



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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3.22	12/14/2023	RA	Enhanced following method for AlternateCaregiverCode field: SearchCaregivers

3.23	01/23/2024	RA	<p>Enhanced following method for Office ID: SearchVisits (Change description of StartDate & EndDate)</p> <p>Enhanced following methods for AdjustedHours field: GetVisitInfoV2 GetVisitChangesV2</p> <p>Enhanced following methods for ProviderNumber field: CreatePatientAuthorization UpdatePatientAuthorization GetPatientAuthorizationInfo GetPatientAuthorizationChanges</p> <p>Enhanced following methods for TimeZone field: GetCaregiverDemographics GetCaregiverChangesV2 GetVisitInfoV2 GetVisitChangesV2</p>
3.23	02/09/2024	RA	<p>Granted access to following method: GetScheduleInfo</p>
3.24	04/23/2024	NC	<p>Enhanced following method for SuggestedStartTime and SuggestedEndTime fields: CreateSchedule UpdateSchedule GetVisitInfoV2 GetVisitChangesV2</p>

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Overview

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

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

Error Codes

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

Writing Patient Information

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

Method	Description
CreatePatient	This method creates a new Patient record with the demographic information provided. If an Admission ID is not provided, a new Admission ID is auto generated by the system. If an Admission ID is provided and a Patient with the same Admission ID exists in the system, the method fails with an error message indicating that the Patient already exists.
UpdatePatientDemographics	Use this method to update Patient demographic information.
AddPatientContract	Add a new placement for the given Patient with the specified contract.
UpdatePatientContract	Update an existing placement for the given Patient with the specified contract.
CreatePatientAuthorization	Allows users to create a new authorization for a Patient.
UpdatePatientAuthorization	Use this method to update authorization information.

Interface Documentation

Web service methods related to Patient Information 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: <ul style="list-style-type: none"> • 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: 9999999999	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: 999-99-9999	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>
      <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>
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<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>
    </EmergencyContact>
  </EmergencyContacts>

```

```

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

AdmissionID	If not specified, the system auto generates a new Admission ID. If specified and another Patient with the same Admission ID exists in the system, the operation fails.	Optional	String
MRNumber	MR Number of the Patient. (Displays as Patient ID in the application).	Optional	Number
MedicaidNumber	Format: XX99999XX . <i>Field can be configured as required in Office Setup.</i>	Situational	String
MedicareNumber		Optional	String
AcceptedServices			
Discipline	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
ExpandedTimeForAutoVerification	Yes or No	Optional	String
AutomaticDownwardAdjustment	Yes or No	Optional	String
SSN	<i>Field can be configured as required in Office Setup.</i> Format: 999-99-9999	Situational	String
AllowDuplicate	Option 0 (No) or 1 (Yes)	Optional	Number
Alerts		Optional	String
SourceOfAdmission	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
TeamID	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
BranchID	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
LocationID	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
EligibilityDetail			
MedicaidStartDate	YYYY-MM-DD	Optional	Date
MedicaidEndDate	YYYY-MM-DD	Optional	Date
ManagedCareStartDate	YYYY-MM-DD	Optional	Date
ManagedCareEndDate	YYYY-MM-DD	Optional	Date
Address			
Address1	<i>Field can be configured as required in Office Setup.</i>	Situational	String
Address2		Optional	String
CrossStreet		Optional	String
City		Optional	String
Zip5	Format: 99999	Required	Number
Zip4	Format: 9999	Optional	Number
Notes		Optional	String
State		Optional	String
County		Optional	String

