

This document has been withdrawn as it is out of date.

Recruit an apprentice Service Interface Guide

Of interest to software developers using recruit an apprentice web services.



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1 Introduction

1.1 Document Purpose

This document provides a system integration guide to software developers who require detailed technical information about how to integrate the recruit an apprentice web services into their application.

1.2 Support

For support questions please contact the recruit an apprentice team:

Email: recruitanapprentice@sfa.bis.gov.uk

1.3 Technical Standards

These web services conform to the following technical standards as defined in the central government Technical Standards Catalogue Version 6.2, Final September 2005.

SSL v3/TLS (RFC 2246)
SOAP v1.1, as defined by the W3C
WSDL 1.1, as defined by the W3C
Basic Security Profile Version 1.0 (WS-I Security) as defined by WS-I
XML as defined by W3C
XML schema (XSD) conforms to W3C standards
Transformation Format – 8 bit UTF-8 (RFC 2279)

2 Security

All of the web services provided by the system are secured in two ways. First the web services are encrypted using SSL. Secondly, each call to the web service requires an ExternalSystemID and an associated PublicKey that are issued through the system.

Due to technical limitations, and to ensure the widest possible reach for the services within the target organisations, the Vacancy RSS feed allows anonymous access, although the URL is not published on the public web site.

2.1 System IDs

One ExternalSystemID can be used for one or more systems – and each organisation can have one or more ExternalSystemID. This flexibility allows each organisation to manage their System IDs in a way that is appropriate to them.

Each System ID can be configured to enable one or more of the services available to that organisation. The following table lists the services available for each type of organisation:

	Training organisation	Employer	Other Third Party
ReferenceDataService	Yes	Yes	Yes

VacancyUpload		Yes	Yes	-
	VacancyDetailsService	Yes	Yes	Yes
	VacancySummaryService	Yes	Yes	Yes

2.2 Obtaining System IDs

If you are already a registered organisation within the Recruit an apprentice system and have a valid logon to the system with the correct rights (your User Approver can provide this information) the SystemIDs and Public Keys can all be managed via the Interface Management screens on the Recruit an apprentice system. Currently this only applies to registered Learning Providers and registered Employer Sites.

If you are a Third Party wanting to access the VacancyDetailsService or VacancySummaryService, you will need to request an ExternalSystemID and Public Key from NAS Support.

3 Web service endpoints

The recruit an apprentice web services ReferenceDataService, VacancyDetailsService and VacancySummaryService are available from one production endpoint. The BulkVacancyUpload has two endpoints; production and test. In each environment any breaking changes will be published to a new endpoint and previous versions deprecated.

3.1 Production environment

This environment provides access to the live Recruit an apprentice web services and should be used for normal operational use.

The only access restriction is that a valid ExternalSystemID and PublicKey (password) must be supplied as two of the input parameters for all calls to the web service. Only if the supplied ExternalSystemID and PublicKey is authenticated will the controlled access web service return the requested data.

Current production endpoint

The following URLs are for the Web Services:

https://soapapi.findapprenticeship.service.gov.uk/Services/VacancyManagement/VacancyManagement/Services/VacancyManagement/VacancyManagemen

https://soapapi.findapprenticeship.service.gov.uk/Services/ReferenceData/ReferenceData51.svc
https://soapapi.findapprenticeship.service.gov.uk/Services/VacancyDetails/VacancyDetails51.svc
https://soapapi.findapprenticeship.service.gov.uk/Services/VacancySummary/VacancySummary51.s
vc

Details about the RSS feed can be found here:

https://www.gov.uk/government/publications/apprenticeship-vacancies-rss-feeds

Note that the feed has a number of mandatory parameters when used. See section 5.5 for details.

Security Note: The recruit an apprentice production web services use SSL to ensure that the ExternalSystemID and PublicKey passed as input parameters are encrypted.

4 Web services authorisation

To access the recruit an apprentice web services you will require a MessageID, valid ExternalSystemID and PublicKey. The ExternalSystemID and PublicKey need to be obtained by registering the system with NAS as described above.

Each web call will be required to provide the following information in the SOAP header.

```
<soapenv:Header>
  <ns:PublicKey></ns:PublicKey>
  <ns:MessageId>?</ns:MessageId>
  <ns:ExternalSystemId>?</ns:ExternalSystemId>
</soapenv:Header>
```

Field	Mandatory	Туре	Description
ExternalSystemID	Yes	GUID	This is the ExternalSystemID which has been allocated by the Recruit an apprentice system and has been granted access to the relevant service
PublicKey	Yes	String	This is a 16 characters complex password allocated by the Recruit an apprentice system and associated with the ExternalSystemID
MessageID	Yes	GUID	This is a unique message ID which is provided by the calling system. This is to ensure that messages are only processed once by the system.

The MessageID will be returned with all successful calls to enable the integrating system the ability to monitor which calls are successful.

4.1 Access rights

The web services that are available to an organisation depends on both the configuration of the system information (where NAS can revoke rights to specific interfaces if necessary) as well as the following rules:

	Training organisation	Employer	Other Third Party
ReferenceDataService	Yes	Yes	Yes
VacancyUpload	Yes	Yes	-
VacancyDetailsService	Yes	Yes	Yes
VacancySummaryService	Yes	Yes	Yes

Due to technical limitations, and to ensure the widest possible reach for the services within the target organisations, the Vacancy RSS feed allows anonymous access, although the URL is not published on the public web site.

5 Web service definitions

This section describes the different service definitions in detail. For each web service method the following information is provided:

Purpose: what you can use the web service method for.

Signature: the name of the web service method, the type of value it returns and the names and

types of its parameters.

The data types used in describing the web services are W3C XML Schema types.

