



Web Service Application Programming Interface (API) Guide - TX

Provider and User Guide

Document Revision History

Version	Date	Prepared By	Comments
3.18	05/22/2023	RA	Initial Draft for TX
3.19	08/01/2023	RA	Granted access to following methods: SearchPatientAuthorizations GetPatientAuthorizationInfo GetPatientAuthorizationChanges GetDeletedPatientAuthorizations
3.19	08/29/2023	RA	Granted access to following method: UpdatePatientContract
3.19	09/05/2023	RA	Field Types updated for following methods: CreateSchedule UpdateSchedule
3.19	09/14/2023	RA	Caregiver Code field is system generated and removed from following methods: CreateCaregiver UpdateCaregiverDemographics
3.19	09/18/2023	RA	Employee ID is required for following methods: CreateCaregiver UpdateCaregiverDemographics
3.20	09/20/2023	NP	Enhanced following methods for Billable Visit Amounts: UpdateSchedule GetVisitInfoV2 GetVisitChangesV2
3.20	10/19/2023	RA	Granted access to following method: DeleteVisit GetVisitDeleteReasons
3.20	11/07/2023	RA	Added description table for: UpdatePatientDemographics Granted access to following method: GetPatientAddress
3.21	12/11/2023	RA	Enhanced following methods for Budget Number: CreateSchedule UpdateSchedule Enhanced following methods for Budget Number, Actual Hours, Actual Hours Rounded, Pay Hours & Pay Hours Unrounded: GetVisitInfoV2 GetVisitChangesV2

3.21	01/08/2024	RA	Updated Service ID field in the guide to call GetBillingServiceCodes API for following method: CreatePatientAuthorization UpdatePatientAuthorization
3.21	01/16/2024	RA	Updated field description for HoursPerAuthPeriod & MaxHoursPeriod for Service Code type as Visit for following method: CreatePatientAuthorization UpdatePatientAuthorization
3.21	01/18/2024	RA	Updated field description for SecondaryBillTo for following method: CreateSchedule UpdateSchedule
3.22	12/14/2023	RA	Enhanced following method for AlternateCaregiverCode field: SearchCaregiver
3.23	01/23/2024	RA	Enhanced following method for Office ID: SearchVisits (Change description of StartDate & EndDate) Enhanced following methods for AdjustedHours field: GetVisitInfoV2 GetVisitChangesV2 Enhanced following methods for ProviderNumber field: CreatePatientAuthorization UpdatePatientAuthorization GetPatientAuthorizationInfo GetPatientAuthorizationChanges Enhanced following methods for TimeZone field: GetCaregiverDemographics GetCaregiverChangesV2 GetVisitInfoV2 GetVisitChangesV2
3.23	02/09/2024	RA	Granted access to following method: GetScheduleInfo

3.24	04/23/2024	NC	Enhanced following method for SuggestedStartTime and SuggestedEndTime fields: CreateSchedule UpdateSchedule GetVisitInfoV2 GetVisitChangesV2 Changed description for UpdatePatientPOC for Shift
3.30	2/17/2025	NC	Updated Transaction Statusing Added methods: CreateWeeklyVariable UpdateWeeklyVariable
3.24	06/04/2025	NC	Added the following additional methods: GetVisitInfoV3 GetVisitBillInfoV2 GetVisitChangesV4

Contents

Contents.....	5
Overview	7
Support.....	7
Transmission Frequency and Limits.....	7
Security	7
Credentials.....	7
Error Codes.....	8
Patient Information	9
Reading Patient Information.....	9
Writing Patient Information.....	9
Interface Documentation	10
SearchPatients	10
GetPatientDemographics.....	11
CreatePatient.....	14
UpdatePatientDemographics.....	17
GetPatientContracts.....	21
AddPatientContract.....	23
UpdatePatientContract.....	24
SearchPatientAuthorizations.....	26
GetPatientAuthorizationInfo.....	27
CreatePatientAuthorization	30
UpdatePatientAuthorization.....	33
Caregiver Information	38
Reading Caregiver Information.....	38
Writing Caregiver Information.....	38
Interface Documentation	38
SearchCaregivers.....	38
GetCaregiverDemographics	40
CreateCaregiver	47
UpdateCaregiverDemographics	51
Schedule and Visit Information.....	56
Reading Schedule and Visit Information.....	56
Writing Schedule and Visit Information.....	56
Interface Documentation	56

SearchVisits.....	56
GetScheduleInfo.....	58
GetVisitInfoV2.....	59
GetVisitInfoV3.....	64
GetVisitBillInfo	69
GetVisitBillInfoV2.....	72
CreateSchedule	74
CreateWeeklyVariable	78
UpdateWeeklyVariable.....	79
UpdateSchedule	80
DeleteVisit	85
Billing Information	86
SearchBilledVisits	86
Incremental Fetch Methods	88
Incremental Methods.....	88
GetPatientChangesV2.....	88
GetPatientAuthorizationChanges	96
GetDeletedPatientAuthorizations	99
GetCaregiverChangesV2	101
GetVisitChangesV2	107
GetVisitChangesV4	112
Reference Tables	113
Reading Reference Table Information/Returns.....	113

Overview

HHAXchange (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 for development.

Support

If additional assistance is needed, please submit a ticket to EINTSupport@hhaexchange.com. Cases are escalated to the Enterprise Integration Service Desk (EISD) Production Support queue. An available Technical Team Member 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 500 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 are 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

The following are the HTTP Response Status Codes returned by the APIs and their meaning:

- A **400** status code is logged for agency-specific error alerts, along with the corresponding error message.
- A **500** status code is used for failure messages, along with the detailed failure description.
- A **200** status code is logged for successful requests.

If the web service call is not successful, an error code 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
SearchPatients	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 GetPatientDemographics method to retrieve the demographic information of the given Patient.
GetPatientDemographics	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 SearchPatients method to retrieve the IDs of the Patients based on a search criterion.
GetPatientContracts	Returns details of Patient Contracts
SearchPatientAuthorizations	Returns a list of authorizations associated with a given Patient (Identified by Patient ID). The ID returned by this method can be passed to GetPatientAuthorizationInfo method to retrieve the authorization details.
GetPatientAuthorizationInfo	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
CreatePatient	This method creates a new Patient record with the demographic information provided. If an Admission ID is not provided, a new Admission ID is auto generated by the system. If an Admission ID is provided and a Patient with the same Admission ID exists in the system, the method fails with an error message indicating that the Patient already exists.
UpdatePatientDemographics	Use this method to update Patient demographic information.

AddPatientContract	Add a new placement for the given Patient with the specified contract.
UpdatePatientContract	Update an existing placement for the given Patient with the specified contract.
CreatePatientAuthorization	Allows users to create a new authorization for a Patient.
UpdatePatientAuthorization	Use this method to update authorization information.

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
FirstName	Patient's First Name. Can search for partial names (using 'starts-with' algorithm).	Optional	Text
LastName	Patient's Last Name. Can search for partial names (using 'starts-with' algorithm).	Optional	Text

Search Patients			
Field	Description	Type	Data Type
Status	Patient Status Filter. Possible values: - All - Waiting - Active - Hospitalized - Discharged - Hold "Active" is assumed if a filter is not specified.	Optional	Text
PhoneNumber	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
AdmissionID	Searches for a Patient by Admission ID. An exact match algorithm is used (partial search is not supported).	Optional	Text
MRNumber	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
SSN	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>
            <MedicaidNumber>string</MedicaidNumber>
            <MedicareNumber>string</MedicareNumber>
            <AcceptedServices>
                <Discipline>HHA</Discipline>
                <Discipline>PCA</Discipline>
                <!-- Max Occurs unlimited -->
            </AcceptedServices>
        </PatientInfo>
    </GetPatientDemographicsResult>

```

```

<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>

```

CreatePatient

Allows users to create a new Patient record in HHAX. If the method call is successful a new patient is created with “Waiting” status and the ID of the newly created Patient is returned to the calling application.

Request Data

The following is the request format. CreatePatient field details are as follows. You can also click [here](#) to view the SOAP request and response.

```

<CreatePatientRequest xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
    <Authentication>
        <AppName>string</AppName>
        <AppSecret>string</AppSecret>
        <AppKey>string</AppKey>
    </Authentication>
    <PatientInfo>
        <OfficeID>number</OfficeID>
        <FirstName>string</FirstName>
        <MiddleName>string</MiddleName>
        <LastName>string</LastName>
        <BirthDate>yyyy-mm-dd</BirthDate>
        <Gender>string</Gender>
        <!-- Male | Female | Other -->
        <CoordinatorID1>number</CoordinatorID1>
        <AdmissionID>string</AdmissionID>
        <MRNumber>number</MRNumber>
        <MedicaidNumber>string</MedicaidNumber>
        <AcceptedServices>
            <Discipline>string</Discipline>
            <Discipline>string</Discipline>
            <!-- Max Occurs unlimited -->
        </AcceptedServices>
        <Addresses>
            <Address>
                <Address1>string</Address1>
                <Address2>string</Address2>
            </Address>
        </Addresses>
    </PatientInfo>
</CreatePatientRequest>

```

```

        <CrossStreet>string</CrossStreet>
        <City>string</City>
        <Zip5>int</Zip5>
        <Zip4>int</Zip4>
        <Notes>string</Notes>
        <State>string</State>
        <County>string</County>
        <PhoneLocation>string</PhoneLocation>
        <!-- HomePhone | Phone2 | Phone3 -->
        <IsPrimaryAddress>string</IsPrimaryAddress>
        <!-- Yes | No -->
        <AddressTypes>string</AddressTypes>
    </Address>
</Addresses>
<EmergencyContacts>
    <!-- Max Occurs 2 -->
    <EmergencyContact>
        <Name>string</Name>
        <RelationshipID>number</RelationshipID>
        <LivesWithPatient>string</LivesWithPatient>
        <!-- Yes | No -->
        <HaveKeys>string</HaveKeys>
        <!-- Yes | No -->
        <Phone1>xxx-xxx-xxxx</Phone1>
        <Phone2>xxx-xxx-xxxx</Phone2>
        <Address>string</Address>
    </EmergencyContact>
</EmergencyContacts>
<HomePhone>xxx-xxx-xxxx</HomePhone>
<Phone2>xxx-xxx-xxxx</Phone2>
<Phone2Description>string</Phone2Description>
<Phone3>xxx-xxx-xxxx</Phone3>
<Phone3Description>string</Phone3Description>
<Direction>string</Direction>
</PatientInfo>
</CreatePatientRequest>

```

Create Patient			
Field	Description	Type	Data Type
OfficeID	Retrieve a list of valid values and their IDs by calling the method <i>GetOffices</i> documented in the Reference Tables section.	Required	Number
FirstName	Patient's First Name	Required	string
MiddleName	Patient's Middle Name	Optional	string
LastName	Patient's Last Name	Required	string
BirthDate	Format: YYYY-MM-DD	Required	Date
Gender	Male or Female or Other	Required	string
CoordinatorID1	ID of a valid coordinator record to be assigned to the newly created Patient. A list of valid coordinators along with their ID can be retrieved by calling the method <i>GetCoordinators</i> documented under the <i>Reference Tables</i> Section.	Required	Number

Create Patient			
Field	Description	Type	Data Type
AdmissionID	If not specified, the system auto generates a new Admission ID. If specified and another Patient with the same Admission ID exists in the system, the operation fails.	Optional	String
MRNumber	MR Number of the Patient. (Displays as Patient ID in the application).	Optional	Number
MedicaidNumber	Format: XX99999XX Field can be configured as required in Office Setup.	Situational	String
AcceptedServices	List of Disciplines. At least one value is required. Retrieve a list of valid values and their IDs by calling the method GetDisciplines documented in the Reference Tables section.	Required	String
Address1	Field can be configured as required in Office Setup.	Situational	String
Address2	Address 2	Optional	String
CrossStreet	Cross Street	Optional	String
City	City	Optional	String
Zip5	Format: 99999	Required	Number
Zip4	Format: 9999	Optional	Number
Notes	Notes	Optional	String
State	State	Optional	String
County	County	Optional	String
PhoneLocation	Accepted Values: HomePhone1 / HomePhone2 / HomePhone3 Can be passed multiple Phones with pipe separated like HomePhone1 HomePhone2 HomePhone3. Default address will be Primary Address	Optional	String
IsPrimaryAddress	Value: Yes or No	Situational	String
AddressTypes	Accepted values: Home, GPS, Community. Home and Community can not be selected together. Multiple values can be passed with comma separated. If not passed then default address type will be Home and GPS.	Optional	String
HomePhone	Format: 999-999-9999	Optional	String
Phone2	Format: 999-999-9999	Optional	String
Phone2Description	Phone 2 Description	Optional	String
Phone3	Format: 999-999-9999	Optional	String

Create Patient			
Field	Description	Type	Data Type
Phone3Description	Phone 3 Description	Optional	String
Direction	Direction	Optional	String
EmergencyContacts Name	Name	Optional	String
EmergencyContacts RelationshipID	RelationshipID – A list of valid relationships and their IDs can be retrieved by calling GetEmergencyContactRelationships method documented under the Reference Tables section.	Optional	Number
EmergencyContacts LivesWithPatient	LivesWithPatient – Yes or No	Optional	String
EmergencyContacts HaveKeys	HaveKeys – Yes or No	Optional	String
EmergencyContacts Phone1	Format: 999-999-9999	Optional	String
EmergencyContacts Phone2	Format: 999-999-9999	Optional	String
EmergencyContacts Address	Address	Optional	String

Note: This creates a Patient with a “Primary Address” with “GPS” as the default “Address Type(s)”.

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.

```
<CreatePatientResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <PatientInfo>
    <PatientID>Number</PatientID>
  </PatientInfo>
</CreatePatientResult>
```

UpdatePatientDemographics

Use this method to update Patient demographic information.

Request Data

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

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

```

<Authentication>
  <AppName>string</AppName>
  <AppSecret>string</AppSecret>
  <AppKey>string</AppKey>
</Authentication>
<PatientInfo>
  <PatientID>int</PatientID>
  <FirstName>string</FirstName>
  <MiddleName>string</MiddleName>
  <LastName>string</LastName>
  <BirthDate>dateTime</BirthDate>
  <Gender>string</Gender>
  <CoordinatorID1>int</CoordinatorID1>
  <MRNumber>int</MRNumber>
  <MedicaidNumber>string</MedicaidNumber>
  <AcceptedServices>
    <Discipline>string</Discipline>
    <Discipline>string</Discipline>
  </AcceptedServices>
  <Addresses>
    <Address>
      <AddressID>int</AddressID>
      <Address1>string</Address1>
      <Address2>string</Address2>
      <CrossStreet>string</CrossStreet>
      <City>string</City>
      <Zip5>int</Zip5>
      <Zip4>int</Zip4>
      <Notes>string</Notes>
      <State>string</State>
      <County>string</County>
      <PhoneLocation>string</PhoneLocation>
      <IsPrimaryAddress>string</IsPrimaryAddress>
      <AddressTypes>string</AddressTypes>
    </Address>
    <Address>
      <AddressID>int</AddressID>
      <Address1>string</Address1>
      <Address2>string</Address2>
      <CrossStreet>string</CrossStreet>
      <City>string</City>
      <Zip5>int</Zip5>
      <Zip4>int</Zip4>
      <Notes>string</Notes>
      <State>string</State>
      <County>string</County>
      <PhoneLocation>string</PhoneLocation>
      <IsPrimaryAddress>string</IsPrimaryAddress>
      <AddressTypes>string</AddressTypes>
    </Address>
  </Addresses>
  <EmergencyContacts>
    <EmergencyContact>
      <Name>string</Name>
      <RelationshipID>int</RelationshipID>
      <LivesWithPatient>string</LivesWithPatient>
      <HaveKeys>string</HaveKeys>
      <Phone1>string</Phone1>
      <Phone2>string</Phone2>
    </EmergencyContact>
  </EmergencyContacts>
</PatientInfo>

```

