SOLAS FETCH Courses

Web Services Definition

V1.7

Document Control

Date	Ver	Description	Author
05-01-2016	0.01	Created	Lynne Devine
19-01-2016	0.4	Updated	Sean Malone
21-01-2016	0.5	Venue facilities changed to a list item and venue address included.	Sean Malone
21-01-2016	0.6	Changes to lookups. Simplied Locations, ISCED, Provider	Sean Malone
15-03-2016	0.9	Changes to lookups. Timetable added as a List in the GetIndiviualCourseDetail method. New method SearchCourseListSummaryAdvanced	Lynne Devine
20-04-2016	1.1	New method SearchCourseReturnCourseId. Updated SearchCourseListSummary, SearchCourseListSummaryAdvanced, GetAwardList	Sean Malone
26/04/2016	1.2	Updated field order in GetIndividualCourseDetail. Added in JSONP as a retrun type in "Appendix 2: Using the service"	Lynne Devine
23/05/2016	1.3	Added json example	Sean Malone
19/07/2016	1.3	Added a new method GetActiveCourseLocationlist	Lynne Devine
31/07/2016	1.4	Fixed a typo in SearchCourseReturnCourseId	Lynne Devine
25/08/2016	1.5	Added new method GetVenueList, Updated SearchCourseListSummaryAdvanced and SearchCourseReturnCourseId to include Request parameter VenueId Added 2 new fields to getIndividualCourseDetail EveningsAttendancePercent and EveningsDaysPerWeek	Lynne Devine
16/12/2016	1.6	**SearchCourseListSummaryAdvanced and SearchCourseReturnCourseId** 7 new parameters have been added ProviderIds, TargetAwardingBodyIds, TargetAwardIds, AreaIds, LocationIds, CategoryIds, ISCEDIds 7 existing parameters have been marked as obsolete: ProviderId, TargetAwardingBodyId, TargetAwardId, AreaId, LocationId, CategoryId, ISCEDId The new parameters are strings that can contain a comma-delimited list of ids **GetActiveCourseLocationList** This method has been altered to accept ids as a string in comma-delimited format **GetIndividualCourseDetail** A new value is returned as part of the course detail: FurtherDetails	Dermot O'Sullivan

27/04/2017	1.7	**New: TransportRoutesAtLocation** Returns a list of bus, train and other transport stops near a given set of GPS co-ordinates **New: TransportStopsOnRoute** Returns a list of bus, train and other transport stops belonging to a given operator and route **Change: SearchCourseListSummaryAdvanced** Has new geo-parameters: Latitude, Longitude and RangeMeters. These are additional search parameters to only return courses within the given range (meters) of the given GPS co-ordinates. Also has new transport parameters: TransportRouteName, TransportRouteOperator. If specified these return courses within walking distance of stops along the given transport route. **Change: GetIndividualCourseDetail** This endpoint returns and additional field called **IsOlcaEnabled.** When true it indicates the course can be applied for online (**O**nLine **C**ourse **A**pplication)	Dermot O'Sullivan

Table of Contents

GetDeliveryCriteriaList

Method Name:	GetDeliveryCriteriaList
Description:	Returns listing of all Course Delivery Types and descriptions
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (E= Evening, F=Fulltime, P=Parttime,O=Online) Description as String Id as Integer

GetCourseCategoryList

Method Name:	GetCourseCategoryList
Description:	Returns listing of the main funding categories under which courses are run.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetTargetGroupList

Method Name:	GetTargetGroupList
Description:	Returns listing of specific target groups to which a course may be assigned. Target groups are generally identified by the course category but in some cases this may be narrowed by specifying a target group for the course.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetTargetGroupList

GetAwardingBodyList

Method Name:	GetAwardingBodyList
Description:	Returns listing of all active Awarding Bodies
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetAwardList

Method Name:	GetAwardList
Description:	Returns listing of all awards for a given awarding body. In the case of QQI two entries exist, one for further education and the other for higher education. These are described as QQI-FE and QQI-HE respectively.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	AwardingBodyId as integer Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String Description as String Id as Integer