PhoneLocation	Phone Location Accepted Values: HomePhone1 / HomePhone2 / HomePhone3 Can be pass multiple Phones with pipe separated like HomePhone1 HomePhone2 HomePhone3	Optional	String
BeaconLocation	Beacon Location Accepted Values: Yes/No	Optional	String
FOBLocation	FOB Location. Accepted Values: Yes/No	Optional	String
IsPrimaryAddress	Value: Yes or No	Situational	String
AddressTypes	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
AlternateBilling			
FirstName	FirstName. <i>Field can be configured as required in Office Setup.</i>	Situational	String
MiddleName	MiddleName	Optional	String
LastName	LastName. <i>Field can be configured as required in Office Setup.</i>	Situational	String
Street	Street. <i>Field can be configured as required in Office Setup.</i>	Situational	String
City	City. <i>Field can be configured as required in Office Setup.</i>	Situational	String
State	State. <i>Field can be configured as required in Office Setup.</i>	Situational	String
Zip5	Zip5. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
Emergency Contacts			
Name	Name	Optional	String
RelationshipID	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
LivesWithPatient	LivesWithPatient – Yes or No	Optional	String
HaveKeys	HaveKeys – Yes or No	Optional	String
Phone1	Phone1 – Format: 999-999-9999	Optional	String
Phone2	Phone2 – Format: 999-999-9999	Optional	String
Address	Address	Optional	String
EmergencyPreparedness			
EvacuationZoneID	Call <i>GetEvacuationZones</i> to retrieve a list of acceptable values. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
EvacuationLocationID	Call <i>GetEvaluationLocations</i> to retrieve a list of valid entries. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
MobilityStatusID	Call <i>GetMobilityStatuses</i> to retrieve a list of acceptable values. <i>Field can be configured as required in Office Setup.</i>	Situational	Number
ElectricEquipmentDependency			
ElectricEquipmentID	Call <i>GetElectricEquipments</i> to retrieve a list of valid values. <i>Field can be configured as required in Office Setup.</i>	Optional	Number
EVVRequired	EVVRequired – Yes or No . <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>
<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>
<EVRRequired>string</EVRRequired>
<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
PlacementID	Unique ID of the Placement in HHAExchange.	Number
ContractID	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
ContractName	Name of the Contract	String
IsPrimaryContract	Possible Values: Y (Yes) or N (No)	String
AltPatientID	Alternate Patient Number	String
ServiceStartDate	Format: YYYY-MM-DD	Date
SourceOfAdmission		
ID	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
Name	Name of the Source of Admission	String
ServiceCode		
ID	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
Name	Name of the Service Code	String
DischargeDate	Format: YYYY-MM-DD	Date
DischargeTo		
ID	Patient Discharge to ID. Retrieve a list of <i>Patient Discharge To</i> by calling the method <i>GetPatientDischargeTo</i> documented in the <i>Reference Tables</i> section.	Number
Name	Name of the DischargeTo 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
PatientID	Unique ID of the Patient in HHAExchange	Required	Number
Contract ID	Retrieve a list of <i>Contracts</i> by calling the method <i>GetContracts</i> documented in the <i>Reference Tables</i> section.	Required	Number
StartDate	Format: YYYY-MM-DD	Required	Date
AltPateintID	Alternate Patient Number	Optional	String
ServiceCodeID	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
IsPrimaryContract	Possible Values: True or False	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: True or False . If Value is true, then only "AltPatientID" will be updated	Optional	String
AltPatientID	Alternate Patient Number	Optional	String
UpdateStartDate	Possible Values: True or False . If Value is true, then only "StartDate, SourceOfAdmissionID, StartNote" will be updated	Optional	String
StartDate	Format: YYYY-MM-DD Required if UpdateStartDate is true	Situational	Date
SourceOfAdmissionID	Retrieve a list of Source of Admissions by calling the <i>GetSourceOfAdmissions</i> method as documented in the Reference Tables section	Optional	Number
StartNote	Note	Optional	String

UpdateServiceCode	Possible Values: True or False . If Value is true, then only "ServiceCodeID" will be updated	Optional	String
ServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetBillingServiceCodes</i> documented in the Reference Tables section	Optional	Number
UpdateDischargeDate	Possible Values: True or False . If Value is true, then only "DischargeDate, DischargeToID, DischargeReasonID, DischargeNote" will be updated	Optional	String
DischargeDate	Format: YYYY-MM-DD	Optional	Date
DischargeToID	Patient Discharge To ID. Retrieve a list of Patient Discharge To by calling the <i>GetPatientDischargeTo</i> method as documented in the <i>Reference Tables</i> section. Required if UpdateDischargeDate is true and DischargeDate is not blank	Situational	Number
DischargeReasonID	Patient Discharge Reason ID. Retrieve a list of 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
DischargeNote	Note	Optional	String
IsPrimaryContract	Possible Values: True or False	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
PatientID	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
PatientID	ID of the Patient record to be queried	Required	Number
AuthorizationID	Unique ID of the authorization record returned. This can be obtained by making a call to <i>SearchPatientAuthorizations</i> method described earlier.	Required	Number

Response

```

<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>
  </CreateAuthorizationInfo>
</CreatePatientAuthorization>
```

```

</BillingDiagnosisCodes>
<ProgramCode>string</ProgramCode>
<BudgetAmount>decimal</BudgetAmount>
<ProviderNumber>string</ProviderNumber>
</CreateAuthorizationInfo>
</CreatePatientAuthorization

```

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

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

Response

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

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

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

Writing Caregiver Information

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

Method	Allows users to...
CreateCaregiver	create a New Caregiver record.
UpdateCaregiverDemographics	update Caregiver Demographic Information.

