSN	Note: SSN information is empty by default. To access this information, contact HHAX Technical Support to set up the necessary access policies and security procedures to have this information accessible through the interface.	String
Address1		String
Address2		String
City		String
State		String
Zip5		Number
Zip4		String
CrossStreet		String
Direction		String
HomePhone	Format: XXX-XXX-XXXX	String
Phone2	Format: XXX-XXX-XXXX	String
Phone2Description		String
Phone3	Format: XXX-XXX-XXXX	String
Phone3Description		String
WageParity	Possible Values: "Yes"   "No"	String
WageParityFromDate1	Format: YYYY-MM-DD	Date

## Get Patient Changes V2 Result

Field	Description	Data Type
WageParityToDate1	Format: YYYY-MM-DD	Date
WageParityFromDate2	Format: YYYY-MM-DD	Date
WageParityToDate2	Format: YYYY-MM-DD	Date
IsAlternateBilling	Possible Values: "Yes"   "No"	String
AlternateBilling FirstName		String
AlternateBilling LastName		String
AlternateBilling MiddleName		String
AlternateBilling Street		String
AlternateBilling City		String
AlternateBilling State		String
AlternateBilling ZipCode		String
Emergency Contact 1 Name		String
Emergency Contact 1 RelationshipID	Retrieve a list of valid Relationships and corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented in the Reference Tables section.	Number
Emergency Contact 1 RelationshipName		String
Emergency Contact 1 RelationshipOther		String
Emergency Contact 1 LivesWithPatient	Possible Values: "Yes"   "No"	String
Emergency Contact 1 HaveKeys	Possible Values: "Yes"   "No"	String
Emergency Contact 1 Phone1	Format: XXX-XXX-XXXX	String
Emergency Contact 1 Phone2	Format: XXX-XXX-XXXX	String
Emergency Contact 1 Address		String
Emergency Contact 2 Name		String
Emergency Contact 2 RelationshipID	Retrieve a list of valid Relationships and corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented in the Reference Tables section.	Number
Emergency Contact 2 RelationshipName		String
Emergency Contact 2 RelationshipOther		String

## Get Patient Changes V2 Result

Field	Description	Data Type
<b>Emergency Contact 2 LivesWithPatient</b>		String
<b>Emergency Contact 2 HaveKeys</b>	Possible Values: "Yes"   "No"	String
<b>Emergency Contact 2 Phone1</b>	Possible Values: "Yes"   "No"	String
<b>Emergency Contact 2 Phone2</b>	Format: XXX-XXX-XXXX	String
<b>Emergency Contact 2 Address</b>	Format: XXX-XXX-XXXX	String
<b>MobilityStatusID</b>	Retrieve a list of valid Mobility Statuses and corresponding ID by calling the <i>GetMobilityStatuses</i> method as documented in the Reference Tables section.	Number
<b>EvacuationZoneID</b>	Retrieve a list of valid Evacuation Zones and corresponding ID by calling the <i>GetEvacuationZones</i> method as documented in the Reference Tables section.	Number
<b>EvacuationLocationID</b>	Retrieve a list of valid Evacuation Locations and corresponding ID by calling the <i>GetEvacuationLocations</i> method as documented in the Reference Tables section.	Number
<b>OtherEvacuationLocation</b>		String
<b>ElectricEquipmentDependency</b>		String
<b>Description</b>		String
<b>NurseID</b>	Retrieve a list of valid Nurses and corresponding by calling the <i>GetNurses</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>Coordinators</b>		String
<b>Frequency</b>		String
<b>Cluster</b>	Possible Values: "Yes"   "No"	String
<b>IsMutualLinked</b>	Possible Values: "Mutual" or "Link"	String
<b>MutualLinkPatientID</b>	Mutual/Link Patient ID	Number
<b>IsPrimaryPatient</b>	Possible Values: "Yes"   "No"	String
<b>ServiceStartDate</b>	Format: YYYY-MM-DD	Date
<b>ProjectedDCDate</b>	Format: YYYY-MM-DD	Date
<b>SourceOfAdmissionID</b>	Retrieve a list of <i>Source of Admissions</i> by calling the <i>GetSourceOfAdmissions</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>LocationID</b>	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method as documented in the <i>Reference Tables Section</i> .	Number