GetAwardList

GetISCEDList

Method Name:	GetISCEDList
Description:	Returns listing of high level ISCED Codes and descriptions.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String Description as String Id as Integer

GetISCEDList

GetAreaList

Method Name:	GetAreaList
Description:	Returns listing of all geographic high level areas. For areas outside of Dublin each area is equivalent to a county and there are separate areas for cities such as Cork, Limerick etc. Dublin is divided into five areas. The city is divided into north/south and there is also Dublin north county, Dublin west county and Dun Laoghaire – Rathdown.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetLocationByAreaList

Method Name:	GetLocationByAreaList
Description:	Returns listing of locations associated with a specific area. Each area contains a set of sub areas which represent towns and town lands within counties. For Dublin the sub areas represent postal codes.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	AreaId as Integer Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetActiveCourseLocationList

Method Name:	GetActiveCourseLocationList
Description:	Returns listing of Locations that currently have active courses Search by ProviderId and/or AreaId. These parameters can contain a comma-delimited string of Ids.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	ProviderId as string AreaId as string Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetProviderList

Method Name:	GetProviderList
Description:	Returns listing of all active FET providers. This represents the equivalent of an ETB.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetProviderList

GetCentreByProviderList

Method Name:	GetCentreByProviderList
Description:	Returns listing of all active Centres by Provider
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	ProviderId as integer Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Code as String (Null if no code implemented) Description as String Id as Integer

GetCentreByProviderList

GetVenueList

Method Name:	GetVenueList
Description:	Returns Venue Details by ProviderId or VenueId
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	ProviderId as integer VenueId as Integer Language as string
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **List Item** Address1 as String Address2 as String Address3 as String Address4 as String Capacity as Integer CountyId as String Email as String Facilities as String (e.g. Parking, Canteen) Fax as String GeoLocation_Lat as Double GeoLocation_Lon as Double Mobile as String Phone as String Postcode as String Title as String VenueId as Integer

GetVenueList

SearchCourseListSummary

Method Name:	SearchCourseListSummary
Description:	Returns a list of courses that match the input criteria e.g. keyword. Data returned is based on the course status is active and Course Closing Date is in the future.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	**Criteria Type** ProviderId as Integer (searches both Owner provider and delivery provider of course) Keywords as String (searches Course Title, Course Id, CourseDescription containing keyword) Page as Integer (mandatory) PageSize as Integer (mandatory) TargetAwardId as Integer AreaId as Integer LocationId as Integer CategoryId as Integer DeliveryModeId as Integer ISCEDId as Integer DateFrom as DateTime (Searches the Date Actual Start and Course Closing Date) Language as String
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **SummaryInfo** totalCourses as Integer totalCoursesDisplayed as Integer pageCurrent as Integer pageSize as Integer numberOfPages as Integer **Course Results List Item** CategoryDescription as String CentreName as String CourseCapacity as Integer CourseCode as String CourseContactEmail as String CourseContactName as String CourseId as Integer CourseLocation as String CourseTitle as String DateActualStart as DateTime DateClosing as DateTime DeliveryMode as String (Classroom/Online/Blended)

	DeliveryTime as String (Evening/Daytime/Online) DeliveryType as String (Fulltime/Partime/Online) ISCEDDescription as String OnlineApplicationURL as String TargetAwardAchievable as String TargetAwardCode as String TargetAwardDescription as String TargetAwardingBody as String TargetGroupDescription as String VenueId as Integer as Integer VenueLocationLatitude as Double VenueLocationLongitude as Double VenueName as String

SearchCourseListSummaryAdvanced

Method Name:	SearchCourseListSummaryAdvanced
Description:	Returns a list of courses that match an extended list of input criteria e.g. keyword. Data returned is based on the course status is active and Course Closing Date is in the future
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	**Criteria Type** AreaIds as String CategoryIds as String DateFrom as DateTime DeliveryModeId as integer ISCEDIds as String Keywords as String (searches Course Title, Course Id, CourseDescription containing keyword) Language as String LocationIds as String ProviderIds as String TargetAwardIds as String TargetAwardingBodyIds as String TargetGroupId as Integer VenueId as Integer Latitude as Float Longitude as Float RangeMeters as Integer TransportRouteName as String TransportRouteOperator as String Page as Integer (mandatory) PageSize as Integer (mandatory) AreaId as Integer (Deprecated) CategoryId as Integer (Deprecated) ISCEDId as Integer (Deprecated) LocationId as Integer (Deprecated) ProviderId as Integer (Deprecated) TargetAwardId as Integer (Deprecated) TargetAwardingBodyId (Deprecated)
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String