It is important to note that all of the Web Services are reply-request SOAP-based. This approach

has been taken to ensure the widest possible coverage for the interfaces but does introduce some constraints, specifically around the message size supported without introducing network timeout issues. The maximum message size is currently configured as 250kb.

The details of the web service interfaces are also provided as WSDL files for each service:

- https://soapapi.findapprenticeship.service.gov.uk/Services/VacancyManagement/VacancyManagement51.svc?WSDL
- https://soapapi.findapprenticeship.service.gov.uk/Services/ReferenceData/ReferenceD
 ata51.svc?WSDL
- https://soapapi.findapprenticeship.service.gov.uk/Services/VacancyDetails/VacancyDetails51.svc?WSDL
- https://soapapi.findapprenticeship.service.gov.uk/Services/VacancySummary/VacancySummary51.svc?WSDL

Search Criteria

A number of the web services detailed within this document provide multiple parameters to allow the searching of vacancies to a specific area i.e. searching is available by Region, County, Framework and Occupation.

The web services only provide limited validation on the parameters and will not logically check that they correlate with another parameter – it is therefore possible to submit a search by Region and County by specifying a value for both parameters but the system will not check that the specified county is in the specified region. In this instance the system will perform the search and return zero vacancies.

Paging of returned data

Both the VacancySummaryService and VacancyDetailsService can return a large amount of data. To ensure that the each request is handled in a proficient manner the search results are returned in a page-by-page mode. Each page contains a default number of records (default 25) and a field (TotalPages) indicating the total number of pages. The client should specify the number of the page they wish to retrieve (this defaults to 1). The paging numbering starts from 1.

Submitting multiple vacancies

Both the VacancyUpload and ApplicationTrackingService can submit more than one vacancy as part of a message. However, as the message size is limited, sending systems may need to "chunk up" messages to fit within this limit. In both cases the Web Services can be called for individual vacancies, although this would impact performance due to the normal messaging overheads.

5.1 Service: ReferenceData

The Reference Data service provides system integrators with the ability to download reference data from the Recruit an apprentice system. This reference data is the used as input parameters to

other web service calls.

5.1.1 Method: GetApprenticeshipFrameworks

Purpose

Use this method to obtain a list of the apprenticeship frameworks which are available within the Recruit an apprentice system.

Signature

GetApprenticeshipFrameworksResponse GetApprenticeshipFrameworks()

Input parameters

None

Return value

GetApprenticeshipFrameworksResponse

Tag Name	Туре	Description
ApprenticeshipFrameworks	Tag Group	Contains ApprenticeshipFrameworkAndOccupationData group and MessageID tag
ApprenticeshipFrameworkAndOccupationData	Tag Group	Contains framework and occupation data elements
ApprenticeshipFrameworkCodeName	String	Code relating to the framework. This is the value that can be returned as part of other web calls.
ApprenticeshipFrameworkFullName	String	Framework Full Name
ApprenticeshipFrameworkShortName	String	
ApprenticeshipOccupationCodeName	String	Code relating to the Occupation. This is the value that can be returned as part of other web calls.
ApprenticeshipOccupationFullName	String	Occupation Full Name
ApprenticeshipOccupationShortName	String	

5.1.2 Method: GetCounties

Purpose

Use this method to obtain a list of the counties which are available within the Apprenticeship vacancies system.

Signature

GetCountiesResponse GetCounties ()

Input parameters

None

GetCountiesResponse

Tag Name	Туре	Description
Counties	Tag Group	
CountyData	Tag Group	
CountyCode	Integer	County Code. This parameter can be used as input to other web service calls
FullName	String	County Name

5.1.3 Method: GetErrorCodes

Purpose

Use this method to return a list of error codes and associated descriptions which can be returned by the various web services within the recruit an apprentice system.

Signature

GetErrorCodesResponse GetErrorCodes ()

Input parameters

None

Return value

GetErrorCodesResponse

Tag Name	Туре	Description
ErrorCodes	Tag group	
ErrorCodesData	Tag group	
InterfaceErrorCode	String	Error Code
InterfaceErrorDescription	String	Error Description

A full list of error codes are available in the appendix.

5.1.4 Method: GetRegions

Purpose

Use this method to obtain a list of the geographic regions (based on government regions) which are available within the Recruit an apprentice system.

Signature

GetRegionsResponse GetRegions ()

Input parameters

None

GetRegionsResponse

Tag Name	Туре	Description
RegionData	TAG Group	
CodeName	String	This parameter can be used as input to other web service calls
FullName	String	Full description of the Regions within the Recruit an apprentice system

5.2 Service: VacancyManagement

The Vacancy Upload service allows employers and learning providers to upload new vacancies to the recruit an apprentice system. They can upload vacancies based on their valid relationship with learning provider and employer respectively.

This service allows vacancies to be published both where the vacancies will be managed in the recruit an apprentice system and where the vacancies are managed externally ("offline"). As the reference information needed in this service is validated on submission, it is recommended that the reference date for the submitted vacancies is obtained through the ReferenceData service on a sufficiently regular basis.

More than one vacancy can be uploaded as one message, although the maximum message size means that large uploads will need to be "chunked up" into a number of messages.

5.2.1 Method: UploadVacancies

Purpose

Use this method to upload vacancies to the recruit an apprentice system.

Signature

VacancyUploadResponse UploadVacancies (VacancyUploadRequest)

Input Parameters

Note that the XML hierarchy is reflected in the indentation of the table below.