Interface Documentation

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

SearchCaregivers

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

Request

```
<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
FirstName	Caregiver's first name. Searches for partial names as well (using 'starts-with' algorithm)	Optional	Text
LastName	Caregiver's last name. Searches for partial names as well (using 'starts-with' algorithm)	Optional	Text
Status	Caregiver Status Filter. Possible values: <ul style="list-style-type: none"> • All • Hold • Active • On Leave • Inactive • Terminated • Rejected "All" is assumed if a filter is not specified.	Optional	Text
PhoneNumber	Searches for Caregivers matching a given phone number in Home Phone, Phone2 and Phone3 fields. The number should have 10 digits and no special characters are allowed.	Optional	Text
CaregiverCode	Searches for a Caregiver by Caregiver Code. An exact-match algorithm is used and partial search is not supported.	Optional	Text
EmployeeType	Caregiver Employee Type Filter values: <ul style="list-style-type: none"> • All • Employee • Applicant 	Optional	Text
SSN	Caregiver's SSN	Optional	Text
AlternateCaregiverCode	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
ID	Primary Key of the Caregiver to be retrieved. This call is typically followed by a call to <i>SearchCaregivers</i> method which retrieves the IDs of the desired caregivers using various search filters.	Required	Number

Response

```
<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
ID	Primary Key of the Caregiver to be retrieved.	Number
FirstName	Caregiver's FirstName	String
MiddleName	Caregiver's MiddleName	String
LastName	Caregiver's LastName	String
Intials	Caregiver's Initial	String
Gender	Possible Values: "Male" "Female"	String
CaregiverGenderID	Caregiver Gender ID in HHAExchange.	String
BirthDate	Caregiver's Birthdate. Format: YYYY-MM-DD	String

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

Phone3	Format: 999-999-9999	String
EmergencyContacts		
EmergencyContact	Emergency Contact Details	
Name	Emergency Contact Person Name	String
Relationship		
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
NotificationPreferences		
Method	Methods of Notification Preferences	
ID	Method ID	Number
Name	Method Name	String
Email	Email ID for Notification	String
MobileOrSMS	Mobile Number to receive Text Message. Format: 999-999-9999	String
VoiceMessage	Phone number to receive voice message notifications. Format: 999-999-9999	String
CaregiverOffices		
OfficeID	Office ID	Number
OfficeName	Office Name	String
IsPrimary	Is Primary	Bool
InactiveReasonID	InActive Reason ID	Number
InactiveReason	InActive Reason	String
InactiveNote	Inactive Note	String
TerminatedDate	Terminated Date	String
ProfessionalLicensenumber	Professional License number	String
NPINumber	NPINumber	String
SignedPayrollAgreementDate	Signed Payroll Agreement Date	String
LanguageID1	Language 1 ID	Number
Language1	Language 1	String
LanguageID2	Language 2 ID	Number
Language2	Language 2	String
LanguageID3	Language 3 ID	Number
Language3	Language 3	String
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>
<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>
  <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
OfficeID	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
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	Possible Value: Male or Female Get gender name list by calling <i>GetCaregiverGender</i> method documented in the <i>Reference Tables Section</i> .	Required	String
Dependents		Optional	String
BirthDate		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	“Clinical” or “Non Clinical” Required if MobileID is specified	Situational	String
SSN*	Format: 999-99-9999 . <i>RehireDate</i> (see below) is required if there is another Caregiver with the same SSN in the system.	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	String
RehireDate	YYYY-MM-DD – Required if attempting to create a Caregiver with an SSN that already exists in another Caregiver.	Situational	Date
CountryOfBirth		Optional	String
MaritalStatus	Possible Values: Married or Single	Optional	String

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

MobileOrSMS*	Specify Mobile Number to receive Text Message. Format: 999-999-9999	Situational	Number
VoiceMessage*	Specify phone number to receive voice message notifications. Format: 999-999-9999	Situational	Number
Language1*	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables Section</i> .	Situational	Number
Language2*	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables Section</i> .	Situational	Number
Language3	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables Section</i> .	Optional	Number
Language4	Retrieve a list of Languages by calling the method <i>GetLanguages</i> documented in the <i>Reference Tables Section</i> .	Optional	Number
EmployeeType	Possible Values: Applicant or Employee If not specified, the Employee value taken by default.	Required	String
ProfessionalLicensenumber*		Situational	String
NPI*		Situational	String
InactiveReason	Retrieve a list of Inactive Reasons by calling the <i>GetStatusReasonsForCaregiver</i> method documented in the <i>Reference Tables Section</i> .	Optional	Number
InactiveNote*	Agencies may choose to require a Note when a certain Caregiver Status Reason value is selected	Situational	String
SignedPayrollAgreementDate	Format: YYYY-MM-DD	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	Male or Female	Required	String
Dependents*		Optional	String
BirthDate	Format: YYYY-MM-DD	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	"Clinical" or "Non Clinical" Required if MobileID is specified	Situational	String
SSN	Format: 999-99-9999 . <i>RehireDate</i> (see below) is required if there is another Caregiver with the same SSN in the system.	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	YYYY-MM-DD – Required if attempting to create a Caregiver with an SSN that already exists in another Caregiver.	Situational	Date
CountryOfBirth*		Optional	String
MaritalStatus*	Possible Values: Married or Single	Optional	String

