

Installing the ASP.NET VETtrak APIs onto IIS 5 or 6

Installing the VETtrak APIs onto IIS 5 or 6

1	Step 1- Install/Check IIS 5 or 6	3
2	Step 2 - Set Up and Configure VETtrak ASP.NET API	6
3	Step 3 - Add an Application Pool	7
4	Step 4 - Add Virtual Directory	. 10
5	Step 5 - Configure Application	. 14
6	Step 6 - Allow ASP.NET to Run	. 16
7	Step 7 - Test that the VETtrak API is Accessible	. 17
8	Step 8 - Test the VETtrak Enrol API with the Test	
	Harness	. 20

3

1 Installing the VETtrak APIs onto IIS 5 or 6

This document describes how to install ASP.NET VETtrak APIs onto a Microsoft Internet Information Services 5.1 (on Windows XP) or 6 (on Windows Server 2003) server, and how to configure it to run.

1.1 Step 1- Install/Check IIS 5 or 6

Ensure that the .NET Framework version 3.5, .NET Framework version 2.0 with at least Service Pack 2, and Internet Information Services (IIS) 5.1 or 6 is installed on the server machine.

Windows XP

In Windows XP, IIS 5.1 can be installed or the installation checked by going to **Start** --> **Control Panel** --> **Add** or **Remove Programs** --> **Add/Remove Windows Components**, and selecting to install **Internet Information Services (IIS)**:

indows Components You can add or remove components of W	/indows XP.
To add or remove a component, click the part of the component will be installed. To Details.	checkbox. A shaded box means that only o see what's included in a component, click
Components:	
Indexing Service	0.0 MB 🔼
🗹 🥌 Internet Explorer	0.0 MB 🗧
💌 鞼 Internet Information Services (IIS)	13.5 MB
🔲 🚉 Management and Monitoring Too	ls 2.0 MB
Message Queuing	
Description: Includes Web and FTP sup transactions, Active Server I Total disk space required: 86.6 Space available on disk: 2025.2	port, along with support for FrontPage, Pages, and database connections. MB Details

4

Windows Server 2003

In Windows Server 2003, IIS 6 can be installed or the installation checked by going to *Start --> Control Panel -- > Administrative Tools --> Manage Your Server*, and adding the *Application Server* role if it is not already configured.

Select a role. If the role has not been add	ed, you can add it. I	(f it has already been added, you can
remove it. If the role you want to add or r	emove is not listed,	open Add or Remove Programs.
Server Role File server Print server Application server (IIS, ASP.NET) Mail server (POP3, SMTP) Terminal server Remote access / VPN server Domain Controller (Active Directory) DNS server DHCP server Streaming media server WINS server	Configured Yes No No No No Yes No No No No	Application servers (IIS, ASP.NET) Application servers provide the core technologies required to build, deploy, and operate XML Web Services, Web applications, and distributed applications. Application server technologies include ASP.NET, COM+ and Internet Information Services (IIS). Read about application servers

Ensure that you select to enable ASP.NET when installing the Application server role.

Configure Your Server Wizard	×
Application Server Options IIS, COM+, ASP.NET, and Microsoft .NET Framework are installed automatically for this role.	S.
Select the additional tools that you want to install on this server.	
ErontPage Server Extensions	
FrontPage Server Extensions are a set of Web server extensions that you can use to publish content with FrontPage, Visual Studio, and Web Folders.	
ASP.NET is a powerful programming framework for building Web-based applications and services that can target any browser or device.	
< <u>B</u> ack Next > Cancel He	elp

1.2 Step 2 - Set Up and Configure VETtrak ASP.NET API

In order for the API to run, a valid registration key for the VETtrak API must be entered into the VETtrak database using the VETtrak software, in *File > Preferences > Registration Keys*.

Obtain the VETtrak ASP.NET API ZIP file from VETtrak support. This can be downloaded from the Downloads page in the Support Centre.

Before unzipping the ZIP file, right-click it and go to **Properties**. If there is an **Unblock** button on the **General** tab, saying that the file has come from the internet, click the U**nblock** button followed by **OK**.

Extract the contents of the VETtrakAPI folder from within the VETtrak ASP.NET API ZIP file to a new folder on the web server. It may be placed in a folder in the web root if desired, which by default is C:\inetpub\wwwroot.