	SummaryInfo totalCourses as Integer totalCoursesDisplayed as Integer pageCurrent as Integer pageSize as Integer numberOfPages as Integer **Course Results List Item** CategoryDescription as String CentreName as String CourseCapacity as Integer CourseCode as String CourseContactEmail as String CourseContactName as String CourseId as Integer CourseLocation as String CourseTitle as String DateActualStart as DateTime DateClosing as DateTime DeliveryMode as String (Classroom/Online/Blended) DeliveryTime as String (Evening/Daytime/Weekend/Online) DeliveryType as String (Fulltime/Part time/Online) ISCEDDescription as String OnlineApplicationURL as String TargetAwardAchievable as String TargetAwardCode as String TargetAwardDescription as String TargetAwardingBody as String TargetGroupDescription as String VenueId as Integer as Integer VenueLocationLatitude as Double VenueLocationLongitude as Double VenueName as String

SearchCourseReturnCourseId

Method Name:	SearchCourseReturnCourseId
Description:	Returns a list of course ID's that match an extended list of input criteria e.g. keyword.
Exposed by:	SOLAS
Consumed by	Variety of agencies including referral agencies
Request Parameters	**Criteria Type** AreaIds as String CategoryIds as String DateFrom as DateTime DeliveryModeId as integer ISCEDIds as String Keywords as String (searches Course Title, Course Id, CourseDescription containing keyword) Language as String LocationIds as String ProviderIds as String TargetAwardIds as String TargetAwardingBodyIds as String TargetGroupId as Integer VenueId as Integer AreaId as Integer (Deprecated) CategoryId as Integer (Deprecated) ISCEDId as Integer (Deprecated) LocationId as Integer (Deprecated) ProviderId as Integer (Deprecated) TargetAwardId as Integer (Deprecated) TargetAwardingBodyId (Deprecated)
Response Parameters	**ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String **CoursesList** CourseId as Integer

GetIndividualCourseDetail

Method Name:	GetIndividualCourseDetail
Description:	Returns detailed course information from the programme database and Course calendar, given the course Id
Exposed by:	SOLAS
Consumed by	A variety of agencies including referral agencies
Request Parameters	CourseId as integer Language as string
Response Parameters	**Course Info** AccessTransferAndProgression as String CategoryDescription as String CentreName as String CertificationRequirements as String CourseCapacity as Integer CourseCode as String CourseContactEmail as String CourseContactFirstName as String CourseContactLastName as String CourseContactPhone as String CourseDescription as String CourseFee as Money CourseId as Integer CourseTitle as String DateActualStart as Date DateActualFinish As Date DateClosing as Date DeliveryMode as String (Classroom/Online/Blended) DeliveryTime as String (Evening/Daytime/Online) DeliveryType as String (Fulltime/Partime/Online) DurationDays as Integer DurationWeeks as Integer EveningsAttendancePercent as Integer EveningsDaysPerWeek as Integer FurtherDetails as String HoursPerWeek as Decimal ISCEDDescription as String IsOlcaEnabled as String LearnerAge as String Learner Aptitude as String LearnerEducation as String LearnerPreviousExperience as String LearningOutcomes as String Notes as String OnlineApplicationURL as String RegistrationFee as Money TargetAwardAchievable as String TargetAwardCode as String TargetAwardTitle as String TargetAwardingBodyName as String TuitionType as String (Group/One to One)