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

Email*		Situational	String
MobileOrSMS*	Specify Mobile Number to receive Text Message. Format: 999-999-9999	Situational	Number
VoiceMessage*	Specify phone number to receive voice message notifications. Format: 999-999-9999	Situational	Number
Language1*	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Situational	Number
Language2*	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Situational	Number
Language3*	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Optional	Number
Language4*	Retrieve a list of Languages by calling the <i>GetLanguages</i> method documented in the <i>Reference Tables</i> section	Optional	Number
ProfessionalLicensenumber*		Situational	String
NPI*		Situational	String
EmployeeType	Possible Values: Applicant or Employee If not specified, the Employee value taken by default	Required	String
InactiveReason	Retrieve a list of Inactive Reasons by calling the <i>GetStatusReasonsForCaregiver</i> in the <i>Reference Tables</i> section	Optional	Number
SecondaryOffices ID*	ID of Secondary Office	Optional	String
InactiveReason*	Retrieve a list of Inactive Reasons by calling the method <i>GetStatusReasonsForCaregiver</i> method documented in the <i>Reference Tables</i> section	Optional	Number
InactiveNote*		Situational	String
SignedPayrollAgreementDate	Format: YYYY-MM-DD	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...
SearchVisits	Search for a list of visits matching a given search criteria. Returns a list of <i>VisitIDs</i> (which is a unique identifier of each Visit record). The ID returned by this method can be submitted to one of the methods listed below to retrieve additional information related to each Visit.
GetScheduleInfo	Returns schedule information related to the Visit specified by an ID.
GetVisitInfoV2	Returns visit information related to the visit specified by an ID.
GetVisitBillInfo	Returns Billing information related to the Visit specified by an ID.

Writing Schedule and Visit Information

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

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

Interface Documentation

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

SearchVisits

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

Request

```
<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
StartDate	Beginning of the date range to search for. Format: YYYY-MM-DD The range between StartDate and EndDate cannot be more than 1 day when PatientID & CaregiverID not passed. If PatientID & CaregiverID passed, range between StartDate and EndDate can be more than 1 day.	Required	Date

EndDate	End of the date range to search for. Format: YYYY-MM-DD The range between StartDate and EndDate cannot be more than 1 day when PatientID & CaregiverID not passed. If PatientID & CaregiverID passed, range between StartDate and EndDate can be more than 1 day.	Required	Date
PatientID	Patient ID to search. Required if Caregiver ID & StartDate and EndDate is not specified.	Situational	Number
CaregiverID	Caregiver ID to search. Required if PatientID & StartDate and EndDate is not specified.	Situational	Number
OfficeID	OfficeID is required in below condition to search Visit: <ul style="list-style-type: none"> It is required with StartDate & EndDate. It is required with Patient ID / Caregiver ID 	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
ID	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>
<ClockInEvvType>string</ClockInEvvType>
<ClockOutEvvType>string</ClockOutEvvType>
<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
ID	Primary Key of the Visit record to be retrieved. Obtain ID by calling the <i>SearchVisits</i> method described earlier.	Number
VisitDate	Visit/Schedule Date Format: YYYY-MM-DD	Date
Patient		
ID		
AdmissionNumber		
FirstName		
LastName		
Caregiver		
ID		
FirstName		
LastName		
CaregiverCode		
TimeAndAttendancePIN		
PayCode		
ScheduleStartTime	Schedule Start Time Format: yyyy-mm-dd hh:mm	String
ScheduleEndTime	Schedule End Time Format: yyyy-mm-dd hh:mm	String
VisitStartTime	Visit Start Time Format: yyyy-mm-dd hh:mm	String
VisitEndTime	Visit End Time Format: yyyy-mm-dd hh:mm	String
EVVStartTime	EVV Start Time Format: yyyy-mm-dd hh:mm	String
EVVEndTime	EVV End Time Format: YYYY-MM-DD HH:MM	String
IsMissedVisit	Visit Missed or Not. Value: YES/NO	String
TTOT		
Hours	Approved Travel Time Hours	Number
Minutes	Approved Travel Time Minutes	Number
Verification		
VerifiedBy		
Notes		
VerifiedDate		
VerifiedTime		
SupervisorName		
Timesheet		
Required	Timesheet Required: YES/NO	
Approved	Timesheet Approved: YES/NO	
Payroll		
PayrollType	Payroll Type	String
PayCode	Pay Code	String
ServiceHours	Service Hours	String

TT-OTHours	TT/OTHours	String
PayUnits	Pay Units	String
PayRate	Pay Rate	String
PrebillingProblems		
PrebillingProblemInfo	List of Prebilling Problems	String
TasksPerformed		
POCTaskCode		
AdditionalValue		
Status		
Category		
Duty		
Minutes		
VisitType	VisitType	String
ScheduleDuration		
ScheduleDurationHours	ScheduleDurationHours Format: HH	Number
ScheduleDurationMinutes	ScheduleDurationMinutes Format: MM	Number
ClockInEvvType	ClockInEvvType	String
ClockOutEvvType	ClockOutEvvType	String
VisitAggregationStatus		
Status	Approved Hold Rejected Ready Cancelled Sent	String
StatusDate	Time Format: YYYY-MM-DD HH:MM:MSS	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: HHMM	String
TimeZone	TimeZone	String
SplitVisitID		Number
OriginalVisitID		Number
SuggestedStartTime	Time Format: YYYY-MM-DD HH:MM	String
SuggestedEndTime	Time Format: YYYY-MM-DD HH:MM	String

GetVisitBillInfo

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

Request

