



# Web Service Application Programming Interface (API) (Enterprise) 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
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3.19	09/05/2023	RA	Field Types updated for following methods: CreateSchedule UpdateSchedule
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3.20	10/19/2023	RA	Granted access to following method: DeleteVisit GetVisitDeleteReasons
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<b>3.23</b>	<b>01/23/2024</b>	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
<b>3.23</b>	<b>02/09/2024</b>	RA	Granted access to following method: GetScheduleInfo
<b>3.24</b>	<b>04/23/2024</b>	NC	Enhanced following method for SuggestedStartTime and SuggestedEndTime fields: CreateSchedule UpdateSchedule GetVisitInfoV2 GetVisitChangesV2

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# Overview

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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.

## Support

If additional assistance is needed, please submit a ticket through [Client Support Portal](#). Cases are escalated to the ENT Integration Service Desk (EISD) Production Support queue. An available Support Team Members will contact you directly to assist.

## Transmission Frequency and Limits

For optimal system performance, HHAX processes data in real time. The expectation is that data is sent by the provider or 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 system. HHAX allows maximum 200 calls per minute per provider.

## Security

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

## Credentials

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

Value	Description
<b>App Name</b>	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.
<b>App Secret</b>	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.
<b>App Key</b>	The App Key is used to create a user context to access the actual data. If the application attempts to access the data of more than one Agency (at HHAX), then an App Key is required for each Agency. Contact the Agency to obtain their App Key and in turn, the Agency contacts HHAX to obtain an App Key for the requestor.

## Error Codes

If the 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; explained briefly in the table below and described later in this document.

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

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

# Patient Information

The following methods are available to access Patient Information.

## Reading Patient Information

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

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

## Writing Patient Information

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

Method	Description
<b>CreatePatient</b>	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.
<b>UpdatePatientDemographics</b>	Use this method to update Patient demographic information.
<b>AddPatientContract</b>	Add a new placement for the given Patient with the specified contract.
<b>UpdatePatientContract</b>	Update an existing placement for the given Patient with the specified contract.
<b>CreatePatientAuthorization</b>	Allows users to create a new authorization for a Patient.
<b>UpdatePatientAuthorization</b>	Use this method to update authorization information.



# Interface Documentation

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

## SearchPatients

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

### Request

```
<CreatePatientNote
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientNoteInfo>
    <PatientID>int</PatientID>
    <ReasonID>int</ReasonID>
    <NoteType>string</NoteType>
    <FromDate>dateTime</FromDate>
    <ToDate>dateTime</ToDate>
    <EmergencyOfPriroity>string</EmergencyOfPriroity>
    <Internal>string</Internal>
    <Note>string</Note>
    <CaregiverID>int</CaregiverID>
    <SubjectID>int</SubjectID>
    <EmailTo>string</EmailTo>
  </PatientNoteInfo>
</CreatePatientNote>
```

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
Status	Patient Status Filter. Possible values: • All      • Hospitalized • Waiting   • Discharged • Active   • Hold <i>"Active" is assumed if a filter is not specified.</i>	Optional	Text
PhoneNumber	Searches for Patients matching a given phone number in patient Home Phone, Phone2 and Phone3 fields. Format: <b>9999999999</b>	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 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. Format: <b>999-99-9999</b>	Optional	Text

### Response

```
<CreatePatientNoteResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreatePatientNoteResult>
    <PatientNoteInfo>
      <PatientID>int</PatientID>
      <NoteID>int</NoteID>
    </PatientNoteInfo>
  </CreatePatientNoteResult>
</CreatePatientNoteResponse>
```

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

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

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

### Response

```
<GetPatientDemographicsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetPatientDemographicsResult>
    <PatientInfo>
      <AgencyID>int</AgencyID>
      <OfficeID>int</OfficeID>
      <PatientID>int</PatientID>
      <FirstName>string</FirstName>
      <MiddleName>string</MiddleName>
      <LastName>string</LastName>
      <BirthDate>string</BirthDate>
      <Gender>string</Gender>
      <Coordinators>
        <Coordinator xsi:nil="true" />
        <Coordinator xsi:nil="true" />
      </Coordinators>
      <PriorityCode>int</PriorityCode>
      <ServiceRequestStartDate>string</ServiceRequestStartDate>
    </PatientInfo>
    <Nurse>
      <ID>int</ID>
      <Name>string</Name>
    </Nurse>
    <AdmissionID>string</AdmissionID>
    <MedicaidNumber>string</MedicaidNumber>
    <MedicareNumber>string</MedicareNumber>
    <AcceptedServices>
      <Discipline>string</Discipline>
      <Discipline>string</Discipline>
    </AcceptedServices>
    <SSN>string</SSN>
    <Alerts>string</Alerts>
    <SourceOfAdmission>
      <ID>int</ID>
      <Name>string</Name>
```

```

</SourceOfAdmission>
<Team>
  <ID>int</ID>
  <Name>string</Name>
</Team>
<Location>
  <ID>int</ID>
  <Name>string</Name>
</Location>
<Branch>
  <ID>int</ID>
  <Name>string</Name>
</Branch>
<Addresses>
  <Address xsi:nil="true" />
  <Address xsi:nil="true" />
</Addresses>
<HomePhone>string</HomePhone>
<Phone2>string</Phone2>
<Phone2Description>string</Phone2Description>
<Phone3>string</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>string</Zip5>
</AlternateBilling>
<EmergencyContacts>
  <EmergencyContact xsi:nil="true" />
  <EmergencyContact xsi:nil="true" />
</EmergencyContacts>
<EmergencyPreparedness>
  <EvacuationZone xsi:nil="true" />
  <EvacuationLocation xsi:nil="true" />
  <MobilityStatus xsi:nil="true" />
  <ElectricEquipmentDependency xsi:nil="true" />
</EmergencyPreparedness>
<PayerID>int</PayerID>
<PayerName>string</PayerName>
<PayerCoordinatorID>int</PayerCoordinatorID>
<PayerCoordinatorName>string</PayerCoordinatorName>
<PatientStatusID>int</PatientStatusID>
<PatientStatusName>string</PatientStatusName>
<WageParity>string</WageParity>
<WageParityFromDate1>string</WageParityFromDate1>
<WageParityToDate1>string</WageParityToDate1>
<WageParityFromDate2>string</WageParityFromDate2>
<WageParityToDate2>string</WageParityToDate2>
<PrimaryLanguageID>int</PrimaryLanguageID>
<PrimaryLanguage>string</PrimaryLanguage>
<SecondaryLanguageID>int</SecondaryLanguageID>

```

```

    <SecondaryLanguage>string</SecondaryLanguage>
    <AllowedCaregiverAccessPatientInfoToMobileApp>
      <Caregiver xsi:nil="true" />
      <Caregiver xsi:nil="true" />
    </AllowedCaregiverAccessPatientInfoToMobileApp>
    <LastModifiedDate>string</LastModifiedDate>
    <MedicaidStartDate>string</MedicaidStartDate>
    <MedicaidEndDate>string</MedicaidEndDate>
    <ManagedCareStartDate>string</ManagedCareStartDate>
    <ManagedCareEndDate>string</ManagedCareEndDate>
  </PatientInfo>
</GetPatientDemographicsResult>
</GetPatientDemographicsResponse>

```

## CreatePatient

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

### Request

```

<CreatePatient
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientInfo>
    <OfficeID>int</OfficeID>
    <FirstName>string</FirstName>
    <MiddleName>string</MiddleName>
    <LastName>string</LastName>
    <BirthDate>dateTime</BirthDate>
    <Gender>string</Gender>
    <CoordinatorID1>int</CoordinatorID1>
    <CoordinatorID2>int</CoordinatorID2>
    <CoordinatorID3>int</CoordinatorID3>
    <PriorityCode>int</PriorityCode>
    <ServiceRequestStartDate>dateTime</ServiceRequestStartDate>
    <NurseID>int</NurseID>
    <AdmissionID>string</AdmissionID>
    <MRNumber>int</MRNumber>
    <MedicaidNumber>string</MedicaidNumber>
    <MedicareNumber>string</MedicareNumber>
    <AcceptedServices>
      <Discipline>string</Discipline>
      <Discipline>string</Discipline>
    </AcceptedServices>
    <ExpandedTimeForAutoVerification>string</ExpandedTimeForAutoVerification>
    <AutomaticDownwardAdjustment>string</AutomaticDownwardAdjustment>
    <SSN>string</SSN>
    <AllowDuplicate>int</AllowDuplicate>
    <Alerts>string</Alerts>
    <SourceOfAdmission>int</SourceOfAdmission>
    <TeamID>int</TeamID>
    <BranchID>int</BranchID>
    <LocationID>int</LocationID>
    <EligibilityDetail>
      <MedicaidStartDate>dateTime</MedicaidStartDate>
      <MedicaidEndDate>dateTime</MedicaidEndDate>
      <ManagedCareStartDate>dateTime</ManagedCareStartDate>

```

```

    <ManagedCareEndDate>dateTime</ManagedCareEndDate>
</EligibilityDetail>
<Addresses>
  <Address>
    <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>
    <BeaconLocation>string</BeaconLocation>
    <FOBLocation>string</FOBLocation>
    <IsPrimaryAddress>string</IsPrimaryAddress>
    <AddressTypes>string</AddressTypes>
  </Address>
  <Address>
    <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>
    <BeaconLocation>string</BeaconLocation>
    <FOBLocation>string</FOBLocation>
    <IsPrimaryAddress>string</IsPrimaryAddress>
    <AddressTypes>string</AddressTypes>
  </Address>
</Addresses>
<AlternateBilling>
  <FirstName>string</FirstName>
  <MiddleName>string</MiddleName>
  <LastName>string</LastName>
  <Street>string</Street>
  <City>string</City>
  <State>string</State>
  <Zip5>int</Zip5>
</AlternateBilling>
<EmergencyContacts>
  <EmergencyContact>
    <Name>string</Name>
    <RelationshipID>int</RelationshipID>
    <LivesWithPatient>string</LivesWithPatient>
    <HaveKeys>string</HaveKeys>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
    <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>
<EmergencyPreparedness>
    <EvacuationZoneID>int</EvacuationZoneID>
    <EvacuationLocationID>int</EvacuationLocationID>
    <MobilityStatusID>int</MobilityStatusID>
    <ElectricEquipmentDependency>
        <ElectricEquipmentID>int</ElectricEquipmentID>
        <ElectricEquipmentID>int</ElectricEquipmentID>
    </ElectricEquipmentDependency>
</EmergencyPreparedness>
<EVVRequired>string</EVVRequired>
<FOBRequired>string</FOBRequired>
<FOBDeviceID>string</FOBDeviceID>
<BeaconRequired>string</BeaconRequired>
<BeaconDeviceID>string</BeaconDeviceID>
<FobSealId>string</FobSealId>
<WageParity>string</WageParity>
<WageParityFromDate1>dateTime</WageParityFromDate1>
<WageParityToDate1>dateTime</WageParityToDate1>
<WageParityFromDate2>dateTime</WageParityFromDate2>
<WageParityToDate2>dateTime</WageParityToDate2>
<HomePhone>string</HomePhone>
<Phone2>string</Phone2>
<Phone2Description>string</Phone2Description>
<Phone3>string</Phone3>
<Phone3Description>string</Phone3Description>
<Direction>string</Direction>
</PatientInfo>
</CreatePatient>

```

Field	Description	Type	Data Type
<b>OfficeID</b>	Retrieve a list of valid values and their IDs by calling the method <i>GetOffices</i> documented in the Reference Tables section.	Required	Number
<b>FirstName</b>		Required	string
<b>MiddleName</b>		Optional	string
<b>LastName</b>		Required	string
<b>BirthDate</b>		Required	Date
<b>Gender</b>	<b>Male or Female or Other</b>	Required	string
<b>CoordinatorID1</b>	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 Reference Tables Section.	Required	Number
<b>CoordinatorID2</b>		Optional	Number
<b>CoordinatorID3</b>		Optional	Number
<b>PriorityCode</b>	Between 1 and 5. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>ServiceRequestStartDate</b>	Start of Care	Optional	Date
<b>NurseID</b>	ID of the Nurse to be assigned to the newly created Patient. A list of nurses and corresponding IDs can be retrieved by calling the method <i>GetNurses</i> documented in the Reference Tables section. <i>Field can be configured as required in Office Setup.</i>	Situational	Number

<b>AdmissionID</b>	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
<b>MRNumber</b>	MR Number of the Patient. (Displays as Patient ID in the application).	Optional	Number
<b>MedicaidNumber</b>	Format: <b>XX99999XX</b> . <i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>MedicareNumber</b>		Optional	String
<b>AcceptedServices</b>			
<b>Discipline</b>	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
<b>ExpandedTimeForAutoVerification</b>	<b>Yes or No</b>	Optional	String
<b>AutomaticDownwardAdjustment</b>	<b>Yes or No</b>	Optional	String
<b>SSN</b>	<i>Field can be configured as required in Office Setup.</i> Format: <b>999-99-9999</b>	Situational	String
<b>AllowDuplicate</b>	Option <b>0 (No)</b> or <b>1 (Yes)</b>	Optional	Number
<b>Alerts</b>		Optional	String
<b>SourceOfAdmission</b>	ID of a valid source of admission record. A list of valid values and their IDs can be retrieved using GetSourceOfAdmissions method documented in the Reference Tables section. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>TeamID</b>	A list of Teams can be retrieved by calling the method GetTeams documented in the Reference Tables section. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>BranchID</b>	A list of Branches can be retrieved by calling the method GetBranches documented in the Reference Tables section. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>LocationID</b>	A list of Locations can be retrieved by calling the method GetLocations documented in the Reference Tables section. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>EligibilityDetail</b>			
<b>MedicaidStartDate</b>	<b>YYYY-MM-DD</b>	Optional	Date
<b>MedicaidEndDate</b>	<b>YYYY-MM-DD</b>	Optional	Date
<b>ManagedCareStartDate</b>	<b>YYYY-MM-DD</b>	Optional	Date
<b>ManagedCareEndDate</b>	<b>YYYY-MM-DD</b>	Optional	Date
<b>Address</b>			
<b>Address1</b>	<i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>Address2</b>		Optional	String
<b>CrossStreet</b>		Optional	String
<b>City</b>		Optional	String
<b>Zip5</b>	Format: <b>99999</b>	Required	Number
<b>Zip4</b>	Format: <b>9999</b>	Optional	Number
<b>Notes</b>		Optional	String
<b>State</b>		Optional	String
<b>County</b>		Optional	String