```

        <Address>string</Address>
    </EmergencyContact>
    <EmergencyContact>
        <Name>string</Name>
        <RelationshipID>int</RelationshipID>
        <LivesWithPatient>string</LivesWithPatient>
        <HaveKeys>string</HaveKeys>
        <Phone1>string</Phone1>
        <Phone2>string</Phone2>
        <Address>string</Address>
    </EmergencyContact>
</EmergencyContacts>
<HomePhone>string</HomePhone>
<Phone2>string</Phone2>
<Phone2Description>string</Phone2Description>
<Phone3>string</Phone3>
<Phone3Description>string</Phone3Description>
<Direction>string</Direction>
</PatientInfo>
</UpdatePatientDemographics>

```

The data structure for *CreatePatient* and *UpdatePatientDemographics* methods are almost same with the following exceptions.

1. When calling *UpdatePatientDemographics* method, always specify the PatientID (which uniquely identifies each Patient). When creating a New Patient, the Patient ID is returned along with the response data. Obtain the Patient ID by calling the *SearchPatients* method.
2. *OfficeID* and *AdmissionID* values cannot be edited; therefore, those values are available only when a Patient is created.

Note: If 'AddressType' is not passed and blank then Home and GPS will be default Address Type

Update Patient Demographics			
Field	Description	Type	Data Type
PatientID	Unique ID of Patient in HHAeXchange. Obtain Patient ID by calling SearchPatients method.	Required	Number
FirstName	Patient's First Name	Required	string
MiddleName	Patient's Middle Name	Optional	string
LastName	Patient's Last Name	Required	string
BirthDate	Format: YYYY-MM-DD	Required	Date
Gender	Male or Female or Other	Required	string
CoordinatorID1	A list of valid coordinators along with their ID can be retrieved by calling the method GetCoordinators documented under the <i>Reference Tables</i> Section.	Required	Number
MRNumber	MR Number of the Patient. (Displays as Patient ID in the application).	Optional	Number
MedicaidNumber	Format: XX99999XX Field can be configured as required in Office Setup.	Situational	String

Update Patient Demographics			
Field	Description	Type	Data Type
AcceptedServices	List of Disciplines. At least one value is required. Retrieve a list of valid values and their IDs by calling the method GetDisciplines documented in the Reference Tables section.	Required	String
AddressID	Retrieve the valid ID(s) by calling the method GetPatientAddress documented in the Reference Tables section. Required for existing primary address	Situational	Number
Address1	Field can be configured as required in Office Setup.	Situational	String
Address2	Address 2	Optional	String
CrossStreet	Cross Street	Optional	String
City	City	Optional	String
Zip5	Format: 99999	Required	Number
Zip4	Format: 9999	Optional	Number
Notes	Notes	Optional	String
State	State	Optional	String
County	County	Optional	String
PhoneLocation	Accepted Values: HomePhone1 / HomePhone2 / HomePhone3 Can be passed multiple Phones with pipe separated like HomePhone1 HomePhone2 HomePhone3. Default address will be Primary Address	Optional	String
IsPrimaryAddress	Value: Yes or No	Situational	String
AddressTypes	Accepted values: Home, GPS, Community. Home and Community can not be selected together. Multiple values can be passed with comma separated. If not passed then default address type will be Home and GPS.	Optional	String
HomePhone	Format: 999-999-9999	Optional	String
Phone2	Format: 999-999-9999	Optional	String
Phone2Description	Phone 2 Description	Optional	String
Phone3	Format: 999-999-9999	Optional	String
Phone3Description	Phone 3 Description	Optional	String
Direction	Direction	Optional	String
EmergencyContacts Name	Name	Optional	String

Update Patient Demographics			
Field	Description	Type	Data Type
EmergencyContacts RelationshipID	RelationshipID – A list of valid relationships and their IDs can be retrieved by calling GetEmergencyContactRelationships method documented under the Reference Tables section.	Optional	Number
EmergencyContacts LivesWithPatient	LivesWithPatient – Yes or No	Optional	String
EmergencyContacts HaveKeys	HaveKeys – Yes or No	Optional	String
EmergencyContacts Phone1	Format: 999-999-9999	Optional	String
EmergencyContacts Phone2	Format: 999-999-9999	Optional	String
EmergencyContacts Address	Address	Optional	String

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.

```
<UpdatePatientDemographicsResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <PatientInfo>
    <PatientID>Number</PatientID>
    <DisplayMessage>string</DisplayMessage>
  </PatientInfo>
</UpdatePatientDemographicsResult>
```

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

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.

```
<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

Get Patient Contracts Result		
Field	Description	Data Type
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 (Yes) or N (No)	String
AltPatientID	Alternate Patient Number	String
ServiceStartDate	Format: YYYY-MM-DD	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: YYYY-MM-DD	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 Discharge to Reason	String

AddPatientContract

Allows to add Patient Contracts for given Patient in HHAeXchange.

Request Data

The following is the request format. AddPatientContract field details are as follows. You can also click [here](#) to view the SOAP request and response.

```
<AddPatientContract xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientContractInfo>
    <PatientID>number</PatientID>
    <ContractID>number</ContractID>
    <StartDate>dateTime</StartDate>
    <AltPateintID>string</AltPateintID>
    <ServiceCodeID>number</ServiceCodeID>
    <IsPrimaryContract>boolean</IsPrimaryContract>
  </PatientContractInfo>
</AddPatientContract>
```

Add Patient Contract			
Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAExchange	Required	Number
Contract ID	Retrieve a list of Contracts by calling the method <i>GetContracts</i> documented in the <i>Reference Tables</i> section.	Required	Number
AltPatientID	Alternate Patient Number	Optional	String
StartDate	Format: YYYY-MM-DD	Required	Date
ServiceCodeID	Retrieve a list of Service Codes by calling the method <i>GetBillingServiceCodes</i> documented in the <i>Reference Tables</i> section.	Required	Number
IsPrimaryContract	Possible Values: true or false	Optional	String

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.

```
<AddPatientContractResponse xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <AddPatientContractResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage />
      </ErrorInfo>
    </Result>
    <PatientContractInfo>
      <PatientID>number</PatientID>
      <PlacementID>number</PlacementID>
    </PatientContractInfo>
  </AddPatientContractResult>
</AddPatientContractResponse>
```

UpdatePatientContract

Allows to Update Patient Contracts for given Patient in HHAExchange.

Request Data

The following is the request format. UpdatePatientContract field details are as follows. You can also click [here](#) to view the SOAP request and response.

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



```

<PatientContractInfo>
  <PatientID>number</PatientID>
  <PlacementID>number</PlacementID>
  <UpdateAltPateintID>boolean</UpdateAltPateintID>
  <AltPateintID>string</AltPateintID>
  <UpdateStartDate>boolean</UpdateStartDate>
  <StartDate>dateTime</StartDate>
  <SourceOfAdmissionID>number</SourceOfAdmissionID>
  <StartNote>string</StartNote>
  <UpdateServiceCode>boolean</UpdateServiceCode>
  <ServiceCodeID>number</ServiceCodeID>
  <UpdateDischargeDate>boolean</UpdateDischargeDate>
  <DischargeDate>dateTime</DischargeDate>
  <DischargeToID>number</DischargeToID>
  <DischargeReasonID>number</DischargeReasonID>
  <DischargeNote>string</DischargeNote>
  <IsPrimaryContract>boolean</IsPrimaryContract>
</PatientContractInfo>
</UpdatePatientContract>

```

Update Patient Contract			
Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAExchange	Required	Number
PlacementID	Unique ID of the Patient Contract ID in HHAExchange. This can be obtained by calling the method GetPatientContracts	Required	Number
UpdateAltPatientID	Possible Values: true or false . If Value is true, then only "AltPatientID" will be updated.	Optional	String
AltPatientID	Alternate Patient Number	Optional	String
UpdateStartDate	Possible Values: true or false . If Value is true, then only "StartDate, SourceOfAdmissionID, StartNote" will be updated.	Optional	String
StartDate	Format: YYYY-MM-DD Required if UpdateStartDate is true.	Situational	Date
SourceOfAdmissionID	Retrieve a list of <i>Source of Admissions</i> by calling the GetSourceOfAdmissions method as documented in the <i>Reference Tables</i> section	Optional	Number
StartNote	Note	Optional	String
UpdateServiceCode	Possible Values: true or false . If Value is true, then only "ServiceCodeID" will be updated.	Optional	String
ServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method GetBillingServiceCodes documented in the <i>Reference Tables</i> section.	Optional	Number
UpdateDischargeDate	Possible Values: true or false . If Value is true, then only "DischargeDate, DischargeToID, DischargeReasonID, DischargeNote" will be updated.	Optional	String
DischargeDate	Format: YYYY-MM-DD	Optional	Date

Update Patient Contract			
Field	Description	Type	Data Type
DischargeToID	Patient Discharge To ID. Retrieve a list of Patient Discharge To by calling the <i>GetPatientDischargeTo</i> method as documented in the <i>Reference Tables</i> section. Required if UpdateDischargeDate is true and DischargeDate is not blank.	Situational	Number
DischargeReasonID	Patient Discharge Reason ID. Retrieve a list of Contract Discharge Reason by calling the <i>GetContractDischargeReason</i> method as documented in the <i>Reference Tables</i> section. Required if UpdateDischargeDate is true and DischargeDate is not blank	Situational	Number
DischargeNote	Note	Optional	String
IsPrimaryContract	Possible Values: true or false .	Optional	String

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.

```
<UpdatePatientContractResponse xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdatePatientContractResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage />
      </ErrorInfo>
    </Result>
    <PatientContractInfo>
      <PatientID>number</PatientID>
      <PlacementID>number</PlacementID>
    </PatientContractInfo>
  </UpdatePatientContractResult>
</UpdatePatientContractResponse>
```

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
PatientID	ID of the Patient record to be queried	Required	Number
AuthorizationID	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>
    <ProviderNumber>string</ProviderNumber>
</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>
    <ProviderNumber>string</ProviderNumber>
</CreateAuthorizationInfo>
</CreatePatientAuthorization>

```

Create Patient Authorization			
Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAeXchange	Required	Number
ContractID	Retrieve a list of Patient Contracts by calling the method GetPatientContracts documented in the <i>Patient Information</i> section.	Required	Number
Discipline	Retrieve a list of <i>Disciplines</i> by calling the method GetPatientDisciplines documented in the <i>Reference Tables</i> section	Required	String
ServiceCodeID	Retrieve a list of Service Codes by calling the method GetBillingServiceCodes documented in the <i>Reference Tables</i> section.	Required	Number
AuthorizationNumber	The authorization number for this authorization. If the authorization number is not available, enter “TEMP”. This will flag the authorization as temporary.	Required	String
FromDate	Authorization Start Date. Format: YYYY-MM-DD	Required	String
ToDate	Authorization End Date. Format: YYYY-MM-DD	Required	String
HoursPerAuthPeriod	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50. Only applies to Period = Daily, Weekly or Monthly If Service Code type is configured as “Visit” in HHAX, you can also pass unit value in the same field. Example: 1	Optional	Decimal
SpecificDateType	Possible Values: True or False If Period = Daily or Weekly	Optional	Boolean
WeekDay	Weekday possible values: True or False Required if Specific Date Type = “True”.	Situational	Boolean
WeekEnd	Weekend/Holiday possible values: True or False Required if Specific Date Type = “True”.	Situational	Boolean
BankedHours	Possible values: Y or N	Optional	String

Create Patient Authorization			
Field	Description	Type	Data Type
IsAdditionalRules	Possible Values: True or False If "True" this authorization can be restricted further through 3 additional fields "Maximum Visits" "Period" and "Of X Hours"	Required	String
Period	Possible Values: Daily, Weekly, Monthly or Entire Period	Required	String
MaxHoursPeriod	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50 If Service Code type is configured as "Visit" in HHAX, you can also pass unit value in the same field. Example: 1	Optional	Decimal
SatMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
SunMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
MonMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
TueMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
WedMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
ThuMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50.	Optional	Decimal
FriMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
MaximumVisits	Whole number between 1 and 999 Required if Additional Rules = "True".	Situational	Number
Period	Possible values: Week, Month or Entire Period Required if Additional Rules = "True".	Situational	String
OfXHours	Number of hours which can be scheduled for visits under this additional rule. Format: 99.99 Required if Additional Rules = "True".	Situational	Decimal
Note	Note	Optional	String
DiagnosisCode	Billing Diagnosis ICD-10 Code	Optional	String
Description	Description of ICD-10 Code	Optional	String

Create Patient Authorization			
Field	Description	Type	Data Type
IsPrimary	Possible values: Yes or No	Optional	String
Program Code	Program Code	Optional	String
BudgetAmount	Budget Amount	Optional	Decimal
ProviderNumber	Required if Payer code type of contract is LTC. Value should always be 9 digits numeric.	Situational	String

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>
    <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>
<ProviderNumber>string</ProviderNumber>
</UpdateAuthorizationInfo>
</UpdatePatientAuthorization>

```

Update Patient Authorization			
Field	Description	Type	Data Type
AuthorizationID	Unique ID of the authorization record. This can be obtained by calling the method <i>SearchPatientAuthorizations</i>	Required	Number
ContractID	Retrieve a list of Patient <i>Contracts</i> by calling the method <i>GetPatientContracts</i> documented in the <i>Patient Information</i> section.	Required	Number
DisciplineID	Retrieve a list of <i>Disciplines</i> by calling the method <i>GetPatientDisciplines</i> documented in the <i>Reference Tables</i> section	Required	String
ServiceCodeID	Retrieve a list of Service Codes by calling the method <i>GetBillingServiceCodes</i> documented in the <i>Reference Tables</i> section.	Required	Number
AuthorizationNumber	The authorization number for this authorization.	Required	String
FromDate	Authorization Start Date. Format: YYYY-MM-DD	Required	DateTime
ToDate	Authorization End Date. Format: YYYY-MM-DD	Required	DateTime
HoursPerAuthPeriod	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50 Only applies to Period = Daily, Weekly or Monthly If Service Code type is configured as "Visit" in HHAX, you can also pass unit value in the same field. Example: 1	Optional	Decimal
BankedHours	Possible values: Y or N	Optional	String
IsAdditionalRules	Possible Values: True or False If "True" this authorization can be restricted further through 3 additional fields "Maximum Visits" "Period" and "Of X Hours"	Required	String
Period	Possible Values: Daily, Weekly, Monthly or Entire Period	Required	String
SpecificDateType	Possible Values: True or False If Period = Daily or Weekly	Optional	Boolean
WeekDay	Weekday possible values: True or False Required if Specific Date Type = "True".	Situational	Boolean

Update Patient Authorization			
Field	Description	Type	Data Type
WeekEnd	Weekend/Holiday possible values: True or False Required if Specific Date Type = "True".	Situational	Boolean
MaxHoursPeriod	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50 If Service Code type is configured as "Visit" in HHAX, you can also pass unit value in the same field. Example: 1	Optional	Decimal
SatMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
SunMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
MonMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
TueMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
WedMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
ThuMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
FriMinutes	Decimal values of .25 .50 .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
AuthorizationAdditionalRuleID	Unique Rule ID of the authorization record. This can be obtained by calling the method <i>GetPatientAuthorizationInfo</i>	Situational	Number
MaximumVisits	Whole number between 1 and 999 Required if Additional Rules = "True".	Situational	Number
Period	Possible values: Week, Month or Entire Period Required if Additional Rules = "True".	Situational	String
OfXHours	Number of hours which can be scheduled for visits under this additional rule. Format: 99.99 Required if Additional Rules = "True".	Situational	Decimal
Note	Note	Optional	String
DiagnosisCode	Billing Diagnosis ICD-10 Code	Optional	String
Description	Description of ICD-10 Code	Optional	String

Update Patient Authorization			
Field	Description	Type	Data Type
IsPrimary	Possible values: Yes or No	Optional	String
From Date	Blackout Start Date. Format: YYYY-MM-DD	Optional	DateTime
To Date	Blackout End Date. Format: YYYY-MM-DD	Optional	DateTime
Notes	Blackout Notes	Optional	String
Program Code	Program Code	Optional	String
BudgetAmount	Budget Amount	Optional	Decimal
ProviderNumber	Require if Payer code type of contract is LTC. Value should always be 9 digits numeric.	Situational	String

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>
```

Caregiver Information

Throughout this document, Service Provider, also known as Caregiver, will be referred to as Caregiver. The following methods are available to access Caregiver information.

Reading Caregiver Information

The following methods allow users to view/retrieve Caregiver information from HHAX.

Method	Allows users to...
SearchCaregivers	Search for a list of Caregivers matching a given search criteria. This returns a list of CaregiverIDs (which is a unique identifier of each Caregiver record). The ID returned by this method can be submitted to <i>GetCaregiverDemographics</i> method to retrieve the demographic information of the given Caregiver.
GetCaregiverDemographics	Retrieve Caregiver Demographic Information. Results return the information of one Caregiver at a time. When calling this method, submit the Caregiver ID to access. Use the <i>SearchCaregivers</i> method to retrieve the Caregiver IDs of the based on the search criteria.

Writing Caregiver Information

The following methods are used to perform various data modification operations related to Caregiver records.

Method	Allows users to...
CreateCaregiver	Create a New Caregiver record.
UpdateCaregiverDemographics	Update Caregiver Demographic Information.

Interface Documentation

Web service methods related to Caregiver Information is covered in this section.

SearchCaregivers

Allows users to search for Caregivers 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.