Tag N	ame	Туре		Notes / Validation
Heade	r	Child Object	Mandatory	ExternalSystemId, PublicKey, GUID
Vac	VacancyUploadRequest		Mandatory	
	Vacancies	Child Object	Mandatory	One or more vacancies can be sent at the same time
	Vacancyld	GUID	Mandatory	This is a GUID which will be returned as part of the response indicating the status of the upload for this specific vacancy. Mandatory Field
	Title	String(100)	Mandatory	
	ShortDescription	String(256)	Mandatory	
	LongDescription	String(MAX)	Mandatory	
	Employer	Child Object	Mandatory	
	EdsUrn	Integer	Mandatory	The Employer EDSURN must be an existing EDURN and it must also have a valid relationship with the Training Provider EDSURN. If the VacancyLocatgionType is 'National'

			then if a valid relationship exists, it must allow Nationwide vacancies
Description	String(Infinite)	Conditional	This is a mandatory field if AnonymousName is populated
AnonymousName	String(255)	Conditional	If there is a value entered into the AnonymousName field, then the Description field should not be null or blank.
ContactName	String(100)	Optional	
Website	String(255)	Optional	
Image	Base64String	Optional	The EmployerImage field should have a byte length of less than 10240 (10KB) if the field is not blank
Vacancy	Child Object	Mandatory	
Wage	Decimal	Mandatory	
WageType	String	Mandatory	Must be set to valid text value, as detailed below: Value Description Weekly
WorkingWeek	String	Mandatory	
SkillsRequired	String(MAX)	Optional	
QualificationRequired	String(MAX)	Optional	
PersonalQualities	String(MAX)	Optional	
FutureProspects	String(4000)	Optional	
OtherImportantInformation	String(MAX)	Optional	

Tag Nam	ne			Туре		Notes / Validati	on
	Lo	ocation	Туре	String	Mandatory	Must be set to val detailed below:	id text value, as
						Value	Description
						Standard	Vacancies with a single location
						MultipleLocation	Vacancies with more than one location
						National	Vacancies that are "national" i.e. have no specific location
	Lo	ocation	Details	Child Object			
		SiteV	acancyData	Child Object		One or more sites	
			ddressDetails	Child Object		One address per	VacancyDetails
			AddressLine1	String(50)	Mandatory		
			AddressLine2	String(50)	Optional		
			AddressLine3	String(50)	Optional		
			AddressLine4	String(50)	Optional		
			AddressLine5	String(50)	Optional		
			County	String(150)	Mandatory		
			GridEastM	Integer	Optional	Geo Code location	n data
			GridNorthM	Integer	Optional	Geo Code location	n data
			Latitude	Float	Optional		
			Longitude	Float	Optional		
			PostCode	String(8)	Mandatory		
			Town	String(40)	Mandatory		
			LocalAuthority	String	Optional		
		N	umberOfVacancies	Integer	Mandatory	This value must b	e set to 1 or more
		E	mployerWebsite	String	Optional		

1 1 1	RealityCheck	String(MAX)	Optional	İ	
	SupplementaryQuestion1	String(MAX)	Mandatory		
	SupplementaryQuestion2	String(4000)	Mandatory		
	Application	Child Object	Mandatory		
	ClosingDate	DateTime	Mandatory	Should be afte	r todav's date
	InterviewStartDate	DateTime	Mandatory	Should be after	
	PossibleStartDate	DateTime	Mandatory	Should be after	
	Type	String	Mandatory		valid text value, as
	1,750	Gg	, manuality	detailed below:	
				Value	Description
				Online	Applications are managed through the Apprenticeship vacancies site
				Offline	Applications are managed through an Employer's or Learning Provider site
				Employer\Web	Offline the URL for the site must defined to for the candidates.
	Instructions	String			
Tag Nam	ne	Туре		Notes / Valid	lation
	Apprenticeship	Child Object	Mandatory	riotoo, rana	
	Framework	String(3)	Mandatory		eck if valid framework Reference Data)
	Туре	String	Mandatory	Must be set to detailed below:	valid text value, as
				Value Unspecified	
				IntermediateLe	velApprenticeship
					IApprenticeship
				HigherApprenti	ceship
	TrainingToBeProvided	String(MAX)	Optional		
	ExpectedDuration	String(50)	Optional		
	ContractedProviderUkprn	Integer	Mandatory	the UK PRN fo the contract wi Owner, Vacand Delivery Provid the system as	d Provide UK PRN is rethe organisation with the NAS. The Vacancy by Manager and ler must all be setup in owned by or a sub-Recruitment Agency) ed Provider.
	VacancyOwnerEdsUrn	Integer	Mandatory	be an existing valid relationsh EDS URN. If the is a Provider, the registering their must correspond the Vacancy 'National' then	Owner EDS URN must EDS URN and have a sip with the Employer ne user of this interface he UKPRN used when r access to the system and to the EDS URN. LocationType is if a valid relationship allow Nationwide
	VacancyManagerEdsUrn	Integer	Optional	The Vacancy N must be an exi must either be	Manager EDS URN sting EDS URN and the Vacancy Manager if not specified) or 1

			setup as a Recruitment Agency for the Vacancy Owner and Employer.
DeliveryProviderEdsUrn	Integer	Optional	The Delivery Provider EDS URN must be an existing EDS URN and must either be the Vacancy Manager (this is default if not specified) or
			setup as a Recruitment Agency for the Vacancy Owner and Employer.
IsDisplayRecruitmentAgency	Boolean	Optional	When a Recruitment Agency is the Vacancy Manager, specifies whether the Recruitment Agency details are shown on the vacancy. Defaults to True if not provided.
IsSmallEmployerWageIncentive	Boolean	Mandatory	Specifies whether the Employer is in receipt of the Small Employer Wage Incentive for this vacancy.

Note the use of Vacancy/LocationType is key to this Web Service call, as it determines whether a vacancy has no specific address (National), one address (Standard) or a set of addresses with vacancies at each (MultiLocation).