```

<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: No Warning Validate

Criminal Background: No Warning Validate

Training School: No Warning Validate

Medicals/Other Compliance: No Warning Validate

Custom Compliance Fields: No Warning 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
PatientID	Unique ID of the Patient in HHAExchange	Situational	Number
AdmissionID	Required If "PatientID" is not given. Patient Admission ID as seen in HHAX	Situational	String
PatientFirstName	Patient's First Name. Required If "PatientID" and "AdmissionID" is not given	Situational	String
PatientLastName	Patient's Last Name. Required If "PatientID" and "AdmissionID" is not given	Situational	String
PatientDateOfBirth	Patient's Date of Birth. Required If "PatientID" and "AdmissionID" is not given. Format: YYYY-MM-DD	Situational	Date
ScheduleType	Possible values: Non-Skilled or Skilled	Required	String
VisitDate	Visit/Schedule Date Format: YYYY-MM-DD	Required	Date
ScheduleStartTime	Schedule Start time as per Agency/Office TimeZone. Format: HHMM Start time must be "0000" if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Time
ScheduleEndTime	Schedule Start End as per Agency/Office TimeZone. Format: HHMM End time must be "0000" if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule"	Required	Time
IsScheduleTemporary	Possible values: "Yes" or "No"	Optional	String
CaregiverID	Unique ID of the Caregiver in HHAExchange	Situational	Number
CaregiverCode	Caregiver Code in HHAExchange. Required If "CaregiverID" is not given	Situational	String
CaregiverFirstName	Caregiver's First Name. Required If "CaregiverID" and "CaregiverCode" is not given.	Situational	String
CaregiverLastName	Caregiver's Last Name. Required If "CaregiverID" and "CaregiverCode" is not given.	Situational	String
CaregiverDateOfBirth	Caregiver's Date of Birth. Required If "CaregiverID" and "CaregiverCode" is not given. Format: YYYY-MMDD	Situational	Date
PayCodeID	Retrieve a list of <i>Pay Rate Code</i> by calling the method <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
PayCodeName	Existing valid Pay Code in HHAExchange. Required If "PayCodeID" is not given. <i>Note: If not given, then the system takes the Caregiver's Disciplines with Agency "Default Pay Code" as configured in "Reference Table" (if any).</i>	Situational	String
IsCaregiverTemporary	Possible values: "Yes" or "No"	Optional	String
PrimaryBillTo ContractID	Retrieve a list of <i>Contracts</i> by calling the method <i>GetPatientContracts</i> for given Patient ID documented in the <i>Patient Information</i> section. <i>Note: If not given, then the Patient's "Primary Contract" is considered by default (if any).</i>	Situational	Number

PrimaryBillToContractName	Existing valid Contract Name in HHAExchange. Required If "ContractID" is not given. <i>Note: If not given, then the Patient's "Primary Contract" is considered by default (if any).</i>	Situational	String
PrimaryBillToServiceCodeID	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
PrimaryBillToServiceCodeName	Existing valid Service Code in HHAExchange. Required If "ServiceCodeID" is not given. <i>Note: If not given, then the "Default Service Code" of the Primary Contract is considered by default (if any).</i>	Situational	String
PrimaryBillTo Hours	Hours: HH	Required	Number
PrimaryBillTo Minutes	Minutes: MM	Required	Number
SecondaryBillToContractID	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
SecondaryBillToContractName	Existing valid Contract Name in HHAExchange. Required If "ContractID" is not given.	Situational	String
SecondaryBillToServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetContractServiceCodes</i> documented in the <i>Reference Tables</i> section	Optional	Number
SecondaryBillToServiceCodeName	Existing valid Service Code exists in HHAExchange. Required If "ServiceCodeID" is not given	Situational	String
SecondaryBillToHours	Hours: HH Require when passed SecondaryBillTo details applicable only for daily fixed type of visit	Situational	Number
SecondaryBillToMinutes	Minutes: MM Require when passed SecondaryBillTo details applicable only for daily fixed type of visit	Situational	Number
VisitType	It will allow Variable Schedule Types that exist in the HHAExchange office configuration. Possible Values: Daily Variable Weekly Variable No Schedule Daily Fixed If not specified, the "Daily Fixed" value is set by default.	Optional	String
ScheduleDurationHours	Format: HH Required if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Number
ScheduleDurationMinutes	Format: MM Required if Visit Type is "Daily Variable", "Weekly Variable" or "No Schedule".	Required	Number
BudgetNumber	Required for UPR Contract if Enable Budget Number flag marked as True . Possible values:1 to 5	Situational	Number