## Get Patient Changes V2 Result

Field	Description	Data Type
<b>TeamID</b>	A list of <i>Patient Teams</i> can be retrieved by calling the method <i>GetPatientTeams</i> documented in the <i>Reference Tables Section</i> .	Number
<b>BranchID</b>	A list of <i>Branches</i> can be retrieved by calling the method <i>GetBranches</i> documented in the <i>Reference Tables Section</i> .	Number
<b>Alert</b>		String
<b>ReferralMasterId</b>	Referral ID	Number
<b>ReferralReceivedDate</b>	Referral Received Date	Date
<b>ReferralSourceId</b>	Referral Source ID	Number
<b>ReferralStatusID</b>	Retrieve a list of Referral Statuses by calling the <i>GetReferralStatuses</i> method as documented in the <i>Reference Tables</i> section.	String
<b>ReferralLostReasonId</b>	Applicable if "ReferralStatus" is "Lost"	Number
<b>ReferralLostReasonNote</b>	Applicable if "ReferralStatus" is "Lost"	String
<b>CommissionStatus</b>	Possible Values: "Not Paid" or "Paid"	String
<b>ReferralContactId</b>	Referral Contact Person ID	Number
<b>ReferralIntakePersonId</b>	Referral Intake Person ID	Number
<b>AccountManagerId</b>	Referral Account Manager ID	Number
<b>RequestSpecialAgencyId</b>		Number
<b>RequestGender</b>	Possible Values: "Male"   "Female"	String
<b>RequestPrimaryLanguage</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>RequestSecondaryLanguage</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>RequestOther</b>		String
<b>AllowedCaregiverAccessPatient InfoToMobileApp</b>		
<b>Caregiver</b>	List of Caregivers	
<b>ID</b>	Caregiver ID	Number
<b>Name</b>	Caregiver Name	String

## GetPatientAuthorizationChanges

Returns Patient Authorization Information changed/created after a specified date/time value.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<GetPatientAuthorizationChanges
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <OfficeID>int</OfficeID>
  <ModifiedAfter>dateTime</ModifiedAfter>
</GetPatientAuthorizationChanges>
```

Get Patient Authorization Changes			
Field	Description	Type	Data Type
OfficeID	If specified, results are filtered by the given Office ID	Optional	Number
ModifiedAfter	Specify a date/time value in EST to retrieve rows modified/created after the given time.	Required	Date/Time

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```
<GetPatientAuthorizationChangesResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetPatientAuthorizationChangesResult>
    <GetPatientAuthorizationChangesInfo>
      <Patient>
        <ID>int</ID>
        <AdmissionNumber>string</AdmissionNumber>
        <FirstName>string</FirstName>
        <LastName>string</LastName>
        <UpdatedDate>dateTime</UpdatedDate>
        <OfficeID>int</OfficeID>
      </Patient>
      <AuthorizationID>int</AuthorizationID>
      <Contract>
        <ID>int</ID>
        <Name>string</Name>
      </Contract>
      <Discipline>
        <ID>int</ID>
        <Name>string</Name>
      </Discipline>
      <AuthorizationNumber>string</AuthorizationNumber>
      <ServiceCode>
        <ID>int</ID>
        <Name>string</Name>
      </ServiceCode>
      <StartDate>string</StartDate>
      <StopDate>string</StopDate>
```



```

<MaxUnits>decimal</MaxUnits>
<RemainingUnits>decimal</RemainingUnits>
<BankedHours>string</BankedHours>
<Period>
  <ID>int</ID>
  <Name>string</Name>
</Period>
<DailyMaxAuthorization>
  <Sunday>decimal</Sunday>
  <Monday>decimal</Monday>
  <Tuesday>decimal</Tuesday>
  <Wednesday>decimal</Wednesday>
  <Thursday>decimal</Thursday>
  <Friday>decimal</Friday>
  <Saturday>decimal</Saturday>
</DailyMaxAuthorization>
<WeeklyMaxAuthorization>decimal</WeeklyMaxAuthorization>
<EntirePeriodMaxAuthorization>decimal
  </EntirePeriodMaxAuthorization>
<MonthlyMaxAuthorization>decimal</MonthlyMaxAuthorization>
<SpecificDateType>string</SpecificDateType>
<Weekday>string</Weekday>
<Weekend>string</Weekend>
<Notes>string</Notes>
<IsAdditionalRule>string</IsAdditionalRule>
<AdditionalRules>
  <AdditionalRule xsi:nil="true" />
  <AdditionalRule xsi:nil="true" />
</AdditionalRules>
<BillingDiagnosisCodes>
  <BillingDiagnosisCode xsi:nil="true" />
  <BillingDiagnosisCode xsi:nil="true" />
</BillingDiagnosisCodes>
<BlackOutDates>
  <BlackOutDate xsi:nil="true" />
  <BlackOutDate xsi:nil="true" />
</BlackOutDates>
</GetPatientAuthorizationChangesInfo>
</GetPatientAuthorizationChangesResult>
</GetPatientAuthorizationChangesResponse>