Return value

Tag Name	Туре	Description
VacancyUploadResultData	TAG Group	
VacancyID		This is the vacancy ID passed in by the calling system
Status String		This is either Success or Fail. If the import has failed please check the error code values to determine why.
Error Codes	TAG Group	This is list of error codes.
Error Code	Integer	This is a specific error code indicating why the import failed. Please check the appendix for a full list of error codes.
VacancyReference	Integer	This returns the new vacancy reference number. This is checked against the database when generated to make sure the reference number does not exist when creating the vacancy.

Fault codes

In the event that the service experiences an unexpected error (e.g. invalid SOAP message) then a standard SOAP fault will be returned. The faults that may be raised are:

Fault Code	Fault String
Client	The message was incorrectly formed or contained incorrect information
Server	There was a problem with the server so the message could not proceed

5.3 Service: VacancyDetails

The Vacancy Details service provides system integrators with the ability to download open apprenticeships from the recruit an apprentice system. This service allows various parameters to allow the system integrators to select the most relevant apprenticeships and/or request up to date details after a given date.

This web service call uses specific data for each of its parameters. A copy of the available values can be obtained from the ReferenceData service.

5.3.1 Method: Get

Purpose

Use this method to obtain a list of the open apprenticeships which are available within the Recruit an apprentice system (subject to search criteria). This provides all the data for a specific vacancy. Please use the VacancySummary service to retrieve a smaller limited view of the vacancy.

Signature

VacancyDetailsResponse Get (VacancySearchCriteria)

Input parameters

VacancySearchCriteria has the following parameters

Tag Name	Туре	Mandatory	Description
VacancyReferenceId	Integer	No	This field allows the details of a single vacancy to be returned. Only 1 vacancy reference may be supplied.
OccupationCode	String (3)	No	This field allows the vacancies for a specified occupation group as defined by the Recruit an apprentice reference data to be returned.
FrameworkCode	String (3)	No	This field allows the vacancies for a specified framework group as defined by the Recruit an apprentice reference data to be returned.
VacancyLocationType	String (11)	Yes	This must be set to either 'National' or 'NonNational'. If set to 'National' then the CountyCode, Town and RegionCode will be ignored as only Nationwide vacancies will be returned. If set to 'NonNational' the location search criteria can be specified. NOTE that when set to 'NonNational' then any Nationwide vacancies will NOT be included in the results – you can call the Web Service multiple times to build an inclusive result set.
CountyCode	String (3)	No	Restricts search to vacancies within the specified county.
Town	String (255)	No	A free format string which can be used to retrieve vacancies which are available within the town specified. If a parameter is spelt incorrectly the search will return no results (unless a vacancy has been setup with its town spelt incorrectly.)
RegionCode	String (3)	No	Restricts search to vacancies within the specified region
VacancyPublishedDate	DateTime	No	Only vacancies that have been published since this date will be included
PageIndex	Integer	Yes	This should be set to 1 for the first call.

Any optional (Mandatory=No) tags above should not be submitted if they do not have a value.

VacancyDetailsResponse
Note that the XML hierarchy is reflected in the indentation of the table below.

	Property Name	Type	Description	
lead	der	Child Object	Contains generic information about the Recruit an	
_			apprentice system, appears once	
R	RecruitAnApprenticeDescription	String	Descriptive information about the Recruit an apprentice system	
R	RecruitAnApprenticeURL	String	URL for further information about the Recruit an apprentice system	
ear	rchResults	Child Object	Contains all of the search results data, appears once	
٧	/acancyFullData	Child Object	Contains one set of Vacancy Details, can appear zero or numerous times	
	VacancyLocationType	String	Returns 'Standard', 'MultipleLocation' or 'National'. Note that, where the search criteria is National, only records that are 'National' will be returned; when the search is NonNational, then 'Standard' or 'MultiLocation' records will be returned.	
	VacancyAddress	Child Object	Contains the address of the Vacancy. When the vacancy is a 'National' vacancy this will contain the Employer's address as specified in the vacancy. When the vacancy is a 'MultiLocation' vacancy, each location will be returned by the system as an individual vacancy.	
	AddressLine1	String	Always provided – see note above about address used	
	AddressLine2	String	Address lines 2 to 5 might have information provided,	
	AddressLine3	String	depending on the address details	
	AddressLine4	String	1	
	AddressLine5	String	7	
	County	String	Always provided – see note above about address used	
	GridEastM	Integer	Geo Code location data, this should be provided but,	
	GridNorthM	Integer	where data is provided through VacancyUpload there is	
	Latitude	Decimal Number	a small risk that data has not been provided and the background task to update this has not yet provided it.	
	Longitude	Decimal Number	basing round tack to apacito time has not yet provided in	
	PostCode	String	Always provided – see note above about address used	
	Town	String	Always provided – see note above about address used	
	ApprenticeshipFramework	String	Always provided	
	ClosingDate	DateTime	Always provided	
	ShortDescription	String	Always provided	
	EmployerName	String	Always provided	
	LearningProviderName	String	Always provided	
	NumberOfPositions	Integer	Always provided	
	VacancyTitle	String	Always provided	
	CreatedDateTime	DateTime	Always provided	
	VacancyReference	String	Always provided	
1	VacancyType	String	Always provided	
1	VacancyUrl	String	Always provided	
	FullDescription	String	Always provided	
	SupplementaryQuestion1	String	Always provided	
1	SupplementaryQuestion2	String	Always provided	
	ContactPerson	String	Optional information	
	EmployerDescription	String	Always provided	
1	ExpectedDuration	String	Optional information	

