VERIFICATION SERVICES:
DegreeVerify Commercial
HR-XML Web Services 1.0

Implementation Guide v1.0

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# Introduction

The DegreeVerify Web service utilizes HTTP (Hyper Text Transfer Protocol) and XML (eXtensible Markup Language) to offer a secure, real-time, and robust alternative to submitting requests one student at a time via the National Student Clearinghouse Web site. The purpose of this document is to provide a description of the implementation requirements for a Web services interface to the Clearinghouse DegreeVerify application.

Overview of the Proposed Architecture

From a high level, the DegreeVerify Web services solution involves the following steps:

* The commercial client initiates a SOAP request that includes the HR-XML BackgroundCheck request document.
* Each request includes the necessary data elements to fulfill the request.
* The SOAP request is sent to the DegreeVerify Web service.
* The Clearinghouse DegreeVerify business rules attempt to verify the degree request. If the degree can be immediately verified, the degree verification details are returned. If the request requires additional research, the transaction ID is returned and can be queried at a later time.
* Response data is formatted in the HR-XML BackgroundReports document and returned to the calling process via a SOAP response.

SOAP (Simple Object Access Protocol) is a lightweight XML-based communication protocol that allows software components and applications to communicate using the HTTP protocol. SOAP is not a new technology - it is a protocol that combines two existing and widely-accepted technologies: HTTP and XML and is not tied to any component technology. Both request and response messages follow the SOAP specification and, therefore, are in XML format. A SOAP document is an electronic envelope into which the payload is placed. The payload consists of the XML tags required by the Web service that is being invoked.

Routine Maintenance

Weekly routine maintenance is scheduled each Monday from 12:00 am to 6:00 am, ET. During that time, service may be unavailable. If no system maintenance is required that week, there will be no service disruption. Periodic maintenance is performed throughout the year and scheduled to minimize disruption to users. During scheduled periodic maintenance hours, we may be unable to process DegreeVerify requests.

The following diagram describes the XML document structure containing SOAP and XML tags.

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAPENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"xmlns:xsd="http://www.w3.org/2001/XMLSchema"> <SOAP-ENV:Body><BackgroundCheck>**SOAP** <BackgroundSearchPackage/>**Payload :**</BackgroundSearchPackage></BackgroundCheck></SOAP-ENV:Body></SOAP-ENV:Envelope> |

The Web services approach is based on a synchronous transaction, where a request is received and processed, and the response returned during the same HTTP session. The following sections describe how to construct the request and what to expect in the response.

# DegreeVerify Web Service Request

The web services description language (WSDL) document that describes the DegreeVerify Web service is located at: <https://xml.studentclearinghouse.org/ws/wsdl/HRXMLVerify.wsdl>.

The request and response documents are based on the HR-XML public schemas, which are available for download at www.hr-xml.org. The DegreeVerify Web service is implemented with the August 2004 version of the HR-XML schemas.

After the schema package is downloaded and extracted, the schemas will be located at:

**Request:** HR-XML-2004-08-Screening\HR-XML-2\_3\Screening\BackgroundCheck.xsd.

**Response:** HR-XML-2004-08-Screening\HR-XML-2\_3\Screening\BackgroundReports.xsd.

The HR-XML schemas rely on several sub-schemas, all of which can be found in the HR-XML-2004-08-Screening folders.

Request data is provided in the <BackgroundCheck> request document as follows:

|  |
| --- |
| <BackgroundCheck (Customer login data)><BackgroundSearchPackage><PersonalData>(Screening subject personal data)</PersonalData><Screenings><PriorPersonalData>(Screening subject prior personal data)</PriorPersonalData><Screening><PermissiblePurpose>(Consent Data)</PermissiblePurpose><SearchEducation><EducationHistory><SchoolOrInstitution><School>(School data for verification)</School></SchoolOrInstitution ></EducationHistory ></SearchEducation></Screening></Screenings></BackgroundSearchPackage></BackgroundCheck > |

Customer Login Data: The <BackgroundCheck> element contains the data elements necessary to authenticate the requestor. The element attributes **account**, **userId**, and **password** provide the necessary credentials for authenticating the requestor.

Background Search Package: The <BackgroundSearchPackage> block contains all data pertaining to a single degree verification. While the HR-XML schema supports multiple packages per document, the DegreeVerify service currently only supports a single request per document.

Personal Data: The <PersonalData> block contains the data elements necessary to identify the search subject.