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
VisitID	Unique ID of the Visit/Schedule in HHAExchange.	Required	Date
ScheduleStartTime	Schedule Start time as per Agency/Office TimeZone. Format: HHMM	Required	Time
ScheduleEndTime	Schedule Start End as per Agency/Office TimeZone. Format: HHMM	Required	Time

IsScheduleTemporary	Possible values: “Yes” or “No”	Optional	String
CaregiverID	Unique ID of the Caregiver in HHAExchange.	Situational	Number
CaregiverCode	Caregiver Code in HHAExchange. Required If “CaregiverID” is not given.	Situational	String
CaregiverFirstName	Caregiver’s First Name. Required If “CaregiverID” and “CaregiverCode” is not given.	Situational	String
CaregiverLastName	Caregiver’s Last Name. Required If “CaregiverID” and “CaregiverCode” is not given.	Situational	String
CaregiverDateOfBirth	Caregiver’s Date of Birth. Required If “CaregiverID” and “CaregiverCode” is not given. Format: YYYY-MMDD	Situational	Date
PayCodeID	Retrieve a list of <i>Pay Rate Code</i> by calling the method <i>GetCaregiverPayCodes</i> for given <i>CaregiverID</i> documented in the <i>Caregiver Information</i> section. Note: If not provided, then the Caregiver’s Disciplines with Agency Default Pay Code are considered as configured in “Reference Table” (if any).	Situational	Number
PayCodeName	Existing valid Pay Code in HHAExchange. Required If “PayCodeID” is not given. Note: If not provided, then the Caregiver’s Disciplines with Agency “Default Pay Code” are considered as configured in “Reference Table” (if any).	Situational	String
IsCaregiverTemporary	Possible values: “Yes” or “No”	Optional	String
PrimaryBillToContractID	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. Note: If not given, then the Patient’s “Primary Contract” is considered by default (if any).	Situational	Number
PrimaryBillToContractName	Existing valid Contract Name in HHAExchange. Required If “ContractID” is not given. Note: If not provided, then the Patient’s “Primary Contract” is considered by default (if any).	Situational	String
PrimaryBillToServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the method <i>GetContractServiceCodes</i> documented in the <i>Reference Tables</i> section. Note: If not provided, then the “Default Service Code” of the Primary Contract is considered by default (if any).	Situational	Number
PrimaryBillToServiceCodeName	Existing valid Service Code in HHAExchange. Required If “ServiceCodeID” is not given. Note: If not provided, then the “Default Service Code” of the Primary Contract is considered by default (if any).	Situational	String
PrimaryBillToHours	Hours: HH	Required	Number
PrimaryBillToMinutes	Minutes: MM	Required	Number
SecondaryBillToContractID	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
SecondaryBillToContractName	Existing valid Contract Name in HHAExchange. Required If “ContractID” is not given.	Situational	String
SecondaryBillToServiceCodeID	Retrieve a list of <i>Service Codes</i> by calling the <i>GetContractServiceCodes</i> method documented in the <i>Reference Tables</i> section.	Optional	Number

SecondaryBillToServiceCodeName	Existing valid Service Code in HHAExchange. Required If " ServiceCodeID " is not given.	Situational	String
SecondaryBillToHours	Hours: HH Required when passed SecondaryBillTo details applicable only for daily fixed type of visit.	Situational	Number
SecondaryBillToMinutes	Minutes: MM Required when passed SecondaryBillTo details applicable only for daily fixed type of visit.	Situational	Number
ScheduleBillInfoEditReasonsID	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
Note	Comments	Situational	String
VisitType	VisitType. It will allow valid visits type exists in HHAExchange office configuration.	Optional	String
ScheduleDurationHours	ScheduleDurationHours Format: HH	Required	Number
ScheduleDurationMinutes	ScheduleDurationMinutes Format: MM	Required	Number
IsUpdateOnlyBilledAmount	<p>Possible values: "Yes" or "No"</p> <ol style="list-style-type: none"> 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. If IsUpdateOnlyBilledAmount is "No" and provided service code is dollar-based service code then it will update schedule and billed amount. If IsUpdateOnlyBilledAmount is "No" and provided service code is not dollar-based service code or regular service code then its works as per the existing flow and will update schedule only, it will not update the billed amount. 	Optional	String
BilledAmount	If IsUpdateOnlyBilledAmount " Yes " then Billed Amount is required	Situational	Number
BudgetNumber	Required for UPR Contract if Enable Budget Number flag marked as True . Possible values:1 to 5	Situational	Number

Response

```

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

Response

```
<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
VisitID	Unique ID of the Schedule created/linked in HHAExchange.	Number
PatientID	Unique PatientID	Number

ContractID	Unique ContractID	Number
OtherChargeID	Unique OtherChargeID	Number

Incremental Fetch Methods

- 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>
    </GetPatientChangesV2Info>
  </GetPatientChangesV2Result>
</GetPatientChangesV2Response>
```

