
Department for Education and Skills

QWS System Integration Guide



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1.0 Introduction

1.1 Background

There is a need to collect Post-16 Learning Aims (PLA) to support the “Fair Funding” of all post-16 establishments (schools, colleges and work-based learning). It was decided that this could be achieved by collecting PLA data based on the Qualification Accreditation Number (QAN) which can be used to identify specific qualifications studied by post-16 students. The facility to do this is not in the current versions of the Management Information Systems (MISs) used by schools to provide data to DfES. It was decided that 2006 / 2007 PLA data would be collected using an interim solution; a stand alone web application (PLAMS – Post-16 Learning Aims Management System) was developed to provide this. From the 2007/2008 academic year it was agreed that these data should be collected using the School Census. This requires school MISs to contain the functionality to record and process PLA data on an event-driven basis and for the Department to provide the necessary base data to support these activities. It was decided to commission a project to develop a system that could build on the interim solution and provide a source of QAN data to schools. The data provided would be tailored specifically from the more generic data received from QCA to support school teaching and learning activities and to improve the data quality from future School Census collections.

1.2 Purpose

The QWS system gives schools access to QAN data. This access is provided through a web site where data files can be downloaded by school users and a set of SOAP 1.2 web services where the same data can be retrieved programmatically by school Management Information Systems.

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

1.3 Support

For technical questions regarding this guide please contact the DfES Data Services Help Desk:

Email: DSC.helpdesk@dfes.gsi.gov.uk

Telephone: 01325 392626

2.0 Technical Standards

The QWS 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 v1.2, 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 as defined by W3C
- Transformation Format – 8 bit UTF-8 (RFC 2279)

3.0 Web Services Locations

The QWS web services are provided at two locations; a LIVE environment and a TEST environment.

The LIVE environment provides access to current QAN data and should be used for normal operational use.

The TEST environment provides access to test QAN data and should be used to test the development of your application integration with the QWS web services.

The QWS web services are divided into two groups; public access and controlled access.

The public access web services can be called by any Internet user or connected application.

The controlled access web services can also be called by any Internet user or connected application BUT requires a valid username and password to be supplied as two of the input parameters for these web services. Only if the supplied username and password is authenticated will these controlled access web services return the requested data.

For the LIVE environment the public access web services are located at:

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx>

The associated WSDL file is located at:

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?WSDL>

For the LIVE environment the controlled access web services are located at:

<https://data.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx>

The associated WSDL file is located at:

<https://data.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx?WSDL>

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For the TEST environment the public access web services are located at:

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx>

The associated WSDL file is located at:

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?WSDL>

For the TEST environment the controlled access web services are located at:

<https://datauat.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx>

The associated WSDL file is located at:

<https://datauat.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx?WSDL>

Security Note: The controlled access web services use SSL to ensure that the passing of usernames and passwords as input parameters are encrypted.

4.0 Web Services Authorisation

To use the controlled access web services you require a valid username and password.

Schools and Local Authorities can use the data collection usernames and passwords that give access to the COLLECT system. DfES have also issued usernames and passwords to all core suppliers of Management Information Systems to schools.

If you fall into any of these groups and do not know what your assigned username and password is please contact the DfES Data Services Help Desk for assistance:

Email: DSC.helpdesk@dfes.gsi.gov.uk

Telephone: 01325 392626

If you are not a member of any of these groups but wish to use the controlled access web services, please contact the DfES Data Services Help Desk for assistance. If deemed appropriate the help desk will issue you with a username and password.

5.0 Web Service Definitions

This section describes each available QWS web service in detail.

For each web service the following information is provided:

1. Purpose – what you can use the web service for.
2. Signature – the name of the web service, the type of value it returns and the names and types of its parameters.
3. Address – the exact URL of the web service for both LIVE and TEST environments.
4. Input Parameters – a description of the web service's input parameters; these are the parameters you will need to supply values for.
5. Return Value – a description of the values the web service can return.
6. Output Parameters – a description of the web service's output parameters; these are the parameters that the web service will return data in.