	VenueAddress as String VenueEirCode as String VenueLocationLatitude as Decimal VenueLocationLongitude as Decimal VenueName as String WorkPlacementDays as integer WorkPlacementWeeks as integer **VenueFacilitiesList** FacilityDescription as String **PreRequisitesList** PreRequisiteDescription as string **ModulesList** ModuleTitle as String **AwardsList (associated with Module)** Awarding Body as String AwardCode as String AwardTitle as String **TimetableList** DOW as String (1=Monday, 2=Tuesday …) Morning Boolean Afternoon Boolean Evening Boolean If all False then timetabling is fulltime day. **ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String

TransportRoutesAtLocation

Method Name:	TransportRoutesAtLocation
Description:	Returns a list of transport stop data (bus, train etc) near a given GPS location
Exposed by:	SOLAS
Consumed by	A variety of agencies including referral agencies, Fetchcourses Widget and Fetchcourses website.
Request Parameters	latitude as string longitude as string rangeMeters as string

Response Parameters	**Routes (List)** Id as Integer StopId as String StopName as String Latitude as String Longitude as String OperatorName as String RouteName as String Distance as Double CourseCount as Integer **ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String

TransportStopsOnRoute

Method Name:	TransportStopsOnRoute
Description:	Returns a list of transport stop data (bus, train etc) on the given operator's route
Exposed by:	SOLAS
Consumed by	A variety of agencies including referral agencies, Fetchcourses Widget and Fetchcourses website.
Request Parameters	operatorId as string routeId as string
Response Parameters	**Routes (List)** Id as Integer StopId as String StopName as String Latitude as String Longitude as String OperatorName as String RouteName as String Distance as Double CourseCount as Integer **ResponseInfo** ResponseCode as Integer ResponseMessage as String ResponseStatus as String

Appendix 1: Response Elements Descriptions (where required)

CourseCode:

 Based on local course code

TargetAwardAchievable

All accredited courses will have a target award but in some cases the target award is not achievable because the course may be delivering a single module or not enough modules to achieve the target award. When the TargetAwardAchievable response parameter is false then the award(s) associated with the course module(s) should be used for accreditation information.

Appendix 2: Using the Service

URL
SOAP
http://service.fetchcourses.ie/service/fetchcourse.svc

JSON
http://service.fetchcourses.ie/service/fetchcourse.svc/json/

JSONP

http://service.fetchcourses.ie/service/fetchcourse.svc/json/GetProviderList/?callback=jsonpCallback