	Property Name	Туре	Description
	FutureProspects	String	Optional information
	InterviewFromDate	DateTime	Always provided
	LearningProviderDesc	String	Always provided
	LearningProviderSectorPassRate	Integer	The success rate for the Learning Provider in this sector as a simple percentage (0-100) expressed as an integer. Where the value is NULL then the sector is new for the Learning Provider and therefore they have no pass rates to report – this is the same as the "New" radio button on the Learning Provider's information screen.
	PersonalQualities	String	Optional information
	PossibleStartDate	DateTime	Always provided
	QualificationRequired	String	Optional information
	SkillsRequired	String	Optional information
	TrainingToBeProvided	String	Optional information
	WageType	String	Always provided. Contains value "Text" or "Weekly"
	Wage	Decimal Number	Optional information, this is specified in GB Pounds Sterling when WageType is Weekly
	WageText	String	Optional information, this is specified when WageType is Text
	WorkingWeek	String	Always provided
	OtherImportantInformation	String	Optional information
	EmployersWebsite	DateTime	Optional information
	VacancyOwner	String	Trading name of Vacancy Owner
	ContractOwner	String	Trading name of Contract Owner
	DeliveryOrganisation	String	Full name of Delivery Organisation
Ш	VacancyManager	String	Trading name of Vacancy Manager
	IsDisplayRecruitmentAgency	Boolean	Recruitment Agency should be displayed on vacancy
	IsSmallEmployerWageIncentive	Boolean	Employer is in receipt of Small Employer Wage Incentive
Total	Pages	Integer	Total number of pages of results that match search criteria

5.4 Service: VacancySummary

The Vacancy Summary service provides system integrators with the ability to download open apprenticeships from the recruit an apprentice system. This service allows various parameters to allow the system integrators to select the most relevant apprenticeships and/or request up-to date details after a given date.

This web service call uses specific data for each of its parameters. A copy of the available values can be obtained from the ReferenceData service.

5.4.1 Method: Get

Purpose

Use this method to obtain a list of the open apprenticeships which are available within the recruit an apprentice system (subject to search criteria).

Signature

VacancySummaryResponse Get (VacancySearchCriteria)

Input Parameters

VacancySearchCriteria has the following parameters

Tag Name	Туре	Mandatory	Description
VacancyReferenceId	Integer	No	This field allows the details of a single vacancy to be returned. Only 1 vacancy reference may be supplied.
OccupationCode	String (3)	No	This field allows the vacancies for a specified occupation group as defined by the Recruit an apprentice reference data to be returned.
FrameworkCode	String (3)	No	This field allows the vacancies for a specified framework group as defined by the Recruit an apprentice reference data to be returned.
VacancyLocationType	String (11)	Yes	This must be set to either 'National' or 'NonNational'. If set to 'National' then the CountyCode, Town and RegionCode will be ignored as only Nationwide vacancies will be returned. If set to 'NonNational' the location search criteria can be specified. NOTE that when set to 'NonNational' then any Nationwide vacancies will NOT be included in the results – you can call the web service multiple times to build an inclusive result set.
CountyCode	String (3)	No	Restricts search to vacancies within the specified county.
Town	String (255)	No	This is a free format string which can be used to retrieve vacancies which are available within the town specified. If a parameter is spelt incorrectly the search will return no results (unless a vacancy has been setup with its town spelt incorrectly.)
RegionCode	String (3)	No	Restricts search to vacancies within the specified region
VacancyPublishedDate	DateTime	No	Only vacancies that have been published since this date will be included
PageIndex	Integer	Yes	This should be set to 1 for the first call.

Any optional (Mandatory=No) tags above should not be submitted if they do not have a value.

VacancySummaryResponse

Note that the XML hierarchy is reflected in the indentation of the table below.

Tag Name Type		Туре	Description		
Hea	ader		Child Object	Contains generic information about the Recruit an apprentice system, appears once	
F	RecruitAnAp	prenticeDescription	String	Descriptive information about the Recruit an apprentice system	
F	RecruitAnApprenticeURL		String	URL for further information about the Recruit an apprentice system	
Sea	archResults		Child Object	Contains all of the search results data, appears once	
١	VacancySum	nmaryData	Child Object	Contains one set of Vacancy Details, can appear zero or numerous times	
	VacancyL	_ocationType	String	Returns 'Standard', 'MultipleLocation' or 'National'. Note that, where the search criteria is National, only records that are 'National' will be returned; when the search is NonNational, then 'Standard' or 'MultiLocation' records will be returned.	
	Vacancy/	VacancyAddress		Contains the address of the Vacancy. When the vacancy is a 'National' vacancy this will contain the Employer's address as specified in the vacancy. When the vacancy is a 'MultiLocation' vacancy, each location will be returned by the system as an individual vacancy (differs, by design, from the upload).	
	Addre	essLine1	String	Always provided – see note above about address used	
	Addre	AddressLine2 S	String	Address lines 2 to 5 might have information provided,	
	Addre	essLine3	String	depending on the address details	
	Addre	essLine4	String		
	Addre	essLine5	String		
`	Coun	ty	String	Always provided – see note above about address used	
	GridE	astM	Integer	Geo Code location data, this should be provided but, where	
	GridN	lorthM	Integer	data is provided through VacancyUpload there is a small risk that data has not been provided and the background task to	
	Latitu	de	Float	update this has not yet provided it.	
	Longi	tude	Float		
	PostC	Code	String	Always provided – see note above about address used	
	Town		String	Always provided – see note above about address used	
	Apprentic	eshipFramework	String	Always provided	
	ClosingDa	ate	DateTime	Always provided	
	ShortDes	cription	String	Always provided	
	Employer	Name	String	Always provided	
	TrainingP	roviderName	String	Always provided	
	NumberC)fPositions	Integer	Always provided	
	Vacancy	VacancyTitle		Always provided	
			DateTime	Always provided	
			Integer	Always provided	
	Vacancy	Гуре	String	Always provided	
	Vacancyl	Jrl	String	Always provided	
Tota	alPages		Integer	Total number of pages of results that match the search criteria	

5.5 Service: VacancyRSSFeed

The RSS Feed Service is an alternative version to the Vacancy Summary Details Service, and uses most of its search criteria. This is a generic ASPX page which changes its content type to output a static RSS feed based on certain query string parameters. There is no authentication taking place on this service.