Configure the API by editing the web.config file. This is an XML file that can be opened in a text editor. Find the <connectionStrings> element. Within this is an <add> element containing details of how to connect to the >database. The <add> element must contain the following three attributes:

- The name attribute must be "VETtrakDatabase".
- The providerName attribute must be set to "FirebirdSql.Data.FirebirdClient" if using a Firebird database, or "System.Data.SqlClient" if using a SQL Server database.
- The connectionString attribute is a standard connection string that defines the database server, database filename (for Firebird) or database name (for SQL server), and the database username and password. Examples follow.

The contents of the <u>connectionString</u> should be the same as VETtrak uses to connect to the database – view these in VETtrak by going to *File > Preferences > Database connection*.

Note that, once the VETtrak API application is set up in IIS, the connection string can be easily changed using the Connection Strings icon in the application in IIS Manager – however, the <u>providerName</u> can only be changed by editing the web.config file directly.

Firebird

If using a Firebird database, the add element and connection string should be in the format:

```
<add name="VETtrakDatabase" providerName="FirebirdSql.Data.FirebirdClient"
connectionString="User=<databaseUser>; Password=<databasePassword>;
Database=<pathAndFilenameOfDatabaseFileOnServer>;
DataSource=<serverNameOrIP>; Dialect=3;"/>
```

For example:

```
<add name="VETtrakDatabase" providerName="FirebirdSql.Data.FirebirdClient" connectionString="User=SYSDBA;Password=masterkey;Database=C:\Program Files \VETtrak\Data\VETtrak.gdb;DataSource=192.168.0.40;Dialect=3;"/>
```

The components of the connectionString are:

- User the Firebird username to connect to the database (not the username used to log into VETtrak). This
 is almost always "SYSDBA"
- Password the Firebird password to connect to the database (not the password used to log into VETtrak). This is almost always "masterkey"
- Database the full file path on the server to the database file (usually called VETtrak.gdb)
- Datasource the IP address or resolvable name of the server that is running Firebird and on which the database file is located
- Dialect leave this as "3"

SQL Server with SQL server authentication

If using a SQL Server database, with SQL server authentication, the add element and connection string should be in the format:

```
<add name="VETtrakDatabase" providerName="System.Data.SqlClient"
connectionString="Data Source=<serverNameOrIP>\<instanceName>;Initial
```

```
Catalog=<databaseName>;User Id=<databaseUser>;
Password=<databasePassword>;"/>
```

For example:

```
<add name="VETtrakDatabase" providerName="System.Data.SqlClient"
connectionString="Data Source=192.168.0.40\SQLEXPRESS;Initial
Catalog=VETtrak;User Id=sa;Password=sa;"/>
```

The components of the connectionString are:

- Datasource the IP address or resolvable name of the server that is running SQL Server, followed by a backslash and then the name of the SQL Server instance that contains the VETtrak database
- Initial Catalog the name of the VETtrak database on that server and instance
- User Id the SQL Server username to connect to the database (not the username used to log into VETtrak)
- Password the SQL Server password to connect to the database (not the password used to log into VETtrak)

SQL Server with Windows authentication

If using a SQL Server database, with Windows authentication, the add element and connection string should be in the format:

```
<add name="VETtrakDatabase" providerName="System.Data.SqlClient"
connectionString="Data Source=<serverNameOrIP>\<instanceName>;Initial
Catalog=<databaseName>;Integrated Security=true"/>
```

For example:

```
<add name="VETtrakDatabase" providerName="System.Data.SqlClient"
connectionString="Data Source=192.168.0.40\SQLEXPRESS;Initial
Catalog=VETtrak;Integrated Security=true"/>
```

The components of the connectionString are:

- Datasource the IP address or resolvable name of the server that is running SQL Server, followed by a backslash and then the name of the SQL Server instance that contains the VETtrak database
- Initial Catalog the name of the VETtrak database on that server and instance
- Integrated Security leave this as "true" to use Windows Authentication

For Windows Authentication to work, the account set for the application pool identity (in the application pool's advanced settings) must have access to the VETtrak SQL Server database.

