

## LearningServer Web Services version 2.7

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## 1.0 Overview

LearningServer's Web Service API exposes a set of methods that allow outside programs to access data in the LearningServer's database which then can be used to synchronize, maintain and report on data that must be shared between the LearningServer database and any external data store such as: Active Directory, ERP systems and applications that process online transactions.

Integrating with these various applications, LearningServer's web services API enables you to integrate your e-Learning solution quickly and seamlessly into your overall application infrastructure.

There are numerous web methods each of which is designed to serve a distinct purpose such as:

- creating a new user account
- updating a user account
- getting a single user
- deleting user accounts
- viewing all learners
- viewing all courses/events registered to a single learner
- registering learners to 1 or more courses/events
- viewing all learners registered to a single course/event
- viewing course metadata
- viewing user hierarchy levels
- viewing job titles
- viewing departments
- exporting table data

The web service is password protected. In order to consume any method of the web service, the calling client application will be required to send the access credentials in order to be authenticated prior to any method's request being completed.

**In order to consume LearningServer's web service, clients will be required to write their own web service client. Depending on the specific event that would occur in the external application (e.g. new user account, course registration), the client would be responsible for invoking the appropriate LearningServer web method via their client code.**

The web service is installed and ready to use as soon as LearningServer is installed. It can be accessed at the following url:

<http://LearningServerURL/webservices/iscapi.asmx>

The web service is available to be consumed as a HTTP POST, HTTP GET or SOAP protocol request. If desired, you can restrict which request type is supported by commenting out the desired protocols within LearningServer's web.config file as shown below. By default, all protocols are enabled for use.

```
<webServices>
  <protocols>
    <add name="HttpSoap"/>
    <add name="HttpPost"/>
    <add name="HttpGet"/>
    <add name="Documentation"/>
  </protocols>
</webServices>
```

Navigating directly to this url allows you to review and test each method (HTTP POST) and view the WSDL service description information. Information about each method is shown below.

## 2.0 Methods

### 2.1 CreateCourseRegistration

Register a learner to one (1) or more courses.

#### 2.1.1 CreateCourseRegistration: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
userID	Integer	Y	Users.UserID
requiredByDate	smalldatetime		Any valid date by which the learner must complete the courses or events to which they are being registered.
courseCodeList	nvarchar(1000)	Y	List of comma separated CourseIDs. See Courses.CourseID

#### 2.1.2 CreateCourseRegistration: Output Parameters

Field	Description
Status	<ul style="list-style-type: none"> <li>0 = transaction successful</li> </ul>

#### 2.1.3 CreateCourseRegistration: Error Output

Field	Description
Status	<ul style="list-style-type: none"> <li>-400 = transaction failed due to invalid data</li> <li>-512 = 1 or more invalid CourseIDs were detected</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.2 CreateUser

Create new user accounts for learners, supervisors, instructors and site administrators

### 2.2.1 CreateUser: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
globalUniqueID	nvarchar(50)		Active Directory log-on ID: GUID Only necessary when using Active Directory to log in
firstName	nvarchar(50)	Y	Users First Name
lastName	nvarchar(50)	Y	Users Last Name
userName	nvarchar(50)		Username Only necessary when using Forms Authentication to log in
password	nvarchar(50)		Password Only necessary when using Forms Authentication to log in
email	nvarchar(150)		Users.email
siteadministrator	integer	Y	User.Role0 ( Site Administrator Role ) <ul style="list-style-type: none"> <li>0 = No Site Administrator user role</li> <li>1 = Site Administrator user role</li> </ul> Note: at least one of the four User.Roles requires a value of 1.
instructor	Integer	Y	User.Role1 ( Instructor Role ) <ul style="list-style-type: none"> <li>0 = No Instructor user role</li> <li>1 = Instructor user role</li> </ul> Note: at least one of the four User.Roles requires a value of 1.
student	Integer	Y	User.Role2 ( Learner Role ) <ul style="list-style-type: none"> <li>0 = No Learner user role</li> <li>1 = Learner user role</li> </ul> Note: at least one of the four User.Roles requires a value of 1.