```
<SearchCaregiversRequest 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>
        <CaregiverCode>string</CaregiverCode>
        <EmployeeType>string</EmployeeType>
        <SSN>string</SSN>
    </SearchFilters>
</SearchCaregiversRequest>

```

Search Caregivers Request			
Field	Description	Type	Data Type
FirstName	Caregiver's first name. Searches for partial names as well (using 'starts-with' algorithm)	Optional	Text
LastName	Caregiver's last name. Searches for partial names as well (using 'starts-with' algorithm)	Optional	Text
Status	Caregiver Status Filter. Possible values: - All - Active - Inactive - Rejected - Hold - On Leave - Terminated "All" is assumed if a filter is not specified.	Optional	Text
PhoneNumber	Searches for Caregivers matching a given phone number in Home Phone, Phone2 and Phone3 fields. The number should have 10 digits and no special characters are allowed.	Optional	Text
CaregiverCode	Searches for a Caregiver by Caregiver Code. An exact-match algorithm is used and partial search is not supported.	Optional	Text
EmployeeType	Caregiver Employee Type Filter values: - All - Employee - Applicant	Optional	Text
SSN	Caregiver's SSN.	Optional	Text
AlternateCaregiverCode	Caregiver's Alternate Caregiver Code	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.

```

<SearchCaregiversResult xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <Caregivers>
    <CaregiverID>223569</CaregiverID>
    <CaregiverID>123965</CaregiverID>
  </Caregivers>
</SearchCaregiversResult>

```

The number returned in the *CaregiverID* element is the Primary key of the Caregiver record. This can be submitted to the *GetCaregiverDemographics* method to retrieve Caregiver demographic information.

GetCaregiverDemographics

Retrieves Caregiver 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.

```

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

```

Get Caregiver Demographics			
Field	Description	Type	Data Type
ID	Primary Key of the Caregiver to be retrieved. This call is typically followed by a call to <i>SearchCaregivers</i> method which retrieves the IDs of the desired Caregivers using various 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.

```

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

```



```

        <ErrorMessage />
    </ErrorInfo>
</Result>
<CaregiverInfo>
    <ID>number</ID>
    <FirstName>string</FirstName>
    <MiddleName>string</MiddleName>
    <LastName>string</LastName>
    <Initials>string</Initials>
    <Gender>string</Gender>
    <CaregiverGenderID>string</CaregiverGenderID>
    <BirthDate>yyyy-mm-dd</BirthDate>
    <CaregiverCode>number</CaregiverCode>
    <TimeAndAttendancePIN>number</TimeAndAttendancePIN>
    <AlternateCaregiverCode>string</AlternateCaregiverCode>
    <MobileID>number</MobileID>
    <MobileIDType>string</MobileIDType>
    <MobileIDTypeDescription>string</MobileIDTypeDescription>
    <!-- Clinical | Non Clinical -->
    <SSN>xxx-xx-xxxx</SSN>
    <Ethnicity>
        <ID>number</ID>
        <Name>string</Name>
    </Ethnicity>
    <RehireDate>yyyy-mm-dd</RehireDate>
    <CountryOfBirth>string</CountryOfBirth>
    <EmployeeType>string</EmployeeType>
    <MaritalStatus>
        <ID>number</ID>
        <Name>string</Name>
    </MaritalStatus>
    <Dependents>string</Dependents>
    <Status>
        <ID>number</ID>
        <Name>string</Name>
    </Status>
    <EmploymentTypes>
        <!-- Max Occurs Unlimited -->
        <Discipline>HHA</Discipline>
        <Discipline>PCA</Discipline>
    </EmploymentTypes>
    <EmployeeID>string</EmployeeID>
    <ApplicationDate>yyyy-mm-dd</ApplicationDate>
    <Team>
        <ID>number</ID>
        <Name>string</Name>
    </Team>
    <Location>
        <ID>number</ID>
        <Name>string</Name>
    </Location>
    <Branch>
        <ID>number</ID>
        <Name>string</Name>
    </Branch>
    <HireDate>yyyy-mm-dd</HireDate>
    <FirstWorkDate>yyyy-mm-dd</FirstWorkDate>
    <LastWorkDate>yyyy-mm-dd</LastWorkDate>
    <RegistryNumber>string</RegistryNumber>

```

```

<RegistryCheckedDate>yyyy-mm-dd</RegistryCheckedDate>
<ReferralSource>
  <ID>number</ID>
  <Name>string</Name>
</ReferralSource>
<ReferralPerson>string</ReferralPerson>
<Address>
  <Street1>string</Street1>
  <Street2>string</Street2>
  <City>string</City>
  <State>string</State>
  <Zip5>number</Zip5>
  <Zip4>number</Zip4>
  <HomePhone>xxx-xxx-xxxx</HomePhone>
  <Phone2>xxx-xxx-xxxx</Phone2>
  <Phone3>xxx-xxx-xxxx</Phone3>
</Address>
<EmergencyContacts>
  <!-- Max Occurs 2 -->
  <EmergencyContact>
    <Name>string</Name>
    <Relationship>
      <ID>number</ID>
      <Name>string</Name>
    </Relationship>
    <Address>string</Address>
    <Phone1>xxx-xxx-xxxx</Phone1>
    <Phone2>xxx-xxx-xxxx</Phone2>
  </EmergencyContact>
</EmergencyContacts>
<NotificationPreferences>
  <Method>
    <ID>number</ID>
    <Name>string</Name>
  </Method>
  <Email>string</Email>
  <MobileOrSMS>xxx-xxx-xxxx</MobileOrSMS>
  <VoiceMessage>xxx-xxx-xxxx</VoiceMessage>
</NotificationPreferences>
<CaregiverOffices>
  <Office>
    <OfficeID>number</OfficeID>
    <OfficeName>string</OfficeName>
    <IsPrimary>boolean</IsPrimary>
  </Office>
  <Office>
    <OfficeID>number</OfficeID>
    <OfficeName>string</OfficeName>
    <IsPrimary>boolean</IsPrimary>
  </Office>
</CaregiverOffices>
<InactiveReasonID>int</InactiveReasonID>
<InactiveReason>string</InactiveReason>
<InactiveNote>string</InactiveNote>
<TerminatedDate>string</TerminatedDate>
<ProfessionalLicensenumber>string</ProfessionalLicensenumber>
<NPINumber>string</NPINumber>
<SignedPayrollAgreementDate>string</SignedPayrollAgreementDate>
<LanguageID1>int</LanguageID1>

```

```

        <Language1>string</Language1>
        <LanguageID2>int</LanguageID2>
        <Language2>string</Language2>
        <LanguageID3>int</LanguageID3>
        <Language3>string</Language3>
        <LanguageID4>int</LanguageID4>
        <Language4>string</Language4>
        <LastModifiedDate>string</LastModifiedDate>
        <TimeZone>string</TimeZone>
    </CaregiverInfo>
</GetCaregiverDemographicsResult>

```

Get Caregiver Demographics Result		
Field	Description	Data Type
ID	Primary Key of the Caregiver to be retrieved.	Number
FirstName	Caregivers's FirstName	String
MiddleName	Caregiver's MiddleName	String
LastName	Caregiver's LastName	String
Initials	Caregiver's Initials	String
Gender	Possible Values: "Male" "Female"	String
CaregiverGenderID	Caregiver Gender ID in HHAExchange.	String
BirthDate	Caregiver's Birthdate. Format: YYYY-MM-DD	String
CaregiverCode	Caregiver Code in HHAExchange.	Number
TimeAndAttendancePIN	Time and Attendance PIN of the Caregiver in HHAExchange.	Number
AlternateCaregiverCode	Alternate Caregiver Code in HHAExchange.	String
MobileID	MobileID in HHAExchange.	Number
MobileIDType	Mobile ID type in HHAExchange.	String
MobileIDTypeDescription	Mobile ID type Description in HHAExchange. Possible Values: "Clinical" or "Non Clinical"	String
SSN	SSN in HHAExchange.	String
Ethnicity	List of Caregiver Ethnicity.	
ID	Ethnicity ID in HHAExchange.	Number
Name	Ethnicity Name in HHAExchange.	String
RehireDate	Rehire date of Caregiver. Format: YYYY-MM-DD	String

Get Caregiver Demographics Result		
Field	Description	Data Type
CountryOfBirth	Country of Birth of Caregiver.	String
EmployeeType	Employee Type of Caregiver Possible values: “Applicant” or “Employee”	String
MaritalStatus	Caregiver’s Marital Status in HHAExchange.	
ID	Marital Status ID.	Number
Name	Marital Status Name.	String
Dependents	Caregiver’s Dependents in HHAExchange.	String
Status	Caregiver’s Status in HHAExchange.	
ID	Status ID	Number
Name	Status Name	String
EmploymentTypes	List of Employment Types of Caregiver.	
Discipline	Discipline of Employment Types in HHAExchange.	String
EmployeeID	Caregiver’s Employee ID in HHAExchange.	String
ApplicationDate	Format: YYYY-MM-DD	String
Team	Caregiver’s Team in HHAExchange	
ID	Team ID	Number
Name	Team Name	String
Location	Caregiver’s Location in HHAExchange	
ID	Location ID	Number
Name	Location Name	String
Branch	Caregiver’s Branch in HHAExchange	
ID	Branch ID	Number
Name	Branch Name	String
HireDate	Caregiver’s Hire Date. Format: YYYY-MM-DD	String
FirstWorkDate	Caregiver’s First Work Date. Format: YYYY-MM-DD	String
LastWorkDate	Caregiver’s Last work Date. Format: YYYY-MM-DD	String

Get Caregiver Demographics Result		
Field	Description	Data Type
RegistryNumber	Caregiver's Registry Number	String
RegistryCheckedDate	Date the Caregiver information was entered/checked in the registry. Format: YYYY-MM-DD	String
ReferralSource	Caregiver's Referral Source in HHAeXchange.	
ID	Referral Source ID	Number
Name	Referral Source Name	String
ReferralPerson	Referral Source Person	String
Address	Caregiver's Address Information	
Street1	Street 1	String
Street2	Street 2	String
City	City	String
State	State	String
Zip5	Zip5 - 5 Digit Zip Code	Number
Zip4	Zip4 - 4 Digit Zip Code	Number
HomePhone	HomePhone - Format: 999-999-9999	String
Phone2	Phone2 - Format: 999-999-9999	String
Phone3	Phone3 - Format: 999-999-9999	String
EmergencyContacts	List of Emergency Contacts of Caregivers	
EmergencyContact	Emergency Contact Details	
Name	Emergency Contact Person Name	String
Relationship	Relation with Emergency Contact Person	
ID	Relationship ID	Number
Name	Relationship Name	String
Address	Address of Emergency Contact Person	String
Phone1	Phone 1 of Emergency Contact Person	String
Phone2	Phone 2 of Emergency Contact Person	String

Get Caregiver Demographics Result		
Field	Description	Data Type
NotificationPreferences	Caregiver's Notification Preferences in HHAExchange.	
Method	Methods of Notification Preferences	
ID	Method ID	Number
Name	Method Name	String
Email	Email ID for Notification	String
MobileOrSMS	Mobile Number to receive Text Message. Format: 999-999-9999	String
VoiceMessage	Phone number to receive voice message notifications. Format: 999-999-9999	String
CaregiverOffices	List of Caregiver's Offices	
Office	Office Information	
OfficeID	Office ID	Number
OfficeName	Office Name	String
IsPrimary	Is Primary	Bool
InactiveReasonID	InActive Reason ID	Number
InactiveReason	InActive Reason	String
InactiveNote	Inactive Note	String
TerminatedDate	Terminated Date	String
ProfessionalLicensenumber	Professional License number	String
NPINumber	NPINumber	String
SignedPayrollAgreementDate	Signed Payroll Agreement Date	String
LanguageID1	Language 1 ID	Number
Language1	Language 1	String
LanguageID2	Language 2 ID	Number
Language2	Language 2	String
LanguageID3	Language 3 ID	Number
Language3	Language 3	String

Get Caregiver Demographics Result		
Field	Description	Data Type
LanguageID4	Language 4 ID	Number
Language4	Language 4	String
LastModifiedDate	Last Modified Date.Format YYYY-MM-DD	String
TimeZone	TimeZone of caregiver	String

CreateCaregiver

Allows users to create a new Caregiver record in HHAX. If the method call is successful a new Caregiver profile is created, and the ID of the newly created record is returned to the calling application.

Request Data

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

```
<CreateCaregiverRequest xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <CaregiverInfo>
    <OfficeID>number</OfficeID>
    <FirstName>string</FirstName>
    <MiddleName>string</MiddleName>
    <LastName>string</LastName>
    <Intials>string</Intials>
    <Gender>string</Gender>
    <!-- Male | Female -->
    <BirthDate>yyyy-mm-dd</BirthDate>
    <AlternateCaregiverCode>string</AlternateCaregiverCode>
    <!-- Clinical | Non Clinical -->
    <SSN>xxx-xx-xxxx</SSN>
    <RehireDate>yyyy-mm-dd</RehireDate>
    <StatusID>number</StatusID>
    <EmploymentTypes>
      <!-- Max Occurs Unlimited -->
      <Discipline>string</Discipline>
      <Discipline>string</Discipline>
    </EmploymentTypes>
    <EmployeeID>string</EmployeeID>
    <ApplicationDate>yyyy-mm-dd</ApplicationDate>
    <Address>
      <Street1>string</Street1>
      <Street2>string</Street2>
      <City>string</City>
      <State>string</State>
      <Zip5>number</Zip5>
      <Zip4>number</Zip4>
      <HomePhone>xxx-xxx-xxxx</HomePhone>
    </Address>
  </CaregiverInfo>
</CreateCaregiverRequest>
```

```

        <Phone2>xxx-xxx-xxxx</Phone2>
        <Phone3>xxx-xxx-xxxx</Phone3>
    </Address>
    <EmergencyContacts>
        <!-- Max Occurs 2 -->
        <EmergencyContact>
            <Name>string</Name>
            <RelationshipID>number</RelationshipID>
            <OtherRelationship>string</OtherRelationship>
            <Address>string</Address>
            <Phone1>xxx-xxx-xxxx</Phone1>
            <Phone2>xxx-xxx-xxxx</Phone2>
        </EmergencyContact>
    </EmergencyContacts>
    <NotificationPreferences>
        <Email>string</Email>
        <MobileOrSMS>xxx-xxx-xxxx</MobileOrSMS>
    </NotificationPreferences>
    <Language1>number</Language1>
    <Language2>number</Language2>
    <Language3>number</Language3>
    <Language4>number</Language4>
    <EmployeeType>string</EmployeeType>
    <InactiveReason>int</InactiveReason>
    <InactiveNote>string</InactiveNote>
</CaregiverInfo>
</CreateCaregiverRequest>

```

Create Caregivers			
Field	Description	Type	Data Type
OfficeID	Retrieve a list of valid values and their IDs by calling the method GetOffices documented in the Reference Tables section.	Required	Number
FirstName		Required	String
MiddleName	Field can be configured as required in Office Setup.	Situational	String
LastName		Required	String
Initials	If not specified, the first letter of First Name and Last Name are used to create an initial value.	Optional	String
BirthDate		Required	Date
Gender	Male or Female . Get gender name list by calling method GetCaregiveGender .	Required	String
AlternateCaregiverCode		Optional	String
SSN	Format: 999-99-9999 . <i>RehireDate</i> (see below) is required if there is another Caregiver with the same SSN in the system. Field can be configured as required in Office Setup.	Situational	String

Create Caregivers			
Field	Description	Type	Data Type
RehireDate	YYYY-MM-DD – Required if attempting to create a Caregiver with an SSN that already exists in another Caregiver.	Situational	Date
StatusID	Valid Caregiver Employee Status: "0" - Inactive "3" - On Leave "1" – Active "4" - Terminated "2" - Hold Valid Caregiver Applicant Status: "1" – Active "5" – Rejected	Required	Number
EmploymentTypes	List of Disciplines. At least one value is required. Either all should be Clinical or Non-Clinical Disciplines. Retrieve a list of valid values and their IDs by calling the method GetDisciplines documented in the <i>Reference Tables</i> section.	Required	String
EmployeeID	Unique Provider Assigned ID	Required	String
ApplicationDate	Format: YYYY-MM-DD	Required	Date
Address Street1	Field can be configured as required in Office Setup.	Situational	String
Address Street2	Street2	Optional	String
Address City	Field can be configured as required in Office Setup.	Situational	String
Address State	Field can be configured as required in Office Setup.	Situational	String
Address Zip5	Zip5 - 5 Digit Zip Code	Required	Number
Address Zip4	Zip4 - 4 Digit Zip Code Field can be configured as required in Office Setup.	Situational	Number
HomePhone	Format: 999-999-9999	Optional	Number
Phone2	Format: 999-999-9999	Optional	Number
Phone3	Format: 999-999-9999	Optional	Number
EmergencyContacts Name	Name	Optional	String
EmergencyContacts RelationshipID	RelationshipID – Retrieve a list of valid relationships and their IDs by calling GetEmergencyContactRelationships method documented under the <i>Reference Tables</i> section.	Optional	Number
EmergencyContacts OtherRelationship	Other Relationship	Optional	String
EmergencyContacts Address	Address	Optional	String
EmergencyContacts Phone1	Phone1 – Format: 999-999-9999	Optional	String

Create Caregivers			
Field	Description	Type	Data Type
EmergencyContacts Phone2	Phone2 – Format: 999-999-9999	Optional	String
NotificationPreferences Email	Email	Optional	String
NotificationPreferences MobileOrSMS	MobileOrSMS – Specify Mobile Number to receive Text Message. Format: 999-999-9999 Field can be configured as required in Office Setup.	Situational	Number
Language1	Retrieve a list of Languages by calling the method GetLanguages documented in the <i>Reference Tables</i> section. Field can be configured as required in Office Setup.	Situational	Number
Language2	Retrieve a list of Languages by calling the method GetLanguages documented in the <i>Reference Tables</i> section. Field can be configured as required in Office Setup.	Situational	Number
Language3	Retrieve a list of Languages by calling the method GetLanguages documented in the <i>Reference Tables</i> section.	Optional	Number
Language4	Retrieve a list of Languages by calling the method GetLanguages documented in the <i>Reference Tables</i> section.	Optional	Number
EmployeeType	Possible Values: Applicant or Employee If not specified, the Employee value taken by default.	Required	String
InactiveReason	Retrieve a list of Inactive Reasons by calling the method GetStatusReasonsForCaregiver in the <i>Reference Tables</i> section.	Optional	Number
InactiveNote	Field can be configured as required in Office Setup.	Situational	String

Response Data

If the method is successful, the element *CaregiverID* will hold the ID of the newly created Caregiver.