1.3 Step 3 - Add an Application Pool

Open the IIS Manager from Control Panel --> Administrative Tools --> Internet Information Services (IIS) Manager.

The rest of this step only applies to IIS 6. If you are using IIS 5.1 on Windows XP, skip to Step 4.

It is recommended that the APIs be set up as an Application running within its own Application Pool. This isolates the process and allows the APIs to be managed independently of other IIS applications running on the server.

To do this, in the IIS Manager, right-click on *Application Pools* in the tree in the left panel, and select *New* --> *Application Pool*.

Installing the ASP.NET VETtrak APIs onto IIS 5 or 6

🐚 Internet Information !	Services (IIS) N	1anager				
🐚 Eile <u>A</u> ction View Y	<u>W</u> indow <u>H</u> elp					_8×
	3 🗟 😰 🖁	2 🕨 🔳	Ш			
internet Information Serv	/ices	Description		State	Status	
DAMESDC2 (local com	puter)	🐎 Default Ap	ppPool	Running		
🗄 🌺 DefaultAppl	<u>N</u> ew	•	Application Pool			
🖃 📁 Web Sites	All Tas <u>k</u> s	•	Application Pool (fi	rom file)		
Web Service Ex	⊻iew New <u>W</u> indow fr	om Here				
	Refresh Export <u>L</u> ist					
	Properties					
	Help					
Create Application Pool						

In the Add New Application Pool window, enter the following, and click OK:

• Name: VETtrakAPIPool

8

Application pool settings: Use default settings for new application pool

Application pool ID:	VETtrakAPIPool
Application pool sett	ings
Use default set	tings for new application pool
C Use existing ap	plication pool as template

This will add the Application Pool to the IIS Manager:

) Manager			
)			_8×
ピ 是 ▶■ □			
Description	State	Status	
A DefaultAppPool	Running		
VETtrakAPIPool	Running		
) Manager	Manager Image:	Manager Image: Image

1.4 Step 4 - Add Virtual Directory

In the left tree panel, under *Web Sites*, find the web site to add the VETtrak APIs to, such as the *Default Web Site* (a new web site may be created first if desired). Right-click on this web site and select *New --> Virtual Directory*. Note that if the VETtrak APIs were copied to a folder under the web root, it will already appear as a folder under the web site (you may need to refresh in order to see it) – in this case, instead of adding a virtual directory, it will need to be changed to an application – skip to <u>Step 5</u>.





Enter a name (alias) and click *Next*. This is what the URL to the APIs will be. This can be whatever you want. For the purposes of this document, we will use "VETtrakAPI".

Virtual Directory Creation Wizard	×
Virtual Directory Alias Specify a short name, or alias, for this virtual directory.	E.
Type the alias you want to use to gain access to this Web virtual directo same naming conventions that you would for naming a directory.	ry. Use the
VETtrakAPI	
< <u>B</u> ack <u>N</u> ext >	Cancel

Click Next.

Click **Browse** to find and select the folder into which the VETtrak ASP.NET API ZIP was extracted. For the purposes of this document, a path of "C:\VETtrakAPI" is used.

rtual Directory Creation Wizard	
Web Site Content Directory Where is the content you want to publish on the Web site?	(Internet in the second
Enter the path to the directory that contains the content for this Wet	o site.
Path:	
C:WETtrakAPI	Browse
K Back Next	Cancel

Tick the *Read* and *Run scripts* permission checkboxes and click *Next*.

Virtual Directory Creation Wizard	×
Virtual Directory Access Permissions Set the access permissions for this virtual directory.	(Inde
Allow the following permissions:	
✓ Run scripts (such as ASP)	
<u>Execute</u> (such as ISAPI applications or CGI)	
☐ <u>W</u> rite	
Ergwse	
To complete the wizard, click Next .	
< <u>B</u> ack Next >	Cancel

12



The virtual directory will appear under your web site. If it is already set up as an application, it will appear with a cog icon in IIS 6, or an open box icon in IIS 5.1. If it is not an application, it will appear with a folder icon (we will change it to an application in the next step). When the virtual directory is selected, ensure you can see the asmx file(s) for the API(s) you have, the web.config file and the bin folder containing the DLLs.