The XML schemas for the web services that return XML data are available for download from the QWS web site at:

<http://data.dfes.gov.uk/QWSWeb>

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

5.1 GetSectorSubjectTier1Xml

5.1.1 Purpose

To return the complete list of current sector subject framework tier 1 codes in XML format.

5.1.2 Signature

```
int GetSectorSubjectTier1Xml(string resultXml)
```

5.1.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier1Xml>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier1Xml>

5.1.4 Input Parameters

None.

5.1.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.1.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current sector subject framework tier 1 codes in XML format. The XML conforms to the SSFT1 XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.2 GetSectorSubjectTier1

5.2.1 Purpose

To return the complete list of current sector subject framework tier 1 codes as an array of structures.

5.2.2 Signature

```
int GetSectorSubjectTier1(SSFT1Data[] resultArray)
```

```
SSFT1Data
{
    int          SSFT1_ID
    string       SSFT1
    string       SSFT1Description
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

5.2.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier1>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier1>

5.2.4 Input Parameters

None.

5.2.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.2.6 Output Parameters

```
SSFT1Data[] resultArray

SSFT1Data
{
    int         SSFT1_ID
    string      SSFT1
    string      SSFT1Description
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

This parameter returns the complete list of current sector subject framework tier 1 codes in an array of SSFT1Data structures. The SSFT1Data structure consists of the following fields:

SSFT1_ID	QWS unique identifier for each sector subject framework tier 1 record
SSFT1	Sector subject framework tier 1 code
SSFT1Description	Description of the sector subject framework tier 1 record
EffectiveFrom	Date from which the sector subject framework tier 1 record is effective
EffectiveTo	Date to which the sector subject framework tier 1 record is effective
LastUpdated	Date and time when the sector subject framework tier 1 record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.3 GetSectorSubjectTier2Xml

5.3.1 Purpose

To return the complete list of current sector subject framework tier 2 codes in XML format.

5.3.2 Signature

```
int GetSectorSubjectTier2Xml(string resultXml)
```

5.3.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier2Xml>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier2Xml>

5.3.4 Input Parameters

None.

5.3.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.3.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current sector subject framework tier 2 codes in XML format. The XML conforms to the SSFT2 XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.4 GetSectorSubjectTier2

5.4.1 Purpose

To return the complete list of current sector subject framework tier 2 codes as an array of structures.

5.4.2 Signature

```
int GetSectorSubjectTier2(SSFT2Data[] resultArray)
```

```
SSFT2Data
{
    int          SSFT2_ID
    string       SSFT2
    string       SSFT2Description
    string       SSFT1
    string       SSFT1Description
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

5.4.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier2>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSectorSubjectTier2>

5.4.4 Input Parameters

None.

5.4.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.4.6 Output Parameters

```

SSFT2Data[] resultArray

SSFT2Data
{
    int          SSFT2_ID
    string       SSFT2
    string       SSFT2Description
    string       SSFT1
    string       SSFT1Description
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}

```

This parameter returns the complete list of current sector subject framework tier 2 codes in an array of SSFT2Data structures. The SSFT2Data structure consists of the following fields:

SSFT2_ID	QWS unique identifier for each sector subject framework tier 2 record
SSFT2	Sector subject framework tier 2 code
SSFT2Description	Description of the sector subject framework tier 2 record
SSFT1	Sector subject framework tier 1 code that is the parent of this sector subject framework tier 2 record
SSFT1Description	Description of the sector subject framework tier 1 record that is the parent of this sector subject framework tier 2 record
EffectiveFrom	Date from which the sector subject framework tier 2 record is effective
EffectiveTo	Date to which the sector subject framework tier 2 record is effective
LastUpdated	Date and time when the sector subject framework tier 2 record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.5 GetMapCodeXml

5.5.1 Purpose

To return the complete list of current map codes in XML format.

5.5.2 Signature

```
int GetMapCodeXml(string resultXml)
```

5.5.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetMapCodeXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetMapCodeXml
```

5.5.4 Input Parameters

None.