<b>PhoneLocation</b>	Phone Location Accepted Values: HomePhone1 / HomePhone2 / HomePhone3 Can be pass multiple Phones with pipe separated like HomePhone1 HomePhone2 HomePhone3	Optional	String
<b>BeaconLocation</b>	Beacon Location Accepted Values: Yes/No	Optional	String
<b>FOBLocation</b>	FOB Location. Accepted Values: Yes/No	Optional	String
<b>IsPrimaryAddress</b>	Value: <b>Yes</b> or <b>No</b>	Situational	String
<b>AddressTypes</b>	Accepted values are Home, GPS, Billing. Community Home and Community cannot be selected together. Multiple values can be passed with comma separated. If not passed, then default address type will be Home and GPS. Default address will be Primary Address	Optional	String
<b>AlternateBilling</b>			
<b>FirstName</b>	FirstName. <i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>MiddleName</b>	MiddleName	Optional	String
<b>LastName</b>	LastName. <i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>Street</b>	Street. <i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>City</b>	City. <i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>State</b>	State. <i>Field can be configured as required in Office Setup.</i>	Situational	String
<b>Zip5</b>	Zip5. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>Emergency Contacts</b>			
<b>Name</b>	Name	Optional	String
<b>RelationshipID</b>	RelationshipID – A list of valid relationships and their IDs can be retrieved by calling <i>GetEmergencyContactRelationships</i> method documented under the Reference Tables section.	Optional	Number
<b>LivesWithPatient</b>	LivesWithPatient – <b>Yes</b> or <b>No</b>	Optional	String
<b>HaveKeys</b>	HaveKeys – <b>Yes</b> or <b>No</b>	Optional	String
<b>Phone1</b>	Phone1 – Format: <b>999-999-9999</b>	Optional	String
<b>Phone2</b>	Phone2 – Format: <b>999-999-9999</b>	Optional	String
<b>Address</b>	Address	Optional	String
<b>EmergencyPreparedness</b>			
<b>EvacuationZoneID</b>	Call <i>GetEvacuationZones</i> to retrieve a list of acceptable values. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>EvacuationLocationID</b>	Call <i>GetEvaluationLocations</i> to retrieve a list of valid entries. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>MobilityStatusID</b>	Call <i>GetMobilityStatuses</i> to retrieve a list of acceptable values. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
<b>ElectricEquipmentDependency</b>			
<b>ElectricEquipmentID</b>	Call <i>GetElectricEquipments</i> to retrieve a list of valid values. <i>Field can be configured as required in Office Setup.</i>	Optional	Number
<b>EVVRequired</b>	EVVRequired – <b>Yes</b> or <b>No</b> . <i>If not specified, the value is set to “Yes” by default.</i>	Optional	String



FOBRequired	FOBRequired – Yes or No	Optional	String
FOBDeviceID		Optional	String
BeaconRequired	Yes or No	Optional	String
BeaconDeviceID		Optional	String
FOBSealId		Optional	String
WageParity	WageParity – Yes or No	Optional	String
WageParityFromDate1	YYYY-MM-DD	Optional	Date
WageParityToDate1	YYYY-MM-DD	Optional	Date
WageParityFromDate2	YYYY-MM-DD	Optional	Date
WageParityToDate2	YYYY-MM-DD	Optional	Date
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

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

### Response

```
<CreatePatientResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreatePatientResult>
    <PatientID>int</PatientID>
  </CreatePatientResult>
</CreatePatientResponse>
```

## UpdatePatientDemographics

Use this method to update Patient demographic information.

### Request

```
<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>
    <CoordinatorID2>int</CoordinatorID2>
    <CoordinatorID3>int</CoordinatorID3>
    <PriorityCode>int</PriorityCode>
    <ServiceRequestStartDate>dateTime</ServiceRequestStartDate>
    <NurseID>int</NurseID>
    <MRNumber>int</MRNumber>
    <MedicaidNumber>string</MedicaidNumber>
    <MedicareNumber>string</MedicareNumber>
    <ExpandedTimeForAutoVerification>string</ExpandedTimeForAutoVerification>
    <AutomaticDownwardAdjustment>string</AutomaticDownwardAdjustment>
    <AcceptedServices>
      <Discipline>string</Discipline>
      <Discipline>string</Discipline>
    </AcceptedServices>
  </PatientInfo>
</UpdatePatientDemographics>
```

```

</AcceptedServices>
<SSN>string</SSN>
<AllowDuplicate>int</AllowDuplicate>
<Alerts>string</Alerts>
<SourceOfAdmission>int</SourceOfAdmission>
<TeamID>int</TeamID>
<BranchID>int</BranchID>
<LocationID>int</LocationID>
<EligibilityDetail>
  <MedicaidStartDate>dateTime</MedicaidStartDate>
  <MedicaidEndDate>dateTime</MedicaidEndDate>
  <ManagedCareStartDate>dateTime</ManagedCareStartDate>
  <ManagedCareEndDate>dateTime</ManagedCareEndDate>
</EligibilityDetail>
<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>
    <BeaconLocation>string</BeaconLocation>
    <FOBLocation>string</FOBLocation>
    <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>
    <BeaconLocation>string</BeaconLocation>
    <FOBLocation>string</FOBLocation>
    <IsPrimaryAddress>string</IsPrimaryAddress>
    <AddressTypes>string</AddressTypes>
  </Address>
</Addresses>
<AlternateBilling>
  <FirstName>string</FirstName>
  <MiddleName>string</MiddleName>
  <LastName>string</LastName>
  <Street>string</Street>
  <City>string</City>
  <State>string</State>
  <Zip5>int</Zip5>
</AlternateBilling>
<EmergencyContacts>
  <EmergencyContact>
    <Name>string</Name>

```

```

    <RelationshipID>int</RelationshipID>
    <LivesWithPatient>string</LivesWithPatient>
    <HaveKeys>string</HaveKeys>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
    <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>
<EmergencyPreparedness>
  <EvacuationZoneID>int</EvacuationZoneID>
  <EvacuationLocationID>int</EvacuationLocationID>
  <MobilityStatusID>int</MobilityStatusID>
  <ElectricEquipmentDependency>
    <ElectricEquipmentID>int</ElectricEquipmentID>
    <ElectricEquipmentID>int</ElectricEquipmentID>
  </ElectricEquipmentDependency>
</EmergencyPreparedness>
<EVVRequired>string</EVVRequired>
<FOBRequired>string</FOBRequired>
<FOBDeviceID>string</FOBDeviceID>
<FobSealId>string</FobSealId>
<BeaconRequired>string</BeaconRequired>
<BeaconDeviceID>string</BeaconDeviceID>
<WageParity>string</WageParity>
<WageParityFromDate1>dateTime</WageParityFromDate1>
<WageParityToDate1>dateTime</WageParityToDate1>
<WageParityFromDate2>dateTime</WageParityFromDate2>
<WageParityToDate2>dateTime</WageParityToDate2>
<HomePhone>string</HomePhone>
<Phone2>string</Phone2>
<Phone2Description>string</Phone2Description>
<Phone3>string</Phone3>
<Phone3Description>string</Phone3Description>
<Direction>string</Direction>
<AllowedCaregiverAccessPatientInfoToMobileApp>
  <CaregiverID>int</CaregiverID>
  <CaregiverID>int</CaregiverID>
</AllowedCaregiverAccessPatientInfoToMobileApp>
</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

## Response

```
<UpdatePatientDemographicsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdatePatientDemographicsResult>
    <PatientID>int</PatientID>
    <DisplayMessage>string</DisplayMessage>
  </UpdatePatientDemographicsResult>
</UpdatePatientDemographicsResponse>
```

## GetPatientContracts

Returns Patient Contracts for given Patient from HHAeXchange.

### Request

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

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

### Response

```
<GetPatientContractsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetPatientContractsResult>
    <PatientContracts>
      <PatientContractInfo>
        <PlacementID>int</PlacementID>
        <Contract xsi:nil="true" />
        <IsPrimaryContract>string</IsPrimaryContract>
        <AltPatientID>string</AltPatientID>
        <ServiceStartDate>string</ServiceStartDate>
        <SourceOfAdmission xsi:nil="true" />
        <ServiceCode xsi:nil="true" />
        <DischargeDate>string</DischargeDate>
        <DischargeTo xsi:nil="true" />
      </PatientContractInfo>
      <PatientContractInfo>
        <PlacementID>int</PlacementID>
        <Contract xsi:nil="true" />
        <IsPrimaryContract>string</IsPrimaryContract>
        <AltPatientID>string</AltPatientID>
        <ServiceStartDate>string</ServiceStartDate>
        <SourceOfAdmission xsi:nil="true" />
        <ServiceCode xsi:nil="true" />
        <DischargeDate>string</DischargeDate>
        <DischargeTo xsi:nil="true" />
      </PatientContractInfo>
    </PatientContracts>
  </GetPatientContractsResult>
</GetPatientContractsResponse>
```

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

## AddPatientContract

Allows to add Patient Contracts for given Patient in HHAExchange.

### Request

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

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

## Response

```
<AddPatientContractResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <AddPatientContractResult>
    <PatientContractInfo>
      <PatientID>int</PatientID>
      <PlacementID>int</PlacementID>
    </PatientContractInfo>
  </AddPatientContractResult>
</AddPatientContractResponse>
```

## UpdatePatientContract

Allows to Update Patient Contracts for given Patient in HHAeXchange.

## Request

```
<UpdatePatientContract
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <PatientContractInfo>
    <PatientID>int</PatientID>
    <PlacementID>int</PlacementID>
    <UpdateAltPateintID>boolean</UpdateAltPateintID>
    <AltPateintID>string</AltPateintID>
    <UpdateStartDate>boolean</UpdateStartDate>
    <StartDate>dateTime</StartDate>
    <SourceOfAdmissionID>int</SourceOfAdmissionID>
    <StartNote>string</StartNote>
    <UpdateServiceCode>boolean</UpdateServiceCode>
    <ServiceCodeID>int</ServiceCodeID>
    <UpdateDischargeDate>boolean</UpdateDischargeDate>
    <DischargeDate>dateTime</DischargeDate>
    <DischargeToID>int</DischargeToID>
    <DischargeReasonID>int</DischargeReasonID>
    <DischargeNote>string</DischargeNote>
    <IsPrimaryContract>boolean</IsPrimaryContract>
  </PatientContractInfo>
</UpdatePatientContract>
```

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 <i>GetPatientContracts</i> .	Required	Number
UpdateAltPatientID	Possible Values: <b>True</b> or <b>False</b> . If Value is true, then only "AltPatientID" will be updated	Optional	String
AltPatientID	Alternate Patient Number	Optional	String
UpdateStartDate	Possible Values: <b>True</b> or <b>False</b> . 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 Source of Admissions by calling the <i>GetSourceOfAdmissions</i> method as documented in the Reference Tables section	Optional	Number
StartNote	Note	Optional	String

<b>UpdateServiceCode</b>	Possible Values: <b>True</b> or <b>False</b> . If Value is true, then only "ServiceCodeID" will be updated	Optional	String
<b>ServiceCodeID</b>	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetBillingServiceCodes</i> documented in the Reference Tables section	Optional	Number
<b>UpdateDischargeDate</b>	Possible Values: <b>True</b> or <b>False</b> . If Value is true, then only "DischargeDate, DischargeToID, DischargeReasonID, DischargeNote" will be updated	Optional	String
<b>DischargeDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date
<b>DischargeToID</b>	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
<b>DischargeReasonID</b>	Patient Discharge Reason ID. Retrieve a list of Patient 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
<b>DischargeNote</b>	Note	Optional	String
<b>IsPrimaryContract</b>	Possible Values: <b>True</b> or <b>False</b>	Optional	String

### Response

It will show warning message if provider update Discharge date or Service Start date for PRO Contract after Contract is updated successfully.

```
<UpdatePatientContractResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdatePatientContractResult>
    <PatientContractInfo>
      <PatientID>int</PatientID>
      <PlacementID>int</PlacementID>
      <DisplayMessage>string</DisplayMessage>
    </PatientContractInfo>
  </UpdatePatientContractResult>
</UpdatePatientContractResponse>
```

## SearchPatientAuthorizations

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

### Request

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

Field	Description	Type	Data Type
<b>PatientID</b>	Patient ID to retrieve authorization information.	Required	Number

### Response

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

```

<SearchPatientAuthorizationsResult>
  <PatientAuthorizations>
    <Authorization>
      <ID>int</ID>
      <StartDate>string</StartDate>
      <StopDate>string</StopDate>
      <AuthorizationNumber>string</AuthorizationNumber>
      <ContractID>string</ContractID>
      <ContractName>string</ContractName>
    </Authorization>
    <Authorization>
      <ID>int</ID>
      <StartDate>string</StartDate>
      <StopDate>string</StopDate>
      <AuthorizationNumber>string</AuthorizationNumber>
      <ContractID>string</ContractID>
      <ContractName>string</ContractName>
    </Authorization>
  </PatientAuthorizations>
</SearchPatientAuthorizationsResult>
</SearchPatientAuthorizationsResponse>

```

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

```

<GetPatientAuthorizationInfo
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <AuthorizationInfo>
    <PatientID>int</PatientID>
    <AuthorizationID>int</AuthorizationID>
  </AuthorizationInfo>
</GetPatientAuthorizationInfo>

```

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

### Response

```

<GetPatientAuthorizationInfoResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetPatientAuthorizationInfoResult>
    <AuthorizationInfo>
      <Patient>
        <ID>int</ID>
        <AdmissionNumber>string</AdmissionNumber>
        <FirstName>string</FirstName>
        <LastName>string</LastName>
      </Patient>
    </AuthorizationInfo>
  </GetPatientAuthorizationInfoResult>
</GetPatientAuthorizationInfoResponse>

```



```

</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>
</AuthorizationInfo>
</GetPatientAuthorizationInfoResult>
</GetPatientAuthorizationInfoResponse>

```

# CreatePatientAuthorization

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

## Request