```
<CreateCaregiverResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <CaregiverInfo>
    <CaregiverID>Number</CaregiverID>
    <CaregiverCode>int</CaregiverCode>
  </CaregiverInfo>
</CreateCaregiverResult>
```

UpdateCaregiverDemographics

Use this method to update Caregiver demographic information.

Request Data

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

```
<UpdateCaregiverDemographicsRequest
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <CaregiverInfo>
    <CaregiverID>number</CaregiverID>
    <!-- Primary Key of the Caregiver -->
    <FirstName>string</FirstName>
    <MiddleName>string</MiddleName>
    <LastName>string</LastName>
    <Intials>string</Intials>
    <Gender>string</Gender>
    <!-- Male | Female -->
    <BirthDate>yyyy-mm-dd</BirthDate>
    <AlternateCaregiverCode>string</AlternateCaregiverCode>
    <SSN>xxx-xx-xxxx</SSN>
    <RehireDate>yyyy-mm-dd</RehireDate>
    <StatusID>number</StatusID>
    <TerminatedDate>dateTime</TerminatedDate>
    <EmployeeType>string</EmployeeType>
    <EmploymentTypes>
      <!-- Max Occurs Unlimited -->
      <Discipline>string</Discipline>
      <Discipline>string</Discipline>
    </EmploymentTypes>
    <EmployeeID>string</EmployeeID>
    <ApplicationDate>yyyy-mm-dd</ApplicationDate>
    <Address>
      <Street1>string</Street1>
      <Street2>string</Street2>
      <City>string</City>
      <State>string</State>
      <Zip5>number</Zip5>
      <Zip4>number</Zip4>
      <HomePhone>xxx-xxx-xxxx</HomePhone>
      <Phone2>xxx-xxx-xxxx</Phone2>
      <Phone3>xxx-xxx-xxxx</Phone3>
    </Address>
    <EmergencyContacts>
      <!-- Max Occurs 2 -->
      <EmergencyContact>
        <Name>string</Name>
        <RelationshipID>number</RelationshipID>
        <OtherRelationship>string</OtherRelationship>
        <Address>string</Address>
        <Phone1>xxx-xxx-xxxx</Phone1>
        <Phone2>xxx-xxx-xxxx</Phone2>
      </EmergencyContact>
    </EmergencyContacts>
  </CaregiverInfo>
</UpdateCaregiverDemographicsRequest>
```

```

        </EmergencyContact>
    </EmergencyContacts>
    <NotificationPreferences>
        <MethodID>number</MethodID>
        <Email>string</Email>
        <MobileOrSMS>xxx-xxx-xxxx</MobileOrSMS>
    </NotificationPreferences>
    <Language1>number</Language1>
    <Language2>number</Language2>
    <Language3>number</Language3>
    <Language4>number</Language4>
    <InactiveReason>number</InactiveReason>
    <InactiveNote>string</InactiveNote>
    <SecondaryOffices>
        <SecondaryOffice>
            <ID>string</ID>
        </SecondaryOffice>
        <SecondaryOffice>
            <ID>string</ID>
        </SecondaryOffice>
    </SecondaryOffices>
</CaregiverInfo>
</UpdateCaregiverDemographicsRequest>

```

Note: A field marked with an asterisk (*) will retain previous value when sent as null/blank. If one of those fields is configured as required, its value cannot be null/blank.

Update Caregiver Demographics Request			
Field	Description	Type	Data Type
CaregiverID	Unique ID of Caregiver in HHAExchange.	Required	Number
FirstName		Required	String
MiddleName	Field can be configured as required in Office Setup.	Situational	String
LastName		Required	String
Initials	If not specified, the first letter of First Name and Last Name are used to create an initial value.	Optional	String
Gender	Male or Female	Required	String
BirthDate	FORMAT: YYYY-MM-DD	Required	Date
AlternateCaregiverCode*		Optional	String
SSN	Format: 999-99-9999 <i>RehireDate</i> (see below) is required if there is another Caregiver with the same SSN in the system. Field can be configured as required in Office Setup.	Situational	String
RehireDate	YYYY-MM-DD – Required if attempting to create a Caregiver with an SSN that already exists in another Caregiver.	Situational	Date

Update Caregiver Demographics Request			
Field	Description	Type	Data Type
StatusID	Valid Caregiver Employee Status: "0" - Inactive "3" - On Leave "1" – Active "4" - Terminated "2" - Hold	Required	Number
	Valid Caregiver Applicant Status: "1" – Active "5" – Rejected		
TerminatedDate	Date of Terminate of Caregiver. Required only when status is terminated	Situational	Date
EmploymentTypes	List of Disciplines. At least one value is required. Either all should be Clinical or Non-Clinical Disciplines. Retrieve a list of valid values and their IDs by calling the method <i>GetDisciplines</i> documented in the <i>Reference Tables</i> section.	Required	String
EmployeeID*	Unique Provider Assigned ID	Required	String
ApplicationDate	Format: YYYY-MM-DD	Required	Date
Address Street1*	Field can be configured as required in Office Setup.	Situational	String
Address Street2*		Optional	String
Address City*	Field can be configured as required in Office Setup.	Situational	String
Address State*	Field can be configured as required in Office Setup.	Situational	String
Address Zip5	Zip5 - 5 Digit Zip Code	Required	Number
Address Zip4*	Zip4 - 4 Digit Zip Code Field can be configured as required in Office Setup.	Situational	Number
Address HomePhone*	HomePhone - 999-999-9999	Optional	String
Address Phone2*	Phone2 - 999-999-9999	Optional	String
Address Phone3*	Phone3 - 999-999-9999	Optional	String
EmergencyContacts Name*	Name	Optional	String
EmergencyContacts RelationshipID*	RelationshipID – Retrieve a list of valid relationships and their IDs by calling <i>GetEmergencyContactRelationships</i> method documented under the <i>Reference Tables</i> section.	Optional	Number
OtherRelationship	EmergencyContactsRelationshipID must be “-2” to pass a value in this field.	Optional	String
EmergencyContacts Address*	Address	Optional	String
EmergencyContacts Phone1*	Phone1 – Format: 999-999-9999	Optional	String
EmergencyContacts Phone2*	Phone2 – Format: 999-999-9999	Optional	String

Update Caregiver Demographics Request			
Field	Description	Type	Data Type
NotificationPreferences Email*	Field can be configured as required at Office Setup.	Situational	String
NotificationPreferences MobileOrSMS*	MobileOrSMS – Specify Mobile Number to receive Text Message. Format: 999-999-9999 Field can be configured as required in Office Setup.	Situational	String
Language1*	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables</i> section. Field can be configured as required in Office Setup.	Situational	Number
Language2*	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables</i> section. Field can be configured as required in Office Setup.	Situational	Number
Language3*	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables</i> section.	Optional	Number
Language4*	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables</i> section.	Optional	Number
EmployeeType	Possible Values: Applicant or Employee If not specified, the Employee value taken by default.	Required	String
SecondaryOffices ID*	ID of Secondary Office	Optional	String
InactiveReason*	Retrieve a list of Inactive Reasons by calling the method <i>GetStatusReasonsForCaregiver</i> in the <i>Reference Tables</i> section.	Optional	Number
InactiveNote*	Field can be configured as required in Office Setup.	Situational	String

The data structure for *CreateCaregiver* and *UpdateCaregiverDemographics* methods are almost same with the following exceptions.

1. When calling *UpdateCaregiverDemographics* method, always specify the CaregiverID (which uniquely identifies each Caregiver). When creating a new Caregiver, the Caregiver ID is returned along with the response data. Also, a Caregiver ID can be obtained by calling the *SearchCaregivers* method.
2. *OfficeID* and *CaregiverCode* values cannot be edited. These values are available only when a Caregiver profile is created.
3. *TerminatedDate* is required only when status is terminated.
4. When *OtherRelationship* is specified under *EmergencyContacts* section, *RelationshipID* should be -2 only.

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.

```
<UpdateCaregiverDemographicsResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <CaregiverInfo>
    <CaregiverID>Number</CaregiverID>
  </CaregiverInfo>
</UpdateCaregiverDemographicsResult>
```

Update Caregiver Demographics Result		
Field	Description	Data Type
CaregiverID	Unique ID of the Caregiver in HHAeXchange.	Number

Schedule and Visit Information

The following methods are available to access Schedule/Visit information.

Reading Schedule and Visit Information

The following methods allow users to read Schedule and Visit information from HHAX.

Method	Allows users to...
SearchVisits	Search for a list of visits matching a given search criteria. Returns a list of <i>VisitIDs</i> (which is a unique identifier of each Visit record). The ID returned by this method can be submitted to one of the methods listed below to retrieve additional information related to each Visit.
GetVisitInfoV2	Returns visit information related to the Visit specified by an ID
GetVisitBillInfo	Returns Billing information related to the Visit specified by an ID.

Writing Schedule and Visit Information

The following methods allow users to write Schedule and Visit information in HHAX.

Method	Allows users to...
CreateSchedule	Create Schedule information in HHAExchange.
UpdateSchedule	Update Schedule based on given Schedule Information in HHAExchange.
DeleteVisit	Delete Visit on given Visit Information in HHAExchange.

Interface Documentation

Web service methods related to visit information is documented in this section.

SearchVisits

Allows users to search for Visits 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.

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



```

<Authentication>
  <AppName>string</AppName>
  <AppSecret>string</AppSecret>
  <AppKey>string</AppKey>
</Authentication>
<SearchFilters>
  <StartDate>yyyy-mm-dd</StartDate>
  <EndDate>yyyy-mm-dd</EndDate>
  <PatientID>number</PatientID>
  <CaregiverID>number</CaregiverID>
  <OfficeID>number</OfficeID>
</SearchFilters>
</SearchVisitsRequest>

```

Search Visits Request			
Field	Description	Type	Data Type
StartDate	Beginning of the date range to search for. Format: YYYY-MM-DD The range between StartDate and EndDate cannot be more than 1 day when PatientID & CaregiverID not passed. If PatientID & CaregiverID passed, range between StartDate and EndDate can be more than 1 day.	Required	Date
EndDate	End of the date range to search for. Format: YYYY-MM-DD The range between StartDate and EndDate cannot be more than 1 day when PatientID & CaregiverID not passed. If PatientID & CaregiverID passed, range between StartDate and EndDate can be more than 1 day.	Required	Date
PatientID	Patient ID to search. Required if Caregiver ID & StartDate and EndDate are not specified.	Situational	Number
CaregiverID	Caregiver ID to search. Required if PatientID & StartDate and EndDate are not specified.	Situational	Number
OfficeID	OfficeID is required in below condition to search Visit. It is required with StartDate & EndDate. It is required with Patient ID / Caregiver ID	Optional	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.

```

<SearchVisitsResult xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <Visits>
    <VisitID>223569</VisitID>
    <VisitID>123965</VisitID>
  </Visits>
</SearchVisitsResult>

```

GetScheduleInfo

Retrieves schedule information of a specific visit by its ID.

Request Data

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

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

Get Schedule Info Request			
Field	Description	Type	Data Type
ID	Primary Key of the Visit record to be retrieved. Retrieve ID by calling the <i>SearchVisits</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.

```
<GetScheduleInfoResult xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <ScheduleInfo>
    <ID>223569</ID>
    <VisitDate>yyyy-mm-dd</VisitDate>
    <Patient>
      <ID>number</ID>
      <AdmissionNumber>string</AdmissionNumber>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
    </Patient>
    <Caregiver>
      <ID>number</ID>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
      <CaregiverCode>number</CaregiverCode>
      <TimeAndAttendancePIN>number</TimeAndAttendancePIN>
      <PayCode>
        <ID>number</ID>
        <Name></Name>
      </PayCode>
    </Caregiver>
  </ScheduleInfo>
</GetScheduleInfoResult>
```

```

</Caregiver>
<ScheduleStartTime>yyyy-mm-dd hh:mm</ScheduleStartTime>
<ScheduleEndTime>yyyy-mm-dd hh:mm</ScheduleEndTime>
<PrimaryBillTo>
  <Contract>
    <ID>number</ID>
    <Name>string</Name>
  </Contract>
  <ServiceCode>
    <ID>number</ID>
    <Name>string</Name>
    <BillType>string</BillType>
    <!-- Hourly | Daily | Visit -->
  </ServiceCode>
  <Hours>number</Hours>
  <Minutes>number</Minutes>
</PrimaryBillTo>
<SecondaryBillTo>
  <Contract>
    <ID>number</ID>
    <Name>string</Name>
  </Contract>
  <ServiceCode>
    <ID>number</ID>
    <Name>string</Name>
    <BillType>string</BillType>
    <!-- Hourly | Daily | Visit -->
  </ServiceCode>
  <Hours>number</Hours>
  <Minutes>number</Minutes>
</SecondaryBillTo>
  <LastModifiedDate>string</LastModifiedDate>
</ScheduleInfo>
</GetScheduleInfoResult>

```

GetVisitInfoV2

Allows users to retrieve Visit information by using the Visit ID.

Request Data

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

```

<GetVisitInfoV2 xmlns = "https://www.hhaexchange.com/apis/hhaws.integration" >
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <VisitInfo>
    <ID>int</ID>
  </VisitInfo>
</GetVisitInfoV2>

```

Get Visit Info V2 Request			
Field	Description	Type	Data Type
ID	Primary Key of the Visit record to be retrieved. Obtain ID by calling the <i>SearchVisits</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.