5.5.1 Method: CreateFeed

The usage of this service is different from the other services available. This is reliant upon a normal web page which outputs RSS content, rather than a dedicated Web Service.

Signature

void CreateFeed()

Input Parameters

The parameters for this service are provided through the querystring on the service URL https://rss.findapprenticeship.service.gov.uk/VacancyRssFeedService/VacancyRss.aspx?param1=value¶m2=value

http://rss.findapprenticeship.service.gov.uk/VacancyRssFeedService/VacancyRss.aspx?param1=value¶m2=value

where the parameters are as follows:

Parameter Name	Description	Notes
feedType	This is a setting to set the type of feed that is required: value of 1 provides a list of vacancies that went to 'Live' status within the number of days specified in dayRange; value of 2 provides a list of vacancies that are due to close in the next 7 days and have 5 or less applicants.	This is a mandatory parameter and only accepts the numbers 1 or 2. Setting this parameter to 1 makes the dayRange parameter mandatory. Note that the settings for type 2 are system-wide and set by NAS.
dayRange	This is the amount of days from the date the query was run that the vacancies went 'Live'.	This is mandatory when feedType=1. Leave out if feedType=2.
frameworkCode	This is the three digit Framework Code used by vacancies to describe a job role	
occupationCode	The occupationCode is a three letter code The full list of codes can be retrieved using the Reference Data Service.	See Appendix B for a list of codes (correct at time of publication)
Town	This is a comma separated listed of towns in which the vacancy resides in one.	
countyCode	Similar to town, although this is a comma separated list of counties, each represented by a three-letter code, available from the Reference Data Service.	See Appendix B for a list of codes (correct at time of publication)
regionCode	This is also similar to the countyCode although a comma separated list of regions, also represented as a code, available from the Reference Data Service	
referenceNumber	This is the vacancy reference number for a specific vacancy. This option is not normally used.	If used, do not combine with any of the above optional parameters.
Format	This is to specify the format of the feed and, if required, should be "ATOM" for Atom 1.0 or "RSS" for RSS 2.0.	If this parameter is not specified, the feed type will default to RSS.

Note that, for the RSS feed, National vacancies are included in the results of all searches, irrespective of any Town, countyCode and/or regionCode specified in the criteria.

Tag			Туре	Notes
RSS	3		Tag Group	
(Cha	nnel	Tag Group	
	Т	itle	String	This information is retrieved from the System Parameters table
	Г	Description	String	This information is retrieved from the System Parameters table
	C	Copyright	String	This information is retrieved from the System Parameters table
	It	tem	Tag Group	This is repeated for each vacancy
	1	Category	String	This is the framework description
		Title	String	
		Description	String	
		PubDate	DateTime	This is the date that the vacancy went to 'Live' status
		Link	String	This will direct the user to the Vacancy Details Page. It will request a login, if the user is not logged in.

Fault codes

In the event of an error, the following scenarios may occur:

- Navigating to the RSS service URL directly will return an ASP error page and show which field is invalid, or will return an error code if it's an unexpected error.
- Calling the service from code with errors will result in Internal Error 500 if an invalid field is detected, or another code should there be an unexpected error, such as 404 if the service URL is incorrect or the service is unavailable.

Appendix A: Error codes

The current set of error codes are also available through the Reference Data Web Service, and these should be used as the master source for error codes. These are correct at the time of publishing for this document, but may change in future releases.

Error Code	Error Description
-1	Unknown System Error
-2	SuppliedDataInvalid
-10001	"WorkingWeek" must be 100 characters or less
-10002	"WorkingWeek" is mandatory
-10003	"WeeklyWage" should be at least £40
-10004	"WeeklyWage" is mandatory
-10005	"VacancyType" is mandatory
-10006	"Title" must be 200 characters or less
-10007	"Title" is mandatory
-10008	"PossibleStartDate" is mandatory
-10009	"ShortDescription" must be 512 characters or less
-10010	"ShortDescription" is mandatory
-10011	"NumberOfPositions" is mandatory for standard vacancies
-10012	"LearningProviderEdsUrn" is mandatory
-10013	"InterviewStartDate" is mandatory
-10014	"LongDescription" is mandatory
-10015	"ApprenticeshipFramework" is mandatory
-10016	"ApprenticeshipFramework" must be 3 characters
-10017	"EmployerWebsite" must be 512 characters or less
-10018	"EmployerExternalApplicationWebsite" must be 512 characters or less
-10019	"EmployerEdsUrn" is mandatory
-10020	"EmployerDescription" must be 8000 characters or less
-10021	"EmployerAnonymousName" must be 510 characters or less
-10022	"ContactName" must be 200 characters or less
-10023	"ClosingDate" is mandatory
-10024	"ApplicationInstructions" must be 8000 characters or less
-10025	"NumberOfVacancies" is mandatory for multi-site vacancies
-10026	"ClosingDate" is Invalid
-10027	"EmployerImage" size must be less than 10K
-10028	"LongDescription" must be 2147483648 characters or less
-10029	"InterviewStartDate" is Invalid
-10030	"PossibleStartDate" is Invalid
-10031	"EmployerExternalApplicationWebsite " in mandatory for offline vacancies
-10032	"EmployerDescription" is mandatory for anonymous employer
-10033	Learning Provider is not authorised for this vacancy
-10034	Vacancy reference number already exists
-10035	Invalid relationship for training provider and employer