supervisor	Integer	Y	User.Role3 ( Supervisor Role ) <ul style="list-style-type: none"> <li>0 = No Supervisor user role</li> <li>1 = Report Management user role</li> <li>2 = Enrollment Management role</li> <li>3 = Enrollment + Report Management user roles</li> <li>4 = User Management role</li> <li>5 = User + Report Management user roles</li> <li>6 = User + Enrollment Management user roles</li> <li>7 = All Supervisor user roles</li> </ul> Note: at least one of the four User.Roles requires a value of 1.
hierarchyID	Integer		Hierarchy.HierarchyID Hierarchy node user is assigned. Applicable only to learners and supervisors
hireDate	Smalldatetime		Users.HireDate blanks will insert a null into hiredate field
studentProfileID	nvarchar(100)		Users.EmployeeID: User-defined user ID
organization	nvarchar(110)		Users.Organizations
jobtitle	nvarchar(150)		Users.JobTitle
department	nvarchar(150)		Users.Department
location	nvarchar(150)		Users.Location
alternateld	nvarchar(50)		Users.Alternateld
alternateld2	nvarchar(50)		Users.Alternateld2
alternateld3	nvarchar(50)		Users.Alternateld3
ssn	nvarchar(15)		Users.SSN
license	nvarchar(150)		Users.License
phone	nvarchar(25)		Users.Phone
fax	nvarchar(25)		Users.Fax
address	nvarchar(65)		Users.Address
address2	nvarchar(50)		Users.Address2
city	nvarchar(50)		Users.City
state	nvarchar(30)		Users.State
country	nvarchar(50)		Users.Country
zip	nvarchar(12)		Users. Zip (PostalCode)
comments	ntext		Users.Comments
clientDrive	nvarchar(1)		Users.LocalDrive Currently not being used , may choose to populate with information or leave blank.
nickname	nvarchar(50)		Users.Nickname Currently not being used , may choose to populate with information or leave blank.
photolcon	nvarchar(50)		Users.Photo Currently not being used , may choose to populate with information or leave blank.

cellPhone	nvarchar(25)		Users.CellPhone Currently not being used , may choose to populate with information or leave blank.
blogUniformResourceLocator	nvarchar(255)		Users.BlogURL Currently not being used , may choose to populate with information or leave blank.
userResume	ntext		Users.Resume Currently not being used , may choose to populate with information or leave blank.
resumeAttach	nvarchar(50)		Users.ResumeAttachement Currently not being used , may choose to populate with information or leave blank.
education	ntext		Users.Education Currently not being used , may choose to populate with information or leave blank.
experience	ntext		Users.Experience (WorkExperience) Currently not being used , may choose to populate with information or leave blank.
reflections	ntext		Users.Reflections Currently not being used , may choose to populate with information or leave blank.
storeFrontID	nvarchar(50)		RESERVED for Ecommerce, do not use
languagePreference	Integer	Y	Users.LanguagePreference <ul style="list-style-type: none"> <li>• 1 = English</li> <li>• 2 = Spanish</li> <li>• 3 = Portuguese</li> <li>• 4 = Dutch</li> </ul> <i>Note: if missing or invalid will automatically lookup the organization language preference and populate user with this language.</i>
Active	Integer	Y	Users.Active <ul style="list-style-type: none"> <li>• 1 = Yes (Active)</li> <li>• 0 = No (Inactive)</li> </ul> <i>Note: if missing or invalid will default to 1 (Active)</i>

**Note:** - If using Active Directory, please see section at the bottom of this document  
- If using Customed Ecommerce email, phone and storefrontID are required  
- Remaining fields on User Table are either Reserved for Future use or hardcoded (i.e. Option2: hardcoded to 3: Indicates user created via Web Services)

### 2.2.2 CreateUser: Output Parameters

Field	Description
Status	<ul style="list-style-type: none"> <li>• UserID # = transaction successful, returns newly created UserID</li> </ul>

### 2.2.3 CreateUser: Error Output

Field	Description
Status	<ul style="list-style-type: none"> <li>• -1 = transaction failed due to invalid data</li> <li>• -201 = Invalid credentials</li> <li>• -501 = duplicate username detected</li> <li>• -701 = Missing Required value for Roles (Manager, Instructor, Student or Supervisor )</li> <li>• -702 = Invalid value for Roles (Manager, Instructor, Student or Supervisor )</li> </ul>

**Note :** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.3 DeleteStoreFrontID

This method is only available via the Enhanced Management Collection. This method is currently in BETA and being developed. LearningServer will not support this method until Early Adopter.

### 2.3.1 DeleteStoreFrontID: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
storeFrontID	Integer	Y	Users.StoreFrontID

### 2.3.2 DeleteStoreFrontID: Output Parameters

Field	Description
Status	<ul style="list-style-type: none"> <li>0 = transaction successful</li> </ul>

### 2.3.3 DeleteStoreFrontID: Error Output

Field	Description
Status	<ul style="list-style-type: none"> <li>-1 = transaction failed due to invalid data</li> <li>-501 = userID not found</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.4 DeleteUser

Delete a user. All account and course-related data will be removed.

### 2.4.1 DeleteUser: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID

userID	Integer	Y	Users.UserID
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### 2.4.2 DeleteUser: Output Parameters

Field	Description
Status	<ul style="list-style-type: none"> <li>0 = transaction successful</li> </ul>

### 2.4.3 DeleteUser: Error Output

Field	Description
Status	<ul style="list-style-type: none"> <li>-501 = transaction failed due to invalid data</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.5 ExportData

Return all rows from various user, courses and curriculum tables.