Prior Personal Data. The <PriorPersonalData> block contains optional data to identify prior personal data.

Consent Data: The <PermissiblePurpose> element must contain “Written authorization” to indicate that the requestor has obtained written consent from the subject.

School Data: The <Screening> block contains the data elements necessary to identify the degree being verified. While the HR-XML schema supports multiple screening types for a search subject, the DegreeVerify Web service only supports a single screening type, “x:\S.Degree”.

The DegreeVerify Web service supports two types of invocation: 1) a new request, or 2) a query of a previous request. For a query of a previous request, the requestor only needs to provide the transaction number of a previous submission (such as one that required research). To query a previous request, the <Screening> element must have an optional attribute, “qualifier,” set to the transaction number being queried.

The basic structure is:

<BackgroundCheck (Customer login data)>

<BackgroundSearchPackage>

<Screenings>

<Screening type=”x:\S.Degree” qualifier=”x:\S.12345”>

</Screening>

</Screenings>

</BackgroundSearchPackage>

</BackgroundCheck >

**Note**: That the transaction number indicated by the qualifier must be prefixed with **x:\S**, in order to comply with the HR-XML schema.

For a new request, all data elements required for a new DegreeVerify request must be provided. The basic structure is:

|  |
| --- |
| <BackgroundCheck (Customer login data)><BackgroundSearchPackage><ClientContact><OrganizationName></OrganizationName><ContactMethod><InternetEmailAddress></InternetEmailAddress ></ContactMethod ></ClientContact ><PersonalData><PersonName><GivenName></GivenName ><MiddleName></MiddleName ><FamilyName></FamilyName ></PersonName ><DemographicDetail><GovernmentId></GovernmentId ><DateOfBirth></DateOfBirth ></DemographicDetail ></PersonalData><Screenings><PriorPersonalData><PersonName><GivenName></GivenName><MiddleName></MiddleName><FamilyName></FamilyName></PersonName ></PriorPersonalData><Screening type = “x:\S.Degree”><PermissiblePurpose></PermissiblePurpose><SearchEducation><EducationHistory><SchoolOrInstitution><School><SchoolId></SchoolId><SchoolName></SchoolName></School><Degree><DegreeName></DegreeName><DegreeDate><Year></Year></DegreeDate></Degree></SchoolOrInstitution ></EducationHistory ></SearchEducation></Screening></Screenings></BackgroundSearchPackage></BackgroundCheck > |

There are four optional <ReferenceId> elements that can be used by the requestor to provide their internal identification data for the file, package, screenings, and screening blocks. If these data elements are provided in the request, they will be returned in the response (where the response schema supports them).

The <ReferenceId> occurrences are shown below:

<BackgroundCheck (Customer login data)>

<ReferenceId>

<IdValue></IdValue>

</ReferenceId>

<BackgroundSearchPackage>

<ReferenceId>

<IdValue></IdValue>

</ReferenceId>

<Screenings>

<ReferenceId>

<IdValue></IdValue>

</ReferenceId>

<Screening type=”x:\S.Degree”>

<ReferenceId>

<IdValue></IdValue>

</ReferenceId>

</Screening>

</Screenings>

</BackgroundSearchPackage>

</BackgroundCheck >

Each new DegreeVerify request must include the required data elements. It may also include optional data elements to help identify the subject. The following table describes the data to be included in the request message:

| **XML Name** | **Short Name** | **Description** | **Required?** |
| --- | --- | --- | --- |
| BackgroundCheck Attribute: account | Customer ID  | The Clearinghouse customer ID, as assigned by the Clearinghouse | Yes |
| BackgroundCheck Attribute: userId | Customer login ID | The login ID of the user submitting the transaction (IDs are issued by the Clearinghouse) | Yes |
| BackgroundCheckAttribute: password | Customer login password | The login password of the user submitting the transaction (passwords are issued by the Clearinghouse) | Yes |
| BackgroundCheck/ReferenceID/IDValue | Document Reference ID | Reference number associated with all searches within the XML document. If provided in the request, this data is returned in the response. | No |
| BackgroundCheck/BackgroundSearchPackage/ReferenceId/IdValue | Package Reference ID | Reference number associated with all searches within the specified package. If provided in the request, this data is returned in the response  | No |
| BackgroundCheck/**B**ackgroundSearchPackage/ClientContact/OrganizationName | The Client contact’s organization name | The ClientContact block is used to provide an email address for notifying the requestor when a research case is closed. If provided in the request, this data is returned in the response. | No |
| BackgroundCheck/BackgroundSearchPackage/ClientContact/ContactMethod/InternetEmailAddress | Client’s contact email | If the ClientContact block is sent, the email address contained in InternetEmailAddress will be used to notify the requestor when a research case is closed. If not provided, the email address on record for the Customer Login Id will be used. | No |
| BackgroundCheck/BackgroundSearchPackage/OrganizationAttribute: type | Organization Type | The Organization block identifies the organization on whose behalf the search will be performed (such as one background search firm performing requests on behalf of another firm). If this block is sent, the value of attribute type must be “Vendor.” | No |
| BackgroundCheck/BackgroundSearchPackage/Organization/OrganizationName | Organization name | If provided in the request, this data is returned in the response. | No |
| BackgroundCheck/BackgroundSearchPackage/PersonalData/PersonName/GivenName | First name | Current first name | Yes |
| BackgroundCheck/BackgroundSearchPackage/PersonalData/PersonName/MiddleName | Middle name | Current middle name | No |
| BackgroundCheck/BackgroundSearchPackage/PersonalData/PersonName/FamilyName | Last name | Current last name | Yes |
| BackgroundCheck/BackgroundSearchPackage/PersonalData/DemographicDetail/GovernmentId | Person government ID | The permanent identifier of the subject. For DegreeVerify search subjects, it is the Social Security Number.  | No |
| BackgroundCheck/BackgroundSearchPackage/PersonalData/DemographicDetail/GovernmentIdAttribute: issuingAuthority | Government ID Issuing Authority | The issuing authority of the government ID. This value should be “ssa.gov”. | Yes |
| BackgroundCheck/BackgroundSearchPackage/PersonalData/DemographicDetail/DateOfBirth | Birth Date | Birth date | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/ReferenceId/IdValue | Screenings Reference ID | Reference number associated with all screenings for the search subject. If provided in the request, this data is returned in the response. | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/PriorPersonalData/PersonName/GivenName | First name while attending | First name while attending school | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/PriorPersonalData/PersonName/MiddleName | Middle name while attending | Middle name while attending | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/PriorPersonalData/PersonName/FamilyName | Last name while attending | Last name while attending school | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening Attribute: type | Screening type | The type of education screening requested. This qualifier value should be set to “x:\S.Degree”. | Yes |
| BackgroundCheck/BackgroundSearchPackage/Screenings/ScreeningAttribute: qualifier | Transaction ID of a previous request | Transaction ID of a previous request, assigned by the Clearinghouse when the original request was made. If the Transaction ID is sent in a request, the system will query the transaction and return the verification details of that transaction in the response. The transaction number must be prefixed with “x:\S.” in order to comply with the HR-XML schema. | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/ReferenceId/IdValue | Screening Reference Number | Reference number associated with this screening. If provided in the request, this data is returned in the response. | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/PermissiblePurpose | Consent obtained flag | Indicates that the requestor certifies that they have the subject’s signed and dated consent to verify his/her academic credentials. Value must be: “Written authorization.” | Yes |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/SearchEducation/EducationHistory/SchoolOrInstitutionAttribute: schoolType | School Type | Indicates the type of school. Valuesare:* university
* • college
* • trade
* • community
 | Yes |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/SearchEducation/EducationHistory/SchoolOrInstitution/School/SchoolId/IdValue | School ID | The 6-digit Department of Education assigned ID of the school from which the degree was awarded and is being verified. | Yes |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/SearchEducation/EducationHistory/SchoolOrInstitution/School/SchoolName | School Name | Name of the school from which the degree was awarded and is being verified. While this data is not required, it is strongly recommended as it may help in cases where research is required. | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/SearchEducation/EducationHistory/SchoolOrInstitution/Degree/DegreeName | Degree title | The title of the degree. Providing this data in the request may help in cases where research is required.  | No |
| BackgroundCheck/BackgroundSearchPackage/Screenings/Screening/SearchEducation/EducationHistory/SchoolOrInstitution/Degree/DegreeDate/Year | Year degree awarded | The year the degree was awarded. Providing this data in the request may help in cases where research is required. | No |