Thernet Information Services (115)	1anager		
🕤 Eile Action <u>V</u> iew <u>W</u> indow <u>H</u> elp			_ 문 ×
⇔ → 🗈 🖬 🗙 😭 🔂	▶ ■		
 Internet Information Services JAMESDC2 (local computer) Application Pools Web Sites Default Web Site Default Web Site Web Service Extensions 	Name bin D atabaseMapping.xml VT_API.asmx Web.config	Path	Status

Click Finish.

1.5 Step 5 - Configure Application

Right-click the virtual directory or application in the left tree (VETtrakAPI in our example) and select *Properties*.

Check the *Application settings* section of the *Virtual Directory* tab. If it is not yet an application, there will be a *Create* button (instead of the *Remove* button), and the *Configuration* button will be disabled. If this is the case, click the *Create* button to create the application.

Ensure the Execute permissions drop-down is set to Scripts only.

In IIS 6, select the VETtrakAPI application pool in the Application pool drop-down.

In IIS 5.1, select the *Medium (Pooled)* option in the *Application Protection* drop-down.

100		1247
HTTP Header	s Custom Errors	ASP.NET
Virtual Directo	Y Documents	Directory Security
The content for t	 is resource should come from: A directory located on this compute A share located on another comput A redirection to a URL 	er ter
.o <u>c</u> al path: Scrip <u>t</u> source a <u>R</u> ead <u>W</u> rite	ccess VETUTAKAPI	esource
Local path: Script source a Read Write Directory brow Application setting Application pame:	CCESS ✓ Log visits ✓ Index this re sing s	esource
Logal path: Script source a Read Write Directory brow Application setting Application name:	CCess VETtrakAPI	esource Remove
.ocal path: Script source a Read Write Directory brow Application setting Application name: Starting point:	ccess Log visits Index this re sing s VETtrakAPI <default site="" web="">\VETtr</default>	esource Remove
.ocal path: Script source a Read Write Directory brow Application setting Application name: Starting point: Execute permissio	CCess VETURAKAPI CCess Void Visits Sing S VETtrakAPI <default site="" web="">\VETtr Scripts only</default>	Remove

Click the **ASP.NET** tab. Ensure that the ASP.NET version is set to a version starting with 2. The **Edit Configuration** button allows you to edit some things in the web.config file through a user interface, such as the connection string and application settings.

Virtual Directory	Documents	Directory Security					
HTTP Headers	Custom Errors	ASP.NET					
ASPN	et						
ASP.NET version:	2.0.50727						
Virtual path:	/VETtrakAPI	/VETtrakAPI c:\VETtrakAPI\web.config					
File location:	c:\VETtrakAPI\we						
File creation date:	Date not available	Date not available.					
File last modified:	Date not available.						
	Ē	dit Configuration					

Click OK to save changes.

1.6 Step 6 - Allow ASP.NET to Run

This step only applies if you are using IIS 6. Skip this step if you are using IIS 5.

Click the **Web Service Extensions** folder near the bottom of the left pane in IIS Manager. An entry starting with **ASP.NET v2.0** should appear in the right pane. If the Status of this entry is **Prohibited**, select the ASP.NET v2.0 extension and click the **Allow** button to allow it to run.



1.7 Step 7 - Test that the VETtrak API is Accessible

To test that the API is accessible, open an Internet Explorer browser, and enter the URL for the API:

http://host_name/application_name/VT_API.asmx

eg. For the example used in this document, the URL for the API will be:

http://localhost/VETtrakAPI/VT_API.asmx

If everything is set up correctly, a service information page should appear, like the following:

(←) → (∅ http://localhost/VETtrakAPI/VT_API.asmx	33
VT_API	- II
The following operations are supported. For a formal definition, please review the Service Description.	4
API Handshake Checks the connection to the API	
AddClient Creates a new client with the specified surname and given name	
AddClientAfterCheck Checks whether a client with the specified surname, given name and date of birth exists, and adds it if it doesn't exist	
AddClientEvent Adds a new client event	
AddClientWebEnrolment Enrols a client with the specified details into a new web enrolment linked to the specified occurrence ID	
AddClientWebReservation Reserves a client with the specified details into the specified occurrence ID	
AddClientWebWaitlist Adds a client to a waitlist for a programme	
AddContactToEmployer Attaches an existing client as a new contact for an employer	
AddEmployerEvent Adds a new employer event	
AddEmployerWebEnrolment Enrols an employer with the specified details into a new web enrolment linked to the specified occurrence ID. Employees could then be added to this web enrolment	
AddEmployerWebReservation Reserves an employer with the specified details into the specified occurrence ID. Employees could then be added to this web reservation	
AddLMSClientEnrolmentToOccurrence Enrols the client with the specified code into the LMS-enabled occurrence with the specified ID	
AddLooseWebEmployer Creates a 'Loose' employer with the specified details for further use	-
€ ₩	