### 2.5.1 ExportData: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
Table	Integer	Y	<ul style="list-style-type: none"> <li>1 = Users</li> <li>2 = Curriculums</li> <li>3 = Course registrations</li> <li>4 = Exam submissions</li> <li>5 = Courses</li> <li>6 = Categories</li> <li>7 = Events</li> </ul>
StartDate	Date	Y	Earliest date records in the table were created
EndDate	Date	Y	Latest date records in the table were created

### 2.5.2 ExportData: Output Parameters 7 tables

#### 2.5.2.1 ExportData: Output Parameters: Table 1 - Users

Field	Description
UserID	Users.UserID



LastName	Users.LastName
FirstName	Users.FirstName
Username	Users.Username
Password	Users.Password
GUID	Users.GUID
EmployeeID	Users.EmployeeID
AlternateID1	Users.AlternateID1
AlternateID2	Users.AlternateID2
AlternateID3	Users.AlternateID3
Email	Users.Email
JobTitle	Users.JobTitle
Department	Users.Department
Workphone	Users.WorkPhone
Address	Users.Address
Address2	Users.Address2
City	Users.City
State	Users.State
Country	Users.Country
PostalCode	Users.PostalCode
Active	Users.Status <ul style="list-style-type: none"> <li>• 0 = Inactive</li> <li>• 1 = Active</li> </ul>
ManagerRole	0/1. Site Administrator permission
InstructorRole	Instructor Role <ul style="list-style-type: none"> <li>• 0 = No Instructor user role</li> <li>• 1 = Instructor user role</li> </ul>
LearnerRole	Learner Role <ul style="list-style-type: none"> <li>• 0 = No Learner user role</li> <li>• 1 = Learner user role</li> </ul>
SupervisorRole	Supervisor Role <ul style="list-style-type: none"> <li>• 0 = No Supervisor user role</li> <li>• 1 = Report Management user role</li> <li>• 2 = Enrollment Management role</li> <li>• 3 = Enrollment + Report Management user roles</li> <li>• 4 = User Management role</li> <li>• 5 = User + Report Management user roles</li> <li>• 6 = User + Enrollment Management user roles</li> <li>• 7 = All Supervisor user roles</li> </ul>
Education	Users.Education
WorkExperience	Users.WorkExperience
CreateDate	Date user's account was created. See Users.CreateDate

LastModifiedDate	Date user's account was last modified. See Users.LastModifiedDate
Hierarchy	Hierarchy.Name. Hierarchy node user is assigned. Applicable only to learners and supervisors

**2.5.2.2 ExportData: Output Parameters: Table 2 - Curriculum**

Field	Description
CurriculumID	Curriculum.CurriculumID
Name	Curriculum.Name
Description	Curriculum.Description
Schedule	One-time or Recurring
FrequencyNumber	Recurring frequency specified in days
Status	0/1. Approved
CreateDate	Date curriculum was created
LastModifiedDate	Date curriculum was last modified
CourseCode	Course code of associated course. Occurs n times.
CourseTitle	Course title of associated course. Occurs n times.
Prerequisite	Prerequisite course

**2.5.2.3 ExportData: Output Parameters: Table 3 - Course Registrations**

Field	Description
CourseTitle	Courses.Title
Curriculum	Curriculum.Name
LastName	Users.LastName
FirstName	Users.FirstName
StartDate	Starting date in which the course becomes available for learner access
EndDate	Date course is available until for the learner
CreateDate	Date course registration was created
FirstAccessDate	Date learner first accessed the course
LastAccessDate	Date learner last accessed the course
RequiredByDate	Date course is required to be completed by the learner
CompleteDate	Date learner completed the course

Status	<p>Learner's current status in the course</p> <ul style="list-style-type: none"> <li>• 0=Not Started</li> <li>• 1=In Progress</li> <li>• 2=Completed</li> <li>• 3=Waitlisted</li> <li>• 4=Dropped</li> <li>• 5=Tested out</li> <li>• 6=Event registration pending</li> <li>• 10=On hold, pending completion of prerequisite</li> </ul>
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**2.5.2.4 ExportData: Output Parameters: Table 4 - Exam Submissions**

Field	Description
Course	Courses.Title
Lesson	Lessons.Title
LastName	Users.LastName
FirstName	Users.FirstName
AttemptNum	StudentExamSummary.AttemptNum
ExamScore	StudentExamSummary.ExamScore
ElapsedTime	StudentExamSummary.ElapsedTime
ExamDate	StudentExamSummary.ExamDate

**2.5.2.5 ExportData: Output Parameters: Table 5 - Courses and events**

Field	Description
CourseID	Courses.CourseID
CourseCode	Courses.CourseCode
Title	Courses.Title
Description	Courses.Description
Objective	Courses.Objective
CourseType	<ul style="list-style-type: none"> <li>• 0=Assembler</li> <li>• 1=AICC</li> <li>• 6=SCORM</li> <li>• 7=Seminar</li> <li>• 8=Class</li> <li>• 9=Live Online, synchronous</li> <li>• 10=Media</li> <li>• 11=External vendor</li> </ul>
CreateDate	Date course was created
LastModifiedDate	Date course was last modified