```
<CreatePatientAuthorization
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <CreateAuthorizationInfo>
    <PatientID>int</PatientID>
    <ContractID>int</ContractID>
    <DisciplineID>int</DisciplineID>
    <ServiceCodeID>int</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>
    <DXCode1>string</DXCode1>
    <DXCode2>string</DXCode2>
    <DXCode3>string</DXCode3>
    <AdditionalRules>
      <AdditionalRule>
        <MaximumVisits>int</MaximumVisits>
        <Period>string</Period>
        <OfXHours>decimal</OfXHours>
      </AdditionalRule>
      <AdditionalRule>
        <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>
<ProgramCode>string</ProgramCode>
<BudgetAmount>decimal</BudgetAmount>
<ProviderNumber>string</ProviderNumber>
</CreateAuthorizationInfo>
</CreatePatientAuthorization

```

Field	Description	Type	Data Type
<b>PatientID</b>	Unique ID of the Patient in HHAExchange	Required	Number
<b>ContractID</b>	Retrieve a list of Patient Contracts by calling the method <i>GetPatientContracts</i> documented in the <i>Patient Information</i> section.	Required	Number
<b>Discipline</b>	Retrieve a list of <i>Disciplines</i> by calling the method <i>GetPatientDisciplines</i> documented in the <i>Reference Tables</i> section	Required	String
<b>ServiceCodeID</b>	Retrieve a list of Service Codes by calling the method <i>GetContractServiceCode</i> documented in the <i>Reference Tables</i> section.	Optional	Number
<b>AuthorizationNumber</b>	The authorization number for this authorization.	Required	String
<b>FromDate</b>	Authorization Start Date. Format: <b>YYYY-MM-DD</b>	Required	String
<b>ToDate</b>	Authorization End Date. Format: <b>YYYY-MM-DD</b>	Required	String
<b>HoursPerAuthPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50. Only applies to <b>Period</b> = Daily, Weekly or Monthly	Optional	Decimal
<b>SpecificDateType</b>	Possible Values: <b>True</b> or <b>False</b> . If Period = Daily or Weekly	Optional	Boolean
<b>WeekDay</b>	Weekday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>WeekEnd</b>	Weekend/Holiday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>BankedHours</b>	Possible values: <b>Y</b> or <b>N</b>	Optional	String
<b>IsAdditionalRules</b>	Possible Values: <b>True</b> or <b>False</b> . If "True" this authorization can be restricted further through 3 additional fields "Maximum Visits" "Period" and "Of X Hours"	Required	String
<b>Period</b>	Possible Values: <b>Daily, Weekly, Monthly</b> or <b>Entire Period</b>	Required	String
<b>MaxHoursPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>SatMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>MonMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>TueMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>WedMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>ThuMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50.	Optional	Decimal
<b>FriMinutes</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50	Optional	Decimal
<b>MaximumVisits</b>	Whole number between 1 and 999. Required if Additional Rules = "True".	Situational	Number
<b>Period</b>	Possible values: <b>Week, Month</b> or <b>Entire Period</b> Required if Additional Rules = "True".	Situational	String

<b>OfXHours</b>	Number of hours which can be scheduled for visits under this additional rule. Format: 99.99 Required if Additional Rules = "True".	Situational	Decimal
<b>Note</b>	Note	Optional	String
<b>DiagnosisCode</b>	Billing Diagnosis ICD-10 Code	Optional	String
<b>Description</b>	Description of ICD-10 Code	Optional	String
<b>IsPrimary</b>	Possible values: <b>Yes</b> or <b>No</b>	Optional	String
<b>Program Code</b>	Program Code	Optional	String
<b>BudgetAmount</b>	Budget Amount	Optional	Decimal
<b>ProviderNumber</b>	Required if Payer code type of contract is LTC. Value should always be 9 digits numeric.	Situational	String

### Response

```
<CreatePatientAuthorizationResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreatePatientAuthorizationResult>
    <PatientAuthorization>
      <PatientID>int</PatientID>
      <AuthorizationID>long</AuthorizationID>
    </PatientAuthorization>
  </CreatePatientAuthorizationResult>
</CreatePatientAuthorizationResponse>
```

## UpdatePatientAuthorization

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

### Request

```
<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>

```

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

<b>ToDate</b>	Authorization End Date. Format: <b>YYYY-MM-DD</b>	Required	DateTime
<b>HoursPerAuthPeriod</b>	Decimal values of .25   .50   .75 are allowed. Decimal values must be two digits if used. Example: 10.50 Only applies to <b>Period</b> = Daily, Weekly or Monthly	Optional	Decimal
<b>BankedHours</b>	Possible values: <b>Y</b> or <b>N</b>	Optional	String
<b>IsAdditionalRules</b>	Possible Values: <b>True</b> or <b>False</b> If "True" this authorization can be restricted further through 3 additional fields "Maximum Visits" "Period" and "Of X Hours"	Required	String
<b>Period</b>	Possible Values: <b>Daily, Weekly, Monthly</b> or <b>Entire Period</b>	Required	String
<b>SpecificDateType</b>	Possible Values: <b>True</b> or <b>False</b> . If Period = Daily or Weekly	Optional	Boolean
<b>WeekDay</b>	Weekday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>WeekEnd</b>	Weekend/Holiday possible values: <b>True</b> or <b>False</b> Required if Specific Date Type = "True".	Situational	Boolean
<b>MaxHoursPeriod*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>SatMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>SunMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>MonMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>TueMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>WedMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>ThuMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>FriMinutes*</b>	Decimal values of .25   .50   .75 are allowed.	Optional	Decimal
<b>AuthorizationAdditionalRuleID</b>	Unique Rule ID of the authorization record. This can be obtained by calling the method <i>GetPatientAuthorizationInfo</i>	Situational	Number
<b>MaximumVisits</b>	Whole number between 1 and 999 Required if Additional Rules = "True".	Situational	Number
<b>Period</b>	Possible values: <b>Week, Month</b> or <b>Entire Period</b> Required if Additional Rules = "True".	Situational	String
<b>OfXHours</b>	Number of hours which can be scheduled for visits under this additional rule. Format: 99.99 Required if Additional Rules = "True".	Situational	Decimal
<b>Note</b>	Note	Optional	String
<b>DiagnosisCode</b>	Billing Diagnosis ICD-10 Code	Optional	String
<b>Description</b>	Description of ICD-10 Code	Optional	String
<b>IsPrimary</b>	Possible values: <b>Yes</b> or <b>No</b>	Optional	String
<b>From Date</b>	Blackout Start Date. Format: <b>YYYY-MM-DD</b>	Optional	DateTime
<b>To Date</b>	Blackout End Date. Format: <b>YYYY-MM-DD</b>	Optional	DateTime
<b>Notes</b>	Blackout Notes	Optional	String
<b>Program Code</b>	Program Code	Optional	String
<b>BudgetAmount</b>	Budget Amount	Optional	Decimal
<b>ProviderNumber</b>	Require if Payer code type of contract is LTC. Value should always be 9 digits numeric.	Situational	String

\*Decimal values must be two digits if used. Example: 10.50

## Response

```

<UpdatePatientAuthorizationResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdatePatientAuthorizationResult>
    <PatientAuthorization>
      <PatientID>int</PatientID>
      <AuthorizationID>long</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...
<b>SearchCaregivers</b>	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.
<b>GetCaregiverDemographics</b>	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...
<b>CreateCaregiver</b>	create a New Caregiver record.
<b>UpdateCaregiverDemographics</b>	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

```
<SearchCaregivers
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>
    <AlternateCaregiverCode>string</AlternateCaregiverCode>
  </SearchFilters>
</SearchCaregivers>
```

Field	Description	Type	Data Type
<b>FirstName</b>	Caregiver's first name. Searches for partial names as well (using 'starts-with' algorithm)	Optional	Text
<b>LastName</b>	Caregiver's last name. Searches for partial names as well (using 'starts-with' algorithm)	Optional	Text
<b>Status</b>	Caregiver Status Filter. Possible values: <ul style="list-style-type: none"> <li>• All      • Hold</li> <li>• Active   • On Leave</li> <li>• Inactive • Terminated</li> <li>• Rejected</li> </ul> <b>"All"</b> is assumed if a filter is not specified.	Optional	Text
<b>PhoneNumber</b>	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
<b>CaregiverCode</b>	Searches for a Caregiver by Caregiver Code. An exact-match algorithm is used and partial search is not supported.	Optional	Text
<b>EmployeeType</b>	Caregiver Employee Type Filter values: <ul style="list-style-type: none"> <li>• All</li> <li>• Employee</li> <li>• Applicant</li> </ul>	Optional	Text
<b>SSN</b>	Caregiver's SSN	Optional	Text
<b>AlternateCaregiverCode</b>	Caregiver's AlternateCaregiverCode	Optional	Text

### Response

```

<SearchCaregiversResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <SearchCaregiversResult>
    <Caregivers>
      <CaregiverID>int</CaregiverID>
      <CaregiverID>int</CaregiverID>
    </Caregivers>
  </SearchCaregiversResult>
</SearchCaregiversResponse>

```

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

```

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

```

Field	Description	Type	Data Type
<b>ID</b>	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

```
<GetCaregiverDemographicsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetCaregiverDemographicsResult>
    <CaregiverInfo>
      <ID>int</ID>
      <FirstName>string</FirstName>
      <MiddleName>string</MiddleName>
      <LastName>string</LastName>
      <Intials>string</Intials>
      <Gender>string</Gender>
      <CaregiverGenderID>string</CaregiverGenderID>
      <BirthDate>string</BirthDate>
      <CaregiverCode>int</CaregiverCode>
      <TimeAndAttendancePIN>int</TimeAndAttendancePIN>
      <AlternateCaregiverCode>string</AlternateCaregiverCode>
      <MobileID>int</MobileID>
      <MobileIDType>string</MobileIDType>
      <MobileIDTypeDescription>string</MobileIDTypeDescription>
      <SSN>string</SSN>
      <Ethnicity>
        <ID>int</ID>
        <Name>string</Name>
      </Ethnicity>
      <RehireDate>string</RehireDate>
      <CountryOfBirth>string</CountryOfBirth>
      <EmployeeType>string</EmployeeType>
      <MaritalStatus>
        <ID>int</ID>
        <Name>string</Name>
      </MaritalStatus>
      <Dependents>string</Dependents>
      <Status>
        <ID>int</ID>
        <Name>string</Name>
      </Status>
      <EmploymentTypes>
        <Discipline>string</Discipline>
        <Discipline>string</Discipline>
      </EmploymentTypes>
      <EmployeeID>string</EmployeeID>
      <ApplicationDate>string</ApplicationDate>
      <Team>
        <ID>int</ID>
        <Name>string</Name>
      </Team>
      <Location>
        <ID>int</ID>
        <Name>string</Name>
      </Location>
      <Branch>
        <ID>int</ID>
        <Name>string</Name>
      </Branch>
      <HireDate>string</HireDate>
      <FirstWorkDate>string</FirstWorkDate>
      <LastWorkDate>string</LastWorkDate>
      <RegistryNumber>string</RegistryNumber>
      <RegistryCheckedDate>string</RegistryCheckedDate>
      <ReferralSource>
```

```

        <ID>int</ID>
        <Name>string</Name>
    </ReferralSource>
    <ReferralPerson>string</ReferralPerson>
    <Address>
        <Street1>string</Street1>
        <Street2>string</Street2>
        <City>string</City>
        <State>string</State>
        <Zip5>int</Zip5>
        <Zip4>int</Zip4>
        <HomePhone>string</HomePhone>
        <Phone2>string</Phone2>
        <Phone3>string</Phone3>
    </Address>
    <EmergencyContacts>
        <EmergencyContact xsi:nil="true" />
        <EmergencyContact xsi:nil="true" />
    </EmergencyContacts>
    <NotificationPreferences>
        <Method xsi:nil="true" />
        <Email>string</Email>
        <MobileOrSMS>string</MobileOrSMS>
        <VoiceMessage>string</VoiceMessage>
    </NotificationPreferences>
    <CaregiverOffices>
        <Office xsi:nil="true" />
        <Office xsi:nil="true" />
    </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>
</GetCaregiverDemographicsResponse>

```

Field	Description	Data Type
<b>ID</b>	Primary Key of the Caregiver to be retrieved.	Number
<b>FirstName</b>	Caregiver's FirstName	String
<b>MiddleName</b>	Caregiver's MiddleName	String
<b>LastName</b>	Caregiver's LastName	String
<b>Intials</b>	Caregiver's Initial	String
<b>Gender</b>	Possible Values: "Male"   "Female"	String
<b>CaregiverGenderID</b>	Caregiver Gender ID in HHAeXchange.	String
<b>BirthDate</b>	Caregiver's Birthdate. Format: YYYY-MM-DD	String

<b>CaregiverCode</b>	Caregiver Code in HHAExchange.	Number
<b>TimeAndAttendancePIN</b>	Time and Attendance PIN of the Caregiver in HHAExchange.	Number
<b>AlternateCaregiverCode</b>	Alternate Caregiver Code in HHAExchange.	String
<b>MobileID</b>	MobileID in HHAExchange.	Number
<b>MobileIDType</b>	Mobile ID type in HHAExchange.	String
<b>MobileIDTypeDescription</b>	Mobile ID type Description in HHAExchange. Possible Values: "Clinical" or "Non Clinical"	String
<b>SSN</b>	SSN in HHAExchange.	String
<b>Ethnicity</b>		
<b>ID</b>	Ethnicity ID in HHAExchange.	Number
<b>Name</b>	Ethnicity Name in HHAExchange.	String
<b>RehireDate</b>	Rehire date of Caregiver. Format: <b>YYYY-MM-DD</b>	String
<b>CountryOfBirth</b>	Country of Birth of Caregiver.	String
<b>EmployeeType</b>	Employee Type of Caregiver Possible values : "Applicant" or "Employee"	String
<b>MaritalStatus</b>		
<b>ID</b>	Marital Status ID.	Number
<b>Name</b>	Marital Status Name.	String
<b>Dependents</b>	Caregiver's Dependents in HHAExchange.	String
<b>Status</b>		
<b>ID</b>	Status ID	Number
<b>Name</b>	Status Name	String
<b>EmploymentTypes</b>		
<b>Discipline</b>	Discipline of Employment Types in HHAExchange.	String
<b>EmployeeID</b>	Caregiver's Employee ID in HHAExchange.	String
<b>ApplicationDate</b>	Format: <b>YYYY-MM-DD</b>	String
<b>Team</b>		
<b>ID</b>	Team ID	Number
<b>Name</b>	Team Name	String
<b>Location</b>		
<b>ID</b>	Location ID	Number
<b>Name</b>	Location Name	String
<b>Branch</b>		
<b>ID</b>	Branch ID	Number
<b>Name</b>	Branch Name	String
<b>HireDate</b>	Caregiver's Hire Date. Format: <b>YYYY-MM-DD</b>	String
<b>FirstWorkDate</b>	Caregiver's First Work Date. Format: <b>YYYY-MM-DD</b>	String
<b>LastWorkDate</b>	Caregiver's Last work Date. Format: <b>YYYY-MM-DD</b>	String
<b>RegistryNumber</b>	Caregiver's Registry Number	String
<b>RegistryCheckedDate</b>	Date the Caregiver information was entered/checked in the registry. Format: <b>YYYY-MM-DD</b>	String
<b>ReferralSource</b>		
<b>ID</b>	Referral Source ID	Number
<b>Name</b>	Referral Source Name	String
<b>ReferralPerson</b>	Referral Source Person	String
<b>Address</b>		
<b>Street1</b>	Street 1	String
<b>Street2</b>	Street 2	String
<b>City</b>	City	String
<b>State</b>	State	String
<b>Zip5</b>	5 Digit Zip Code	Number
<b>Zip4</b>	4 Digit Zip Code	Number
<b>HomePhone</b>	Format: <b>999-999-9999</b>	String
<b>Phone2</b>	Format: <b>999-999-9999</b>	String