18

Click on the Service Description link to view the web service definition XML (WSDL):

C → C http://localhost/VETtrakAPI/VT_API.asmx?WSDL
xml version="1.0" encoding="UTF-8"?
- <wsdl:definitions <="" td="" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"></wsdl:definitions>
targetNamespace="http://www.ozsoft.com.au/VETtrak/api/complete"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.ozsoft.com.au/VETtrak/api/complete" xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:s="http://www.w3.org/2001/XMLSchema">
- <wsdl:types></wsdl:types>
- <s:schema elementformdefault="qualified" targetnamespace="http://www.ozsoft.com.au/VETtrak/api/complete"></s:schema>
- <s:element name="GetWaitlistProgrammeTypes"></s:element>
- <s:complexiype></s:complexiype>
- <s:sequence></s:sequence>
<stelement maxoccurs="1" minoccurs="0/" name="token" type="sisting"></stelement>
<t< td=""></t<>
- <sromlartypes< td=""></sromlartypes<>
<pre><sidement <="" maxoccurs="1" name="GetWaitlistProgrammeTypesResult" pre="" type="tns:TAuthProtList"></sidement></pre>
minOccurs="""/>
- <s:complextype name="TAuthPrqtList"></s:complextype>
- <s:complexcontent mixed="false"></s:complexcontent>
- <s:extension base="tns:ReferenceListBaseOfTPrgt"></s:extension>
- <s:sequence></s:sequence>
<s:element maxoccurs="1" minoccurs="0" name="PrgtList" type="tns:ArrayOfTPrgt"></s:element>
- <s:complextype abstract="true" name="ReferenceListBaseOfTPrgt"></s:complextype>
- <s:sequence></s:sequence>
<pre>ciscement name= Auti type= ths:rAuthenticate maxOccurs= 1 minOccurs= 0 /></pre>
<pre></pre>
Concomplexitype name - TAuthenticate >
s III

To test the API's connectivity to the database, back on the **Service Information** page, click the **DB_Handshake** link in the list:

$ \begin{array}{c} \hline \hline$	6 🕁 🥨
VT_API	<u>^</u>
Click <u>here</u> for a complete list of operations.	
DB_Handshake	
Checks the connection to the VETtrak database via the API	
Test	E
To test the operation using the HTTP POST protocol, click the 'Invoke' button.	
Invoke	
SOAP 1.1	
The following is a sample SOAP 1.1 request and response. The placeholders shown need to be replaced with actual values.	
POST /JamesAPI/VT_API.asmx HTTP/1.1	
Content-Type: text/xml; charset=utf-8	
Content-Length: length SOAPAction: "http://www.ozsoft.com.au/VETtrak/api/complete/DB_Handshake"	
xml version="1.0" encoding="utf-8"? <soap:envelope api="" complete"="" http:="" vettrak="" www.ozsoft.com.au="" xmlns:xsd="http://www.w3.org/2001
<soap:Body>
<DB Handshake xmlns=" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"></soap:envelope>	./XMLSchema" xmlr
// Soah PlineTohen	
HTTF/1.1 200 OK	
Content-Type: text/xml; charset=utf-8 Content-Length: length	
Concent-Bengon, Longon	
<pre><?xml version="1.0" encoding="utf-8"?> <scan:envelope_xmlns:xsi="http: 2001="" td="" www.w3.org="" xmlns:vsd="http://www.w3.org/2001</pre></td><td>/XMLSchema" xmlr<="" xmlschema-instance"=""></scan:envelope_xmlns:xsi="http:></pre>	
<soap:body></soap:body>	And Anti-
<pre><db_handshakeresponse xmlns="http://www.ozsoft.com.au/VETtrak/api/complete"></db_handshakeresponse></pre>	-
	F.