**2.5.2.6 ExportData: Output Parameters: Table 6 - Course and event categories**

Field	Description
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CategoryID	Category.CategoryID
Category	Category.Name
Description	Category description
Status	0/1. Approved
CreateDate	Date category was created
LastModifiedDate	Date category was last modified
CourseCode	Course code of associated course. Occurs n times
Course	Course title of associated course. Occurs n times
CreateDate	Date course was associated with category. Occurs n times

**2.5.2.7 ExportData: Output Parameters: Table 7 - Course Event sessions**

Field	Description
SessionID	Unique record identifier
Course	Event Title
Location	Locations.LocationID
LocationURL	URL for synchronous events
StartDate	Date the event is scheduled to start
EndDate	Date the event is scheduled to end
StartTime	Time the event is scheduled to start
EndTime	Time the event is scheduled to end
TimeZone	Timezone the event's date/time will occur
MaxSeats	Maximum number of learners
Notes	Miscellaneous instructions

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.6 GetCourse

Returns metadata for a single course in the LearningServer catalog.

**2.6.1 GetCourse: Input Parameters**

Field	Data type	Required	Description
AuthorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service

OrgID	integer	Y	Organizations.OrgID
CourseValue	nvarchar(50)	Y	Courses.CourseCode

### 2.6.2 GetCourse: Output Parameters

Field	Description
CourseID	Courses.CourseID
CourseCode	Courses.CourseCode
Title	Courses.Title
Description	Courses.Description
CreateDate	Courses.CreateDate

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.7 GetSingleHierarchyLevel

Returns HierarchyID for a single node.

### 2.7.1 GetSingleHierarchyLevel: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
HierarchyValue	nvarchar(100)	Y	Hierarchy.Name. Name of the node in the hierarchy

### 2.7.2 GetSingleHierarchyLevel: Output Parameters

Field	Description
HierarchyID	Hierarchy.HierarchyID
Name	Hierarchy.Name. Name of the hierarchy element.

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.8 GetUser

Returns a single user account information for learners, supervisors, instructors and site administrators.

### 2.8.1 GetUser: Input Parameters

Field	Data type	Required	Description
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authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	nvarchar	Y	Organizations.OrgID
username	nvarchar(50)	Y	Users.Username or Users.GUID or Users.EmployeeID returns the user information for the username specified. If username = 'ZZZ000' returns all users for the organization

**Note:** If using Active Directory, please see section at the bottom of this document

**2.8.2 GetUser: Output Parameters**

Field	Data type	Description
UserID	Integer	Users.UserID
LastName	nvarchar(50)	Users.LastName
FirstName	nvarchar(50)	Users.FirstName
Username	nvarchar(50)	Users.Username (Only when using Forms Authentication to log in )
Password	nvarchar(50)	Users.Password
GUID	nvarchar(50)	Active Directory log-on ID (Only when using Active Directory)
Email	nvarchar(150)	Users.Email
Role0	integer	User.Role0 ( Manager Role ) <ul style="list-style-type: none"> <li>0 = No Site Administrator user role</li> <li>1 = Site Administrator user role</li> </ul>
Role1	Integer	User.Role1 ( Instructor Role ) <ul style="list-style-type: none"> <li>0 = No Instructor user role</li> <li>1 = Instructor user role</li> </ul>
Role2	Integer	User.Role2 ( Learner Role ) <ul style="list-style-type: none"> <li>0 = No Learner user role</li> <li>1 = Learner user role</li> </ul>
Role3	Integer	User.Role3 ( Supervisor Role ) <ul style="list-style-type: none"> <li>0 = No Supervisor user role</li> <li>1 = Report Management user role</li> <li>2 = Enrollment Management role</li> <li>3 = Enrollment + Report Management user roles</li> <li>4 = User Management role</li> <li>5 = User + Report Management user roles</li> <li>6 = User + Enrollment Management user roles</li> <li>7 = All Supervisor user roles</li> </ul>

HierarchyID	nvarchar(250)	Hierarchy.Name Hierarchy node user is assigned. Applicable only to learners and supervisors
Hiredate	Smalldatetime	Users.HireDate
EmployeeID	nvarchar(100)	User-defined user ID (StudentProfileID)
Organization	nvarchar(110)	Users.Organizations
Jobtitle	nvarchar(150)	Users.JobTitle
Department	nvarchar(150)	Users.Department
Location	nvarchar(150)	Users.Location
AlternateID	nvarchar(50)	Users.AlternateID (User-defined user ID)
AlternateID2	nvarchar(50)	Users.AlternateID2 (User-defined user ID)
AlternateID3	nvarchar(50)	Users.AlternateID3 (User-defined user ID)
SSN	nvarchar(15)	Users.SSN ( social security number)
License	nvarchar(150)	Users.License
Phone	nvarchar(25)	Users.WorkPhone
Fax	nvarchar(25)	Users.Fax
Address	nvarchar(65)	Users.Address
Address2	nvarchar(50)	Users.Address2
City	nvarchar(50)	Users.City
State	nvarchar(30)	Users.State
Country	nvarchar(50)	Users.Country
Zip	nvarchar(12)	Users. Zip (PostalCode)
Comments	ntext	Users.Comments
ClientDrive	nvarchar(1)	Users.LocalDrive Currently not being used , may choose to populate with information or leave blank.
Nickname	nvarchar(50)	Users.Nickname Currently not being used , may choose to populate with information or leave blank.
Photolcon	nvarchar(50)	Users.Photo Currently not being used , may choose to populate with information or leave blank.
CellPhone	nvarchar(25)	Users.CellPhone Currently not being used , may choose to populate with information or leave blank.
BlogUniformResourceLocator	nvarchar(255)	Users.BlogURL Currently not being used , may choose to populate with information or leave blank.
UserResume	ntext	Users.Resume Currently not being used , may choose to populate with information or leave blank.
ResumeAttach	nvarchar(50)	Users.ResumeAttachement Currently not being used , may choose to populate with information or leave blank.
Education	ntext	Users.Education Currently not being used , may choose to populate with information or leave blank.