```
<GetVisitInfoV2Result xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <VisitInfo>
    <ID>number</ID>
    <VisitDate>yyyy-mm-dd</VisitDate>
    <Patient>
      <ID>number</ID>
      <AdmissionNumber>string</AdmissionNumber>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
    </Patient>
    <Caregiver>
      <ID>number</ID>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
      <CaregiverCode>string</CaregiverCode>
      <TimeAndAttendancePIN>string</TimeAndAttendancePIN>
      <PayCode>
        <ID>number</ID>
        <Name>string</Name>
      </PayCode>
    </Caregiver>
    <ScheduleStartTime>yyyy-mm-dd hh:mm</ScheduleStartTime>
    <ScheduleEndTime>yyyy-mm-dd hh:mm</ScheduleEndTime>
    <VisitStartTime>yyyy-mm-dd hh:mm</VisitStartTime>
    <VisitEndTime>yyyy-mm-dd hh:mm</VisitEndTime>
    <EVVStartTime>yyyy-mm-dd hh:mm</EVVStartTime>
    <EVVEndTime>yyyy-mm-dd hh:mm</EVVEndTime>
    <IsMissedVisit>string</IsMissedVisit>
    <!-- Yes | No-->
    <TTOT>
      <Hours>number</Hours>
      <Minutes>number</Minutes>
    </TTOT>
    <Verification>
      <VerifiedBy>string</VerifiedBy>
      <!-- Patient | Caregiver | Family Member | Other -->
      <Notes>string</Notes>
      <VerifiedDate>yyyy-mm-dd</VerifiedDate>
      <VerifiedTime>hh:mm</VerifiedTime>
    </Verification>
  </VisitInfo>
</GetVisitInfoV2Result>
```

```

        <SupervisorName>string</SupervisorName>
    </Verification>
    <Timesheet>
        <Required>string</Required>
        <!-- Yes | No -->
        <Approved>string</Approved>
        <!-- Yes | No -->
    </Timesheet>
    <Payroll>
        <PayrollType>string</PayrollType>
        <PayCode>string</PayCode>
        <ServiceHours>string</ServiceHours>
        <TT-OTHours>string</TT-OTHours>
        <PayUnits>string</PayUnits>
        <PayRate>string</PayRate>
    </Payroll>
    <PrebillingProblems>
        <PrebillingProblemInfo xsi:nil="true" />
        <PrebillingProblemInfo xsi:nil="true" />
    </PrebillingProblems>
    <TasksPerformed>
        <!-- Max Occurs Unlimited -->
        <Task>
            <POCTaskCode>number</POCTaskCode>
            <AdditionalValue>number</AdditionalValue>
            <Status>string</Status>
            <!--Duties Performed/Duties Refused/Duties Not Performed-->
            <Category>string</Category>
            <Duty>string</Duty>
            <Minutes>string</Minutes>
        </Task>
        <Task>
            <POCTaskCode>number</POCTaskCode>
            <AdditionalValue>number</AdditionalValue>
            <Status>string</Status>
            <Category>string</Category>
            <Duty>string</Duty>
            <Minutes>string</Minutes>
        </Task>
    </TasksPerformed>
    <VisitType>string</VisitType>
    <ClockInEvvtType>string</ClockInEvvtType>
    <ClockOutEvvtType>string</ClockOutEvvtType>
    <ScheduleDuration>
        <ScheduleDurationHours>int</ScheduleDurationHours>
        <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
    </ScheduleDuration>
    <BilledAmount>number</BilledAmount>
    <BudgetNumber>number</BudgetNumber>
    <ActualHours>string</ActualHours>
    <ActualHoursRounded>string</ActualHoursRounded>
    <PayHours>string</PayHours>
    <PayHoursUnrounded>string</PayHoursUnrounded>
    <AdjustedHours>string</AdjustedHours>
    <TimeZone>string</TimeZone>
</VisitInfo>
</GetVisitInfoV2Result>

```

Get Visit Info V2 Result		
Field	Description	Data Type
ID	Primary Key of the Visit record to be retrieved. Obtain ID by calling the <i>SearchVisits</i> method described earlier.	Number
VisitDate	Visit/Schedule Date Format: YYYY-MM-DD	Date
Patient	Retrieve Patient details including Patient ID, Admission Number, First Name and LastName.	
Caregiver	Retrieve Caregiver details including Caregiver ID, FirstName, LastName, CaregiverCode, TimeAndAttendancePIN, PayCodeID and PayCode Name.	
ScheduleStartTime	Schedule Start Time Format: yyyy-mm-dd hh:mm	String
ScheduleEndTime	Schedule End Time Format: yyyy-mm-dd hh:mm	String
VisitStartTime	Visit Start Time Format: yyyy-mm-dd hh:mm	String
VisitEndTime	Visit End Time Format: yyyy-mm-dd hh:mm	String
EVVStartTime	EVV Start Time Format: yyyy-mm-dd hh:mm	String
EVVEndTime	EVV End Time Format: yyyy-mm-dd hh:mm	String
IsMissedVisit	Visit Missed or Not. Value: YES/NO	String
TTOT	Approved Travel Time Hours and Minutes .	
Verification	Show Verification details including VerifiedBy, Notes, VerifiedDate, VerifiedTime, SupervisorName.	
Timesheet	TimeSheet Required: YES/NO TimeSheet Approved: YES/NO	
Payroll		
PayrollType	Payroll Type	String

Get Visit Info V2 Result		
Field	Description	Data Type
PayCode	Pay Code	String
ServiceHours	Service Hours	String
TT-OTHours	TT/OTHours	String
PayUnits	Pay Units	String
PayRate	Pay Rate	String
PrebillingProblems		
PrebillingProblemInfo	List of Prebilling Problems	String
TasksPerformed	Retrieve Details Duty task including POCTaskCode, AdditionalValue, Status (Duties Performed/ Duties Refused/ Duties Not Performed), Category Name, Duty, Minutes.	
VisitType	VisitType	String
ScheduleDuration	Schedule Duration	Number
ScheduleDurationHours	Schedule Duration Hours Format: HH	Number
ScheduleDurationMinutes	Schedule Duration Minutes Format: MM	Number
ClockInEvvType	Clock In EVV Type	String
ClockOutEvvType	Clock Out EVV Type	String
BilledAmount	It will return TotalBillingAmount only if service code is dollar based service code for that visit.	Number

Get Visit Info V2 Result		
Field	Description	Data Type
Budget Number	It will return budget number value.	Number
ActualHours	It will return ActualHours value	String
ActualHoursRounded	It will return ActualHoursRounded value	String
PayHours	It will return PayHours value	String
PayHoursUnrounded	It will return PayHoursUnrounded value	String
AdjustedHours	It will return AdjustedHours value. Format: HHMM	String
TimeZone	TimeZone	String

GetVisitInfoV3

Allows users to retrieve Visit information by using the Visit ID.

Request Data

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

```
<GetVisitInfoV2 xmlns = "https://www.hhaexchange.com/apis/hhaws.integration" >
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <VisitInfo>
    <ID>int</ID>
  </VisitInfo>
</GetVisitInfoV2>
```


Get Visit Info V3 Request			
Field	Description	Type	Data Type
ID	Primary Key of the Visit record to be retrieved. Obtain ID by calling the <i>SearchVisits</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.

```
<GetVisitInfoV2Result xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <VisitInfo>
    <ID>number</ID>
    <VisitDate>yyyy-mm-dd</VisitDate>
    <Patient>
      <ID>number</ID>
      <AdmissionNumber>string</AdmissionNumber>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
    </Patient>
    <Caregiver>
      <ID>number</ID>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
      <CaregiverCode>string</CaregiverCode>
      <TimeAndAttendancePIN>string</TimeAndAttendancePIN>
      <PayCode>
        <ID>number</ID>
        <Name>string</Name>
      </PayCode>
    </Caregiver>
    <ScheduleStartTime>yyyy-mm-dd hh:mm</ScheduleStartTime>
    <ScheduleEndTime>yyyy-mm-dd hh:mm</ScheduleEndTime>
    <VisitStartTime>yyyy-mm-dd hh:mm</VisitStartTime>
    <VisitEndTime>yyyy-mm-dd hh:mm</VisitEndTime>
    <EVVStartTime>yyyy-mm-dd hh:mm</EVVStartTime>
    <EVVEndTime>yyyy-mm-dd hh:mm</EVVEndTime>
    <IsMissedVisit>string</IsMissedVisit>
    <!-- Yes | No-->
    <TTOT>
      <Hours>number</Hours>
      <Minutes>number</Minutes>
    </TTOT>
    <Verification>
      <VerifiedBy>string</VerifiedBy>
      <!-- Patient | Caregiver | Family Member | Other -->
      <Notes>string</Notes>
      <VerifiedDate>yyyy-mm-dd</VerifiedDate>
      <VerifiedTime>hh:mm</VerifiedTime>
    </Verification>
  </VisitInfo>
</GetVisitInfoV2Result>
```

```

        <SupervisorName>string</SupervisorName>
    </Verification>
    <Timesheet>
        <Required>string</Required>
        <!-- Yes | No -->
        <Approved>string</Approved>
        <!-- Yes | No -->
    </Timesheet>
    <Payroll>
        <PayrollType>string</PayrollType>
        <PayCode>string</PayCode>
        <ServiceHours>string</ServiceHours>
        <TT-OTHours>string</TT-OTHours>
        <PayUnits>string</PayUnits>
        <PayRate>string</PayRate>
    </Payroll>
    <PrebillingProblems>
        <PrebillingProblemInfo xsi:nil="true" />
        <PrebillingProblemInfo xsi:nil="true" />
    </PrebillingProblems>
    <TasksPerformed>
        <Task>
            <POCTaskCode>number</POCTaskCode>
            <AdditionalValue>number</AdditionalValue>
            <Status>string</Status>
            <!--Duties Performed/Duties Refused/Duties Not Performed-->
            <Category>string</Category>
            <Duty>string</Duty>
            <Minutes>string</Minutes>
        </Task>
        <Task>
            <POCTaskCode>number</POCTaskCode>
            <AdditionalValue>number</AdditionalValue>
            <Status>string</Status>
            <Category>string</Category>
            <Duty>string</Duty>
            <Minutes>string</Minutes>
        </Task>
    </TasksPerformed>
    <VisitType>string</VisitType>
    <ClockInEvvtType>string</ClockInEvvtType>
    <ClockOutEvvtType>string</ClockOutEvvtType>
    <ScheduleDuration>
        <ScheduleDurationHours>int</ScheduleDurationHours>
        <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
    </ScheduleDuration>
    <BilledAmount>number</BilledAmount>
    <BudgetNumber>number</BudgetNumber>
    <ActualHours>string</ActualHours>
    <ActualHoursRounded>string</ActualHoursRounded>
    <PayHours>string</PayHours>
    <PayHoursUnrounded>string</PayHoursUnrounded>
    <AdjustedHours>string</AdjustedHours>
    <TimeZone>string</TimeZone>
    <SplitVisitID>long</SplitVisitID>
    <OriginalVisitID>long</OriginalVisitID>
    <SuggestedStartTime>string</SuggestedStartTime>
    <SuggestedEndTime>string</SuggestedEndTime>
</VisitInfo>
</GetVisitInfoV3Result>

```

Get Visit Info V3 Result		
Field	Description	Data Type
ID	Primary Key of the Visit record to be retrieved. Obtain ID by calling the <i>SearchVisits</i> method described earlier.	Number
VisitDate	Visit/Schedule Date Format: YYYY-MM-DD	Date
Patient	Retrieve Patient details including Patient ID, Admission Number, First Name and LastName.	
Caregiver	Retrieve Caregiver details including Caregiver ID, FirstName, LastName, CaregiverCode, TimeAndAttendancePIN, PayCodeID and PayCode Name.	
ScheduleStartTime	Schedule Start Time Format: yyyy-mm-dd hh:mm	String
ScheduleEndTime	Schedule End Time Format: yyyy-mm-dd hh:mm	String
VisitStartTime	Visit Start Time Format: yyyy-mm-dd hh:mm	String
VisitEndTime	Visit End Time Format: yyyy-mm-dd hh:mm	String
EVVStartTime	EVV Start Time Format: yyyy-mm-dd hh:mm	String
EVVEndTime	EVV End Time Format: yyyy-mm-dd hh:mm	String
IsMissedVisit	Visit Missed or Not. Value: YES/NO	String
TTOT	Approved Travel Time Hours and Minutes .	
Verification	Show Verification details including VerifiedBy, Notes, VerifiedDate, VerifiedTime, SupervisorName.	
Timesheet	TimeSheet Required: YES/NO TimeSheet Approved: YES/NO	
Payroll		
PayrollType	Payroll Type	String

Get Visit Info V3 Result		
Field	Description	Data Type
PayCode	Pay Code	String
ServiceHours	Service Hours	String
TT-OTHours	TT/OTHours	String
PayUnits	Pay Units	String
PayRate	Pay Rate	String
PrebillingProblems		
PrebillingProblemInfo	List of Prebilling Problems	String
TasksPerformed	Retrieve Details Duty task including POCTaskCode, AdditionalValue, Status (Duties Performed/ Duties Refused/ Duties Not Performed), Category Name, Duty, Minutes.	
VisitType	VisitType	String
ScheduleDuration	Schedule Duration	Number
ScheduleDurationHours	Schedule Duration Hours Format: HH	Number
ScheduleDurationMinutes	Schedule Duration Minutes Format: MM	Number
ClockInEvvType	Clock In EVV Type	String
ClockOutEvvType	Clock Out EVV Type	String
BilledAmount	It will return TotalBillingAmount only if service code is dollar based service code for that visit.	Number

Get Visit Info V3 Result		
Field	Description	Data Type
Budget Number	It will return budget number value.	Number
ActualHours	It will return ActualHours value	String
ActualHoursRounded	It will return ActualHoursRounded value	String
PayHours	It will return PayHours value	String
PayHoursUnrounded	It will return PayHoursUnrounded value	String
AdjustedHours	It will return AdjustedHours value. Format: HHMM	String
TimeZone	TimeZone	String
SplitVisitID		Number
OriginalVisitID		Number
SuggestedStartTime	Time Format: YYYY-MM-DD HH:MM	String
SuggestedEndTime	Time Format: YYYY-MM-DD HH:MM	String

GetVisitBillInfo

Allows users to retrieve Billing information by using the Visit ID.

Request Data

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

```

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

```

Get Visit Bill Info Request			
Field	Description	Type	Data Type
ID	Primary Key of the Visit record to be retrieved. Obtain this ID by calling the <i>SearchVisits</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.

```
<GetVisitBillInfoResult xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <VisitBillInfo>
    <ID>223569</ID>
    <VisitDate>yyyy-mm-dd</VisitDate>
    <Patient>
      <ID>number</ID>
      <AdmissionNumber>string</AdmissionNumber>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
    </Patient>
    <Caregiver>
      <ID>number</ID>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
      <CaregiverCode>number</CaregiverCode>
      <TimeAndAttendancePIN>string</TimeAndAttendancePIN>
      <PayCode>
        <ID>number</ID>
        <Name></Name>
      </PayCode>
    </Caregiver>
    <ScheduleStartTime>yyyy-mm-dd hh:mm</ScheduleStartTime>
    <ScheduleEndTime>yyyy-mm-dd hh:mm</ScheduleEndTime>
    <VisitStartTime>yyyy-mm-dd hh:mm</VisitStartTime>
    <VisitEndTime>yyyy-mm-dd hh:mm</VisitEndTime>
    <IsMissedVisit>string</IsMissedVisit>
    <!-- Yes | No-->
    <TTOT>
      <Hours>number</Hours>
      <Minutes>number</Minutes>
    </TTOT>
    <PrimaryBillTo>
      <Contract>
        <ID>number</ID>
        <Name>string</Name>
      </Contract>
      <ServiceCode>
        <ID>number</ID>
        <Name>string</Name>
        <BillType>string</BillType>
        <!-- Hourly | Daily | Visit -->
      </ServiceCode>
      <AdjustmentMinutes>number</AdjustmentMinutes>
      <IsBilled>string</IsBilled>
      <!-- Yes | No -->
      <BilledRate>money</BilledRate>
      <BilledMinutes>number</BilledMinutes>
      <BilledAmount>money</BilledAmount>
    </PrimaryBillTo>
  </VisitBillInfo>
</GetVisitBillInfoResult>
```

```

        <Invoice>
            <BatchNumber>string</BatchNumber>
            <BatchID>number</BatchID>
            <InvoiceNumber>string</InvoiceNumber>
            <InvoiceID>number</InvoiceID>
            <InvoiceDate>yyyy-mm-dd hh:mm</InvoiceDate>
        </Invoice>
    </PrimaryBillTo>
    <SecondaryBillTo>
        <Contract>
            <ID>number</ID>
            <Name>string</Name>
        </Contract>
        <ServiceCode>
            <ID>number</ID>
            <Name>string</Name>
            <BillType>string</BillType>
            <!-- Hourly | Daily | Visit -->
        </ServiceCode>
        <AdjustmentMinutes>number</AdjustmentMinutes>
        <IsBilled>string</IsBilled>
        <!-- Yes | No -->
        <BilledRate>money</BilledRate>
        <BilledMinutes>number</BilledMinutes>
        <BilledAmount>money</BilledAmount>
        <Invoice>
            <BatchNumber>string</BatchNumber>
            <BatchID>number</BatchID>
            <InvoiceNumber>string</InvoiceNumber>
            <InvoiceID>number</InvoiceID>
            <InvoiceDate>yyyy-mm-dd hh:mm</InvoiceDate>
        </Invoice>
    </SecondaryBillTo>
</VisitBillInfo>
</GetVisitBillInfoResult>

```

GetVisitBillInfoV2

Allows users to retrieve Billing information by using the Visit ID.

Request Data

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

```

<GetVisitBillInfoV2Request xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
    <Authentication>
        <AppName>string</AppName>
        <AppSecret>string</AppSecret>
        <AppKey>string</AppKey>
    </Authentication>
    <VisitBillInfo>
        <ID>Number</ID>
    </VisitBillInfo>
</GetVisitBillInfoV2Request>

```

Get Visit Bill Info V2 Request			
Field	Description	Type	Data Type
ID	Primary Key of the Visit record to be retrieved. Obtain this ID by calling the <i>SearchVisits</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.