The following is a sample XML document for a new DegreeVerify request, based on SOAP standards and the HR-XML schema:

|  |
| --- |
| **XML Document Example: New DegreeVerify Request** |
| <?xml version="1.0" encoding="UTF-8"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAPENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"xmlns:xsd="http://www.w3.org/2001/XMLSchema"><SOAP-ENV:Body><BackgroundCheck account=”123456” userId=”janedoe” password=”mypassword” xmlns=”http://ns.hrxml.org”><ReferenceId><IdValue>check001</IdValue></ReferenceId><BackgroundSearchPackage><ReferenceId><IdValue>package001</IdValue></ReferenceId><PersonalData><PersonName><GivenName>John</GivenName><MiddleName>D</MiddleName><FamilyName>Smith</FamilyName></PersonName ><DemographicDetail><GovernmentIdIssuingAuthority=”ssa.gov”>123456789</GovernmentId><DateOfBirth>1960-01-08</DateOfBirth></DemographicDetail></PersonalData><Screenings><ReferenceId><IdValue>screenings001</IdValue></ReferenceId><PriorPersonalData><PersonName><GivenName>John</GivenName><MiddleName>D</MiddleName><FamilyName>Smithereens</FamilyName></PersonName></PriorPersonalData><Screening type=“x:\S.Degree”><ReferenceId><IdValue>screening001</IdValue></ReferenceId><PermissiblePurpose>Written authorization</PermissiblePurpose><SearchEducation><EducationHistory><SchoolOrInstitution schoolType=”university”><School><SchoolId><IdValue>001234</IdValue></SchoolId><SchoolName>Adelphi University</SchoolName></School><Degree><DegreeName>BS</DegreeName><DegreeDate><Year>1990</Year></DegreeDate></Degree></SchoolOrInstitution></EducationHistory></SearchEducation></Screening></Screenings></BackgroundSearchPackage></BackgroundCheck ></SOAP-ENV:Body></SOAP-ENV:Envelope> |

The following is a sample XML document for a query of a previous request, based on transaction ID:

|  |
| --- |
| **XML Document Example: Previous Request** |
| <?xml version="1.0" encoding="UTF-8"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAPENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"xmlns:xsd="http://www.w3.org/2001/XMLSchema"><SOAP-ENV:Body><BackgroundCheck account=”123456” userId=”janedoe” password=”mypassword” xmlns=”http://ns.hrxml.org”><BackgroundSearchPackage><Screenings><Screening type=“x:\S.Degree” qualifier=”x:\S.100001”/></Screenings></BackgroundSearchPackage></BackgroundCheck></SOAP-ENV:Body></SOAP-ENV:Envelope> |

# DegreeVerify Web Service Response

The response document is based on the HR-XML public schema called BackgroundReports. (As mentioned in the previous section, this document is available for download at www.hr-xml.org.)

The response document contains the same structure for new requests and queries of previous requests. The <BackgroundReports> message structure is as follows:

|  |
| --- |
| <BackgroundReports (Customer login data)><ProviderReferenceId><IdValue></IdValue></ProviderReferenceId><BackgroundReportPackage><ProviderReferenceId><IdValue></IdValue></ProviderReferenceId><ClientReferenceId><IdValue></IdValue></ClientReferenceId><Screenings><Screening type=“x:\S.Degree”><ProviderReferenceId><IdValue></IdValue></ProviderReferenceId><ClientReferenceId><IdValue></IdValue></ClientReferenceId><ScreeningStatus><OrderStatus></OrderStatus><ResultStatus></ResultStatus><DateOrderReceived></DateOrderReceived><AdditionalItems qualifier=”NotifiedDateTime”><Text></Text></AdditionalItems><AdditionalItems qualifier=”TransFeeAmt”><Text></Text></AdditionalItems></ScreeningStatus><Comments></Comments><EducationVerificationReport><EducationInput><SchoolOrInstitution schoolType=”university”><School><SchoolId></SchoolId><SchoolName></SchoolName></School><Degree><DegreeName></DegreeName><DegreeDate><Year></Year></DegreeDate></Degree></SchoolOrInstitution></EducationInput><EducationResult><ApplicantInformation><PersonName><GivenName></GivenName><MiddleName></MiddleName><FamilyName></FamilyName><Affix type=”familyNameSuffix”></Affix></PersonName></ApplicantInformation><SchoolOrInstitution schoolType=”university”><School type=”degree”><SchoolId></SchoolId><SchoolName></SchoolName></School><School type=”joint”><SchoolName></SchoolName></School><OrganizationUnit organizationType=”SchoolDivision”></OrganizationUnit><Degree><DegreeName></DegreeName><DegreeDate><StringDate></StringDate></DegreeDate><OtherHonors></OtherHonors><DegreeMajor><ProgramId><IdValue></IdValue></ProgramId><DegreeConcentration></DegreeConcentration><Name></Name><Option></Option></DegreeMajor><DegreeMinor><ProgramId><IdValue></IdValue></ProgramId><Name></Name></DegreeMinor><DatesOfAttendance enrollmentStatus=””><StartDate><StringDate></StringDate></StartDate><EndDate><StringDate></StringDate></EndDate></DatesOfAttendance></Degree></SchoolOrInstitution ><AdditionalItems qualifier=”EnrollDataSinceDate”><Text></Text></AdditionalItems></EducationResult></EducationVerificationReport></Screening></Screenings></BackgroundReportPackage></BackgroundReports> |