Experience	ntext	Users.Experience (WorkExperience) Currently not being used , may choose to populate with information or leave blank.
Reflections	ntext	Users.Reflections Currently not being used , may choose to populate with information or leave blank.
StoreFrontID	Nvarchar(50)	Users.StorefrontID ( only used if Ecommerce is enabled)
CreateDate	Datetime	Date user's account was created. See Users.CreateDate
LanguagePreference	Integer	Users.LanguagePreference <ul style="list-style-type: none"> <li>• 1 = English</li> <li>• 2 = Spanish</li> <li>• 3 = Portuguese</li> <li>• 4 = Dutch</li> <li>• Custom Language</li> </ul>
Active	Integer	Users.Active <ul style="list-style-type: none"> <li>• 1 = Yes (Active)</li> <li>• 0 = No (Inactive)</li> </ul>

### 2.8.3 GetUser: Error Output

Field	Description
Dataset	Nothing ( empty dataset) <ul style="list-style-type: none"> <li>• Username not found ( invalid username, should not be a userid )</li> <li>• Username contained blank or nulls</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.9 StudentCourseList

Generate a list of all courses/events registered to a single learner. Columns returned include: title and access information.

### 2.9.1 StudentCourseList: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
userID	Integer	Y	Users.UserID

### 2.9.2 StudentCourseList: Output Parameters

Field	Description
CourseID	System-generated ID. See Courses.CourseID



CourseCode	Course code. See Courses.CourseCode
Title	Course title. See Courses.Title
StartDate	Starting date in which the course/event becomes available for learner access
EndDate	Date course/event is available until for the learner
StartTime	Time the event is scheduled to start, only for events
EndTime	Time the event is scheduled to end, only for events
TimeZone	Timezone the event's date/time will occur, only for events
CourseType	<ul style="list-style-type: none"> <li>• 0=Assembler</li> <li>• 1=AICC</li> <li>• 6=SCORM</li> <li>• 7=Seminar</li> <li>• 8=Class</li> <li>• 9=Live Online, synchronous</li> <li>• 10=Media</li> <li>• 11=External vendor</li> </ul>
FirstAccessDate	Date learner first accessed the course
LastAccessDate	Date learner last accessed the course
Status	Indicates if course/event is approved or unapproved 0 = Unapproved 1= Approved
Owner	Indicates if calling organization created the course or event or is sharing 0=Shared 1=Owns
CourseAvail	Determines when the course will be accessible by Learners
AvailDays	The course will be available X number of days from the date the Learner registered for the course
ContentPlacement	Display course/event in a popup window or embedded with the main content window 0 =Main Content Window 1=Popup
ContentLocation	Local Domain or Remote Domain.  Choice of Remote Domain is used for LearningServer for SharePoint applications only (when you publish SCORM-conformant courses to the document library within SharePoint).
Expired	Events only, indicates if an event is expired
Curriculum	Curriculum Name (note: a course could belong to more than 1 curriculum, only the 1 <sup>st</sup> curriculum the course has been associated will show here)
CurriculumID	Curriculum ID of the curriculum course is associated with (note: a course could belong to more than 1 curriculum, only the 1 <sup>st</sup> curriculum the course has been associated will show here)
Category	Category ID of the category course is associated with (a course can belong to more than 1 category only the top one will display)
ControlStudentPace	Indicates if Course has control student paced on or off 0= off 1 = on
RequiredbyDate	Date the course is required to be completed by
CompleteDate	Date the Course was completed
Schedule	Related to Curriculum, if no curriculum Blank

NextDue	Related to Curriculum, if no curriculum Blank
AttemptNum	Related to Curriculum, if no curriculum defaults to 1

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.10 UpdateUser

Update existing user accounts for learners, supervisors, instructors and site administrators.

**Note:** When updating a user, the admin **MUST** enter all the required information again. Leaving any field as blank is considered a deletion, and any existing value will be lost in the database for those fields only.