Phone3	Format: 999-999-9999	String
<b>EmergencyContacts</b>		
EmergencyContact	Emergency Contact Details	
Name	Emergency Contact Person Name	String
<b>Relationship</b>		
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
<b>NotificationPreferences</b>		
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
<b>CaregiverOffices</b>		
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
ProfessionalLicensenummer	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
LanguageID4	Language 4 ID	Number
Language4	Language 4	String
LastModifiedDate	Last Modified Date. Format YYYY-MM-DD	String
TimeZone	TimeZone	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

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

```

<FirstName>string</FirstName>
<MiddleName>string</MiddleName>
<LastName>string</LastName>
<Initials>string</Initials>
<Gender>string</Gender>
<Dependents>string</Dependents>
<BirthDate>dateTime</BirthDate>
<CaregiverCode>int</CaregiverCode>
<AlternateCaregiverCode>string</AlternateCaregiverCode>
<MobileID>int</MobileID>
<MobileIDType>string</MobileIDType>
<SSN>string</SSN>
<EthnicityID>int</EthnicityID>
<RehireDate>dateTime</RehireDate>
<CountryOfBirth>string</CountryOfBirth>
<MaritalStatus>string</MaritalStatus>
<StatusID>int</StatusID>
<EmploymentTypes>
  <Discipline>string</Discipline>
  <Discipline>string</Discipline>
</EmploymentTypes>
<EmployeeID>string</EmployeeID>
<ApplicationDate>dateTime</ApplicationDate>
<TeamID>int</TeamID>
<BranchID>int</BranchID>
<LocationID>int</LocationID>
<HHAPCARRegistryNumber>string</HHAPCARRegistryNumber>
<HHAPCARRegistryCheckedDate>dateTime</HHAPCARRegistryCheckedDate>
<NYCRegistryCheckedDate>dateTime</NYCRegistryCheckedDate>
<ReferralSourceID>int</ReferralSourceID>
<ReferralPerson>string</ReferralPerson>
<Address>
  <Street1>string</Street1>
  <Street2>string</Street2>
  <City>string</City>
  <State>string</State>
  <Zip5>int</Zip5>
  <Zip4>int</Zip4>
  <HomePhone>string</HomePhone>
  <Phone2>string</Phone2>
  <Phone3>string</Phone3>
</Address>
<EmergencyContacts>
  <EmergencyContact>
    <Name>string</Name>
    <RelationshipID>int</RelationshipID>
    <OtherRelationship>string</OtherRelationship>
    <Address>string</Address>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
  </EmergencyContact>
  <EmergencyContact>
    <Name>string</Name>
    <RelationshipID>int</RelationshipID>
    <OtherRelationship>string</OtherRelationship>
    <Address>string</Address>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
  </EmergencyContact>
</EmergencyContacts>
<NotificationPreferences>

```

```

    <MethodID>int</MethodID>
    <Email>string</Email>
    <MobileOrSMS>string</MobileOrSMS>
    <VoiceMessage>string</VoiceMessage>
  </NotificationPreferences>
  <Language1>int</Language1>
  <Language2>int</Language2>
  <Language3>int</Language3>
  <Language4>int</Language4>
  <EmployeeType>string</EmployeeType>
  <ProfessionalLicensenumber>string</ProfessionalLicensenumber>
  <NPI>string</NPI>
  <InactiveReason>int</InactiveReason>
  <InactiveNote>string</InactiveNote>
  <SignedPayrollAgreementDate>dateTime</SignedPayrollAgreementDate>
</CaregiverInfo>
</CreateCaregiver>

```

**Note:** A field marked with an asterisk (\*) can be configured as **required** in Office Setup. Fields denoted as required can be designated for each EmployeeType (Employee or Applicant).

Field	Description	Type	Data Type
<b>OfficeID</b>	Retrieve a list of valid values and their IDs by calling the <i>GetOffices</i> method documented in the <i>Reference Tables Section</i> .	Required	Number
<b>FirstName</b>		Required	String
<b>MiddleName*</b>		Situational	String
<b>LastName</b>		Required	String
<b>Initials</b>	If not specified, the first letter of First Name and Last Name are used to create an initial value.	Optional	String
<b>Gender</b>	Possible Value: <b>Male</b> or <b>Female</b> Get gender name list by calling <i>GetCaregiverGender</i> method documented in the <i>Reference Tables Section</i> .	Required	String
<b>Dependents</b>		Optional	String
<b>BirthDate</b>		Required	Date
<b>CaregiverCode</b>	If not specified, a new number is autogenerated. If specified and a Caregiver with the same number exists in the Agency/Office, the operation fails.	Optional	Number
<b>AlternateCaregiverCode</b>		Optional	String
<b>MobileID</b>	HHAeXchange mobile application registration ID if the Caregiver is using the app.	Optional	Number
<b>MobileIDType</b>	"Clinical" or "Non Clinical" Required if MobileID is specified	Situational	String
<b>SSN*</b>	Format: 999-99-9999. <i>RehireDate</i> (see below) is required if there is another Caregiver with the same SSN in the system.	Situational	String
<b>EthnicityID*</b>	Retrieve a list of valid values and IDs by calling the <i>GetEthnicity</i> method documented in the <i>Reference Tables Section</i> .	Situational	String
<b>RehireDate</b>	YYYY-MM-DD – Required if attempting to create a Caregiver with an SSN that already exists in another Caregiver.	Situational	Date
<b>CountryOfBirth</b>		Optional	String
<b>MaritalStatus</b>	Possible Values: <b>Married</b> or <b>Single</b>	Optional	String

<b>StatusID</b>	Valid Caregiver <b>Employee</b> Status: "0" - Inactive "3" - On Leave "1" – Active "4" - Terminated "2" - Hold Valid Caregiver <b>Applicant</b> Status: "1" – Active "5" – Rejected	Required	Number
<b>EmploymentTypes</b>			
<b>Discipline</b>	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 <i>GetDisciplines</i> method documented in the <i>Reference Tables Section</i> .	Required	String
<b>EmployeeID*</b>	An optional application defined value to identify the Caregiver uniquely. Usually this is the Caregiver ID in the external system (calling application).	Situational	String
<b>ApplicationDate</b>	Format: <b>YYYY-MM-DD</b>	Required	Date
<b>TeamID*</b>	Retrieve a list of <i>Caregiver Teams</i> by calling the <i>GetCaregiverTeams</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>BranchID*</b>	Retrieve a list of Branches by calling the method <i>GetBranches</i> documented in the <i>Reference Tables</i> section.	Situational	Number
<b>LocationID*</b>	A list of Locations can be retrieved by calling the method <i>GetLocations</i> documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>HHAPCARegistryNumber*</b>		Situational	String
<b>HHAPCARegistryCheckedDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date
<b>NYCRegistryCheckedDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date
<b>ReferralSourceID</b>	Call <i>GetCaregiverReferralSources</i> to retrieve a list of valid values.	Optional	Number
<b>ReferralPerson</b>		Optional	String
<b>Address</b>			
<b>Street1*</b>		Situational	String
<b>Street2</b>		Optional	String
<b>City*</b>		Situational	String
<b>State*</b>		Situational	String
<b>Zip5</b>	5 Digit Zip Code	Required	Number
<b>Zip4*</b>	4 Digit Zip Code	Situational	Number
<b>HomePhone</b>	Format: <b>999-999-9999</b>	Optional	Number
<b>Phone2</b>	Format: <b>999-999-9999</b>	Optional	Number
<b>Phone3</b>	Format: <b>999-999-9999</b>	Optional	Number
<b>EmergencyContacts</b>			
<b>Name</b>	Name	Optional	String
<b>RelationshipID</b>	Retrieve a list of valid relationships and their IDs by calling <i>GetEmergencyContactRelationships</i> method documented in the <i>Reference Tables Section</i> .	Optional	Number
<b>OtherRelationship</b>	EmergencyContactsRelationshipID must be “-2” to pass a value in this field.	Optional	String
<b>Address</b>	Address	Optional	String
<b>Phone1</b>	Format: <b>999-999-9999</b>	Optional	String
<b>Phone2</b>	Format: <b>999-999-9999</b>	Optional	String
<b>NotificationPreferences*</b>			
<b>MethodID*</b>	Call <i>GetCaregiverNotificationMethods</i> to get a list of possible values.	Situational	Number
<b>Email*</b>		Situational	String

<b>MobileOrSMS*</b>	Specify Mobile Number to receive Text Message. Format: <b>999-999-9999</b>	Situational	Number
<b>VoiceMessage*</b>	Specify phone number to receive voice message notifications. Format: <b>999-999-9999</b>	Situational	Number
<b>Language1*</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>Language2*</b>	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>Language3</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables Section</i> .	Optional	Number
<b>Language4</b>	Retrieve a list of Languages by calling the method <b><i>GetLanguages</i></b> documented in the <i>Reference Tables Section</i> .	Optional	Number
<b>EmployeeType</b>	Possible Values: <b>Applicant</b> or <b>Employee</b> If not specified, the Employee value taken by default.	Required	String
<b>ProfessionalLicensenumber*</b>		Situational	String
<b>NPI*</b>		Situational	String
<b>InactiveReason</b>	Retrieve a list of Inactive Reasons by calling the <i>GetStatusReasonsForCaregiver</i> method documented in the <i>Reference Tables Section</i> .	Optional	Number
<b>InactiveNote*</b>	Agencies may choose to require a Note when a certain Caregiver Status Reason value is selected	Situational	String
<b>SignedPayrollAgreementDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date

### Response

```
<CreateCaregiverResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreateCaregiverResult>
    <CaregiverInfo>
      <CaregiverID>int</CaregiverID>
      <CaregiverCode>int</CaregiverCode>
    </CaregiverInfo>
  </CreateCaregiverResult>
</CreateCaregiverResponse>
```

## UpdateCaregiverDemographics

Use this method to update Caregiver demographic information.

### Request

```
<UpdateCaregiverDemographics
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <CaregiverInfo>
    <CaregiverID>int</CaregiverID>
    <FirstName>string</FirstName>
    <MiddleName>string</MiddleName>
    <LastName>string</LastName>
    <Initials>string</Initials>
    <Gender>string</Gender>
    <Dependents>string</Dependents>
```



```

<BirthDate>dateTime</BirthDate>
<CaregiverCode>int</CaregiverCode>
<AlternateCaregiverCode>string</AlternateCaregiverCode>
<MobileID>int</MobileID>
<MobileIDType>string</MobileIDType>
<SSN>string</SSN>
<EthnicityID>int</EthnicityID>
<RehireDate>dateTime</RehireDate>
<CountryOfBirth>string</CountryOfBirth>
<MaritalStatus>string</MaritalStatus>
<StatusID>int</StatusID>
<TerminatedDate>dateTime</TerminatedDate>
<EmploymentTypes>
  <Discipline>string</Discipline>
  <Discipline>string</Discipline>
</EmploymentTypes>
<EmployeeID>string</EmployeeID>
<ApplicationDate>dateTime</ApplicationDate>
<TeamID>int</TeamID>
<BranchID>int</BranchID>
<LocationID>int</LocationID>
<HHAPCARegistryNumber>string</HHAPCARegistryNumber>
<HHAPCARegistryCheckedDate>dateTime</HHAPCARegistryCheckedDate>
<NYCRegistryCheckedDate>dateTime</NYCRegistryCheckedDate>
<ReferralSourceID>int</ReferralSourceID>
<ReferralPerson>string</ReferralPerson>
<Address>
  <Street1>string</Street1>
  <Street2>string</Street2>
  <City>string</City>
  <State>string</State>
  <Zip5>int</Zip5>
  <Zip4>int</Zip4>
  <HomePhone>string</HomePhone>
  <Phone2>string</Phone2>
  <Phone3>string</Phone3>
</Address>
<EmergencyContacts>
  <EmergencyContact>
    <Name>string</Name>
    <RelationshipID>int</RelationshipID>
    <OtherRelationship>string</OtherRelationship>
    <Address>string</Address>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
  </EmergencyContact>
  <EmergencyContact>
    <Name>string</Name>
    <RelationshipID>int</RelationshipID>
    <OtherRelationship>string</OtherRelationship>
    <Address>string</Address>
    <Phone1>string</Phone1>
    <Phone2>string</Phone2>
  </EmergencyContact>
</EmergencyContacts>
<NotificationPreferences>
  <MethodID>int</MethodID>
  <Email>string</Email>
  <MobileOrSMS>string</MobileOrSMS>
  <VoiceMessage>string</VoiceMessage>
</NotificationPreferences>

```

```

<Language1>int</Language1>
<Language2>int</Language2>
<Language3>int</Language3>
<Language4>int</Language4>
<ProfessionalLicensenumber>string</ProfessionalLicensenumber>
<NPI>string</NPI>
<EmployeeType>string</EmployeeType>
<SecondaryOffices>
  <SecondaryOffice>
    <ID>string</ID>
  </SecondaryOffice>
  <SecondaryOffice>
    <ID>string</ID>
  </SecondaryOffice>
</SecondaryOffices>
<InactiveReason>int</InactiveReason>
<InactiveNote>string</InactiveNote>
<SignedPayrollAgreementDate>dateTime</SignedPayrollAgreementDate>
</CaregiverInfo>
</UpdateCaregiverDemographics>