20

Then click the *Invoke* button (by default, this button will only appear when using a browser on the same machine the API is installed on, but this can be changed in the web.config file). The result should be an XML string with a success message:



If the result is an error message, review the error and correct the connection string in the web.config file.

1.8 Step 8 - Test the VETtrak Enrol API with the Test Harness

You can use a test harness program to make web service calls to the API. With this, you can ensure that SOAP calls to the API are working correctly.

To use the VETtrak API test harness, copy the VETtrakAPITestHarness.exe and

VETtrakAPITestHarness.exe.config files from the VETtrakAPITestHarness folder in the VETtrak ASP.NET API ZIP file to a new folder (preferably on a different machine, which must have .NET Framework 3.5 installed).



Double-click the VETtrakAPITestHarness.exe to run it.

VETtrak API Test H	arness	-) X
Connection Server address (eg. http://192.168.1.1/VETtrakAPI/VT_API.asmx)				GetPaymentTypes: Retrieved 5 payment types							
http://localhost/VETtrakAPI/VT_API.asmx Init OK					t OK	10:58:08	ione: Det	roved 21 location			
Usemame Passwo	ord	To	ken			Gerroca	lions. net	neved 21 location	5		
vettrak trakke	r Auth	nenticate \$-	7&)8."7),)3	6\$982<2		10:58:13	.	Datailas Datains d	المحملة والمحملة		c
Retrieved Data Start [Date Retriev	red Data End I	Date			2 enrolme	ents, 3 co	ntracts, 1 awards,	2 classes, 45	units, 12 eve	nts.
1/01/1900 [31/12/	/2100									
Web Enrol Client	Staff Emplo	oyer LMS O	ccurrence	Qualific	ation	Reference (Query Dat	a SMS			
Client Code 00525		Retrieve Clie	nt				Gir	ven Test	Sumar	Person	
Find Create De	atails AVETN	AISS Enrolm	ents Cont	tracts A	wards	Classes/Atte	ndance	Units/Results E	Events Staff	Invoices	Tasks
Title Given n	ame	Sumame			Other n	ame		Gender	Update a	dditional data	
Mr Test		Person						M -			
Date of Birth	Email				Emerge	ency Contact	Name				
22/02/1981		ere.com			Mr Blog	jgs					
Mobile phone Ho	ome phone	Work phone	Fax pho	one	Emerge	ency Phone		Address Type			
0400112233 0	366554433	0311223344			03998	87766		Normal -			
Residential addre	ss			Postal	address						
Address				Addres	s						
25 There St				31 He	re St						
City Postcode State City				City			Postcor	le State			
Rouse Hill	21	155 NSV	V •	Rouse	e Hill		2155	NSW -			
Employer Identifier	Position		Commence	ed	Last	assessed	Ter	minated			
35	Operations Manager 👻 🔲 24/10/2012			/2012	-	24/10/2012	-	24/10/2012 -			
Visa Number	Visa Type		Visa Expiry		Pass	port number	Sal	ary			
		•	24/10/	2012	-		0				-
Heemamo	Pageword							Update]	Build X	ML
osemane sheed 1	2S3wX	(Undate	emamo	/naeewo	rd				Updat	e
				settette/	UdSSW0						

In the **Server address** field, enter the URL of the VT_API.asmx. If you are running the test harness on the same machine the API is installed on, this will be the same URL that was used in step 5. Click the **Initialise** button. If this is successful, the button will change to **Init OK**.

Enter the Username and Password to access VETtrak (such as the default vettrak/trakker), and click the *Authenticate* button. If successful, a token appears.

The other tabs and buttons can then be used to test various functions in the API. This includes:

- The *Web Enrol* tab for online enrolments, including loading and viewing web programmes and occurrences, creating and updating clients and employer web enrolments, and recording payments
- The *Client*, *Staff* and *Employer* tabs for portals functionality, including viewing various details of clients, staff members and employers, and updating some details
- The LMS Occurrence tab for LMS integration functionality, such as viewing and updating details of LMS published occurrences and enrolments