### 2.10.1 UpdateUser: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
studentID	integer	Y	Users.UserID
firstName	nvarchar(50)	Y	Users.FirstName
lastName	nvarchar(50)	Y	Users.LastName
username	nvarchar(50)	Y	Users.Username Forms: supply username ActiveDirectory: supply GUID (SAM Account)
password	nvarchar(50)	Y	Users.Password
email	nvarchar(150)	Y	Users.Email
manager	integer	Y	User.Role0 ( Manager Role ) <ul style="list-style-type: none"> <li>0 = No Site Administrator user role</li> <li>1 = Site Administrator user role</li> </ul> Note: at least one of the four User.Roles requires a value of 1.
Instructor	integer	Y	User.Role1 ( Instructor Role ) <ul style="list-style-type: none"> <li>0 = No Instructor user role</li> <li>1 = Instructor user role</li> </ul> Note: at least one of the four User.Roles requires a value of 1.
student	integer	Y	User.Role2 ( Learner Role ) <ul style="list-style-type: none"> <li>0 = No Learner user role</li> <li>1 = Learner user role</li> </ul> Note: at least one of the four User.Roles requires a value of 1.

supervisor	integer	Y	User.Role3 ( Supervisor Role ) <ul style="list-style-type: none"> <li>• 0 = No Supervisor user role</li> <li>• 1 = Report Management user role</li> <li>• 2 = Enrollment Management role</li> <li>• 3 = Enrollment + Report Management user roles</li> <li>• 4 = User Management role</li> <li>• 5 = User + Report Management user roles</li> <li>• 6 = User + Enrollment Management user roles</li> <li>• 7 = All Supervisor user roles</li> </ul> <p>Note: at least one of the four User.Roles requires a value of 1.</p>
hierarchyID	integer		Hierarchy.HierarchyID Hierarchy node user is assigned . Applicable only to learners and supervisors. If send in blanks, will consider it to be removing current Hierarchy value of Student or Supervisor Will default to HierarchyID = 0
hiredate	smalldatetime		Users.HireDate Blanks, will blank out all information reset field to NULLS
studentProfileID	nvarchar(100)		Users.EmployeeID, User-defined user ID Blanks, will blank out all information for this field
organization	nvarchar(110)		Users.Organizations Blanks, will blank out all information for this field
jobtitle	nvarchar(150)		Users.JobTitle Blanks, will reset to zero(0) for this field
department	nvarchar(150)		Users.Department Blanks, will reset to zero(0) for this field
location	nvarchar(150)		Users.Location Blanks, will blank out all information for this field
alternateld	nvarchar(50)		Users.Alternateld Blanks, will blank out all information for this field
alternateld2	nvarchar(50)		Users.Alternateld2 Blanks, will blank out all information for this field
alternateld3	nvarchar(50)		Users.Alternateld3 Blanks, will blank out all information for this field
ssn	nvarchar(15)		Users.SSN Blanks, will blank out all information for this field
license	nvarchar(150)		Users.License Blanks, will blank out all information for this field
phone	nvarchar(25)		Users.Phone Blanks, will blank out all information for this field
fax	nvarchar(25)		Users.Fax Blanks, will blank out all information for this field
address	nvarchar(65)		Users.Address Blanks, will blank out all information for this field
address2	nvarchar(50)		Users.Address2 Blanks, will blank out all information for this field
city	nvarchar(50)		Users.City Blanks, will blank out all information for this field
state	nvarchar(30)		Users.State Blanks, will blank out all information for this field
country	nvarchar(50)		Users.Country Blanks, will blank out all information for this field

zip	nvarchar(12)		Users.Zip Blanks, will blank out all information for this field
comments	ntext		Users.Comments Blanks, will blank out all information for this field
clientDrive	nvarchar(1)		User.LocalDrive Currently not being used Blanks, will blank out all information for this field
nickname	nvarchar(50)		User.Nickname Currently not being used Blanks, will blank out all information for this field
photoIcon	nvarchar(50)		User.Photo Currently not being used Blanks, will blank out all information for this field
cellPhone	nvarchar(25)		User.CellPhone Currently not being used Blanks, will blank out all information for this field
blogUniformResourceLocator	nvarchar(255)		User.BlogURL Currently not being used Blanks, will blank out all information for this field
userResume	ntext		User.Resume Currently not being used Blanks, will blank out all information for this field
resumeAttach	nvarchar(50)		User.ResumeAttachment Currently not being used Blanks, will blank out all information for this field
education	ntext		Users.Education Currently not being used Blanks, will blank out all information for this field
experience	ntext		Users.Experience Currently not being used Blanks, will blank out all information for this field
reflections	ntext		Users.Reflections Currently not being used Blanks, will blank out all information for this field
languagePreference	integer		Users.LanguagePreference <ul style="list-style-type: none"> <li>• 1 = English</li> <li>• 2 = Spanish</li> <li>• 3 = Portuguese</li> <li>• 4 = Dutch</li> </ul> <i>Note: if missing or invalid will automatically lookup the organization language preference and populate user with this language.</i>
active	integer		Users.Active <ul style="list-style-type: none"> <li>• 1 = Yes (Active)</li> <li>• 0 = No (Inactive)</li> </ul> <i>Note: if missing or invalid will default to 1 (Active)</i>