```
<GetVisitBillinfov2Result xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <VisitBillinfov2>
    <ID>223569</ID>
    <VisitDate>yyyy-mm-dd</VisitDate>
    <Patient>
      <ID>number</ID>
      <AdmissionNumber>string</AdmissionNumber>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
    </Patient>
    <Caregiver>
      <ID>number</ID>
      <FirstName>string</FirstName>
      <LastName>string</LastName>
      <CaregiverCode>number</CaregiverCode>
      <TimeAndAttendancePIN>string</TimeAndAttendancePIN>
      <PayCode>
        <ID>number</ID>
        <Name></Name>
      </PayCode>
    </Caregiver>
    <ScheduleStartTime>yyyy-mm-dd hh:mm</ScheduleStartTime>
    <ScheduleEndTime>yyyy-mm-dd hh:mm</ScheduleEndTime>
    <VisitStartTime>yyyy-mm-dd hh:mm</VisitStartTime>
    <VisitEndTime>yyyy-mm-dd hh:mm</VisitEndTime>
    <IsMissedVisit>string</IsMissedVisit>
    <!-- Yes | No-->
    <MissedVisitReasonID>int</MissedVisitReasonID>
    <TTOT>
      <Hours>number</Hours>
      <Minutes>number</Minutes>
    </TTOT>
    <PrimaryBillTo>
      <Contract>
        <ID>number</ID>
        <Name>string</Name>
      </Contract>
      <ServiceCode>
        <ID>number</ID>
        <Name>string</Name>
        <BillType>string</BillType>
        <!-- Hourly | Daily | Visit -->
      </ServiceCode>
      <AdjustmentMinutes>number</AdjustmentMinutes>
      <IsBilled>string</IsBilled>
      <!-- Yes | No -->
      <BilledRate>money</BilledRate>
      <BilledMinutes>number</BilledMinutes>
      <BilledAmount>money</BilledAmount>
    </PrimaryBillTo>
  </VisitBillinfov2>
</GetVisitBillinfov2Result>
```

```

        <Invoice>
            <BatchNumber>string</BatchNumber>
            <BatchID>number</BatchID>
            <InvoiceNumber>string</InvoiceNumber>
            <InvoiceID>number</InvoiceID>
            <InvoiceDate>yyyy-mm-dd hh:mm</InvoiceDate>
        </Invoice>
    </PrimaryBillTo>
    <SecondaryBillTo>
        <Contract>
            <ID>number</ID>
            <Name>string</Name>
        </Contract>
        <ServiceCode>
            <ID>number</ID>
            <Name>string</Name>
            <BillType>string</BillType>
            <!-- Hourly | Daily | Visit -->
        </ServiceCode>
        <AdjustmentMinutes>number</AdjustmentMinutes>
        <IsBilled>string</IsBilled>
        <!-- Yes | No -->
        <BilledRate>money</BilledRate>
        <BilledMinutes>number</BilledMinutes>
        <BilledAmount>money</BilledAmount>
        <Invoice>
            <BatchNumber>string</BatchNumber>
            <BatchID>number</BatchID>
            <InvoiceNumber>string</InvoiceNumber>
            <InvoiceID>number</InvoiceID>
            <InvoiceDate>yyyy-mm-dd hh:mm</InvoiceDate>
        </Invoice>
    </SecondaryBillTo>
</VisitBillInfo>
</GetVisitBillInfoV2Result>

```

CreateSchedule

Allows users to create Non-Skilled and Skilled Schedule/Visit in HHAExchange for a given Patient.

Request Data

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

```

<CreateScheduleRequest xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
    <Authentication>
        <AppName>string</AppName>
        <AppSecret>string</AppSecret>
        <AppKey>string</AppKey>
    </Authentication>
    <ScheduleInfo>
        <!-- Patient Identification -->
        <PatientID>number</PatientID>
        <AdmissionID>string</AdmissionID>
        <PatientFirstName>string</PatientFirstName>
        <PatientLastName>string</PatientLastName>
        <PatientDateOfBirth>yyyy-mm-dd</PatientDateOfBirth>
    </ScheduleInfo>
</CreateScheduleRequest>

```

```

<ScheduleType>string</ScheduleType>
<VisitType>string</VisitType>
<ScheduleDurationHours>int</ScheduleDurationHours>
<ScheduleDurationMinutes>int</ScheduleDurationMinutes>
<!-- Non-Skilled/Skilled -->
<VisitDate>yyyy-mm-dd</VisitDate>
<ScheduleStartTime>hhmm</ScheduleStartTime>
<ScheduleEndTime>hhmm</ScheduleEndTime>
<IsScheduleTemporary>string</IsScheduleTemporary>
<!-- Yes/No-->
<!-- Caregiver Identification -->
<CaregiverID>number</CaregiverID>
<CaregiverCode>string</CaregiverCode>
<CaregiverFirstName>string</CaregiverFirstName>
<CaregiverLastName>string</CaregiverLastName>
<CaregiverDateOfBirth>yyyy-mm-dd</CaregiverDateOfBirth>
<PayCodeID>number</PayCodeID>
<PayCodeName>string</PayCodeName>
<IsCaregiverTemporary>string</IsCaregiverTemporary>
<!-- Yes/No-->
<PrimaryBillTo>
    <ContractID>number</ContractID>
    <ContractName>string</ContractName>
    <ServiceCodeID>number</ServiceCodeID>
    <ServiceCodeName>string</ServiceCodeName>
    <Hours>number</Hours>
    <Minutes>number</Minutes>
    <BudgetNumber>number</BudgetNumber>
</PrimaryBillTo>
<SecondaryBillTo>
    <ContractID>number</ContractID>
    <ContractName>string</ContractName>
    <ServiceCodeID>number</ServiceCodeID>
    <ServiceCodeName>string</ServiceCodeName>
    <Hours>number</Hours>
    <Minutes>number</Minutes>
</SecondaryBillTo>
</ScheduleInfo>
</CreateScheduleRequest>

```

Create Schedule Request			
Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAExchange.	Situational	Number
AdmissionID	Required If "PatientID" is not given. Patient Admission ID as seen in HHAX.	Situational	String
PatientFirstName	Patient's First Name. Required If "PatientID" and "AdmissionID" is not given.	Situational	String
PatientLastName	Patient's Last Name. Required If "PatientID" and "AdmissionID" is not given.	Situational	String
PatientDateOfBirth	Patient's Date of Birth. Required If "PatientID" and "AdmissionID" is not given. YYYY-MM-DD	Situational	Date

Create Schedule Request			
Field	Description	Type	Data Type
ScheduleType	Possible values: Non-Skilled or Skilled	Required	String
VisitDate	Visit/Schedule Date Format: YYYY-MM-DD	Required	Date
ScheduleStartTime	Schedule Start time as per Agency/Office Timezone. Format: HHMM Start time must be “0000” if Visit Type is “Daily Variable”, “Weekly Variable” or “No Schedule”.	Required	Time
ScheduleEndTime	Schedule Start End as per Agency/Office Timezone. Format: HHMM End time must be “0000” if Visit Type is “Daily Variable”, “Weekly Variable” or “No Schedule”.	Required	Time
IsScheduleTemporary	Possible values: “ Yes ” or “ No ”	Optional	String
CaregiverID	Unique ID of the Caregiver in HHAExchange.	Situational	Number
CaregiverCode	Caregiver Code in HHAExchange. Required If “CaregiverID” is not given.	Situational	String
CaregiverFirstName	Caregiver’s First Name. Required If “CaregiverID” and “CaregiverCode” is not given.	Situational	String
CaregiverLastName	Caregiver’s Last Name. Required If “CaregiverID” and “CaregiverCode” is not given.	Situational	String
CaregiverDateOfBirth	Caregiver’s Date of Birth. Required If “CaregiverID” and “CaregiverCode” is not given. Format: YYYY-MMDD	Situational	Date
PayCodeID	Retrieve a list of <i>Pay Rate Code</i> by calling the method GetCaregiverPayCodes for given <i>CaregiverID</i> documented in the <i>Caregiver Information</i> section. <i>Note: If not given, then the system takes the Caregiver’s Disciplines with Agency “Default Pay Code” as configured in “Reference Table” (if any).</i>	Situational	Number
PayCodeName	Existing valid Pay Code in HHAExchange. Required If “PayCodeID” is not given. <i>Note: If not given, then the system takes the Caregiver’s Disciplines with Agency “Default Pay Code” as configured in “Reference Table” (if any).</i>	Situational	String
IsCaregiverTemporary	Possible values: “ Yes ” or “ No ”	Optional	String
PrimaryBillToContractID	Retrieve a list of <i>Contracts</i> by calling the method GetPatientContracts for given Patient ID documented in the <i>Patient Information</i> section. <i>Note: If not given, then the Patient’s “Primary Contract” is considered by default (if any).</i>	Situational	Number

Create Schedule Request			
Field	Description	Type	Data Type
PrimaryBillTo ContractName	Existing valid Contract Name in HHAExchange. Required If “ContractID” is not given. <i>Note: If not given, then the Patient’s “Primary Contract” is considered by default (if any).</i>	Situational	String
PrimaryBillTo ServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method GetContractServiceCode documented in the <i>Reference Tables</i> section. <i>Note: If not given, then the “Default Service Code” of the Primary Contract is considered (if any).</i>	Situational	Number
PrimaryBillTo ServiceCodeName	Existing valid Service Code in HHAExchange. Required If “ServiceCodeID” is not given. <i>Note: If not given, then the “Default Service Code” of the Primary Contract is considered by default (if any).</i>	Situational	String
PrimaryBillTo Hours	Format: HH Required if Visit Type is “Daily Fixed”	Situational	Number
PrimaryBillTo Minutes	Format: MM Required if Visit Type is “Daily Fixed”	Situational	Number
SecondaryBillTo ContractID	Retrieve a list of <i>Contracts</i> by calling the method GetPatientContracts for given Patient ID documented in the <i>Patient Information</i> section. Possible if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected.	Optional	Number
SecondaryBillTo ContractName	Existing valid Contract Name in HHAExchange. Required If “ContractID” is not given.	Situational	String
SecondaryBillTo ServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method GetContractServiceCodes documented in the <i>Reference Tables</i> section. Required if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected.	Situational	Number
SecondaryBillTo ServiceCodeName	Existing valid Service Code exists in HHAExchange. Required If “ServiceCodeID” is not given.	Situational	String
SecondaryBillTo Hours	Hours: HH Required if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected and SecondaryBillTo service code is selected.	Situational	Number
SecondaryBillTo Minutes	Minues: MM Required if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected and SecondaryBillTo service code is selected.	Situational	Number
VisitType	It will allow Variable Schedule Types that exist in the HHAExchange office configuration. Possible Values: • Daily Variable • Weekly Variable	Optional	String

Create Schedule Request			
Field	Description	Type	Data Type
	No Schedule Daily Fixed If not specified, the “Daily Fixed” value is set by default.		
ScheduleDurationHours	Format: HH Required if Visit Type is “Daily Variable”, “Weekly Variable” or “No Schedule”.	Situational	Number
ScheduleDurationMinutes	Format: MM Required if Visit Type is “Daily Variable”, “Weekly Variable” or “No Schedule”.	Situational	Number
BudgetNumber	Required for UPR Contract if Enable Budget Number flag marked as True . Possible values:1 to 5	Situational	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.

```
<CreateScheduleResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>number</ErrorID>
      <ErrorMessage>string</ErrorMessage>
    </ErrorInfo>
  </Result>
  <PatientID>number</PatientID>
  <VisitID>number</VisitID>
</CreateScheduleResult>
```

Create Schedule Result		
Field	Description	Data Type
PatientID	Unique ID of the Patient in HHAExchange.	Number
VisitID	Unique ID of the Visit/Schedule created in HHAExchange.	Number

CreateWeeklyVariable

Allows users to create weekly variable parameters

Response Data

```
<CreateWeeklyVariable xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientWeeklyVariable>
    <PatientID>int</PatientID>
    <ContractID>int</ContractID>
    <ServiceCodeID>int</ServiceCodeID>
```

```

    <weeklyHours>int</weeklyHours>
    <weeklyMinutes>int</weeklyMinutes>
    <weekStartDate>date</weekStartDate>
    <weekEndDate>date</weekEndDate>
  </PatientWeeklyVariable>
</CreateWeeklyVariable>

```

Create Weekly Variable Request			
Field	Description	Type	Data Type
PatientID	Unique ID of the Patient in HHAExchange	Required	Number
ContractID	Retrieve a list of <i>Contracts</i> by calling the method <i>GetPatientContracts</i> for given Patient ID documented in the <i>Patient Information</i> section. <i>Note: If not given, then the Patient's "Primary Contract" is considered by default (if any).</i>	Optional	Number
ServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetContractServiceCodes</i> documented in the <i>Reference Tables</i> section. <i>Note: If not given, then the "Default Service Code" of the Primary Contract is considered (if any).</i>	Optional	Number
WeeklyHours	Format: HH	Optional	Number
WeeklyMinutes	Format: MM	Optional	Number
WeekStartDate	Format: YYYY-MM-DD	Optional	Date
WeekEndDate	Format: YYYY-MM-DD	Optional	Date

Response Data

```

<CreateWeeklyVariableResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreateWeeklyVariableResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage/>
      </ErrorInfo>
      <Details/>
    </Result>
    <Message>Weekly Variable added Successfully</Message>
    <WeeklyVariableID>477</WeeklyVariableID>
  </CreateWeeklyVariableResult>
</CreateWeeklyVariableResponse>

```

UpdateWeeklyVariable

Allows users to update weekly variable parameters

Request Data

```

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

```

```

<Authentication>
  <AppName>string</AppName>
  <AppSecret>string</AppSecret>
  <AppKey>string</AppKey>
</Authentication>
  <PatientWeeklyVariable>
    <WeeklyVariableID>int</WeeklyVariableID>
    <weeklyHours>int</weeklyHours>
    <WeeklyMinutes>int</WeeklyMinutes>
  </PatientWeeklyVariable>
</UpdateWeeklyVariable>

```

Update Weekly Variable Request			
Field	Description	Type	Data Type
WeeklyVariableID	Unique ID of the weekly variable in HHAExchange	Required	Number
WeeklyHours	Format: HH	Optional	Number
WeeklyMinutes	Format: MM	Optional	Number

Response Data

```

<UpdateWeeklyVariableResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdateWeeklyVariableResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage/>
      </ErrorInfo>
      <Details/>
    </Result>
    <Message>Weekly Variable updated successfully</Message>
    <WeeklyVariableID>477</WeeklyVariableID>
  </UpdateWeeklyVariableResult>
</UpdateWeeklyVariableResponse>

```

UpdateSchedule

Allows users to update Non-Skilled and Skilled Schedule/Visit in HHAX for a selected Visit ID.

Request Data

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