```

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

City		String
State		String
Zip5		Number
Zip4		String
CrossStreet		String
Direction		String
HomePhone	Format: XXX-XXX-XXXX	String
Phone2	Format: XXX-XXX-XXXX	String
Phone2Description		String
Phone3	Format: XXX-XXX-XXXX	String
Phone3Description		String
WageParity	Possible Values: "Yes" "No"	String
WageParityFromDate1	Format: YYYY-MM-DD	Date
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

EvacuationLocationID	Retrieve a list of valid Evacuation Locations and corresponding ID by calling the <i>GetEvacuationLocations</i> method as documented in the Reference Tables section.	Number
OtherEvacuationLocation		String
ElectricEquipmentDependency		String
Description		String
NurseID	Retrieve a list of valid Nurses and corresponding by calling the <i>GetNurses</i> method as documented in the <i>Reference Tables</i> section.	Number
Coordinators		String
Frequency		String
Cluster	Possible Values: "Yes" "No"	String
IsMutualLinked	Possible Values: "Mutual" or "Link"	String
MutualLinkPatientID	Mutual/Link Patient ID	Number
IsPrimaryPatient	Possible Values: "Yes" "No"	String
ServiceStartDate	Format: YYYY-MM-DD	Date
ProjectedDCDate	Format: YYYY-MM-DD	Date
SourceOfAdmissionID	Retrieve a list of <i>Source of Admissions</i> by calling the <i>GetSourceOfAdmissions</i> method as documented in the <i>Reference Tables</i> section.	Number
LocationID	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method as documented in the <i>Reference Tables Section</i> .	Number
TeamID	A list of <i>Patient Teams</i> can be retrieved by calling the method <i>GetPatientTeams</i> documented in the <i>Reference Tables Section</i> .	Number
BranchID	A list of <i>Branches</i> can be retrieved by calling the method <i>GetBranches</i> documented in the <i>Reference Tables Section</i> .	Number
Alert		String
ReferralMasterId	Referral ID	Number
ReferralReceivedDate	Referral Received Date	Date
ReferralSourceId	Referral Source ID	Number
ReferralStatusID	Retrieve a list of Referral Statuses by calling the <i>GetReferralStatus</i> method as documented in the <i>Reference Tables</i> section.	String
ReferralLostReasonId	Applicable if "ReferralStatus" is "Lost"	Number
ReferralLostReasonNote	Applicable if "ReferralStatus" is "Lost"	String
CommissionStatus	Possible Values: "Not Paid" or "Paid"	String
ReferralContactId	Referral Contact Person ID	Number
ReferralIntakePersonId	Referral Intake Person ID	Number
AccountManagerId	Referral Account Manager ID	Number
RequestSpecialAgencyID		Number
RequestGender	Possible Values: "Male" "Female"	String
RequestPrimaryLanguage	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
RequestSecondaryLanguage	Retrieve a list of Languages by calling the <i>GetLanguages</i> method as documented in the <i>Reference Tables</i> section.	Number
RequestOther		String
AllowedCaregiverAccessPatientInfoTo MobileApp		
List of Caregivers		
Caregiver ID	Number	
Caregiver Name	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
Patient		
ID	Patient ID	Number
AdmissionNumber	Admission Number	Number
FirstName	FirstName	String
LastName	LastName	String
UpdatedDate	Last Updated Date Format: YYYY-MM-DD HH:MM	DateTime
OfficeID	OfficeID	Number
AuthorizationID	Authorization ID of the patient	
Contract		
ID	Contract ID	Number
Name	Contract Name	String
Discipline		
ID	Discipline ID	Number
Name	Discipline Name	String
AuthorizationNumber	Authorization Number	String
ServiceCode		
ID	ServiceCode ID	Number
Name	ServiceCode Name	String
StartDate	Start Date	String
StopDate	Stop Date	String
MaxUnits	Max Units	Decimal
RemainingUnits	Remaining Units	Decimal
BankedHours	Banked Hours	String
Period	Return Period ID, Name details	Number

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

GetDeletedPatientAuthorizations

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

Request

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

DeletedBy	DeletedBy	String
Contract	Contract (For Payer Patient, Contract will not have any value)	String
Discipline	Discipline (For Payer Patient, Discipline will not have any value)	String
Period	Period	String