Error Code	Error Description		
-10036	"ApprenticeshipFramework" is invalid		
-10037	"County" for standard location is invalid		
-10038	"County" for multiple location is invalid		
-10039	"County" for standard location is mandatory		
-10040	"County" for multiple location is mandatory		
-10041	"AddressLine1" for standard location is mandatory		
-10042	"AddressLine1" for multiple location is mandatory		
-10043	"EmployerImage" is not valid.		
-10044	Entered Training Provider and Employer cannot have national vacancy		
-10045	"EmployerEdsUrn" is invalid		
-10046	"LearningProviderEdsUrn" is invalid		
-10047	"PostCode" is mandatory for standard vacancies		
-10048	"PostCode" is mandatory for multisite vacancies		
-10049	"PostCode" is invalid for standard vacancy		
-10050	"PostCode" is invalid for multisite vacancy		
-10051	Unsupported HTML data format		
-10052	"DisplayRecruitmentAgency" is mandatory		
-10053	"SmallEmployerWageIncentive" is mandatory		
-10054	"DeliveryOrganisation" does not exist		
-10055	"VacancyManager" does not exist		
-10056	"ContractOwner" is not authorised for this vacancy		
-10057	"VacancyManager" is not authorised for this vacancy		
-10058	"DeliveryOrganisation" is not authorised for this vacancy		
-10059	"ContractOwnerUKPRN" is mandatory		
-10060	"DeliveryProviderEdsUrn" is mandatory		
-10061	"VacancyManagerEdsUrn" is mandatory		
-10062	"VacancyOwnerEdsUrn" is mandatory		
-10063	"LocalAuthority" does not exist		
-10064	"Address" is mandatory		
-10065	"SiteVacancyDetails" is mandatory		
-10066	"WageType" is invalid		
-20001	Unknown Vacancy Reference		
-20002	InvalidVacancyReference		
-20003	Invalid Update Value		
-20004	You cannot record this number of candidates as successful as the total number of successes is greater than the number of vacancies available for this advert. Either the number of successful candidates reported is incorrect or the number of vacancies for this advert needs to be increased.		
-20005	Updates Not Allowed		

Remember that the most up-to-date source for Error Codes is the ReferenceData service.

Appendix B: County and Occupation Code Reference Data

The current reference data is always available through the Reference Data Web Service, and these should be used as the master source. However, for ease of use, these are correct at the time of publishing for this document, but may change in future releases.

County Code	County Namo	
	County Name	
BED	Bedfordshire	
BER	Berkshire	
BUC	Buckinghamshire	
CAM	Cambridgeshire	
CHE	Cheshire	
COR	Cornwall	
CUM	Cumbria	
DER	Derbyshire	
DEV	Devon	
DOR	Dorset	
DUR	Durham	
EYK	East Riding of Yorkshire	
ESX	East Sussex	
ESS	Essex	
GLO	Gloucestershire	
GMN	Greater Manchester	
HAM	Hampshire	
HFD	Herefordshire	
HTF	Hertfordshire	
IOW	Isle of Wight	
KEN	Kent	
LAN	Lancashire	
LEI	Leicestershire	

County Code	County Name
LIN	Lincolnshire
LON	London
MSY	Merseyside
NOR	Norfolk
NYK	North Yorkshire
NTP	Northamptonshire
NTB	Northumberland
NTG	Nottinghamshire
OXF	Oxfordshire
SHR	Shropshire
SOM	Somerset
SYK	South Yorkshire
STA	Staffordshire
SUF	Suffolk
SUR	Surrey
TAW	Tyne and Wear
WAR	Warwickshire
WMD	West Midlands
WSX	West Sussex
WYK	West Yorkshire
WIL	Wiltshire
WOR	Worcestershire
RUT	Rutland

Remember that the most up-to-date source for reference data is the ReferenceData service.

Occupation Code	Description
AHR	Business, Administration and Law
ALB	Agriculture, Horticulture and Animal Care
ACC	Arts, Media and Publishing
CST	Construction, Planning and the Built Environment
HBY	Retail and Commercial Enterprise
HTL	Leisure, Travel and Tourism
ITC	Information and Communication Technology
MFP	Engineering and Manufacturing Technologies
PUB	Health, Public Services and Care
13	Education and Training

Remember that the most up-to-date source for reference data is the ReferenceData service.

Appendix C: Bulk Vacancy Upload Tool Data Mapping

The following table provides a mapping from the Bulk Vacancy Upload Excel spreadsheet's columns to the new UploadVacancy Web Service. Note that the Bulk Vacancy Upload Tool does not and will not support the new capabilities of the system around sub-contracting, Recruitment Agencies or new flags such as the Small Employer Wage Incentive.

This legacy interface is provided specifically for users who have developed systems that can populate the Bulk Vacancy Upload tool's Excel spreadsheet to assist them in the move to the new Web Services.

Note that, as with the existing v1.0 Web Services, this option is now effectively deprecated and the intention is that this option will be removed completely in the next major release of the system, expected later in 2012.