```

## Get Patient Preference Result

Field	Description	Data Type
<b>Patient</b>		
<b>ID</b>	Patient ID	Number
<b>AdmissionNumber</b>	Admission Number	Number
<b>FirstName</b>	FirstName	String
<b>LastName</b>	LastName	String
<b>UpdatedDate</b>	Last Updated Date Format: yyyy-mm-dd hh:mm	DateTime
<b>OfficeID</b>	OfficeID	Number
<b>AuthorizationID</b>	Authorization ID of the patient	
<b>Contract</b>		

<b>ID</b>	Contract ID	Number
<b>Name</b>	Contract Name	String
<b>Discipline</b>		
<b>ID</b>	Discipline ID	Number
<b>Name</b>	Discipline Name	String
<b>AuthorizationNumber</b>	Authorization Number	String
<b>ServiceCode</b>		
<b>ID</b>	ServiceCode ID	Number
<b>Name</b>	ServiceCode Name	String
<b>StartDate</b>	Start Date	String
<b>StopDate</b>	Stop Date	String
<b>MaxUnits</b>	Max Units	Decimal
<b>RemainingUnits</b>	Remaining Units	Decimal
<b>BankedHours</b>	Banked Hours	String
<b>Period</b>	Return Period ID, Name details	Number
<b>DailyMaxAuthorization</b>		
<b>Sunday</b>	Check DailyMaxAuthorization for Sunday	Number
<b>Monday</b>	Check DailyMaxAuthorization for Monday	Number
<b>Tuesday</b>	Check DailyMaxAuthorization for Tuesday	Number
<b>Wednesday</b>	Check DailyMaxAuthorization for Wednesday	Number
<b>Thursday</b>	Check DailyMaxAuthorization for Thursday	Number
<b>Friday</b>	Check DailyMaxAuthorization for Friday	Number
<b>Saturday</b>	Check DailyMaxAuthorization for Saturday	Number
<b>WeeklyMaxAuthorization</b>	Weekly Max Authorization	Number
<b>EntirePeriodMaxAuthorization</b>	Entire Period Max Authorization	Number
<b>MonthlyPeriodMaxAuthorization</b>	Monthly Period Max Authorization	Number
<b>SpecificDateType</b>	Specific Date Type	String
<b>Weekday</b>	Weekday	String
<b>Weekend</b>	Weekend	String
<b>Notes</b>	Notes	String
<b>IsAdditionalRule</b>	Check if AdditionlRule is present	String
<b>AdditionalRules</b>		
<b>AdditionalRule</b>	List of AdditionalRules	
<b>AdditionalRuleID</b>	Additional Rule ID	Number
<b>MaximumVisits</b>	MaximumVisits	Number
<b>Period</b>		
<b>ID</b>	Period ID	Number
<b>Name</b>	Period Name	String

<b>Hours</b>	Hours	Number
<b>BillingDiagnosisCodes</b>		
<b>BillingDiagnosisCode</b>	List of Billing Diagnosis Codes	
<b>DiagnosisCode</b>	Diagnosis Code	String
<b>Description</b>	Description	String
<b>IsPrimary</b>	IsPrimary	String
<b>AdmittingDiagnosis</b>	Admitting Diagnosis	String
<b>BlackOutDates</b>		
<b>BlackOutDate</b>	List of BlackOutDates	
<b>FromDate</b>	FromDate	String
<b>ToDate</b>	ToDate	String
<b>BlackOutDateNotes</b>	BlackOutDateNotes	String

## GetDeletedPatientAuthorizations

Returns list of patient authorizations deleted after a specified date/time value.