```

**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.

Field	Description	Type	Data Type
CaregiverID	Primary key of Caregiver in HHAExchange.	Required	Number
FirstName		Required	String
MiddleName		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	<b>Male</b> or <b>Female</b>	Required	String
Dependents*		Optional	String
BirthDate	Format: <b>YYYY-MM-DD</b>	Required	Date
CaregiverCode	If not specified, a new number is autogenerated. If specified and a Caregiver with the same number exists in the Agency/Office, the operation fails.	Optional	Number
AlternateCaregiverCode*		Optional	String
MobileID	HHAExchange mobile application registration ID if the Caregiver is using the app.	Optional	Number
MobileIDType	<b>"Clinical"</b> or <b>"Non Clinical"</b> Required if MobileID is specified	Situational	String
SSN	Format: <b>999-99-9999</b> . <i>RehireDate</i> (see below) is required if there is another Caregiver with the same SSN in the system.	Situational	String
EthnicityID*	Retrieve a list of valid values and IDs by calling the <i>GetEthnicity</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
RehireDate	<b>YYYY-MM-DD</b> – Required if attempting to create a Caregiver with an SSN that already exists in another Caregiver.	Situational	Date
CountryOfBirth*		Optional	String
MaritalStatus*	Possible Values: <b>Married</b> or <b>Single</b>	Optional	String

<b>StatusID</b>	Valid Caregiver <b>Employee</b> Status: "0" - Inactive "3" - On Leave "1" – Active "4" - Terminated "2" - Hold Valid Caregiver Applicant Status: "1" – Active "5" – Rejected	Required	Number
<b>TerminatedDate</b>	Date of Terminate of Caregiver. Required only when status is terminated	Situational	Date
<b>EmploymentTypes</b>			
<b>Discipline</b>	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 <i>GetDisciplines</i> method documented in the <i>Reference Tables Section</i> .	Required	String
<b>EmployeeID*</b>	An optional application defined value to identify the Caregiver uniquely. Usually this is the Caregiver ID in the external system (calling application).	Situational	String
<b>ApplicationDate</b>	Format: <b>YYYY-MM-DD</b>	Required	Date
<b>TeamID*</b>	Retrieve a list of <i>Caregiver Teams</i> by calling the <i>GetCaregiverTeams</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>BranchID*</b>	Retrieve a list of Branches by calling the <i>GetBranches</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>LocationID*</b>	A list of Locations can be retrieved by calling the <i>GetLocations</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
<b>HHAPCARegistryNumber*</b>		Situational	String
<b>HHAPCARegistryCheckedDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date
<b>NYCRegistryCheckedDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date
<b>ReferralSourceID*</b>	Call <i>GetCaregiverReferralSources</i> to retrieve a list of valid values.	Optional	Number
<b>ReferralPerson*</b>		Optional	String
<b>Address</b>			
<b>Street1*</b>		Situational	String
<b>Street2*</b>		Optional	String
<b>City*</b>		Situational	String
<b>State*</b>		Situational	String
<b>Zip5*</b>	5 Digit Zip Code	Required	Number
<b>Zip4*</b>	4 Digit Zip Code	Situational	Number
<b>HomePhone*</b>	Format: <b>999-999-9999</b>	Optional	Number
<b>Phone2*</b>	Format: <b>999-999-9999</b>	Optional	Number
<b>Phone3*</b>	Format: <b>999-999-9999</b>	Optional	Number
<b>EmergencyContacts</b>			
<b>Name*</b>	Name	Optional	String
<b>RelationshipID*</b>	Retrieve a list of valid relationships and their IDs by calling <i>GetEmergencyContactRelationships</i> method documented in the <i>Reference Tables</i> section	Optional	Number
<b>OtherRelationship</b>	EmergencyContactsRelationshipID must be “-2” to pass a value in this field.	Optional	String
<b>Address*</b>	Address	Optional	String
<b>Phone1*</b>	Format: <b>999-999-9999</b>	Optional	String
<b>Phone2*</b>	Format: <b>999-999-9999</b>	Optional	String
<b>NotificationPreferences</b>			
<b>MethodID*</b>	Call <i>GetCaregiverNotificationMethods</i> to get a list of possible values	Situational	Number

<b>Email*</b>		Situational	String
<b>MobileOrSMS*</b>	Specify Mobile Number to receive Text Message. Format: <b>999-999-9999</b>	Situational	Number
<b>VoiceMessage*</b>	Specify phone number to receive voice message notifications. Format: <b>999-999-9999</b>	Situational	Number
<b>Language1*</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Situational	Number
<b>Language2*</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Situational	Number
<b>Language3*</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Optional	Number
<b>Language4*</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Optional	Number
<b>ProfessionalLicensenumber*</b>		Situational	String
<b>NPI*</b>		Situational	String
<b>EmployeeType</b>	Possible Values: <b>Applicant</b> or <b>Employee</b> If not specified, the Employee value taken by default	Required	String
<b>InactiveReason</b>	Retrieve a list of Inactive Reasons by calling the <i>GetStatusReasonsForCaregiver</i> in the <i>Reference Tables</i> section	Optional	Number
<b>SecondaryOffices ID*</b>	ID of Secondary Office	Optional	String
<b>InactiveReason*</b>	Retrieve a list of Inactive Reasons by calling the method <i>GetStatusReasonsForCaregiver</i> method documented in the <i>Reference Tables</i> section	Optional	Number
<b>InactiveNote*</b>		Situational	String
<b>SignedPayrollAgreementDate</b>	Format: <b>YYYY-MM-DD</b>	Optional	Date

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 specify under *EmergencyContacts* section, *RelationshipID* should be - 2 only.

### Response

```
<UpdateCaregiverDemographicsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdateCaregiverDemographicsResult>
    <CaregiverInfo>
      <CaregiverID>int</CaregiverID>
    </CaregiverInfo>
  </UpdateCaregiverDemographicsResult>
</UpdateCaregiverDemographicsResponse>
```

# 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...
<b>SearchVisits</b>	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.
<b>GetScheduleInfo</b>	Returns schedule information related to the Visit specified by an ID.
<b>GetVisitInfoV2</b>	Returns visit information related to the visit specified by an ID.
<b>GetVisitBillInfo</b>	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...
<b>CreateSchedule</b>	Create Schedule information in HHAExchange.
<b>UpdateSchedule</b>	Update Schedule based on given Schedule Information in HHAExchange.
<b>DeleteVisit</b>	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

```
<SearchVisits
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <SearchFilters>
    <StartDate>dateTime</StartDate>
    <EndDate>dateTime</EndDate>
    <PatientID>int</PatientID>
    <CaregiverID>int</CaregiverID>
    <OfficeID>int</OfficeID>
  </SearchFilters>
</SearchVisits>
```

Field	Description	Type	Data Type
<b>StartDate</b>	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

<b>EndDate</b>	End of the date range to search for. Format: <b>YYYY-MM-DD</b> 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
<b>PatientID</b>	Patient ID to search. Required if Caregiver ID & StartDate and EndDate is not specified.	Situational	Number
<b>CaregiverID</b>	Caregiver ID to search. Required if PatientID & StartDate and EndDate is not specified.	Situational	Number
<b>OfficeID</b>	OfficeID is required in below condition to search Visit: <ul style="list-style-type: none"> <li>It is required with StartDate &amp; EndDate.</li> <li>It is required with Patient ID / Caregiver ID</li> </ul>	Optional	Number

### Response

```
<SearchVisitsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <SearchVisitsResult>
    <Visits>
      <VisitID>int</VisitID>
      <VisitID>int</VisitID>
    </Visits>
  </SearchVisitsResult>
</SearchVisitsResponse>
```

## GetScheduleInfo

Retrieves schedule information of a specific visit by its ID.

### Request

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

Field	Description	Type	Data Type
<b>ID</b>	Primary Key of the Visit record to be retrieved. Retrieve ID by calling the <i>SearchVisits</i> method described earlier	Required	Number

### Response

```
<GetScheduleInfoResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetScheduleInfoResult>
    <ScheduleInfo>
      <ID>int</ID>
      <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>int</CaregiverCode>
        <TimeAndAttendancePIN>int</TimeAndAttendancePIN>
        <PayCode xsi:nil="true" />
    </Caregiver>
    <ScheduleStartTime>string</ScheduleStartTime>
    <ScheduleEndTime>string</ScheduleEndTime>
    <PrimaryBillTo>
        <Contract xsi:nil="true" />
        <ServiceCode xsi:nil="true" />
        <Hours>int</Hours>
        <Minutes>int</Minutes>
    </PrimaryBillTo>
    <SecondaryBillTo>
        <Contract xsi:nil="true" />
        <ServiceCode xsi:nil="true" />
        <Hours>int</Hours>
        <Minutes>int</Minutes>
    </SecondaryBillTo>
    <LastModifiedDate>string</LastModifiedDate>
</ScheduleInfo>
</GetScheduleInfoResult>
</GetScheduleInfoResponse>

```

## GetVisitInfoV2

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

### Request

```

<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>

```

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

```

<GetVisitInfoV2Response
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
    <GetVisitInfoV2Result>
        <VisitInfo>
            <ID>int</ID>
            <VisitDate>string</VisitDate>
            <Patient>
                <ID>int</ID>
                <AdmissionNumber>string</AdmissionNumber>
                <FirstName>string</FirstName>
                <LastName>string</LastName>
            </Patient>
        </VisitInfo>
    </GetVisitInfoV2Result>
</GetVisitInfoV2Response>

```

```

<Caregiver>
  <ID>int</ID>
  <FirstName>string</FirstName>
  <LastName>string</LastName>
  <CaregiverCode>string</CaregiverCode>
  <TimeAndAttendancePIN>string</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>
  <SupervisorName>string</SupervisorName>
</Verification>
<Timesheet>
  <Required>string</Required>
  <Approved>string</Approved>
</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 xsi:nil="true" />
  <Task xsi:nil="true" />
</TasksPerformed>
<VisitType>string</VisitType>
<ScheduleDuration>
  <ScheduleDurationHours>int</ScheduleDurationHours>
  <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
</ScheduleDuration>
<ClockInEvvtType>string</ClockInEvvtType>
<ClockOutEvvtType>string</ClockOutEvvtType>
<VisitAggregationStatus>
  <Status>string</Status>
  <StatusDate>dateTime</StatusDate>
</VisitAggregationStatus>
<BilledAmount>string</BilledAmount>
<BudgetNumber>int</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>
</GetVisitInfoV2Result>
</GetVisitInfoV2Response>

```

Field	Description	Data Type
<b>ID</b>	Primary Key of the Visit record to be retrieved. Obtain ID by calling the <i>SearchVisits</i> method described earlier.	Number
<b>VisitDate</b>	Visit/Schedule Date Format: <b>YYYY-MM-DD</b>	Date
<b>Patient</b>		
<b>ID</b>		
<b>AdmissionNumber</b>		
<b>FirstName</b>		
<b>LastName</b>		
<b>Caregiver</b>		
<b>ID</b>		
<b>FirstName</b>		
<b>LastName</b>		
<b>CaregiverCode</b>		
<b>TimeAndAttendancePIN</b>		
<b>PayCode</b>		
<b>ScheduleStartTime</b>	Schedule Start Time Format: <b>yyyy-mm-dd hh:mm</b>	String
<b>ScheduleEndTime</b>	Schedule End Time Format: <b>yyyy-mm-dd hh:mm</b>	String
<b>VisitStartTime</b>	Visit Start Time Format: <b>yyyy-mm-dd hh:mm</b>	String
<b>VisitEndTime</b>	Visit End Time Format: <b>yyyy-mm-dd hh:mm</b>	String
<b>EVVStartTime</b>	EVV Start Time Format: <b>yyyy-mm-dd hh:mm</b>	String
<b>EVVEndTime</b>	EVV End Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>IsMissedVisit</b>	Visit Missed or Not. Value: <b>YES/NO</b>	String
<b>TTOT</b>		
<b>Hours</b>	Approved Travel Time Hours	Number
<b>Minutes</b>	Approved Travel Time Minutes	Number
<b>Verification</b>		
<b>VerifiedBy</b>		
<b>Notes</b>		
<b>VerifiedDate</b>		
<b>VerifiedTime</b>		
<b>SupervisorName</b>		
<b>Timesheet</b>		
<b>Required</b>	Timesheet Required: <b>YES/NO</b>	
<b>Approved</b>	Timesheet Approved: <b>YES/NO</b>	
<b>Payroll</b>		
<b>PayrollType</b>	Payroll Type	String
<b>PayCode</b>	Pay Code	String
<b>ServiceHours</b>	Service Hours	String

TT-OTHours	TT/OTHours	String
PayUnits	Pay Units	String
PayRate	Pay Rate	String
<b>PrebillingProblems</b>		
PrebillingProblemInfo	List of Prebilling Problems	String
<b>TasksPerformed</b>		
POCTaskCode		
AdditionalValue		
Status		
Category		
Duty		
Minutes		
VisitType	VisitType	String
<b>ScheduleDuration</b>		
ScheduleDurationHours	ScheduleDurationHours Format: HH	Number
ScheduleDurationMinutes	ScheduleDurationMinutes Format: MM	Number
ClockInEvvType	ClockInEvvType	String
ClockOutEvvType	ClockOutEvvType	String
<b>VisitAggregationStatus</b>		
Status	Approved   Hold   Rejected   Ready   Cancelled   Sent	String
StatusDate	Time Format: <b>YYYY-MM-DD HH:MM:MSS</b>	Date
BilledAmount	It will return TotalBillingAmount only if service code is dollar based service code for that visit.	Number
BudgetNumber	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: <b>HHMM</b>	String
TimeZone	TimeZone	String
SplitVisitID		Number
OriginalVisitID		Number
SuggestedStartTime	Time Format: <b>YYYY-MM-DD HH:MM</b>	String
SuggestedEndTime	Time Format: <b>YYYY-MM-DD HH:MM</b>	String

## GetVisitBillInfo

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

### Request

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

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

```

<GetVisitBillInfoResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetVisitBillInfoResult>
    <VisitBillInfo>
      <ID>int</ID>
      <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>string</TimeAndAttendancePIN>
        <PayCode xsi:nil="true" />
      </Caregiver>
      <ScheduleStartTime>string</ScheduleStartTime>
      <ScheduleEndTime>string</ScheduleEndTime>
      <VisitStartTime>string</VisitStartTime>
      <VisitEndTime>string</VisitEndTime>
      <IsMissedVisit>string</IsMissedVisit>
      <TTOT>
        <Hours>int</Hours>
        <Minutes>int</Minutes>
      </TTOT>
      <PrimaryBillTo>
        <Contract xsi:nil="true" />
        <ServiceCode xsi:nil="true" />
        <AdjustmentMinutes>int</AdjustmentMinutes>
        <IsBilled>string</IsBilled>
        <BilledRate>decimal</BilledRate>
        <BilledMinutes>decimal</BilledMinutes>
        <BilledAmount>decimal</BilledAmount>
        <Invoice xsi:nil="true" />
      </PrimaryBillTo>
      <SecondaryBillTo>
        <Contract xsi:nil="true" />
        <ServiceCode xsi:nil="true" />
        <AdjustmentMinutes>int</AdjustmentMinutes>
        <IsBilled>string</IsBilled>
        <BilledRate>decimal</BilledRate>
        <BilledMinutes>decimal</BilledMinutes>
        <BilledAmount>decimal</BilledAmount>
        <Invoice xsi:nil="true" />
      </SecondaryBillTo>
    </VisitBillInfo>
  </GetVisitBillInfoResult>
</GetVisitBillInfoResponse>

```

## CreateSchedule

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

**Note:** As per the screenshot below, if scheduling validations configured as **Validate** in Compliance Setup and Caregiver is non-compliant then it will not allow to create schedule.