5.5.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.5.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current map codes in XML format. The XML conforms to the Map Codes XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.6 GetMapCode

5.6.1 Purpose

To return the complete list of current map codes as an array of structures.

5.6.2 Signature

```
int GetMapCode(MapData[] resultArray)
```

```
MapData
{
    int      Map_ID
    string   Map
    string   MapDescription
    dateTime EffectiveFrom
    dateTime EffectiveTo
    dateTime LastUpdated
}
```

5.6.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetMapCode
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetMapCode
```

5.6.4 Input Parameters

None.

5.6.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.6.6 Output Parameters

```
MapData[] resultArray
```

```
MapData
{
    int         Map_ID
    string      Map
    string      MapDescription
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

This parameter returns the complete list of current map codes in an array of MapData structures. The MapData structure consists of the following fields:

Map_ID	QWS unique identifier for each map code record
Map	Map code
MapDescription	Description of the map code record
EffectiveFrom	Date from which the map code record is effective
EffectiveTo	Date to which the map code record is effective
LastUpdated	Date and time when the map code record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.7 GetCurrentQanListXml

5.7.1 Purpose

To return the complete list of current QANs in XML format.

5.7.2 Signature

```
int GetCurrentQanListXml(string resultXml)
```

5.7.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetCurrentQanListXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetCurrentQanListXml
```

5.7.4 Input Parameters

None.

5.7.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If there are no QANs to return a value of -4 will be returned.

5.7.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current QANs in XML format. The XML conforms to the QANs XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.8 GetCurrentQanList

5.8.1 Purpose

To return the complete list of current QANs as an array of structures.

5.8.2 Signature

```
int GetCurrentQanList(QANData[] resultArray)
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

5.8.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetCurrentQanList>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetCurrentQanList>

5.8.4 Input Parameters

None.

5.8.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If there are no QANs to return a value of -4 will be returned.

5.8.6 Output Parameters

```
QANData[] resultArray
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

This parameter returns the complete list of current QANs in an array of QANData structures. The QANData structure consists of the following fields:

QAN_ID	QWS unique identifier for each QAN record
QAN	QAN code
AB	Awarding body code
QualType	Qualification type code
Map	Map code
DiscCode	Discount code
QualificationTitle	Full qualification title
QualShortTitle	Short qualification title
AccStartDate	Accreditation start date
AccEndDate	Accreditation end date
CertEndDate	Certification end date
AppStartDate	Application start date

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AppEndDate	Application end date
SSFT2	Sector subject framework tier 2 code
SSFT1	Sector subject framework tier 1 code
NQF	National qualifications framework code
EffectiveFrom	Date from which the QAN record is effective
EffectiveTo	Date to which the QAN record is effective
LastUpdated	Date and time when the QAN record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.9 GetExpiredQanListXml

5.9.1 Purpose

To return the complete list of expired QANs in XML format.

5.9.2 Signature

```
int GetExpiredQanListXml(string resultXml)
```

5.9.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetExpiredQanListXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetExpiredQanListXml
```

5.9.4 Input Parameters

None.

5.9.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If there are no QANs to return a value of -4 will be returned.

5.9.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of expired QANs in XML format. The XML conforms to the QANs XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.10 GetExpiredQanList

5.10.1 Purpose

To return the complete list of expired QANs as an array of structures.

5.10.2 Signature

```
int GetExpiredQanList(QANData[] resultArray)
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

5.10.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetExpiredQanList>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetExpiredQanList>

5.10.4 Input Parameters

None.

5.10.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If there are no QANs to return a value of -4 will be returned.

5.10.6 Output Parameters

```
QANData[] resultArray
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

This parameter returns the complete list of expired QANs in an array of QANData structures. The QANData structure consists of the following fields:

QAN_ID	QWS unique identifier for each QAN record
QAN	QAN code
AB	Awarding body code
QualType	Qualification type code
Map	Map code
DiscCode	Discount code
QualificationTitle	Full qualification title
QualShortTitle	Short qualification title
AccStartDate	Accreditation start date
AccEndDate	Accreditation end date
CertEndDate	Certification end date
AppStartDate	Application start date

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AppEndDate	Application end date
SSFT2	Sector subject framework tier 2 code
SSFT1	Sector subject framework tier 1 code
NQF	National qualifications framework code
EffectiveFrom	Date from which the QAN record is effective
EffectiveTo	Date to which the QAN record is effective
LastUpdated	Date and time when the QAN record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.11 GetDiscountCodeXml

5.11.1 Purpose

To return the complete list of current discount codes in XML format.