```

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

```



```

        <AppKey>string</AppKey>
    </Authentication>
    <ScheduleInfo>
        <VisitID>number</VisitID>
        <VisitType>string</VisitType>
        <ScheduleDurationHours>int</ScheduleDurationHours>
        <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
        <ScheduleStartTime>hhmm</ScheduleStartTime>
        <ScheduleEndTime>hhmm</ScheduleEndTime>
        <IsScheduleTemporary>string</IsScheduleTemporary>
        <!-- Yes/No-->
        <!-- Caregiver Identification -->
        <CaregiverID>number</CaregiverID>
        <CaregiverCode>string</CaregiverCode>
        <CaregiverFirstName>string</CaregiverFirstName>
        <CaregiverLastName>string</CaregiverLastName>
        <CaregiverDateOfBirth>yyyy-mm-dd</CaregiverDateOfBirth>
        <PayCodeID>number</PayCodeID>
        <PayCodeName>string</PayCodeName>
        <IsCaregiverTemporary>string</IsCaregiverTemporary>
        <!-- Yes/No-->
        <PrimaryBillTo>
            <ContractID>number</ContractID>
            <ContractName>string</ContractName>
            <ServiceCodeID>number</ServiceCodeID>
            <ServiceCodeName>string</ServiceCodeName>
            <Hours>number</Hours>
            <Minutes>number</Minutes>
            <BudgetNumber>number</BudgetNumber>
        </PrimaryBillTo>
        <SecondaryBillTo>
            <ContractID>number</ContractID>
            <ContractName>string</ContractName>
            <ServiceCodeID>number</ServiceCodeID>
            <ServiceCodeName>string</ServiceCodeName>
            <Hours>number</Hours>
            <Minutes>number</Minutes>
        </SecondaryBillTo>
        <ScheduleBillInfoEditReasonsID>number</ScheduleBillInfoEditReasonsID>
        <Note>string</Note>
        <IsUpdateOnlyBilledAmount>string</IsUpdateOnlyBilledAmount>
        <BilledAmount>number</BilledAmount>
    </ScheduleInfo>
</UpdateScheduleRequest>

```

Update Schedule Request			
Field	Description	Type	Data Type
VisitID	Unique ID of the Visit/Schedule in HHAeXchange.	Required	Date
ScheduleStartTime	Schedule Start time as per Agency/Office Timezone. Format: HHMM Start time must be "0000" if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Time
ScheduleEndTime	Schedule Start End as per Agency/Office Timezone. Format: HHMM	Required	Time

Update Schedule Request			
Field	Description	Type	Data Type
	Start time must be "0000" if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".		
IsScheduleTemporary	Possible values: "Yes" or "No"	Optional	String
CaregiverID	Unique ID of the Caregiver in HHAeXchange.	Situational	Number
CaregiverCode	Caregiver Code in HHAeXchange. Required If "CaregiverID" is not given.	Situational	String
CaregiverFirstName	Caregiver's First Name. Required If "CaregiverID" and "CaregiverCode" is not given.	Situational	String
CaregiverLastName	Caregiver's Last Name. Required If "CaregiverID" and "CaregiverCode" is not given.	Situational	String
CaregiverDateOfBirth	Caregiver's Date of Birth. Required If "CaregiverID" and "CaregiverCode" is not given. Format: YYYY-MMDD	Situational	Date
PayCodeID	Retrieve a list of <i>Pay Rate Code</i> by calling the method GetCaregiverPayCodes for given <i>CaregiverID</i> documented in the <i>Caregiver Information</i> section. <i>Note: If not provided, then the Caregiver's Disciplines with Agency "Default Pay Code" are considered as configured in "Reference Table" (if any).</i>	Situational	Number
PayCodeName	Existing valid Pay Code in HHAeXchange. Required If "PayCodeID" is not given. <i>Note: If not provided, then the Caregiver's Disciplines with Agency "Default Pay Code" are considered as configured in "Reference Table" (if any).</i>	Situational	String
IsCaregiverTemporary	Possible values: "Yes" or "No"	Optional	String
PrimaryBillToContractID	Retrieve a list of <i>Contracts</i> by calling the method GetPatientContracts for given Patient ID documented in the <i>Patient Information</i> section. <i>Note: If not given, then the Patient's "Primary Contract" is considered by default (if any).</i>	Situational	Number
PrimaryBillToContractName	Existing valid Contract Name in HHAeXchange. Required If "ContractID" is not given. <i>Note: If not provided, then the Patient's "Primary Contract" is considered by default (if any).</i>	Situational	String
PrimaryBillToServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method GetContractServiceCode documented in the <i>Reference Tables</i> section. <i>Note: If not provided, then the "Default Service Code" of the Primary Contract is considered by default (if any).</i>	Situational	Number

Update Schedule Request			
Field	Description	Type	Data Type
PrimaryBillToServiceCodeName	Existing valid Service Code in HHAeXchange. Required If “ ServiceCodeID ” is not given. <i>Note: If not provided, then the “Default Service Code” of the Primary Contract is considered by default (if any).</i>	Situational	String
PrimaryBillToHours	Format: HH Required if Visit Type is “Daily Fixed”	Situational	Number
PrimaryBillToMinutes	Format: MM Required if Visit Type is “Daily Fixed”	Situational	Number
SecondaryBillToContractID	Retrieve a list of <i>Contracts</i> by calling the method GetPatientContracts for given Patient ID documented in the <i>Patient Information</i> section. Possible if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected.	Optional	Number
SecondaryBillToContractName	Existing valid Contract Name in HHAeXchange. Required If “ ContractID ” is not given.	Situational	String
SecondaryBillToServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the GetContractServiceCode method documented in the <i>Reference Tables</i> section. Required if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected.	Situational	Number
SecondaryBillToServiceCodeName	Existing valid Service Code in HHAeXchange. Required If “ ServiceCodeID ” is not given.	Situational	String
SecondaryBillToHours	Format: HH Required if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected and SecondaryBillTo service code is selected.	Situational	Number
SecondaryBillToMinutes	Format: MM Required if Visit Type is “Daily Fixed” and PrimaryBillTo contract is private payer and SecondaryBillTo contract is selected and SecondaryBillTo service code is selected.	Situational	Number
ScheduleBillInfoEditReasonsID	Retrieve a list of Schedule Bill Info Edit Reasons by calling the GetScheduleBillInfoEditReasons method documented in the <i>Reference Tables</i> section.	Situational	Number
Note	Comments	Situational	String
VisitType	It will allow Variable Schedule Types that exist in the HHAeXchange office configuration. Possible Values: • Daily Variable • Weekly Variable • No Schedule • Daily Fixed If not specified, the “Daily Fixed” value is set by default.	Optional	String

Update Schedule Request			
Field	Description	Type	Data Type
ScheduleDuration Hours	Format: HH Required if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Situational	Number
ScheduleDuration Minutes	Format: MM Required if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Situational	Number
IsUpdateOnlyBilled Amount	Possible values: "Yes" or "No" Below flow works only for UPR or Internal patient 1. If IsUpdateOnlyBilledAmount is "Yes" and provided service code is dollar-based service code then it will update only billed amount. 2. If IsUpdateOnlyBilledAmount is "No" and provided service code is dollar-based service code then it will update schedule and billed amount. 3. If IsUpdateOnlyBilledAmount is "No" and provided service code is not dollar-based service code or regular service code then its works as per the existing flow and will update schedule only, it will not update the billed amount.	Optional	String
BilledAmount	If IsUpdateOnlyBilledAmount "Yes" then Billed Amount is required	Situational	Number
BudgetNumber	Required for UPR Contract if Enable Budget Number flag marked as True. Possible values:1 to 5	Situational	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.

```
<UpdateScheduleResult
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>number</ErrorID>
      <ErrorMessage>string</ErrorMessage>
    </ErrorInfo>
  </Result>
  <PatientID>number</PatientID>
  <VisitID>number</VisitID>
</UpdateScheduleResult>
```

Update Schedule Result		
Field	Description	Data Type
PatientID	Unique ID of the Patient in HHAeXchange.	Number
VisitID	Unique ID of the Visit/Schedule created in HHAeXchange.	Number

DeleteVisit

Allows users to delete Visit information by using the Visit ID.

Request Data

```
<DeleteVisit
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <DeleteVisitInfo>
    <VisitID>number</VisitID>
    <ReasonID>number</ReasonID>
    <Note>string</Note>
  </DeleteVisitInfo>
</DeleteVisit>
```

Delete Visit			
Field	Description	Type	Data Type
VisitID	Primary Key of the Visit record to be retrieved. Obtain this ID by calling the <i>SearchVisits</i> method described earlier.	Required	Number
ReasonID	Obtain this ID by calling the <i>GetVisitDeleteReasons</i> method described in Reference table.	Required	Number
Note	Visit Delete Note Required if “Other” Reason ID is selected.	Situational	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.

```
<DeleteVisitResponse xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Result Status="Success">
    <ErrorInfo>
      <ErrorID>0</ErrorID>
      <ErrorMessage />
    </ErrorInfo>
  </Result>
  <DeleteVisitsResult>
    <IsDeleted>number</IsDeleted>
    <VisitID>number</VisitID>
    <Status>string</Status>
  </DeleteVisitsResult>
</DeleteVisitResponse>
```

Billing Information

The following methods are available to access Payroll information.

Method	Allows users to...
SearchBilledVisits	Search Billed Visits by Visit From Date to To Date.

SearchBilledVisits

A client application can call this method to retrieve Billed Visit belonging to a given Start Date and End Date and OfficeID or PatientID.

Request Data

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

```
<SearchBilledVisits xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <StartDate>yyyy-mm-dd</StartDate>
  <EndDate>yyyy-mm-dd</EndDate>
  <OfficeID>number</OfficeID>
  <PatientID>number</PatientID>
</SearchBilledVisits>
```

Parameters

Search Billed Visits			
Field	Description	Type	Data Type
StartDate	Date filter. The web method returns a list of all Billed Visits or after this date. Format: YYYY-MM-DD	Required	Date
EndDate	Date filter. The web method returns a list of all Billed Visits created on or before this date. Format: YYYY-MM-DD	Required	Date
OfficeID	ID of the Office.	Optional	Date
PatientID	Unique Patient ID	Optional	Date

Response Data

If the call is successful, a list of VisitID, PatientID, ContractID and OtherChargeID is returned. The following is the structure of the return XML.

```

<SearchBilledVisitsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <SearchBilledVisitsResult>
    <Result Status="Success">
      <ErrorInfo>
        <ErrorID>0</ErrorID>
        <ErrorMessage />
      </ErrorInfo>
    </Result>
    <SearchBilledVisits>
      <BilledVisits>
        <VisitID>number</VisitID>
        <PatientID>number</PatientID>
        <ContractID>number</ContractID>
        <OtherChargeID>number</OtherChargeID>
      </BilledVisits>
    </SearchBilledVisits>
  </SearchBilledVisitsResult>
</SearchBilledVisitsResponse>

```

Search Billed Visits Result		
Field	Description	Data Type
VisitID	Unique ID of the Schedule created/linked in HHAeXchange.	Number
PatientID	Unique PatientID	Number
ContractID	Unique ContractID	Number
OtherChargeID	Unique OtherChargeID	Number

Incremental Fetch Methods

This section provides an overview of the various web methods available to retrieve changes incrementally from HHAExchange. These methods 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 a UTC date/time or EST date/time format with precision up to milliseconds.

Every row returned by each of the *Incremental Fetch Methods* 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.

All the incremental fetch methods 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 Methods

The following methods are available for incremental data fetch.

1. GetPatientChangesV2
2. GetPatientAuthorizationsChanges
3. GetDeletedPatientAuthorizations
4. GetCareGiverChangesV2
5. GetVisitChangesV2
6. GetVisitChangesV4

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. Possible Format: YYYY-MM-DD YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.MSS	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.

```
<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>yyy-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>yyy-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
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

Get Patient Changes V2 Result		
Field	Description	Data Type
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
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

Get Patient Changes V2 Result		
Field	Description	Data Type
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
Emergency Contact 2 LivesWithPatient		String
Emergency Contact 2 HaveKeys	Possible Values: "Yes" "No"	String
Emergency Contact 2 Phone1	Possible Values: "Yes" "No"	String
Emergency Contact 2 Phone2	Format: XXX-XXX-XXXX	String
Emergency Contact 2 Address	Format: XXX-XXX-XXXX	String
MobilityStatusID	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
EvacuationZoneID	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
EvacuationLocationID	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
OtherEvacuationLocation		String
ElectricEquipmentDependency		String
Description		String
NurseID	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
Coordinators		String
Frequency		String
Cluster	Possible Values: "Yes" "No"	String
IsMutualLinked	Possible Values: "Mutual" or "Link"	String
MutualLinkPatientID	Mutual/Link Patient ID	Number
IsPrimaryPatient	Possible Values: "Yes" "No"	String

Get Patient Changes V2 Result		
Field	Description	Data Type
ServiceStartDate	Format: YYYY-MM-DD	Date
ProjectedDCDate	Format: YYYY-MM-DD	Date
SourceOfAdmissionID	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
LocationID	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method as documented in the <i>Reference Tables Section</i> .	Number
TeamID	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
BranchID	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
Alert		String
ReferralMasterId	Referral ID	Number
ReferralReceivedDate	Referral Received Date	Date
ReferralSourceId	Referral Source ID	Number
ReferralStatusID	Retrieve a list of Referral Statuses by calling the <i>GetReferralStatuses</i> method as documented in the <i>Reference Tables</i> section.	String
ReferralLostReasonId	Applicable if “ReferralStatus” is “ Lost ”	Number
ReferralLostReasonNote	Applicable if “ReferralStatus” is “ Lost ”	String
CommissionStatus	Possible Values: “ Not Paid ” or “ Paid ”	String
ReferralContactId	Referral Contact Person ID	Number
ReferralIntakePersonId	Referral Intake Person ID	Number
AccountManagerId	Referral Account Manager ID	Number
RequestSpecialAgencyId		Number
RequestGender	Possible Values: “ Male ” “ Female ”	String
RequestPrimaryLanguage	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
RequestSecondaryLanguage	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
RequestOther		String
AllowedCaregiverAccessPatientInfoToMobileApp		
Caregiver	List of Caregivers	

Get Patient Changes V2 Result		
Field	Description	Data Type
ID	Caregiver ID	Number
Name	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. Possible Format: YYYY-MM-DD YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.MSS	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>
    <ProviderNumber>string</ProviderNumber>
</GetPatientAuthorizationChangesInfo>
</GetPatientAuthorizationChangesResult>

```

</GetPatientAuthorizationChangesResponse>

Get Patient Authorizations Result		
Field	Description	Data Type
Patient		
ID	Patient ID	Number
AdmissionNumber	Admission Number	Number
FirstName	FirstName	String
LastName	LastName	String
UpdatedDate	Last Updated Date Format: yyyy-mm-dd hh:mm	DateTime
OfficeID	OfficeID	Number
AuthorizationID	Authorization ID of the patient	
Contract		
ID	Contract ID	Number
Name	Contract Name	String
Discipline		
ID	Discipline ID	Number
Name	Discipline Name	String
AuthorizationNumber	Authorization Number	String
ServiceCode		
ID	ServiceCode ID	Number
Name	ServiceCode Name	String
StartDate	Start Date	String
StopDate	Stop Date	String
MaxUnits	Max Units	Decimal
RemainingUnits	Remaining Units	Decimal
BankedHours	Banked Hours	String
Period	Return Period ID, Name details	Number
DailyMaxAuthorization		
Sunday	Check DailyMaxAuthorization for Sunday	Number
Monday	Check DailyMaxAuthorization for Monday	Number
Tuesday	Check DailyMaxAuthorization for Tuesday	Number
Wednesday	Check DailyMaxAuthorization for Wednesday	Number
Thursday	Check DailyMaxAuthorization for Thursday	Number
Friday	Check DailyMaxAuthorization for Friday	Number
Saturday	Check DailyMaxAuthorization for Saturday	Number
WeeklyMaxAuthorization	Weekly Max Authorization	Number
EntirePeriodMaxAuthorization	Entire Period Max Authorization	Number

MonthlyPeriodMaxAuthorization	Monthly Period Max Authorization	Number
SpecificDateType	Specific Date Type	String
Weekday	Weekday	String
Weekend	Weekend	String
Notes	Notes	String
IsAdditionalRule	Check if AdditionlRule is present	String
AdditionalRules		
AdditionalRule	List of AdditionalRules	
AdditionalRuleID	Additional Rule ID	Number
MaximumVisits	MaximumVisits	Number
Period		
ID	Period ID	Number
Name	Period Name	String
Hours	Hours	Number
BillingDiagnosisCodes		
BillingDiagnosisCode	List of Billing Diagnosis Codes	
DiagnosisCode	Diagnosis Code	String
Description	Description	String
IsPrimary	IsPrimary	String
AdmittingDiagnosis	Admitting Diagnosis	String
BlackOutDates		
BlackOutDate	List of BlackOutDates	
FromDate	FromDate	String
ToDate	ToDate	String
BlackOutDateNotes	BlackOutDateNotes	String
ProviderNumber	ProviderNumber	Number

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
ModifiedAfter	Specify a date/time value in EST to retrieve rows deleted after the given time. Possible Format: YYYY-MM-DD YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.MSS	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>
      <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 Result

Field	Description	Data Type
PatientAuthorizationID	Unique Patient Authorization ID	Number
AuthorizationNumber	Authorization number	String
DeletedDate	Deleted Date of Patient Authorization Format: YYYY-MM-DD HH:MM	DateTime

Get Deleted Patient Authorizations Result		
Field	Description	Data Type
PatientID	Patient ID	Number
FromDate	From Date of Authorization Format: YYYY-MM-DD HH:MM	DateTime
ToDate	To Date of Authorization Format: YYYY-MM-DD HH:MM	DateTime
ServiceCategory	Service Category (For Internal and UPR Patient, Service Category will not have any value.)	String
ServiceType	Service Type (For Internal and UPR Patient, Service Type will not have any value.)	String
ServiceCode	Service Code	String
AuthorizationType	Authorization Type	String
AgencyID	Provider ID	Number
AgencyName	Agency Name	String
DeletedBy	DeletedBy	String
Contract	Contract (For Payer Patient, Contract will not have any value)	String
Discipline	Discipline (For Payer Patient, Discipline will not have any value)	String
Period	Period	String

GetCaregiverChangesV2

Returns Caregiver information created or modified after a given date/time value.

Request Data

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

```

<GetCaregiverChangesV2
  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>
</GetCaregiverChangesV2>

```

Get Caregiver 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 after the given time. Possible Format: YYYY-MM-DD YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.MSS	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.