Scheduling Validations	
I-9 Requirements:	<input type="radio"/> No <input type="radio"/> Warning <input checked="" type="radio"/> Validate
Criminal Background:	<input type="radio"/> No <input type="radio"/> Warning <input checked="" type="radio"/> Validate
Training School:	<input type="radio"/> No <input type="radio"/> Warning <input checked="" type="radio"/> Validate
Medicals/Other Compliance:	<input type="radio"/> No <input type="radio"/> Warning <input checked="" type="radio"/> Validate
Custom Compliance Fields:	<input type="radio"/> No <input type="radio"/> Warning <input checked="" type="radio"/> Validate

### Request

```
<CreateSchedule
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <ScheduleInfo>
    <PatientID>int</PatientID>
    <AdmissionID>string</AdmissionID>
    <PatientFirstName>string</PatientFirstName>
    <PatientLastName>string</PatientLastName>
    <PatientDateOfBirth>dateTime</PatientDateOfBirth>
    <ScheduleType>string</ScheduleType>
    <VisitType>string</VisitType>
    <ScheduleDurationHours>int</ScheduleDurationHours>
    <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
    <VisitDate>dateTime</VisitDate>
    <ScheduleStartTime>string</ScheduleStartTime>
    <ScheduleEndTime>string</ScheduleEndTime>
    <IsScheduleTemporary>string</IsScheduleTemporary>
    <CaregiverID>int</CaregiverID>
    <CaregiverCode>string</CaregiverCode>
    <CaregiverFirstName>string</CaregiverFirstName>
    <CaregiverLastName>string</CaregiverLastName>
    <CaregiverDateOfBirth>dateTime</CaregiverDateOfBirth>
    <PayCodeID>int</PayCodeID>
    <PayCodeName>string</PayCodeName>
    <IsCaregiverTemporary>string</IsCaregiverTemporary>
    <PrimaryBillTo>
      <ContractID>int</ContractID>
      <ContractName>string</ContractName>
      <ServiceCodeID>int</ServiceCodeID>
      <ServiceCodeName>string</ServiceCodeName>
      <Hours>int</Hours>
      <Minutes>int</Minutes>
      <BudgetNumber>int</BudgetNumber>
    </PrimaryBillTo>
  </ScheduleInfo>
</CreateSchedule>
```

```

<SecondaryBillTo>
  <ContractID>int</ContractID>
  <ContractName>string</ContractName>
  <ServiceCodeID>int</ServiceCodeID>
  <ServiceCodeName>string</ServiceCodeName>
  <Hours>int</Hours>
  <Minutes>int</Minutes>
</SecondaryBillTo>
<SuggestedStartTime>string</SuggestedStartTime>
<SuggestedEndTime>string</SuggestedEndTime>
</ScheduleInfo>
</CreateSchedule>

```

Field	Description	Type	Data Type
<b>PatientID</b>	Unique ID of the Patient in HHAExchange	Situational	Number
<b>AdmissionID</b>	Required If "PatientID" is not given. Patient Admission ID as seen in HHAX	Situational	String
<b>PatientFirstName</b>	Patient's First Name. Required If "PatientID" and "AdmissionID" is not given	Situational	String
<b>PatientLastName</b>	Patient's Last Name. Required If "PatientID" and "AdmissionID" is not given	Situational	String
<b>PatientDateOfBirth</b>	Patient's Date of Birth. Required If "PatientID" and "AdmissionID" is not given. Format: <b>YYYY-MM-DD</b>	Situational	Date
<b>ScheduleType</b>	Possible values: <b>Non-Skilled</b> or <b>Skilled</b>	Required	String
<b>VisitType</b>	It will allow Variable Schedule Types that exist in the HHAExchange office configuration. Possible Values: <ul style="list-style-type: none"> <li>· Daily Variable</li> <li>· Weekly Variable</li> <li>· No Schedule</li> <li>· Daily Fixed</li> </ul> If not specified, the "Daily Fixed" value is set by default.	Optional	String
<b>ScheduleDurationHours</b>	Format: <b>HH</b> Required if <b>Visit Type</b> is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Number
<b>ScheduleDurationMinutes</b>	Format: <b>MM</b> Required if <b>Visit Type</b> is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Number
<b>VisitDate</b>	Visit/Schedule Date Format: <b>YYYY-MM-DD</b>	Required	Date
<b>ScheduleStartTime</b>	Schedule Start time as per Agency/Office TimeZone. Format: <b>HHMM</b> Start time must be "0000" if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Time
<b>ScheduleEndTime</b>	Schedule Start End as per Agency/Office TimeZone. Format: <b>HHMM</b> End time must be "0000" if <b>Visit Type</b> is "Daily Variable", "Weekly Variable" or "No Schedule"	Required	Time
<b>IsScheduleTemporary</b>	Possible values: <b>"Yes"</b> or <b>"No"</b>	Optional	String
<b>CaregiverID</b>	Unique ID of the Caregiver in HHAExchange	Situational	Number
<b>CaregiverCode</b>	Caregiver Code in HHAExchange. Required If "CaregiverID" is not given	Situational	String
<b>CaregiverFirstName</b>	Caregiver's First Name. Required If "CaregiverID" and "CaregiverCode" is not given.	Situational	String
<b>CaregiverLastName</b>	Caregiver's Last Name. Required If "CaregiverID" and "CaregiverCode" is not given.	Situational	String
<b>CaregiverDateOfBirth</b>	Caregiver's Date of Birth. Required If "CaregiverID" and "CaregiverCode" is not given. Format: <b>YYYY-MM-DD</b>	Situational	Date

<b>PayCodeID</b>	Retrieve a list of <i>Pay Rate Code</i> by calling the method <i>GetCaregiverPayCodes</i> 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
<b>PayCodeName</b>	Existing valid Pay Code in HHAX. 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
<b>IsCaregiverTemporary</b>	Possible values: "Yes" or "No"	Optional	String
<b>PrimaryBillTo</b>			
<b>ContractID</b>	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>	Situational	Number
<b>ContractName</b>	Existing valid Contract Name in HHAX. 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
<b>ServiceCodeID</b>	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>	Situational	Number
<b>ServiceCodeName</b>	Existing valid Service Code in HHAX. 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
<b>Hours</b>	Hours: <b>HH</b>	Required	Number
<b>Minutes</b>	Minutes: <b>MM</b>	Required	Number
<b>BudgetNumber</b>	Required for UPR Contract if <b>Enable Budget Number flag marked as True</b> . Possible values: 1 to 5	Situational	Number
<b>SecondaryBillTo</b>			
<b>ContractID</b>	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.	Optional	Number
<b>ContractName</b>	Existing valid Contract Name in HHAExchange. Required If "ContractID" is not given	Situational	String
<b>ServiceCodeID</b>	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetContractServiceCodes</i> documented in the <i>Reference Tables</i> section	Optional	Number
<b>ServiceCodeName</b>	Existing valid Service Code exists in HHAExchange. Required If "ServiceCodeID" is not given	Situational	String
<b>Hours</b>	Hours: <b>HH</b> Require when passed SecondaryBillTo details applicable only for daily fixed type of visit	Situational	Number
<b>Minutes</b>	Minutes: <b>MM</b> Require when passed SecondaryBillTo details applicable only for daily fixed type of visit	Situational	Number
<b>SuggestedStartTime</b>	Format: <b>HHMM</b> Optional if visit type is "Weekly Variable" or "Daily Variable"	Optional	String
<b>SuggestedEndTime</b>	Format: <b>HHMM</b> Optional if visit type is "Weekly Variable" or "Daily Variable"	Optional	String

## Response

```
<CreateScheduleResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <CreateScheduleResult>
    <PatientID>int</PatientID>
    <VisitID>int</VisitID>
  </CreateScheduleResult>
</CreateScheduleResponse>
```

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

## UpdateSchedule

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

### Request

```
<UpdateSchedule
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <Authentication>
    <AppName>string</AppName>
    <AppSecret>string</AppSecret>
    <AppKey>string</AppKey>
  </Authentication>
  <ScheduleInfo>
    <VisitID>int</VisitID>
    <VisitType>string</VisitType>
    <ScheduleDurationHours>int</ScheduleDurationHours>
    <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
    <ScheduleStartTime>string</ScheduleStartTime>
    <ScheduleEndTime>string</ScheduleEndTime>
    <IsScheduleTemporary>string</IsScheduleTemporary>
    <CaregiverID>int</CaregiverID>
    <CaregiverCode>string</CaregiverCode>
    <CaregiverFirstName>string</CaregiverFirstName>
    <CaregiverLastName>string</CaregiverLastName>
    <CaregiverDateOfBirth>dateTime</CaregiverDateOfBirth>
    <PayCodeID>int</PayCodeID>
    <PayCodeName>string</PayCodeName>
    <IsCaregiverTemporary>string</IsCaregiverTemporary>
    <PrimaryBillTo>
      <ContractID>int</ContractID>
      <ContractName>string</ContractName>
      <ServiceCodeID>int</ServiceCodeID>
      <ServiceCodeName>string</ServiceCodeName>
      <Hours>int</Hours>
      <Minutes>int</Minutes>
      <BudgetNumber>int</BudgetNumber>
    </PrimaryBillTo>
    <SecondaryBillTo>
      <ContractID>int</ContractID>
      <ContractName>string</ContractName>
      <ServiceCodeID>int</ServiceCodeID>
      <ServiceCodeName>string</ServiceCodeName>
      <Hours>int</Hours>
      <Minutes>int</Minutes>
    </SecondaryBillTo>
    <ScheduleBillInfoEditReasonsID>int</ScheduleBillInfoEditReasonsID>
```



```

<Note>string</Note>
<IsUpdateOnlyBilledAmount>string</IsUpdateOnlyBilledAmount>
<BilledAmount>decimal</BilledAmount>
<SuggestedStartTime>string</SuggestedStartTime>
<SuggestedEndTime>string</SuggestedEndTime>
</ScheduleInfo>
</UpdateSchedule>

```

Field	Description	Type	Data Type
<b>VisitID</b>	Unique ID of the Visit/Schedule in HHAExchange.	Required	Date
<b>VisitType</b>	VisitType. It will allow valid visits type exists in HHAExchange office configuration.	Optional	String
<b>ScheduleDurationHours</b>	ScheduleDurationHours Format: <b>HH</b>	Required	Number
<b>ScheduleDurationMinutes</b>	ScheduleDurationMinutes Format: <b>MM</b>	Required	Number
<b>ScheduleStartTime</b>	Schedule Start time as per Agency/Office TimeZone. Format: <b>HHMM</b>	Required	Time
<b>ScheduleEndTime</b>	Schedule Start End as per Agency/Office TimeZone. Format: <b>HHMM</b>	Required	Time
<b>IsScheduleTemporary</b>	Possible values: “Yes” or “No”	Optional	String
<b>CaregiverID</b>	Unique ID of the Caregiver in HHAExchange.	Situational	Number
<b>CaregiverCode</b>	Caregiver Code in HHAExchange. Required If “CaregiverID” is not given.	Situational	String
<b>CaregiverFirstName</b>	Caregiver’s First Name. Required If “CaregiverID” and “CaregiverCode” is not given.	Situational	String
<b>CaregiverLastName</b>	Caregiver’s Last Name. Required If “CaregiverID” and “CaregiverCode” is not given.	Situational	String
<b>CaregiverDateOfBirth</b>	Caregiver’s Date of Birth. Required If “CaregiverID” and “CaregiverCode” is not given. Format: <b>YYYY-MMDD</b>	Situational	Date
<b>PayCodeID</b>	Retrieve a list of <i>Pay Rate Code</i> by calling the method <i>GetCaregiverPayCodes</i> 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
<b>PayCodeName</b>	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
<b>IsCaregiverTemporary</b>	Possible values: “Yes” or “No”	Optional	String
<b>PrimaryBillTo</b>			
<b>ContractID</b>	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>	Situational	Number
<b>ContractName</b>	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
<b>ServiceCodeID</b>	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 provided, then the “Default Service Code” of the Primary Contract is considered by default (if any).</i>	Situational	Number



<b>ServiceCodeName</b>	Existing valid Service Code in HHAExchange. Required If “ <b>ServiceCodeID</b> ” 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
<b>Hours</b>	Hours: <b>HH</b>	Required	Number
<b>Minutes</b>	Minutes: <b>MM</b>	Required	Number
<b>BudgetNumber</b>	Required for UPR Contract if <b>Enable Budget Number flag marked as True</b> . Possible values:1 to 5	Situational	Number
<b>SecondaryBillTo</b>			
<b>ContractID</b>	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.	Optional	Number
<b>ContractName</b>	Existing valid Contract Name in HHAExchange. Required If “ <b>ContractID</b> ” is not given.	Situational	String
<b>ServiceCodeID</b>	Retrieve a list of <i>Service Codes</i> by calling the <i>GetContractServiceCodes</i> method documented in the <i>Reference Tables</i> section.	Optional	Number
<b>ServiceCodeName</b>	Existing valid Service Code in HHAExchange. Required If “ <b>ServiceCodeID</b> ” is not given.	Situational	String
<b>Hours</b>	Hours: <b>HH</b> Required when passed SecondaryBillTo details applicable only for daily fixed type of visit.	Situational	Number
<b>Minutes</b>	Minutes: <b>MM</b> Required when passed SecondaryBillTo details applicable only for daily fixed type of visit.	Situational	Number
<b>ScheduleBillInfoEditReasonsID</b>	Retrieve a list of Schedule Bill Info Edit Reasons calling the <i>GetScheduleBillInfoEditReasons</i> method documented in the <i>Reference Tables</i> section.	Situational	Number
<b>Note</b>	Comments	Situational	String
<b>IsUpdateOnlyBilledAmount</b>	Possible values: “ <b>Yes</b> ” or “ <b>No</b> ” 1. Below flow works only for UPR or Internal patient 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
<b>BilledAmount</b>	If IsUpdateOnlyBilledAmount “ <b>Yes</b> ” then Billed Amount is required	Situational	Number
<b>SuggestedStartTime</b>	Format: <b>HHMM</b> Optional if visit type is “Weekly Variable” or “Daily Variable”	Optional	String
<b>SuggestedEndTime</b>	Format: <b>HHMM</b> Optional if visit type is “Weekly Variable” or “Daily Variable”	Optional	String

## Response

```

<UpdateScheduleResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <UpdateScheduleResult>
    <PatientID>int</PatientID>
    <VisitID>int</VisitID>
  </UpdateScheduleResult>
</UpdateScheduleResponse>

```

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

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

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 documented in the <i>Reference Tables</i> section	Required	Number
Note	Visit Delete Note Required if "Other" Reason ID is selected	Situational	Text

### Response

```
<DeleteVisitResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <DeleteVisitResult>
    <IsDeleted>int</IsDeleted>
    <VisitID>int</VisitID>
    <Status>string</Status>
  </DeleteVisitResult>
</DeleteVisitResponse>
```

# Billing Information

The following methods are available to access Payroll information.