5.11.2 Signature

```
int GetDiscountCodeXml(string resultXml)
```

5.11.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetDiscountCodeXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetDiscountCodeXml
```

5.11.4 Input Parameters

None.

5.11.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.11.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current discount codes in XML format. The XML conforms to the Discount Codes XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.12 GetDiscountCode

5.12.1 Purpose

To return the complete list of current discount codes as an array of structures.

5.12.2 Signature

```
int GetDiscountCode(DiscCodeData[] resultArray)
```

```
DiscCodeData
{
    int         DiscCode_ID
    string      DiscCode
    string      DiscCodeDescription
    string      SSFT2
    string      SSFT1
    string      Map
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

5.12.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetDiscountCode
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetDiscountCode
```

5.12.4 Input Parameters

None.

5.12.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.12.6 Output Parameters

```
DiscCodeData[] resultArray

DiscCodeData
{
    int         DiscCode_ID
    string      DiscCode
    string      DiscCodeDescription
    string      SSFT2
    string      SSFT1
    string      Map
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

This parameter returns the complete list of current discount codes in an array of DiscCodeData structures. The DiscCodeData structure consists of the following fields:

DiscCode_ID	QWS unique identifier for each discount code record
DiscCode	Discount code
DiscCodeDescription	Description of the discount code record
SSFT2	Sector subject framework tier 2 code
SSFT1	Sector subject framework tier 1 code
Map	Map code
EffectiveFrom	Date from which the discount code record is effective
EffectiveTo	Date to which the discount code record is effective
LastUpdated	Date and time when the discount code record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.13 GetAwardingBodyXml

5.13.1 Purpose

To return the complete list of current awarding bodies in XML format.

5.13.2 Signature

```
int GetAwardingBodyXml(string resultXml)
```

5.13.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetAwardingBodyXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetAwardingBodyXml
```

5.13.4 Input Parameters

None.

5.13.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.13.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current awarding bodies in XML format. The XML conforms to the Awarding Bodies XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.14 GetAwardingBody

5.14.1 Purpose

To return the complete list of current awarding bodies as an array of structures.

5.14.2 Signature

```
int GetAwardingBody(ABData[] resultArray)
```

```
ABData
{
    int         AB_ID
    string      AB
    string      AwardingBodyName
    string      AB_Acronym
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

5.14.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetAwardingBody>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetAwardingBody>

5.14.4 Input Parameters

None.

5.14.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.14.6 Output Parameters

```
ABData[] resultArray
```

```
ABData
{
    int         AB_ID
    string      AB
    string      AwardingBodyName
    string      AB_Acronym
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

This parameter returns the complete list of current awarding bodies in an array of ABData structures. The ABData structure consists of the following fields:

AB_ID	QWS unique identifier for each awarding body record
AB	Awarding body code
AwardingBodyName	Full name of awarding body
AB_Acronym	Acronym of awarding body
EffectiveFrom	Date from which the awarding body record is effective
EffectiveTo	Date to which the awarding body record is effective
LastUpdated	Date and time when the awarding body record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.15 GetQualificationTypeXml

5.15.1 Purpose

To return the complete list of current qualification types in XML format.

5.15.2 Signature

```
int GetQualificationTypeXml(string resultXml)
```

5.15.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationTypeXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationTypeXml
```

5.15.4 Input Parameters

None.

5.15.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.15.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current qualification types in XML format. The XML conforms to the Qualification Types XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.16 GetQualificationType

5.16.1 Purpose

To return the complete list of current qualification types as an array of structures.