**Note:** If using Active Directory, please see section at the bottom of this document

### 2.10.2 UpdateUser: Output Parameters

Field	Description
Status	<ul style="list-style-type: none"> <li>• 0 = transaction successful</li> </ul>

### 2.10.3 UpdateUser: Error Output

Field	Description
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Status	<ul style="list-style-type: none"> <li>• -1 = transaction failed due to invalid data</li> <li>• -501 = userID not found</li> <li>• -502 = Duplicate UserName detected</li> <li>• -701 = Missing Required value for Roles (Manager, Instructor, Student or Supervisor )</li> <li>• -702 = Invalid value for Roles (Manager, Instructor, Student or Supervisor )</li> <li>• -703 = Missing StudentID, empty string or nulls not acceptable</li> <li>• -704 = Invalid value, StudentID fields must be an integer</li> <li>• -705 = Invalid value, HierarchyID field must be an integer</li> </ul>
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**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.11 ValidateCourseCode

Validation function to determine if a duplicate course code exists.

### 2.11.1 ValidateCourseCode: Input Parameters

Field	Data type	Required	Description
authorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
organizationID	integer	Y	Organizations.OrgID
courseValue	Integer	Y	Courses. CourseCode, User-defined code

### 2.11.2 ValidateCourseCode: Output Parameters

Field	Description
Status	<ul style="list-style-type: none"> <li>• 0 = transaction successful</li> </ul>

### 2.11.3 ValidateCourseCode: Error Output

Field	Description
Status	<ul style="list-style-type: none"> <li>• -1 = transaction failed due to invalid data</li> <li>• -501 = duplicate CourseCode detected</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.12 ViewCourseStudentList

Generate a list of all learners registered for a specific course. Columns returned include: learner name, first access date, last access date, complete date and status.

### 2.12.1 ViewCourseStudentList: Input Parameters

Field	Data type	Required	Description
AuthorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
OrgID	integer	Y	Organizations.OrgID
CourseID	Integer	Y	Courses.CourseID
Role	Integer		Courses.Role <ul style="list-style-type: none"> <li>• 0 = Admin</li> <li>• 1= Instructor</li> <li>• 3=Supervisor</li> </ul>

**2.12.2 ViewCourseStudentList: Output Parameters**

Field	Description
StudentID	Users.UserID
StudentName	Users.LastName, Users.FirstName
CompleteDate	Date learner completed the course
FirstLogonDate	Date learner first accessed the course
LastLogonDate	Date learner last accessed the course
Active	Users.Active <ul style="list-style-type: none"> <li>• 1 = Yes</li> <li>• 0 = No</li> </ul>
Status	Learner's current course status <ul style="list-style-type: none"> <li>• 0=Not Started</li> <li>• 1=In Progress</li> <li>• 2=Completed</li> <li>• 3=Waitlisted</li> <li>• 4=Dropped</li> <li>• 5=Tested out</li> <li>• 6=Event registration pending</li> <li>• 10=On hold, pending completion of prerequisite</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

**2.13 ViewDepartments**

Returns all department values defined for a given site.

**2.13.1 ViewDepartments: Input Parameters**

Field	Data type	Required	Description
AuthorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
OrgID	integer	Y	Organizations.OrgID

**2.13.2 ViewDepartments: Output Parameters**

Field	Description
DepartmentID	Departments.DeptID
Department	Departments.Department

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

**2.14 ViewHierarchy**

Returns the complete hierarchy structure for a given site.

**2.14.1 ViewHierarchy: Input Parameters**

Field	Data type	Required	Description
AuthorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
OrgID	integer	Y	Organizations.OrgID

**2.14.2 ViewHierarchy: Output Parameters**

Field	Description
HierarchyID	Hierarchy.HierarchyID
Name	Hierarchy.Name. Name of the node in the hierarchy
ParentID	Hierarchy.ParentID. ID of the parent node for each node in the hierarchy
RootID	Hierarchy.RootID

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.15 ViewJobTitles

Returns all job title values defined for a given site.

### 2.15.1 ViewJobTitles: Input Parameters

Field	Data type	Required	Description
AuthorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
OrgID	integer	Y	Organizations.OrgID

### 2.15.2 ViewJobTitles: Output Parameters

Field	Description
JobID	Jobs.JobID
Job	Jobs.Job

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

## 2.16 ViewStudentList

Generate a list of all learners. Columns returned include: full name, user name, password and email.