Method	Allows users to...
<b>SearchBilledVisits</b>	search Billed Visits by Visit from Date 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

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

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

### Response

```
<SearchBilledVisitsResponse
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <SearchBilledVisitsResult>
    <SearchBilledVisits>
      <BilledVisits>
        <VisitID>int</VisitID>
        <PatientID>int</PatientID>
        <ContractID>int</ContractID>
        <OtherChargeID>int</OtherChargeID>
      </BilledVisits>
      <BilledVisits>
        <VisitID>int</VisitID>
        <PatientID>int</PatientID>
        <ContractID>int</ContractID>
        <OtherChargeID>int</OtherChargeID>
      </BilledVisits>
    </SearchBilledVisits>
  </SearchBilledVisitsResult>
</SearchBilledVisitsResponse>
```

Field	Description	Data Type
<b>VisitID</b>	Unique ID of the Schedule created/linked in HHAExchange.	Number
<b>PatientID</b>	Unique PatientID	Number

<b>ContractID</b>	Unique ContractID	Number
<b>OtherChargeID</b>	Unique OtherChargeID	Number

## Incremental Fetch Methods

---

- a) 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.
- b) 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:
  - a. **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.
- c) Every row returned by each of the *Incremental Fetch Methods* contain 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.
- d) 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.
- e) 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. **GetPatientAuthorizationChanges**
3. **GetDeletedPatientAuthorizations**
4. **GetCareGiverChangesV2**
5. **GetVisitChangesV2**

## GetPatientChangesV2

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

### Request

```
<GetPatientChangesV2
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>
</GetPatientChangesV2>
```

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

### Response

```
<GetPatientChangesV2Response
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetPatientChangesV2Result>
    <GetPatientChangesV2Info>
      <AgencyID>int</AgencyID>
      <OfficeID>int</OfficeID>
      <PayerID>int</PayerID>
      <PatientID>long</PatientID>
      <ModifiedDate>string</ModifiedDate>
      <FirstName>string</FirstName>
      <MiddleName>string</MiddleName>
      <LastName>string</LastName>
      <StatusID>int</StatusID>
      <AdmissionID>string</AdmissionID>
      <MRNumber>string</MRNumber>
      <Gender>string</Gender>
      <DateOfBirth>string</DateOfBirth>
      <PriorityCode>string</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>string</Zip5>
      <Zip4>string</Zip4>
      <CrossStreet>string</CrossStreet>
      <Direction>string</Direction>
      <HomePhone>string</HomePhone>
      <Phone2>string</Phone2>
      <Phone2Description>string</Phone2Description>
      <Phone3>string</Phone3>
      <Phone3Description>string</Phone3Description>
      <WageParity>string</WageParity>
```

```

<WageParityFromDate1>string</WageParityFromDate1>
<WageParityToDate1>string</WageParityToDate1>
<WageParityFromDate2>string</WageParityFromDate2>
<WageParityToDate2>string</WageParityToDate2>
<AlternateBilling>
  <IsAlternateBilling>string</IsAlternateBilling>
  <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>int</RelationshipID>
  <RelationshipName>string</RelationshipName>
  <RelationshipOther>string</RelationshipOther>
  <LiveswithPatient>string</LiveswithPatient>
  <HaveKeys>string</HaveKeys>
  <Phone1>string</Phone1>
  <Phone2>string</Phone2>
  <Address>string</Address>
</EmergencyContact1>
<EmergencyContact2>
  <Name>string</Name>
  <RelationshipID>int</RelationshipID>
  <RelationshipName>string</RelationshipName>
  <RelationshipOther>string</RelationshipOther>
  <LiveswithPatient>string</LiveswithPatient>
  <HaveKeys>string</HaveKeys>
  <Phone1>string</Phone1>
  <Phone2>string</Phone2>
  <Address>string</Address>
</EmergencyContact2>
<EmergencyPreparedness>
  <MobilityStatusID>int</MobilityStatusID>
  <EvacuationZoneID>int</EvacuationZoneID>
  <EvacuationLocationID>int</EvacuationLocationID>
  <OtherEvacuationLocation>string</OtherEvacuationLocation>
  <ElectricEquipmentDependency>string</ElectricEquipmentDependency>
  <Description>string</Description>
</EmergencyPreparedness>
<NurseID>int</NurseID>
<Coordinators>
  <Coordinator>string</Coordinator>
  <Coordinator>string</Coordinator>
</Coordinators>
<Frequency>string</Frequency>
<Cluster>string</Cluster>
<IsMutualLinked>string</IsMutualLinked>
<MutualLinkPatientID>long</MutualLinkPatientID>
<IsPrimary>string</IsPrimary>
<ServiceStartDate>string</ServiceStartDate>
<ProjectedDCDate>string</ProjectedDCDate>
<SourceOfAdmissionID>int</SourceOfAdmissionID>
<LocationID>int</LocationID>
<TeamID>int</TeamID>
<BranchID>int</BranchID>
<Alert>string</Alert>

```

```

<ReferralMasterId>int</ReferralMasterId>
<ReferralReceivedDate>string</ReferralReceivedDate>
<ReferralSourceId>int</ReferralSourceId>
<ReferralStatus>string</ReferralStatus>
<ReferralLostReasonId>int</ReferralLostReasonId>
<ReferralLostReasonNote>int</ReferralLostReasonNote>
<CommissionStatus>string</CommissionStatus>
<ReferralContactId>int</ReferralContactId>
<ReferralIntakePersonId>int</ReferralIntakePersonId>
<AccountManagerId>int</AccountManagerId>
<RequestSpecialAgencyID>int</RequestSpecialAgencyID>
<RequestGender>string</RequestGender>
<RequestPrimaryLanguage>int</RequestPrimaryLanguage>
<RequestSecondaryLanguage>int</RequestSecondaryLanguage>
<RequestOther>string</RequestOther>
<AllowedCaregiverAccessPatientInfoToMobileApp>
  <Caregiver xsi:nil="true" />
  <Caregiver xsi:nil="true" />
</AllowedCaregiverAccessPatientInfoToMobileApp>
<MedicaidStartDate>string</MedicaidStartDate>
<MedicaidEndDate>string</MedicaidEndDate>
<ManagedCareStartDate>string</ManagedCareStartDate>
<ManagedCareEndDate>string</ManagedCareEndDate>
</GetPatientChangesV2Info>
</GetPatientChangesV2Result>
</GetPatientChangesV2Response>

```

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: <b>YYYY-MM-DD HH:MM:SS.MSS</b>	Date/Time
FirstName		String
MiddleName		String
LastName		String
StatusID	Possible Values: <div> <div>"1" – Waiting</div> <div>"2" – Pending</div> <div>"3" – Active</div> <div>"4" – Hospitalized</div> <div>"5" – Discharged</div> <div>"6" – Partially Placed</div> <div>"8" – Hold</div> </div>	Number
AdmissionID		String
MRNumber	Patient's MR Number. (Displays as Patient ID in the application.)	String
Gender	Possible Values: <b>"Male"</b>   <b>"Female"</b>	String
DateOfBirth	Format: <b>YYYY-MM-DD</b>	Date
PriorityCode		Number
AcceptedServices		String
MedicaidNumber		String
MedicareNumber		String
SSN	Note: SSN information is empty by default. To access this information, contact HHAX Technical Support to set up the necessary access policies and security procedures to have this information accessible through the interface.	String
Address1		String
Address2		String

City		String
State		String
Zip5		Number
Zip4		String
CrossStreet		String
Direction		String
HomePhone	Format: XXX-XXX-XXXX	String
Phone2	Format: XXX-XXX-XXXX	String
Phone2Description		String
Phone3	Format: XXX-XXX-XXXX	String
Phone3Description		String
WageParity	Possible Values: "Yes"   "No"	String
WageParityFromDate1	Format: YYYY-MM-DD	Date
WageParityToDate1	Format: YYYY-MM-DD	Date
WageParityFromDate2	Format: YYYY-MM-DD	Date
WageParityToDate2	Format: YYYY-MM-DD	Date
IsAlternateBilling	Possible Values: "Yes"   "No"	String
AlternateBillingFirstName		String
AlternateBillingLastName		String
AlternateBillingMiddleName		String
AlternateBillingStreet		String
AlternateBillingCity		String
AlternateBillingState		String
AlternateBillingZipCode		String
EmergencyContact Name		String
EmergencyContact1RelationshipID	Retrieve a list of valid Relationships and corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented in the <i>Reference Tables</i> section.	Number
EmergencyContact1RelationshipName		String
EmergencyContact1RelationshipOther		String
EmergencyContact1LivesWithPatient	Possible Values: "Yes"   "No"	String
EmergencyContact1HaveKeys	Possible Values: "Yes"   "No"	String
EmergencyContact1Phone1	Format: XXX-XXX-XXXX	String
EmergencyContact1Phone2	Format: XXX-XXX-XXXX	String
EmergencyContact1Address		String
EmergencyContact2Name		String
EmergencyContact2RelationshipID	Retrieve a list of valid Relationships and corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented in the <i>Reference Tables</i> section.	Number
EmergencyContact2RelationshipName		String
EmergencyContact2RelationshipOther		String
EmergencyContact2LivesWithPatient		String
EmergencyContact2HaveKeys	Possible Values: "Yes"   "No"	String
EmergencyContact2Phone1	Possible Values: "Yes"   "No"	String
EmergencyContact2Phone2	Format: XXX-XXX-XXXX	String
EmergencyContact2Address	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 <i>Reference Tables</i> section.	Number
EvacuationZoneID	Retrieve a list of valid Evacuation Zones and corresponding ID by calling the <i>GetEvacuationZones</i> method as documented in the <i>Reference Tables</i> section.	Number



<b>EvacuationLocationID</b>	Retrieve a list of valid Evacuation Locations and corresponding ID by calling the <i>GetEvacuationLocations</i> method as documented in the Reference Tables section.	Number
<b>OtherEvacuationLocation</b>		String
<b>ElectricEquipmentDependency</b>		String
<b>Description</b>		String
<b>NurseID</b>	Retrieve a list of valid Nurses and corresponding by calling the <i>GetNurses</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>Coordinators</b>		String
<b>Frequency</b>		String
<b>Cluster</b>	Possible Values: "Yes"   "No"	String
<b>IsMutualLinked</b>	Possible Values: "Mutual" or "Link"	String
<b>MutualLinkPatientID</b>	Mutual/Link Patient ID	Number
<b>IsPrimaryPatient</b>	Possible Values: "Yes"   "No"	String
<b>ServiceStartDate</b>	Format: YYYY-MM-DD	Date
<b>ProjectedDCDate</b>	Format: YYYY-MM-DD	Date
<b>SourceOfAdmissionID</b>	Retrieve a list of <i>Source of Admissions</i> by calling the <i>GetSourceOfAdmissions</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>LocationID</b>	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method as documented in the <i>Reference Tables Section</i> .	Number
<b>TeamID</b>	A list of <i>Patient Teams</i> can be retrieved by calling the method <i>GetPatientTeams</i> documented in the <i>Reference Tables Section</i> .	Number
<b>BranchID</b>	A list of <i>Branches</i> can be retrieved by calling the method <i>GetBranches</i> documented in the <i>Reference Tables Section</i> .	Number
<b>Alert</b>		String
<b>ReferralMasterId</b>	Referral ID	Number
<b>ReferralReceivedDate</b>	Referral Received Date	Date
<b>ReferralSourceId</b>	Referral Source ID	Number
<b>ReferralStatusID</b>	Retrieve a list of Referral Statuses by calling the <i>GetReferralStatus</i> method as documented in the <i>Reference Tables</i> section.	String
<b>ReferralLostReasonId</b>	Applicable if "ReferralStatus" is "Lost"	Number
<b>ReferralLostReasonNote</b>	Applicable if "ReferralStatus" is "Lost"	String
<b>CommissionStatus</b>	Possible Values: "Not Paid" or "Paid"	String
<b>ReferralContactId</b>	Referral Contact Person ID	Number
<b>ReferralIntakePersonId</b>	Referral Intake Person ID	Number
<b>AccountManagerId</b>	Referral Account Manager ID	Number
<b>RequestSpecialAgencyID</b>		Number
<b>RequestGender</b>	Possible Values: "Male"   "Female"	String
<b>RequestPrimaryLanguage</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>RequestSecondaryLanguage</b>	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
<b>RequestOther</b>		String
<b>AllowedCaregiverAccessPatientInfoTo MobileApp</b>		
<b>List of Caregivers</b>		
<b>Caregiver ID</b>	Number	
<b>Caregiver Name</b>	String	