### Request Data

The following is the request format. You can also click [here](#) to view the SOAP request and response.

```
<GetDeletedPatientAuthorizations
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <ModifiedAfter>dateTime</ModifiedAfter>
</GetDeletedPatientAuthorizations>
```

Get Deleted Patient Authorizations Request			
Field	Description	Type	Data Type
<b>ModifiedAfter</b>	Specify a date/time value in EST to retrieve rows deleted after the given time.	Required	Date/Time

### Response Data

If the method call is successful, the *Status* element of the *Result* node is set to "Success". If the request fails, an error number is returned in the *ErrorID* element.

```
<GetDeletedPatientAuthorizationsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetDeletedPatientAuthorizationsResult>
    <GetDeletedPatientAuthorizationsInfo>
      <PatientAuthorizationID>long</PatientAuthorizationID>
      <Authorizationnumber>string</Authorizationnumber>
      <DeletedDate>string</DeletedDate>
      <PatientID>long</PatientID>
      <FromDate>string</FromDate>
      <ToDate>string</ToDate>
    </GetDeletedPatientAuthorizationsInfo>
  </GetDeletedPatientAuthorizationsResult>
</GetDeletedPatientAuthorizationsResponse>
```

```

    <ServiceCategory>string</ServiceCategory>
    <ServiceType>string</ServiceType>
    <ServiceCode>string</ServiceCode>
    <AuthorizationType>string</AuthorizationType>
    <AgencyID>int</AgencyID>
    <AgencyName>string</AgencyName>
    <DeletedBy>string</DeletedBy>
    <Contract>string</Contract>
    <Discipline>string</Discipline>
    <Period>string</Period>
  </GetDeletedPatientAuthorizationsInfo>
</GetDeletedPatientAuthorizationsResult>
</GetDeletedPatientAuthorizationsResponse>

```

## Get Deleted Patient Authorizations Response

Field	Description	Data Type
<b>PatientAuthorizationID</b>	Unique Patient Authorization ID	Number
<b>AuthorizationNumber</b>	Authorization number	String
<b>DeletedDate</b>	Deleted Date of Patient Authorization Format: YYYY-MM-DD HH:MM	DateTime
<b>PatientID</b>	Patient ID	Number
<b>FromDate</b>	From Date of Authorization Format: YYYY-MM-DD HH:MM	DateTime
<b>ToDate</b>	To Date of Authorization Format: YYYY-MM-DD HH:MM	DateTime
<b>ServiceCategory</b>	Service Category (For Internal and UPR Patient, Service Category will not have any value.)	String
<b>ServiceType</b>	Service Type (For Internal and UPR Patient, Service Type will not have any value.)	String
<b>ServiceCode</b>	Service Code	String
<b>AuthorizationType</b>	Authorization Type	String
<b>AgencyID</b>	Provider ID	Number
<b>AgencyName</b>	Agency Name	String

## Get Deleted Patient Authorizations Response

Field	Description	Data Type
<b>DeletedBy</b>	DeletedBy	String
<b>Contract</b>	Contract (For Payer Patient, Contract will not have any value)	String
<b>Discipline</b>	Discipline (For Payer Patient, Discipline will not have any value)	String
<b>Period</b>	Period	String

# Reference Tables

This section provides an overview of the web methods available to interact with Reference Tables. Please click on the method name to view the SOAP request and response.

## Reading Reference Table Information

Method	Description/Returns...
<a href="#">GetPatientDisciplines</a>	Available Patient Disciplines
<a href="#">GetBillingServiceCodes</a>	A list of Billing Service Codes
<a href="#">GetContracts</a>	A list of Contracts
<a href="#">GetContractServiceCode</a>	Service Codes for given Internal Contract
<a href="#">GetOffices</a>	All offices available in Agency
<a href="#">GetDisciplines</a>	All Disciplines