5.16.2 Signature

```
int GetQualificationType(QualTypeData[] resultArray)
```

```
QualTypeData
{
    int         QualType_ID
    string      QualType
    string      QualificationDescription
    string      NQF
    string      DiscountFamily
    string      QualCode
    dateTime    EffectiveFrom
    dateTime    EffectiveTo
    dateTime    LastUpdated
}
```

5.16.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationType>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationType>

5.16.4 Input Parameters

None.

5.16.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.16.6 Output Parameters

```

QualTypeData[] resultArray

QualTypeData
{
    int           QualType_ID
    string        QualType
    string        QualificationDescription
    string        NQF
    string        DiscountFamily
    string        QualCode
    dateTime      EffectiveFrom
    dateTime      EffectiveTo
    dateTime      LastUpdated
}

```

This parameter returns the complete list of current qualification types in an array of QualTypeData structures. The QualTypeData structure consists of the following fields:

QualType_ID	QWS unique identifier for each qualification type record
QualType	Qualification type code
QualificationDescription	Description of qualification type record
NQF	National qualifications framework code
DiscountFamily	Discount family code
QualCode	Qualification code
EffectiveFrom	Date from which the qualification type record is effective
EffectiveTo	Date to which the qualification type record is effective
LastUpdated	Date and time when the qualification type record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.17 GetQualificationTypePointsXml

5.17.1 Purpose

To return the complete list of current qualification type points in XML format.

5.17.2 Signature

```
int GetQualificationTypePointsXml(string resultXml)
```

5.17.3 Address

```
http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationTypePointsXml
```

```
http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationTypePointsXml
```

5.17.4 Input Parameters

None.

5.17.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.17.6 Output Parameters

```
string resultXml
```

This parameter returns the complete list of current qualification type points in XML format. The XML conforms to the Qualification Type Points XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.18 GetQualificationTypePoints

5.18.1 Purpose

To return the complete list of current qualification type points in XML as an array of structures.

5.18.2 Signature

```
int GetQualificationTypePoints(
    QualTypePointsData[] resultArray)
```

```
QualTypePointsData
{
    int         QualType_ID
    string      QualGrade
    string      UCAS_Pts
    string      QCA_Pts
}
```

5.18.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationTypePoints>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetQualificationTypePoints>

5.18.4 Input Parameters

None.

5.18.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned.

5.18.6 Output Parameters

```
QualTypePointsData[] resultArray
```

```
QualTypePointsData
{
    int         QualType_ID
    string      QualGrade
    string      UCAS_Pts
    string      QCA_Pts
}
```

This parameter returns the complete list of current qualification type points in an array of `QualTypePointsData` structures. The `QualTypePointsData` structure consists of the following fields:

QualType_ID	QWS unique identifier for each qualification type record
QualGrade	Qualification grade
UCAS_Pts	UCAS points
QCA_Pts	QCA points

If the web service return value indicates an error, this parameter will return an empty array.

5.19 SearchQanXml

5.19.1 Purpose

To search the complete list of current QANs based on a set of supplied search criteria and return the matching QANs in XML format.

5.19.2 Signature

```
int SearchQanXml(string awardingBody,  
                string nqfLevel,  
                string qualType,  
                string discountCode,  
                string ssft2,  
                string shortTitle,  
                string title,  
                string qanCode,  
                string resultXml)
```

5.19.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=SearchQanXml>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=SearchQanXml>

5.19.4 Input Parameters

`string` awardingBody

This parameter supplies an awarding body code value to search on. QANs match when their awarding body code matches the parameter value exactly. Matching is case insensitive. If searching on awarding body is not required, then this parameter should be set to an empty string.

`string` nqfLevel

This parameter supplies a NQF level value to search on. QANs match when their NQF level value matches the parameter value exactly. Matching is case insensitive. If searching on NQF level is not required, then this parameter should be set to an empty string.