JSON/JSONP example

```html
<html>
<head>
<script src="jquery-2.2.3.js"></script>
<script>
// Get list of ISCED codes and descriptions –JSONP
$( document ).ready(function(){
   var svcurl =
'http://service.fetchcourses.ie/service/fetchcourse.svc/json/GetISCEDList';
    jQuery.ajax({
        url: svcurl,
            type:'get',
        dataType: 'jsonp',
        jsonpCallback: 'isced',
        success: function (output) {
           console.log(output);
        },
      error: function(e) {
         console.log(e.message);
         }

    });
});

// Get list of ETB codes and descriptions – JSONP
$( document ).ready(function(){
   var svcurl =
'http://service.fetchcourses.ie/service/fetchcourse.svc/json/GetProviderList';
    jQuery.ajax({
        url: svcurl,
            type:'get',
        dataType: 'jsonp',
        jsonpCallback: 'etb',
        success: function (output) {
           console.log(output);
        },
      error: function(e) {
```

```javascript
        console.log(e.message);
        }


    });
});

// Callback for ISCED
function isced(res){
    var r = res.ResponseInfo;
    if (r.ResponseCode == 0){
        var reflist = res.ReferenceList;
        for (var ref in reflist) {
            console.log(reflist[ref].Id);
        var newOption = '<option value=' + reflist[ref].Id +'>' +
reflist[ref].Description +'</option>';
            $("#cboCat").append(newOption);
            }
        }
}


// Callback for ETB
function etb(res){
    var r = res.ResponseInfo;
    if (r.ResponseCode == 0){
        var reflist = res.ReferenceList;
        for (var ref in reflist) {
            console.log(reflist[ref].Id);
        var newOption = '<option value=' + reflist[ref].Id +'>' +
reflist[ref].Description +'</option>';
            $("#cboETB").append(newOption);
            }
        }
}

// post is used for criteria, page info is part of the url
function getCourses() {
$('#data').html('');
var etb =$('#cboETB').val();
var isced = $('#cboCat').val();
var startingDate = new Date($('#txtStarting').val()).getTime();
var dateFrom = '/Date(' + startingDate + ')/';
console.log(JSON.stringify(startingDate));
var
params={"AreaId":"0","CategoryId":"0","ISCEDId":isced,"DateFrom":dateFrom,"
LocationId":"0","ProviderId":etb,"TargetAwardId":"0","TargetAwardingBodyId"
:"0","TargetGroupId":"0"};
console.log(JSON.stringify(params));
    var svcurl =
'http://service.fetchcourses.ie/service/fetchcourse.svc/json/SearchCourseLi
stSummaryAdvanced/1/50';
    jQuery.ajax({
        url: svcurl,
      type:'post',
```

```
          contentType: "application/json; charset=utf-8",
          dataType: 'json',
       data :JSON.stringify(params),
          success: function (output) {
            format(output);
          },
        error: function(e) {
           console.log(e.message);
          }


     });
}


// Format the output
function format(res){
    // check the response for errors
    var r = res.SearchCourseListSummaryAdvancedResult.ResponseInfo;
    if (r.ResponseCode == 0){
        var courses = res.SearchCourseListSummaryAdvancedResult.courses;
        $('#data').append('<table>');
      for (var course in courses) {
           if (course == 0){
                $('#data').append('<tr><th>Course</th><th>Course
Name</th><th>Location</th><th>Start Date</th></tr>');
            }
          var startdate = new
Date(parseInt(courses[course].DateActualStart.substr(6)));
            var closingdate = new
Date(parseInt(courses[course].DateClosing.substr(6)));
          $('#data').append('<tr><td>' + courses[course].CourseId +
'</td><td>' + courses[course].CourseTitle + '</td><td>' +
courses[course].CourseLocation + ',</td><td>' + startdate.toDateString() +
'</td></tr>');
         }
      $('#data').append('</table>');
     }

}

</script>
</head>
<body>
<div style=" text-align: left; text-indent: 0px; padding: 0px 0px 0px 0px;
margin: 0px 0px 0px 0px;">
<table width="70%" border="1" cellpadding="1" cellspacing="2">
<tr valign="top">
<td style="border-width : 0px;">Starting</td>
<td style="border-width : 0px;"><input type="text" id="txtStarting"
value="01-Sep-2016"></td>
<td style="border-width : 0px;">ISCED</td>
<td style="border-width : 0px;"><select id="cboCat"><option selected
value="0">All</option></select></td>
<td style="border-width : 0px;">Provider</td>
```

```
<td style="border-width : 0px;"><select id="cboETB"><option selected
value="0">All</option></select></td>
<td style="border-width : 0px;"><input type="button" onclick="getCourses()"
value="Search"/></td>
</tr>
</table>
</div>
<div id="data" style=" text-align: left; text-indent: 0px; padding: 0px 0px
0px 0px; margin: 0px 0px 0px 0px;">
</div>
</body>
</html>
```

XML
http://service.fetchcourses.ie/service/fetchcourse.svc/xml/

The service may be restricted to registered users or specific domain/ip addresses.

Caching

It is recommended that the service is used periodically and the returned data is cached locally. This will help to ensure that your site performance is not degraded and that there is not excessive demand on the service. The GetIndividualCourseDetail method can be used once a single course has been identified as a result of a search.

Max Rows

The maximum rows per page returned by the service is 50. The SearchCourseListSummary method returns a list of courses and summary information. The summary information will indicate the total number of courses found, the current page, the rows per page and the total number of pages.

ResponseInfo

Each method will return a Responseinfo item indicating the status of the response. This will consist of a ResponseCode, ResponseMessage and ResponseStatus. Three response codes are implemented as follows ….

```
ResponseCode = 0,
ResponseStatus = "Success",
ResponseMessage = "<method name> Successful"

ResponseCode = 100,
ResponseStatus = "Failed",
ResponseMessage = "<method name> Failed"

ResponseCode = 403,
ResponseStatus = "Failed",
ResponseMessage = "Access Denied"
```