# GetPatientAuthorizationChanges

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

## Request

```
<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>
```

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

## Response

```
<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>

```

Field	Description	Data Type
<b>Patient</b>		
<b>ID</b>	Patient ID	Number
<b>AdmissionNumber</b>	Admission Number	Number
<b>FirstName</b>	FirstName	String
<b>LastName</b>	LastName	String
<b>UpdatedDate</b>	Last Updated Date Format: YYYY-MM-DD HH:MM	DateTime
<b>OfficeID</b>	OfficeID	Number
<b>AuthorizationID</b>	Authorization ID of the patient	
<b>Contract</b>		
<b>ID</b>	Contract ID	Number
<b>Name</b>	Contract Name	String
<b>Discipline</b>		
<b>ID</b>	Discipline ID	Number
<b>Name</b>	Discipline Name	String
<b>AuthorizationNumber</b>	Authorization Number	String
<b>ServiceCode</b>		
<b>ID</b>	ServiceCode ID	Number
<b>Name</b>	ServiceCode Name	String
<b>StartDate</b>	Start Date	String
<b>StopDate</b>	Stop Date	String
<b>MaxUnits</b>	Max Units	Decimal
<b>RemainingUnits</b>	Remaining Units	Decimal
<b>BankedHours</b>	Banked Hours	String
<b>Period</b>	Return Period ID, Name details	Number

<b>DailyMaxAuthorization</b>		
<b>Sunday</b>	Check DailyMaxAuthorization for Sunday	Number
<b>Monday</b>	Check DailyMaxAuthorization for Monday	Number
<b>Tuesday</b>	Check DailyMaxAuthorization for Tuesday	Number
<b>Wednesday</b>	Check DailyMaxAuthorization for Wednesday	Number
<b>Thursday</b>	Check DailyMaxAuthorization for Thursday	Number
<b>Friday</b>	Check DailyMaxAuthorization for Friday	Number
<b>Saturday</b>	Check DailyMaxAuthorization for Saturday	Number
<b>WeeklyMaxAuthorization</b>	Weekly Max Authorization	Number
<b>EntirePeriodMaxAuthorization</b>	Entire Period Max Authorization	Number
<b>MonthlyPeriodMaxAuthorization</b>	Monthly Period Max Authorization	Number
<b>SpecificDateType</b>	Specific Date Type	String
<b>Weekday</b>	Weekday	String
<b>Weekend</b>	Weekend	String
<b>Notes</b>	Notes	String
<b>IsAdditionalRule</b>	Check if AdditionalRule is present	String
<b>AdditionalRules</b>		
<b>AdditionalRule</b>	List of AdditionalRules	
<b>AdditionalRuleID</b>	Additional Rule ID	Number
<b>MaximumVisits</b>	MaximumVisits	Number
<b>Period</b>		
<b>ID</b>	Period ID	Number
<b>Name</b>	Period Name	String
<b>Hours</b>	Hours	Number
<b>BillingDiagnosisCodes</b>		
<b>BillingDiagnosisCode</b>	List of Billing Diagnosis Codes	
<b>DiagnosisCode</b>	Diagnosis Code	String
<b>Description</b>	Description	String
<b>IsPrimary</b>	IsPrimary	String
<b>AdmittingDiagnosis</b>	Admitting Diagnosis	String
<b>BlackOutDates</b>		
<b>BlackOutDate</b>	List of BlackOutDates	
<b>FromDate</b>	FromDate	String
<b>ToDate</b>	ToDate	String
<b>BlackOutDateNotes</b>	BlackOutDateNotes	String
<b>ProviderNumber</b>	ProviderNumber	Number

## GetDeletedPatientAuthorizations

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

### Request

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

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

## Response

```
<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>
    <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>
```

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

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

```
<GetCaregiverChangesV2
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>
</GetCaregiverChangesV2>
```

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.	Required	Date/Time

### Response

```
<GetCaregiverChangesV2Response
xmlns="https://www.hhaexchange.com/apis/hhaws.integration">
  <GetCaregiverChangesV2Result>
    <GetCaregiverChangesV2Info>
      <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>
      <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>
</GetCaregiverChangesV2Info>
</GetCaregiverChangesV2Result>
</GetCaregiverChangesV2Response>

```

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 •Native Hawaiian •Black •Unknown •Hispanic •Two or More Races •American Indian •Caribbean Indian •Asian •Pacific Islander	String
CaregiverMobileID	Caregiver Mobile ID	String
CaregiverMobileIDType	Caregiver's Mobile ID type	String
Rehire	Caregiver is Rehire or Not Possible Values: <b>Yes</b> or <b>No</b>	String
RehireDate	Caregiver Rehire Date	String
CountryOfBirth		String
MaritalStatus	Possible values: <b>S</b> (Single) or <b>M</b> (Married)	String
Dependents		String
EmployeeType	Possible Values: <b>A</b> (Applicant) or <b>E</b> (Employee)	String
Status	Possible Values: •Inactive •On Leave •Active •Terminated •Hold •Rejected	String
StatusReason	It is Applicable for all status and for applicant and employee types. Retrieve a list of Status Reasons by calling the <i>GetStatusReasonsForCaregiver</i> 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



<b>Sent105</b>	Only Applicable if "Status" is "Terminated". Possible values: <b>Y</b> (Yes) or <b>N</b> (No)	String
<b>EmployeeID</b>		String
<b>ApplicationDate</b>	Format: <b>YYYY-MM-DD</b>	String
<b>TeamID</b>	Retrieve a list of <i>Caregiver Teams</i> by calling the <i>GetCaregiverTeams</i> method documented in the <i>Reference Tables</i> section.	Number
<b>LocationID</b>	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method documented in the <i>Reference Tables</i> section.	Number
<b>BranchID</b>	Retrieve a list of <i>Branches</i> by calling the <i>GetBranches</i> method documented in the <i>Reference Tables</i> section.	Number
<b>Payer</b>		String
<b>Registrynumber</b>		String
<b>RegistryDate</b>	Date the Caregiver information was entered/checked in the registry. Format: <b>YYYY-MM-DD</b>	String
<b>ReferralSourceID</b>	Retrieve a list of <i>Referral Sources</i> by calling the <i>GetCaregiverReferralSources</i> method documented in the <i>Reference Tables</i> section.	Number
<b>ReferralPerson</b>		String
<b>SignedPayrollAgreement</b>	Possible values: <b>Y</b> (Yes) or <b>N</b> (No)	String
<b>SignedPayrollAgreementDate</b>	Format: <b>YYYY-MM-DD</b>	String
<b>ExclusionListCheckedOn</b>	Format: <b>YYYY-MM-DD</b>	String
<b>ExclusionListStatus</b>	Possible values: <b>Y</b> (Yes) or <b>N</b> (No)	String
<b>AddressStreet1</b>		String
<b>AddressStreet2</b>		String
<b>AddressCity</b>		String
<b>AddressState</b>		String
<b>AddressZip5</b>		String
<b>AddressZip4</b>		String
<b>AddressHomePhone</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>AddressPhone2</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>AddressPhone3</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>EmergencyContact1Name</b>		String
<b>EmergencyContact1Address</b>		String
<b>EmergencyContact1RelationshipID</b>	Retrieve a list of valid Relationships with corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented under the <i>Reference Tables</i> section.	Number
<b>EmergencyContact1RelationshipName</b>		String
<b>EmergencyContact1RelationshipOther</b>	Only Applicable if "Emergency1RelationshipName1" is " <b>Other</b> "	String
<b>EmergencyContact1Phone1</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>EmergencyContact1Phone2</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>EmergencyContact2Name</b>		String
<b>EmergencyContact2Address</b>		String
<b>EmergencyContact2RelationshipID</b>	Retrieve a list of valid Relationships with corresponding ID by calling the <i>GetEmergencyContactRelationships</i> method documented in the <i>Reference Tables</i> section.	Number
<b>EmergencyContact2RelationshipName</b>		String
<b>EmergencyContact2RelationshipOther2</b>	Only Applicable if "Emergency2RelationshipName1" is " <b>Other</b> "	String
<b>EmergencyContact2Phone1</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>EmergencyContact2Phone2</b>	Format: <b>XXX-XXX-XXXX</b>	String
<b>NotificationMethodID</b>	Call <i>GetCaregiverNotificationMethods</i> to get a list of possible values.	Number

NotificationEmail		String
NotificationMobileOrSMS	Format: XXX-XXX-XXXX	String
NotificationVoicemail	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
I9VerifyNumber	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

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

Field	Description	Type	Data Type
ModifiedAfter	Specify a date/time value in EST to retrieve rows modified/created after the given time.	Required	Date/Time

### Response

```
<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>
    </Patient>
  </GetVisitChangesV2Result>
</GetVisitChangesV2Response>
```

```

    <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>
    <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>
<TaskPerformed>
    <POCTaskCode>int</POCTaskCode>
    <AdditionalValue>decimal</AdditionalValue>
    <Status>string</Status>
    <Category>string</Category>
    <Duty>string</Duty>
    <Minutes>int</Minutes>
</TaskPerformed>
<VisitType>string</VisitType>
<ScheduleDuration>
    <ScheduleDurationHours>int</ScheduleDurationHours>
    <ScheduleDurationMinutes>int</ScheduleDurationMinutes>
</ScheduleDuration>
<ClockInEvvType>string</ClockInEvvType>
<ClockOutEvvType>string</ClockOutEvvType>
<BilledAmount>string</BilledAmount>
<BudgetNumber>int</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>
  </GetVisitChangesV2Info>
</GetVisitChangesV2Result>
</GetVisitChangesV2Response>

```

Field	Description	Data Type
<b>VisitID</b>	Unique Visit ID	Number
<b>LastModifiedDate</b>	Last modified date of Visit/Schedule Format: <b>YYYY-MM-DD H:MM</b>	DateTime
<b>OfficeID</b>	Office ID	Number
<b>VisitDate</b>	Visit Date	String
<b>Patient</b>		
<b>ID</b>	Patient ID	Number
<b>AdmissionNumber</b>	Admission Number	Number
<b>FirstName</b>	FirstName	String
<b>LastName</b>	LastName	String
<b>Caregiver</b>		
<b>ID</b>	Caregiver ID	Number
<b>FirstName</b>	FirstName	String
<b>AdmissionNumber</b>	Admission Number	Number
<b>LastName</b>	LastName	String
<b>TimeAndAttendancePIN</b>	Time And Attendance PIN	Number
<b>PayCode</b>	PayCode	Number
<b>ScheduleStartTime</b>	Schedule Start Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>ScheduleEndTime</b>	Schedule End Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>VisitStartTime</b>	Visit Start Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>VisitEndTime</b>	Visit End Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>EVVStartTime</b>	EVV Start Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>EVVEndTime</b>	EVV End Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>IsMissedVisit</b>	Visit Missed or Not. Value: <b>YES/NO</b>	String
<b>TTOT</b>		
<b>Hours</b>	Approved Travel Time Hours	Number
<b>Minutes</b>	Approved Travel Time Minutes	Number
<b>Verification</b>		
<b>VerifiedBy</b>	VerifiedBy	String
<b>Notes</b>	Notes	String
<b>VerifiedDate</b>	VerifiedDate	DateTime
<b>VerifiedTime</b>	VerifiedTime	String
<b>SupervisorName</b>	SupervisorName	String
<b>Timesheet</b>		
<b>Required</b>	Timesheet Required: <b>YES/NO</b>	
<b>Approved</b>	Timesheet Approved: <b>YES/NO</b>	
<b>TasksPerformed</b>		
<b>POCTaskCode</b>		Number
<b>AdditionalValue</b>		Decimal
<b>Status</b>		String
<b>Category</b>		String
<b>Duty</b>		String
<b>Minutes</b>		Number
<b>VisitType</b>	VisitType	String

<b>ScheduleDuration</b>		
<b>ScheduleDurationHours</b>	ScheduleDurationHours Format: <b>HH</b>	Number
<b>ScheduleDurationMinutes</b>	ScheduleDurationMinutes Format: <b>MM</b>	Number
<b>ClockInEvvType</b>	ClockInEvvType	String
<b>ClockOutEvvType</b>	ClockOutEvvType	String
<b>BilledAmount</b>	It will return TotalBillingAmount only if service code is dollar based service code for that visit.	Number
<b>Budget Number</b>	It will return budget number value.	Number
<b>ActualHours</b>	It will return ActualHours value	String
<b>ActualHoursRounded</b>	It will return ActualHoursRounded value	String
<b>PayHours</b>	It will return PayHours value	String
<b>PayHoursUnrounded</b>	It will return PayHoursUnrounded value	String
<b>AdjustedHours</b>	It will return AdjustedHours value. Format: <b>HHMM</b>	String
<b>TimeZone</b>	TimeZone	String
<b>SplitVisitID</b>		Number
<b>OriginalVisitID</b>		Number
<b>SuggestedStartTime</b>	Time Format: <b>YYYY-MM-DD HH:MM</b>	String
<b>SuggestedEndTime</b>	Time Format: <b>YYYY-MM-DD HH:MM</b>	String

## Reference Tables

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

### Reading Reference Table Information

Method	Description/Returns...
<a href="#">GetCoordinators</a>	a list of Coordinators matching the given search criteria
<a href="#">GetPatientDisciplines</a>	a list of available patient disciplines that are assigned to the profile
<a href="#">GetEmergencyContactRelationships</a>	a list of valid entries for “emergency contact relationships”
<a href="#">GetBillingServiceCodes</a>	a list of Billing Service Codes
<a href="#">GetLanguages</a>	a list of languages for patient and caregiver
<a href="#">GetContracts</a>	a list of patient Contracts
<a href="#">GetContractServiceCode</a>	a list of Service Codes for given Contract
<a href="#">GetDisciplines</a>	a list of available disciplines
<a href="#">GetOffices</a>	a list of available offices
<a href="#">GetGenders</a>	a list of patient genders
<a href="#">GetCaregiverGender</a>	a list of caregiver genders
<a href="#">GetPatientDischargeTo</a>	a list of patient discharged to
<a href="#">GetContractDischargeReason</a>	a list of patient contract discharge reason
<a href="#">GetStatusReasonsForCaregiver</a>	available Status Reasons for Caregiver
<a href="#">GetCaregiverPayCodes</a>	a list caregiver Pay Codes
<a href="#">GetScheduleBillInfoEditReasons</a>	a list of schedule bill edit reasons
<a href="#">GetEthnicity</a>	a list of Caregiver Ethnicity values
<a href="#">GetSourceOfAdmissions</a>	a list of valid “source of admission” values
<a href="#">GetVisitDeleteReasons</a>	Retrieve visit delete reason for a visit ID
<a href="#">GetPatientAddress</a>	Retrieve address ID(s) for patient