`string` qualType

This parameter supplies a qualification type code value to search on. QANs match when their qualification type code value matches the parameter value exactly. Matching is case insensitive. If searching on qualification type code is not required, then this parameter should be set to an empty string.

`string` discountCode

This parameter supplies a discount code value to search on. QANs match when their discount code value matches the parameter value exactly. Matching is case insensitive. If searching on discount code is not required, then this parameter should be set to an empty string.

`string` ssft2

This parameter supplies a sector subject framework tier 2 code value to search on. QANs match when their sector subject framework tier 2 code value matches the parameter value exactly. Matching is case insensitive. If searching on sector subject framework tier 2 code is not required, then this parameter should be set to an empty string.

`string` shortTitle

This parameter supplies a qualification short title value to search on. QANs match when their qualification short title value matches the parameter value exactly. Matching is case insensitive. If searching on qualification short title is not required, then this parameter should be set to an empty string.

`string` title

This parameter supplies a qualification title value to search on. QANs match when their qualification title value matches the parameter value exactly. Matching is case insensitive. If searching on qualification title is not required, then this parameter should be set to an empty string.

`string` qanCode

This parameter supplies a qualification code value to search on. QANs match when their qualification code value matches the parameter value exactly. Matching is case insensitive. If searching on qualification code is not required, then this parameter should be set to an empty string.

When more than one input parameter is used to search on, QANs match only when their values match ALL the input parameter values supplied (logical AND). For example a QAN search with the following input parameter values:

```
awardingBody = "103"  
nqfLevel = ""  
qualType = ""  
discountCode = "BAC"  
ssft2 = "2.1"  
shortTitle = ""  
title = ""  
qanCode = ""
```

will only match QANs where:

```
QAN.AwardingBody == "103" AND  
QAN.DiscountCode == "BAC" AND  
QAN.SSFT2 == "2.1"
```

5.19.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If no input parameter values are supplied a value of -2 will be returned. If any of the input parameter values are invalid a value of -3 will be returned. If there are no QANs to return a value of -4 will be returned.

5.19.6 Output Parameters

```
string resultXml
```

This parameter returns the list of matching QANs in XML format. The XML conforms to the QANs XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.20 SearchQAN

5.20.1 Purpose

To search the complete list of current QANs based on a set of supplied search criteria and return the matching QANs in an array of structures.

5.20.2 Signature

```
int SearchQan(string awardingBody,
             string nqfLevel,
             string qualType,
             string discountCode,
             string ssft2,
             string shortTitle,
             string title,
             string qanCode,
             QANData[] resultArray)
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

5.20.3 Address

`http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=SearchQan`

`http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=SearchQan`

5.20.4 Input Parameters

`string` awardingBody

This parameter supplies an awarding body code value to search on. QANs match when their awarding body code matches the parameter value exactly. Matching is case insensitive. If searching on awarding body is not required, then this parameter should be set to an empty string.

`string` nqfLevel

This parameter supplies a NQF level value to search on. QANs match when their NQF level value matches the parameter value exactly. Matching is case insensitive. If searching on NQF level is not required, then this parameter should be set to an empty string.

`string` qualType

This parameter supplies a qualification type code value to search on. QANs match when their qualification type code value matches the parameter value exactly. Matching is case insensitive. If searching on qualification type code is not required, then this parameter should be set to an empty string.

`string` discountCode

This parameter supplies a discount code value to search on. QANs match when their discount code value matches the parameter value exactly. Matching is case insensitive. If searching on discount code is not required, then this parameter should be set to an empty string.

`string` ssft2

This parameter supplies a sector subject framework tier 2 code value to search on. QANs match when their sector subject framework tier 2 code value matches the parameter value exactly. Matching is case insensitive. If searching on sector subject framework tier 2 code is not required, then this parameter should be set to an empty string.

`string` shortTitle

This parameter supplies a qualification short title value to search on. QANs match when their qualification short title value matches the parameter value exactly. Matching is case insensitive. If searching on qualification short title is not required, then this parameter should be set to an empty string.

`string` title

This parameter supplies a qualification title value to search on. QANs match when their qualification title value matches the parameter value exactly. Matching is case insensitive. If searching on qualification title is not required, then this parameter should be set to an empty string.

`string` qanCode

This parameter supplies a qualification code value to search on. QANs match when their qualification code value matches the parameter value exactly. Matching is case insensitive. If searching on qualification code is not required, then this parameter should be set to an empty string.

When more than one input parameter is used to search on, QANs match only when their values match ALL the input parameter values supplied (logical AND). For example a QAN search with the following input parameter values:

```
awardingBody = "103"
nqfLevel = ""
qualType = ""
discountCode = "BAC"
ssft2 = "2.1"
shortTitle = ""
title = ""
qanCode = ""
```

will only match QANs where:

```
QAN.AwardingBody == "103" AND
QAN.DiscountCode == "BAC" AND
QAN.SSFT2 == "2.1"
```

5.20.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If no input parameter values are supplied a value of -2 will be returned. If any of the input parameter values are invalid a value of -3 will be returned. If there are no QANs to return a value of -4 will be returned.

5.20.6 Output Parameters

```
QANData[] resultArray
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

This parameter returns the list of matching QANs in an array of QANData structures. The QANData structure consists of the following fields:

QAN_ID	QWS unique identifier for each QAN record
QAN	QAN code
AB	Awarding body code
QualType	Qualification type code
Map	Map code
DiscCode	Discount code
QualificationTitle	Full qualification title
QualShortTitle	Short qualification title
AccStartDate	Accreditation start date
AccEndDate	Accreditation end date
CertEndDate	Certification end date
AppStartDate	Application start date
AppEndDate	Application end date
SSFT2	Sector subject framework tier 2 code
SSFT1	Sector subject framework tier 1 code
NQF	National qualifications framework code
EffectiveFrom	Date from which the QAN record is effective
EffectiveTo	Date to which the QAN record is effective
LastUpdated	Date and time when the QAN record was last updated

	within QWS
--	------------

If the web service return value indicates an error, this parameter will return an empty array.

5.21 GetSpecificQanXml

5.21.1 Purpose

To return the list of QANs specified by an array of QWS QAN ids in XML format.

5.21.2 Signature

```
int GetSpecificQanXml(int[] qan_IDs,  
                     string resultXml)
```

5.21.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSpecificQanXml>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSpecificQanXml>

5.21.4 Input Parameters

```
int[] qan_IDs
```

This parameter supplies an array of QWS QAN ids. Only QANs with a matching QWS QAN id are returned. If no matches are found or an empty array is supplied, then the QAN list returned will be empty.

5.21.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If no input parameter values are supplied a value of -2 will be returned. If any of the input parameter values are invalid a value of -3 will be returned. If there are no QANs to return a value of -4 will be returned.

5.21.6 Output Parameters

```
string resultXml
```

This parameter returns the list of matching QANs in XML format. The XML conforms to the QANs XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.22 GetSpecificQan

5.22.1 Purpose

To return the list of QANs specified by an array of QWS QAN ids as an array of structures.

5.22.2 Signature

```
int GetSpecificQan(int[] qan_IDs,
                  QANData[] resultArray)
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

5.22.3 Address

<http://data.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSpecificQan>

<http://datauat.dfes.gov.uk/QWS/QWSWebService.asmx?op=GetSpecificQan>

5.22.4 Input Parameters

```
int[] qan_IDs
```

This parameter supplies an array of QWS QAN ids. Only QANs with a matching QWS QAN id are returned. If no matches are found or an empty array is supplied, then the QAN list returned will be empty.

5.22.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If no input parameter values are supplied a value of -2 will be returned. If any of the input parameter values are invalid a value of -3 will be returned. If there are no QANs to return a value of -4 will be returned.

5.22.6 Output Parameters