Column in Excel	Tag in Web Service	Notes
Employer URN	Employer\EdsUrn	
Employer Name	-	This data is not needed by the Web
Employer Postcode	-	Service.
Employer LSC Region	-	This Form laws winforms a time was a final and a d
Lead Contact Title	-	This Employer information was included in the original tool to allow initial data
Lead Contact First Name	-	load of the existing registered
Lead Contact Surname	-	Employers. The new Web Service
Lead Contact Position	-	requires that all of the Employers' relationships with the Learning Provider
Lead Contact Address Line 1	-	are already configured. Where there is
Lead Contact Address Line 2	-	no existing relationship, the vacancy
Lead Contact Address Line 3	-	will not be accepted and an error
Lead Contact Town/City	-	returned.
Lead Contact County	-	
Lead Contact Postcode	-	
Lead Contact Telephone	-	
Lead Contact Mobile No.	-	
Lead Contact Email Address	-	
Lead Contact Fax No.	-	
Lead Contact Preference	-	
Provider Site URN	VacancyOwnerEdsUrn	Note that, like version 1.0 of the Web Services, this will be used to populate all related site details for the Vacancy Owner, the Vacancy Manager and the Delivery Organisation.
Provider UKPRN	-	Not required by the Web Service as this information can be derived directly from the Provider Site URN
Vacancy Contact Name	Employer\ContactName	

Column in Excel	Tag in Web Service	Notes
Vacancy Address Line1	Vacancy\LocationDetails\SiteVacancyData\ AddressDetails\AddressLine1	
Vacancy Address Line2	Vacancy\LocationDetails\SiteVacancyData\ AddressDetails\AddressLine2	
Vacancy Address Line3	Vacancy\LocationDetails\SiteVacancyData\ AddressDetails\AddressLine3	
Vacancy Town/City	Vacancy\LocationDetails\SiteVacancyData\ AddressDetails\Town	
Vacancy County	Vacancy\LocationDetails\SiteVacancyData\ AddressDetails\County	Must match reference data for County
Vacancy Postcode	Vacancy\LocationDetails\SiteVacancyData\ AddressDetails\PostCode	
Job Role (Framework)	Apprenticeship\Framework	Needs code instead of text description.
Vacancy Title	Title	
Vacancy Type	Vacancy\Type	Requires code instead of text.
Vacancy Short Description	ShortDescription	
Vacancy Full Description	LongDescription	
Weekly Wage	Vacancy\Wage	
Number Of Positions	Vacancy\LocationDetails\SiteVacancyData\ NumberOfPositions	
Closing Date	Application\ClosingDate	
Interview Start Date	Application\InterviewStartDate	
Possible Start Date	Application\PossibleStartDate	
Expected Apprenticeship Duration	Apprenticeship\ExpectedDuration	
Working Week	Vacancy\WorkingWeek	
Employer's Anonymous Name	Employer\AnonymousName	
Employer Description	Employer\Description	
Upload Logo	Employer\Image	
Application Route	Application\Type	
Application Instructions	Application\Instructions	
Website Address	Vacancy\LocationDetails\SiteVacancyData\ EmployerWebsite	
Employer Website	Employer\Website	
Training To Be Provided	TrainingToBeProvided	
Qualifications Required	Vacancy\QualificationsRequired	
Skills Required	Vacancy\SkillsRequired	
Personal Qualities	Vacancy\PersonalQualities	
Important Other Information	Vacancy\OtherImportantInformation	
Future Prospects	Vacancy\FutureProspects	
Reality Check	Vacancy\RealityCheck	
Supplementary Question 1	Vacancy\SupplementaryQuestion1	
Supplementary Question 2	Vacancy\SupplementaryQuestion2	
Unique Vacancy Identifier	-	No longer used

Appendix D: Release 5 (version 1.0) Web Services

The existing Web Services are being deprecated as part of Release 5a, and are not expected to be available after the next major release of the system. Full documentation for these is not included in this document – please refer to "Apprenticeship Vacancies - Release 5 - Service Interface Guide" version 1.0.3 and the relevant WSDL files for details.

Version 1.0 Functional Constraints

With the functionality in Release 5a adding support for the lead provider/sub-contractor relationship (including Recruitment Agencies) together with internal organisational changes, there are some areas of the legacy Web Services that have been amended to support the new data but which cannot fully support these changes:

Vacancy Upload

LearningProviderEdsUrn is used to derive all of the required provider information, behaving as per Release 5 where the provider is effectively contracted, and the owner and is delivering the training. It is not possible to reflect the sub-contracting of vacancies using the Release 5 interfaces.

Vacancy Detail

LearningProvider returns the name, as per Release 5a search results and vacancy details, which shows sub-contracting as "Delivered by XYZ on behalf of ABC".

Version 1.0 Service End-Points

The end-points for the original (version 1.0) Web Services remain on their original URLs with the same security model, as summarised below:

Current Production Endpoint

https://soapapi.findapprenticeship.service.gov.uk/Services/BulkVacancyUploadService/BulkVacancyUploadService.svc
https://soapapi.findapprenticeship.service.gov.uk/Services/ReferenceDataService/ReferenceDataService.svc
https://soapapi.findapprenticeship.service.gov.uk/Services/VacancyDetailsService/VacancyDetailsService.svc
https://soapapi.findapprenticeship.service.gov.uk/Services/VacancySummaryService/VacancySummaryService.svc

The vacancy summary RSS feed is available from the URL, with the addition of an HTTP (non-SSL) feed to support those aggregators which cannot connect to HTTPS feeds.

Appendix E: Moving to the recruit an apprentice API from apprenticeship vacancies

- The apprenticeship vacancies API web address will stop working on August 15 2016. You must start using the recruit an apprentice web address by this date.
- There is no testing sandbox in the recruit an apprentice API because the API is the same as the apprenticeship vacancies version. No re-implementations are required and there are none planned in the future.
- The API continues to use the same endpoint structure. It writes to, and retrieves from, the same database.
- The Av live vacancies tool is unaffected by these API changes.

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