```

<GetCaregiverChangesV2Response
  xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetCaregiverChangesV2Result>
    <CaregiverChangesV2>
      <AgencyID>int</AgencyID>
      <OfficeID>int</OfficeID>
      <CaregiverID>int</CaregiverID>
      <ModifiedDate>string</ModifiedDate>
      <FirstName>string</FirstName>
      <MiddleName>string</MiddleName>
      <LastName>string</LastName>
      <Initials>string</Initials>
      <Gender>string</Gender>
      <DateofBirth>string</DateofBirth>
      <CaregiverCode>string</CaregiverCode>
      <AlternateCaregiverCode>string</AlternateCaregiverCode>
      <TimeAndAttendancePIN>string</TimeAndAttendancePIN>
      <SSN>string</SSN>
      <Ethnicity>string</Ethnicity>
      <CaregiverMobileID>string</CaregiverMobileID>
      <CaregiverMobileIDType>string</CaregiverMobileIDType>
      <Rehire>string</Rehire>
      <RehireDate>string</RehireDate>
      <CountryOfBirth>string</CountryOfBirth>
      <MaritalStatus>string</MaritalStatus>
    </CaregiverChangesV2>
  </GetCaregiverChangesV2Result>
</GetCaregiverChangesV2Response>

```

```

<Dependents>string</Dependents>
<EmployeeType>string</EmployeeType>
<Status>string</Status>
<StatusReason>int</StatusReason>
<StatusNote>string</StatusNote>
<TerminatedDate>string</TerminatedDate>
<EmploymentTypes>
    <Discipline>string</Discipline>
    <Discipline>string</Discipline>
</EmploymentTypes>
<Sent105>string</Sent105>
<EmployeeID>string</EmployeeID>
<ApplicationDate>string</ApplicationDate>
<TeamID>int</TeamID>
<LocationID>int</LocationID>
<BranchID>int</BranchID>
<Payer>string</Payer>
<Registrynumber>string</Registrynumber>
<RegistryDate>string</RegistryDate>
<ReferralSourceID>int</ReferralSourceID>
<ReferralPerson>string</ReferralPerson>
<SignedPayrollAgreement>string</SignedPayrollAgreement>
<SignedPayrollAgreementDate>string
    </SignedPayrollAgreementDate>
<ExclusionListCheckedOn>string</ExclusionListCheckedOn>
<ExclusionListStatus>string</ExclusionListStatus>
<Address>
    <Street1>string</Street1>
    <Street2>string</Street2>
    <City>string</City>
    <State>string</State>
    <Zip5>string</Zip5>
    <Zip4>string</Zip4>
    <HomePhone>string</HomePhone>
    <Phone2>string</Phone2>
    <Phone3>string</Phone3>
</Address>
<EmergencyContact1>
    <Name>string</Name>
    <Address>string</Address>
    <RelationshipID>int</RelationshipID>
    <RelationshipName>string</RelationshipName>
    <RelationshipOther>string</RelationshipOther>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
</EmergencyContact1>
<EmergencyContact2>
    <Name>string</Name>
    <Address>string</Address>
    <RelationshipID>int</RelationshipID>
    <RelationshipName>string</RelationshipName>
    <RelationshipOther>string</RelationshipOther>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
</EmergencyContact2>
<NotificationPreferences>
    <MethodID>int</MethodID>
    <Email>string</Email>
    <MobileOrSMS>string</MobileOrSMS>

```

```

        <VoiceMessage>string</VoiceMessage>
    </NotificationPreferences>
    <HireDate>string</HireDate>
    <I9ABDocumentID>int</I9ABDocumentID>
    <I9CDocumentID>int</I9CDocumentID>
    <I9Verified>string</I9Verified>
    <I9DocumentExpiration>string</I9DocumentExpiration>
    <I9Notes>string</I9Notes>
    <I9EVerifyNumber>string</I9EVerifyNumber>
    <ProfessionalLicensenumber>string
        </ProfessionalLicensenumber>
    <NPInumber>string</NPInumber>
    <Language1>int</Language1>
    <Language2>int</Language2>
    <Language3>int</Language3>
    <Language4>int</Language4>
    <Other>string</Other>
    <FirstWorkDate>string</FirstWorkDate>
    <LastWorkDate>string</LastWorkDate>
    <TimeZone>string</TimeZone>
</CaregiverChangesV2>
</GetCaregiverChangesV2Result>
</GetCaregiverChangesV2Response>

```

Get Caregiver Changes V2 Result		
Field	Description	Type
AgencyID	ID of the Agency in HHAExchange	Number
OfficeID		Number
CaregiverID	Unique ID of the Caregiver in HHAExchange	Number
ModifiedDate	Modified/Created time. Format: YYYY-MM-DD HH:MM:SS.MSS	String
FirstName		String
MiddleName		String
LastName		String
Initials		String
Gender	Possible Values: "Male" or "Female"	String
DateofBirth	Format: YYYY-MM-DD	String
CaregiverCode		String
TimeAndAttendancePIN	IVR ID for Time & Attendance	String
AlternateCaregiverCode		String
SSN		String
Ethnicity	Possible Values: - White - Black - Hispanic - American Indian - Asian - Native Hawaiian - Unknown - Two or More Races - Caribbean Indian - Pacific Islander	String

Get Caregiver Changes V2 Result		
Field	Description	Type
CaregiverMobileID	Caregiver Mobile ID	String
CaregiverMobileIDType	Caregiver's Mobile ID type	String
Rehire	Caregiver is Rehire or Not Possible Values: Yes or No	String
RehireDate	Caregiver Rehire Date	String
CountryofBirth		String
MaritalStatus	Possible values: S (Single) or M (Married)	String
Dependents		String
EmployeeType	Possible Values: A (Applicant) or E (Employee)	String
Status	Possible Values: - Inactive - Active - Hold - On Leave - Terminated - Rejected	String
StatusReason	It is Applicable for all statuses and for applicant and employee types. Retrieve a list of Status Reasons by calling the GetStatusReasonsForCaregiver method as documented in the <i>Reference Tables</i> section.	Number
StatusNote	Applicable only if the status is not "Active"	String
TerminatedDate	Only Applicable if "Status" is "Terminated"	String
EmploymentTypes	List of the Disciplines. For example: HHA, PCA, HSK	String
Sent105	Only Applicable if "Status" is "Terminated". Possible values: Y (Yes) or N (No)	String
EmployeeID		String
ApplicationDate	Format: YYYY-MM-DD	String
TeamID	Retrieve a list of <i>Caregiver Teams</i> by calling the <i>GetCaregiverTeams</i> method documented in the <i>Reference Tables</i> section.	Number
LocationID	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method documented in the <i>Reference Tables</i> section.	Number
BranchID	Retrieve a list of <i>Branches</i> by calling the <i>GetBranches</i> method documented in the <i>Reference Tables</i> section.	Number
Payer		String
Registrynumber		String
RegistryDate	Date the Caregiver information was entered/checked in the registry. Format: YYYY-MM-DD	String
ReferralSourceID	Retrieve a list of <i>Referral Sources</i> by calling the <i>GetCaregiverReferralSources</i> method documented in the <i>Reference Tables</i> section.	Number
ReferralPerson		String

Get Caregiver Changes V2 Result		
Field	Description	Type
SignedPayrollAgreement	Possible values: Y (Yes) or N (No)	String
SignedPayrollAgreementDate	Format: YYYY-MM-DD	String
ExclusionListCheckedOn	Format: YYYY-MM-DD	String
ExclusionListStatus	Possible values: Y (Yes) or N (No)	String
Address Street1		String
Address Street2		String
Address City		String
Address State		String
Address Zip5		String
Address Zip4		String
Address HomePhone	Format: XXX-XXX-XXXX	String
Address Phone2	Format: XXX-XXX-XXXX	String
Address Phone3	Format: XXX-XXX-XXXX	String
EmergencyContact1 Name		String
EmergencyContact1 Address		String
EmergencyContact1 RelationshipID	Retrieve a list of valid Relationships with corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented under the Reference Tables section.	Number
EmergencyContact1 RelationshipName		String
EmergencyContact1 RelationshipOther	Only Applicable if "Emergency1RelationshipName1" is " Other "	String
EmergencyContact1 Phone1	Format: XXX-XXX-XXXX	String
EmergencyContact1 Phone2	Format: XXX-XXX-XXXX	String
EmergencyContact2 Name		String
EmergencyContact2 Address		String
EmergencyContact2 RelationshipID	Retrieve a list of valid Relationships with corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented in the Reference Tables section.	Number
EmergencyContact2 RelationshipName		String
EmergencyContact2 RelationshipOther2	Only Applicable if "Emergency2RelationshipName1" is " Other "	String
EmergencyContact2 Phone1	Format: XXX-XXX-XXXX	String
EmergencyContact2 Phone2	Format: XXX-XXX-XXXX	String

Get Caregiver Changes V2 Result		
Field	Description	Type
Notification MethodID	Method ID— Call <i>GetCaregiverNotificationMethods</i> to get a list of possible values.	Number
Notification Email		String
Notification MobileOrSMS	Format: XXX-XXX-XXXX	String
Notification VoiceMail	Format: XXX-XXX-XXXX	String
HireDate	Caregiver's Hire Date	String
I9ABDocumentID	Retrieve a list of <i>I9 Document Types</i> by calling the <i>GetI9Documents</i> method documented in the <i>Reference Tables</i> section.	Number
I9CDocumentID	Name of the secondary I9 document.	Number
I9DocumentExpiration	I9 Expiration Date. Format: YYYY-MM-DD	String
I9Verified	Possible values: Y (Yes) or N (No)	String
I9Notes	Notes	String
I9EVerifyNumber	I9 Verify Number	String
ProfessionalLicensenumber		String
NPInumber		String
Language1	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section.	Number
Language2	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section.	Number
Language3	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section.	Number
Language4	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section.	Number
Other		String
FirstWorkDate	First work day of caregiver	String
LastWorkDate	Last work day of caregiver	String
TimeZone	TimeZone of caregiver	String

GetVisitChangesV2

Returns Visit 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.

```
<GetVisitChangesV2 xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
```

```

        <AppKey>string</AppKey>
    </Authentication>
    <ModifiedAfter>dateTime</ModifiedAfter>
</GetVisitChangesV2>

```

Get Visit Changes V2 Request			
Field	Description	Type	Data Type
ModifiedAfter	Specify a date/time value in EST to retrieve rows modified/created after the given time. Possible Format: YYYY-MM-DD YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.MSS	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.

```

<GetVisitChangesV2Response xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
    <GetVisitChangesV2Result>
        <GetVisitChangesV2Info>
            <VisitID>int</VisitID>
            <LastModifiedDate>string</LastModifiedDate>
            <OfficeID>int</OfficeID>
            <VisitDate>string</VisitDate>
            <Patient>
                <ID>int</ID>
                <AdmissionNumber>string</AdmissionNumber>
                <FirstName>string</FirstName>
                <LastName>string</LastName>
            </Patient>
            <Caregiver>
                <ID>int</ID>
                <FirstName>string</FirstName>
                <LastName>string</LastName>
                <CaregiverCode>string</CaregiverCode>
                <TimeAndAttendancePIN>int</TimeAndAttendancePIN>
                <PayCode xsi:nil="true" />
            </Caregiver>
            <ScheduleStartTime>string</ScheduleStartTime>
            <ScheduleEndTime>string</ScheduleEndTime>
            <VisitStartTime>string</VisitStartTime>
            <VisitEndTime>string</VisitEndTime>
            <EVVStartTime>string</EVVStartTime>
            <EVVEndTime>string</EVVEndTime>
            <IsMissedVisit>string</IsMissedVisit>
            <TTOT>
                <Hours>int</Hours>
                <Minutes>int</Minutes>
            </TTOT>
            <Verification>
                <VerifiedBy>string</VerifiedBy>
                <Notes>string</Notes>
                <VerifiedDate>dateTime</VerifiedDate>
                <VerifiedTime>string</VerifiedTime>
            </Verification>
        </GetVisitChangesV2Info>
    </GetVisitChangesV2Result>
</GetVisitChangesV2Response>

```

```

        <SupervisorName>string</SupervisorName>
    </Verification>
    <Timesheet>
        <Required>string</Required>
        <Approved>string</Approved>
    </Timesheet>
    <TaskPerformed>
        <POCTaskCode>int</POCTaskCode>
        <AdditionalValue>decimal</AdditionalValue>
        <Status>string</Status>
    <Category>string</Category>
    <Duty>string</Duty>
    <Minutes>int</Minutes>
</TaskPerformed>
<VisitType>string</VisitType>
<ClockInEvvtType>string</ClockInEvvtType>
<ClockOutEvvtType>string</ClockOutEvvtType>
<ScheduleDuration>
    <ScheduleDurationHours>int</ScheduleDurationHours>
    <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
</ScheduleDuration>
<BilledAmount>number</BilledAmount>
<BudgetNumber>number</BudgetNumber>
<ActualHours>string</ActualHours>
<ActualHoursRounded>string</ActualHoursRounded>
<PayHours>string</PayHours>
<PayHoursUnrounded>string</PayHoursUnrounded>
<AdjustedHours>string</AdjustedHours>
<TimeZone>string</TimeZone>
</GetVisitChangesV2Info>
</GetVisitInfoV2Result>
</GetVisitChangesV2Response>

```

Get Visit Changes V2 Result		
Field	Description	Data Type
VisitID	Unique Visit ID	Number
LastModifiedDate	Last Modified Date of Visit/Schedule Format: YYYY-MM-DD HH:MM	DateTime
OfficeID	Office ID	Number
VisitDate	Visit Date	String
Patient ID	Patient ID	Number
AdmissionNumber	Admission Number	Number

Get Visit Changes V2 Result		
Field	Description	Data Type
FirstName	Patient First Name	String
LastName	Patient Last Name	String
Caregiver ID	Caregiver ID	Number
FirstName	Caregiver First Name	String
LastName	Caregiver Last Name	String
TimeAndAttendancePIN	Time And Attendance PIN	Number
PayCode	Pay Code	Number
ScheduleStartTime	Schedule Start Time Format: YYYY-MM-DD HH:MM	String
ScheduleEndTime	Schedule End Time Format: YYYY-MM-DD HH:MM	String
VisitStartTime	Visit Start Time Format: YYYY-MM-DD HH:MM	String
VisitEndTime	Visit End Time Format: YYYY-MM-DD HH:MM	String
EVVStartTime	EVV Start Time Format: YYYY-MM-DD HH:MM	String
EVVEndTime	EVV End Time Format: YYYY-MM-DD HH:MM	String
IsMissedVisit	Visit Missed or Not Value: YES/NO	String
TTOT Hours	Approved Travel Time Hours	Number
TTOT Minutes	Approved Travel Time Minutes	Number

Get Visit Changes V2 Result		
Field	Description	Data Type
VerifiedBy	Verified By	String
Notes	Notes	String
VerifiedDate	Verified Date	DateTime
VerifiedTime	Verified Time	String
SupervisorName	Supervisor Name	String
Timesheet Required	TimeSheet Required: YES/NO	String
Timesheet Approved	TimeSheet Approved: YES/NO	String
POCTaskCode	POC Task Code	Number
AdditionalValue	Additional Value	Number
Status	Status (Duties Performed/ Duties Refused/ Duties Not Performed)	String
Category	Category	String
Duty	Duty	String
Minutes	Minutes	Number
VisitType	VisitType	String
ScheduleDurationHours	Schedule Duration Hours Format: HH	Number
ScheduleDurationMinutes	Schedule Duration Minutes Format: MM	Number

Get Visit Changes V2 Result		
Field	Description	Data Type
ClockInEvvtType	Clock In EVV Type	String
ClockOutEvvtType	Clock Out EVV Type	String
BilledAmount	It will return TotalBillingAmount only if service code is dollar based service code for that visit.	Number
Budget Number	It will return budget number value.	Number
ActualHours	It will return ActualHours value	String
ActualHoursRounded	It will return ActualHoursRounded value	String
PayHours	It will return PayHours value	String
PayHoursUnrounded	It will return PayHoursUnrounded value	String
AdjustedHours	It will return AdjustedHours value. Format: HHMM	String
TimeZone	TimeZone	String

GetVisitChangesV4

Returns Visit changed/created after a specified date/time and page number value.

The page number is utilized for pagination purposes.

Request Data

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

Get Visit Changes V4 Request			
Field	Description	Type	Data Type
ModifiedAfter	Specify a date/time value in EST to retrieve rows modified/created after the given time. Possible Format: YYYY-MM-DD YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.MSS	Required	Date/Time
Page Number	Specify the page number. Accept only positive integer value	Required	String

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.

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

GetCoordinators	A list of Coordinators Matching the Search Criteria
GetPatientDisciplines	A list of Available Patient Disciplines that are assigned to the profile
GetEmergencyContactRelationships	A list of Valid Entries for Emergency Contact Relationships
GetBillingServiceCodes	A list of Billing Service Codes
GetLanguages	A list of Languages for Patient and Caregiver
GetContracts	A list of Patient Contracts
GetContractServiceCode	A list of Service Codes for Given Contract
GetDisciplines	A list Available Disciplines
GetOffices	A list of Available Offices
GetOfficesV3	A list of Available Offices with time zones
GetGenders	A list of Available Patient Genders
GetCaregiverGender	A list of Available Caregiver Genders
GetPatientDischargeTo	A list of Patient Discharged To
GetContractDischargeReason	A list of Patient Contract Discharge Reason
GetStatusReasonsForCaregiver	A list of Status Reasons for Caregiver
GetCaregiverPayCodes	A list of Caregiver Pay Codes
GetScheduleBillInfoEditReasons	A list of Schedule Bill Info Edit Reasons
GetEthnicity	A list of Caregiver Ethnicity
GetSourceOfAdmissions	A list of Patient Admission Source
GetVisitDeleteReasons	Retrieve Visit Delete reason for a Visit ID
GetPatientAddress	Retrieve Address ID(s) for Patient