```
QANData[] resultArray
```

```
QANData
{
    int          QAN_ID
    string       QAN
    string       AB
    string       QualType
    string       Map
    string       DiscCode
    string       QualificationTitle
    string       QualShortTitle
    dateTime     AccStartDate
    dateTime     AccEndDate
    dateTime     CertEndDate
    dateTime     AppStartDate
    dateTime     AppEndDate
    string       SSFT2
    string       SSFT1
    string       NQF
    dateTime     EffectiveFrom
    dateTime     EffectiveTo
    dateTime     LastUpdated
}
```

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This parameter returns the list of matching QANs in an array of QANData structures. The QANData structure consists of the following fields:

QAN_ID	QWS unique identifier for each QAN record
QAN	QAN code
AB	Awarding body code
QualType	Qualification type code
Map	Map code
DiscCode	Discount code
QualificationTitle	Full qualification title
QualShortTitle	Short qualification title
AccStartDate	Accreditation start date
AccEndDate	Accreditation end date
CertEndDate	Certification end date
AppStartDate	Application start date
AppEndDate	Application end date
SSFT2	Sector subject framework tier 2 code
SSFT1	Sector subject framework tier 1 code
NQF	National qualifications framework code
EffectiveFrom	Date from which the QAN record is effective
EffectiveTo	Date to which the QAN record is effective
LastUpdated	Date and time when the QAN record was last updated within QWS

If the web service return value indicates an error, this parameter will return an empty array.

5.23 GetSchoolQanXml

5.23.1 Purpose

To return the list of QANs specified associated with a school in XML format.

5.23.2 Signature

```
int GetSchoolQanXml(string username,  
                   string password,  
                   string resultXml)
```

5.23.3 Address

<https://data.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx?op=GetSchoolQanXml>

<https://datauat.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx?op=GetSchoolQanXml>

5.23.4 Input Parameters

`string` username

This parameter supplies a username.

`string` password

This parameter supplies a password.

If the username is associated with a school the list of school QANs for that school will be returned.

If the username is associated with a local authority the list of school QANs returned will include ALL the school QANs for EVERY school associated with the local authority.

5.23.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If the username and password are invalid a value of -2 will be returned.

5.23.6 Output Parameters

`string` resultXml

This parameter returns the list of school QANs associated with the username in XML format. The XML conforms to the School QANs XML schema. If the web service return value indicates an error, this parameter will return an empty string.

5.24 GetSchoolQan

5.24.1 Purpose

To return the list of QANs specified associated with a school as an array of structures.

5.24.2 Signature

```
int GetSchoolQan(string username,
                string password,
                SchoolQANData[] resultArray)
```

```
SchoolQANData
{
    string URN
    string LEA
    string Estab
    string QAN
    string SpecRef
    string AB
    string QualType
    string DiscCode
}
```

5.24.3 Address

<https://data.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx?op=GetSchoolQan>

<https://datauat.dfes.gov.uk/QWS/QWSWebServiceSchool.asmx?op=GetSchoolQan>

5.24.4 Input Parameters

`string` username

This parameter supplies a username.

`string` password

This parameter supplies a password.

If the username is associated with a school the list of school QANs for that school will be returned.

If the username is associated with a local authority the list of school QANs returned will include ALL the school QANs for EVERY school associated with the local authority.

5.24.5 Return Value

The web service returns an integer value. If the web service is successful a value of 0 will be returned. If the web service fails due to an internal system error a value of -1 will be returned. If the username and password are invalid a value of -2 will be returned.

5.24.6 Output Parameters

```
SchoolQANData[] resultArray
```

```
SchoolQANData
{
    string    URN
    string    LEA
    string    Estab
    string    QAN
    string    SpecRef
    string    AB
    string    QualType
    string    DiscCode
}
```

This parameter returns the list of school QANs associated with the username in an array of SchoolQANData structures. The SchoolQANData structure consists of the following fields:

URN	School DfES Unique Reference Number
LEA	Local Education Authority identifier
Estab	Education establishment identifier
QAN	QAN code
SpecRef	Specification reference
AB	Awarding body code
QualType	Qualification type code
DiscCode	Discount code

If the web service return value indicates an error, this parameter will return an empty array.