### 2.16.1 ViewStudentList: Input Parameters

Field	Data type	Required	Description
AuthorizationId	nvarchar(50)	Y	Username of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid username results in an access denied response from the web service
passcode	nvarchar(50)	Y	Password of an administrator account. Admin account must be defined for each site via Users → User Management. Failure to provide a valid password results in an access denied response from the web service
OrgID	integer	Y	Organizations.OrgID

### 2.16.2 ViewStudentList: Output Parameters

Field	Description
UserID	Users.UserID
Identification	Users.EmployeeID
Learner	Users.LastName, Users.Firstname



Email	Users.Email
Department	Users.Department
Job Title	Users.JobTitle
DateAdded	Date user's account was created. See Users.CreateDate
Role0	ManagerRole <ul style="list-style-type: none"> <li>• 0 = No Site Administrator user role</li> <li>• 1 = Site Administrator user role</li> </ul>
Role1	Instructor Role <ul style="list-style-type: none"> <li>• 0 = No Instructor user role</li> <li>• 1 = Instructor user role</li> </ul>
Role2	Learner Role <ul style="list-style-type: none"> <li>• 0 = No Learner user role</li> <li>• 1 = Learner user role</li> </ul>
Role3	Supervisor Role <ul style="list-style-type: none"> <li>• 0 = No Supervisor user role</li> <li>• 1 = Report Management user role</li> <li>• 2 = Enrollment Management role</li> <li>• 3 = Enrollment + Report Management user roles</li> <li>• 4 = User Management role</li> <li>• 5 = User + Report Management user roles</li> <li>• 6 = User + Enrollment Management user roles</li> <li>• 7 = All Supervisor user roles</li> </ul>
Active	Active or Inactive <ul style="list-style-type: none"> <li>• 1 = Yes</li> <li>• 0 = No</li> </ul>

**Note:** Please see section at the bottom of this document for full listing of all Error Code Status

### 3.0 Error Codes

Field	Description
Status	<ul style="list-style-type: none"> <li>• 0 = Success</li> <li>• -1 = Transaction failed due to invalid data</li> <li>• -2 = Physical Application Path not valid</li> <li>• -3 = Directory value not valid</li> <li>• -4 = Directory does not Exist</li> <li>• -6 = Directory Access Unsuccessful</li> <li>• -9 = Directory Exists</li> <li>• -18 = Directory Delete Failed</li> <li>• -5 = Invalid File Name</li> <li>• -7 = File does not exist</li> <li>• -8 = File Exists</li> <li>• -10 = Source File was not Found</li> <li>• -11 = UnZip Failed</li> <li>• -12 = Missing Zip File</li> <li>• -13 = Duplicate Course Code</li> <li>• -14 = Invalid Course Code</li> <li>• -15 = Import Course To SF Failed</li> <li>• -16 = Import SCORM Course Failed</li> <li>• -17 = Insert Lesson Failed</li> <li>• -201 = Access denied due to invalid credentials</li> <li>• -203 = Standard http request error</li> <li>• -233 = Ecommerce database error               <ul style="list-style-type: none"> <li>➢ CreateUser:= User was not created due to connection error</li> <li>➢ UpdateUser:= User was not updated due to connection error</li> <li>➢ DeleteUser:= User was not deleted due to connection error</li> </ul> </li> <li>• -400 = Cannot read user license file               <ul style="list-style-type: none"> <li>➢ CreateCourseRegistration:= transaction failed due to invalid data</li> </ul> </li> <li>• -500 = Maximum number of users has been exceeded</li> <li>• -501 = userID not found               <ul style="list-style-type: none"> <li>➢ CreateUser: = duplicate username detected</li> <li>➢ DeleteUser: =transaction failed due to invalid data</li> <li>➢ ValidateCourseCode: =duplicate CourseCode detected</li> </ul> </li> <li>• -502 = Duplicate UserName detected</li> <li>• -512 = 1 or more invalid CourseIDs were detected               <ul style="list-style-type: none"> <li>➢ CreateCourseRegistration:= 1 or more invalid CourseIDs were detected)</li> </ul> </li> <li>• -600 = Cannot validate OrgID supplied during method request</li> <li>700 Series = Missing Values or Invalid Values               <ul style="list-style-type: none"> <li>• -701 = Missing Required value for Roles (Manager, Instructor, Student or Supervisor )</li> <li>• -702 = Invalid value for Roles (Manager, Instructor, Student or Supervisor )</li> <li>• -703 = Missing StudentID, empty string or nulls not acceptable</li> <li>• -704 = Invalid value, StudentID fields must be an integer</li> <li>• -705 = Invalid value, HierarchyID field must be an integer</li> </ul> </li> </ul>

## 4.0 Active Directory

- Below is the list of Active Directory fields (and the corresponding LearningServer fields) that are brought over to LearningServer when importing users:

Active Directory -----	LearningServer db field -----
UserName *	Users.Username
FirstName	Users.FirstName
LastName	Users.LastName
email	Users.Email
company	Users.Organization
department	Users.Department
job title	Users.JobTitle
telephoneNumber	Users.WorkPhone
city	Users.City
state	Users.State
zip code	Users.PostalCode
country	Users.Country

\* Active Directory username is typically the ID that users provide as the username credential when logging onto their corporate network or SharePoint site.