GetCaregiverChangesV2

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

Request

```
<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: <ul style="list-style-type: none"> •White •Black •Hispanic •American Indian •Asian •Native Hawaiian •Unknown •Two or More Races •Caribbean Indian •Pacific Islander 	String
CaregiverMobileID	Caregiver Mobile ID	String
CaregiverMobileIDType	Caregiver's Mobile ID type	String
Rehire	Caregiver is Rehire or Not Possible Values: Yes or No	String
RehireDate	Caregiver Rehire Date	String
CountryOfBirth		String
MaritalStatus	Possible values: S (Single) or M (Married)	String
Dependents		String
EmployeeType	Possible Values: A (Applicant) or E (Employee)	String
Status	Possible Values: <ul style="list-style-type: none"> •Inactive •Active •Hold •On Leave •Terminated •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

Sent105	Only Applicable if "Status" is "Terminated". Possible values: Y (Yes) or N (No)	String
EmployeeID		String
ApplicationDate	Format: YYYY-MM-DD	String
TeamID	Retrieve a list of <i>Caregiver Teams</i> by calling the <i>GetCaregiverTeams</i> method documented in the <i>Reference Tables</i> section.	Number
LocationID	Retrieve a list of <i>Locations</i> by calling the <i>GetLocations</i> method documented in the <i>Reference Tables</i> section.	Number
BranchID	Retrieve a list of <i>Branches</i> by calling the <i>GetBranches</i> method documented in the <i>Reference Tables</i> section.	Number
Payer		String
Registrynumber		String
RegistryDate	Date the Caregiver information was entered/checked in the registry. Format: YYYY-MM-DD	String
ReferralSourceID	Retrieve a list of <i>Referral Sources</i> by calling the <i>GetCaregiverReferralSources</i> method documented in the <i>Reference Tables</i> section.	Number
ReferralPerson		String
SignedPayrollAgreement	Possible values: Y (Yes) or N (No)	String
SignedPayrollAgreementDate	Format: YYYY-MM-DD	String
ExclusionListCheckedOn	Format: YYYY-MM-DD	String
ExclusionListStatus	Possible values: Y (Yes) or N (No)	String
AddressStreet1		String
AddressStreet2		String
AddressCity		String
AddressState		String
AddressZip5		String
AddressZip4		String
AddressHomePhone	Format: XXX-XXX-XXXX	String
AddressPhone2	Format: XXX-XXX-XXXX	String
AddressPhone3	Format: XXX-XXX-XXXX	String
EmergencyContact1Name		String
EmergencyContact1Address		String
EmergencyContact1RelationshipID	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
EmergencyContact1RelationshipName		String
EmergencyContact1RelationshipOther	Only Applicable if "Emergency1RelationshipName1" is " Other "	String
EmergencyContact1Phone1	Format: XXX-XXX-XXXX	String
EmergencyContact1Phone2	Format: XXX-XXX-XXXX	String
EmergencyContact2Name		String
EmergencyContact2Address		String
EmergencyContact2RelationshipID	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
EmergencyContact2RelationshipName		String
EmergencyContact2RelationshipOther2	Only Applicable if "Emergency2RelationshipName1" is " Other "	String
EmergencyContact2Phone1	Format: XXX-XXX-XXXX	String
EmergencyContact2Phone2	Format: XXX-XXX-XXXX	String
NotificationMethodID	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>
  </GetVisitChangesV2Info>
</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>

```

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

ScheduleDuration		
ScheduleDurationHours	ScheduleDurationHours Format: HH	Number
ScheduleDurationMinutes	ScheduleDurationMinutes Format: MM	Number
ClockInEvvType	ClockInEvvType	String
ClockOutEvvType	ClockOutEvvType	String
BilledAmount	It will return TotalBillingAmount only if service code is dollar based service code for that visit.	Number
Budget Number	It will return budget number value.	Number
ActualHours	It will return ActualHours value	String
ActualHoursRounded	It will return ActualHoursRounded value	String
PayHours	It will return PayHours value	String
PayHoursUnrounded	It will return PayHoursUnrounded value	String
AdjustedHours	It will return AdjustedHours value. Format: HHMM	String
TimeZone	TimeZone	String
SplitVisitID		Number
OriginalVisitID		Number
SuggestedStartTime	Time Format: YYYY-MM-DD HH:MM	String
SuggestedEndTime	Time Format: YYYY-MM-DD HH:MM	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...
GetCoordinators	a list of Coordinators matching the given search criteria
GetPatientDisciplines	a list of available patient disciplines that are assigned to the profile
GetEmergencyContactRelationships	a list of valid entries for “emergency contact relationships”
GetBillingServiceCodes	a list of Billing Service Codes
GetLanguages	a list of languages for patient and caregiver
GetContracts	a list of patient Contracts
GetContractServiceCode	a list of Service Codes for given Contract
GetDisciplines	a list of available disciplines
GetOffices	a list of available offices
GetGenders	a list of patient genders
GetCaregiverGender	a list of caregiver genders
GetPatientDischargeTo	a list of patient discharged to
GetContractDischargeReason	a list of patient contract discharge reason
GetStatusReasonsForCaregiver	available Status Reasons for Caregiver
GetCaregiverPayCodes	a list caregiver Pay Codes
GetScheduleBillInfoEditReasons	a list of schedule bill edit reasons
GetEthnicity	a list of Caregiver Ethnicity values
GetSourceOfAdmissions	a list of valid “source of admission” values
GetVisitDeleteReasons	Retrieve visit delete reason for a visit ID
GetPatientAddress	Retrieve address ID(s) for patient