For each degree verified for the search subject, a separate <EducationResult> block is returned.

The <ErrorReport> block is included in the event an error prevents the transaction from completing successfully:

|  |
| --- |
| <BackgroundReports (Customer login data)><BackgroundReportPackage><ErrorReport><ErrorDescription></ErrorDescription><ErrorCode></ErrorCode><ErrorSeverity></ErrorSeverity><FileReferenceId><IdValue></IdValue></FileReferenceId><PackageReferenceId><IdValue></IdValue></PackageReferenceId><ScreeningsReferenceId><IdValue></IdValue></ScreeningsReferenceId><ScreeningReferenceId><IdValue></IdValue></ScreeningReferenceId><ScreeningType></ScreeningType><ScreeningQualifier></ScreeningQualifier></ErrorReport></BackgroundReportPackage></BackgroundReports> |

The following table shows the data returned in the BackgroundReports document:

| **XML Name** | **Short Name** | **Description** |
| --- | --- | --- |
| BackgroundReports/Attribute: account | Customer permanent ID | The permanent customer ID assigned by the Clearinghouse and provided in the request. |
| BackgroundReports/Attribute: userId | Customer login ID | The login ID of the user submitting the transaction, as provided in the request |
| BackgroundReports/ProviderReferenceId/IdValue | Provider DocumentReference ID | Clearinghouse assigned reference number associated with all searches within the XML document. |
| BackgroundReports/BackgroundReportPackage/ProviderReferenceId/IdValue | Provider Package Reference ID | Clearinghouse assigned reference number associated with all searches within the XML document. |
| BackgroundReports/BackgroundReportPackage/ClientReferenceId/IdValue | Client Package Reference ID | Reference number associated with all searches within the specified package. This data is optional on the request, but is returned here if provided in the request. The data comes from request element:* BackgroundCheck/
* BackgroundSearchPackage/
* ReferenceId/
* IdValue
 |
| BackgroundReports/BackgroundReportPackage/Screenings/ScreeningAttribute: type | Screening Type | The type of education screening requested.The value is “x:\S.Degree.” |
| BackgroundReports/BackgroundReportPackage/Screenings/ ScreeningAttribute: qualifier | Transaction ID of a previous request being queried | Data element representing the original request data that is returned in the response exactly as it was sent in the request. The transaction number is prefixed with “x:\S.” in order to comply with the HR-XML schema. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/ProviderReferenceId/IdValue | Provider Reference ID (Transaction ID) of this request | Transaction number of the request assigned by the Clearinghouse. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/ClientReferenceId/IdValue | Client ScreeningReference ID | Reference number associated with the specified screening, provided by the requestor in the request. This data is optional on the request, but is returned here if provided in the request. The data comes from the request element:* BackgroundCheck/
* BackgroundSearchPackage/
* Screenings/
* Screening
* ReferenceId/
* IdValue
 |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/ScreeningStatus/OrderStatus | Status | The request status. Value is one of the following:* InProgress
* Completed
 |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/ScreeningStatus/ResultStatus | DV confirmationindicator | The indicator signifying the request results. If the status is **Completed**, the value is one of the following:* x:\S.CD – Confirmed Degree
* x:\S.CB – Confirmed Degree and Enrollment History
* x:\S.CA - Research Confirmed Attendance Only
* x:\S.UN - Unable to Confirm - No record found, need more information
* x:\S.UH - Unable to Confirm – Student should contact educational institution directly for further information
* x:\S.UC - Unable to Confirm - Consent Not Received

If the status is **InProgress**, the value is one of the following:* x:\S.RE - Submitted to School for Research
* x:\S.FA - Awaiting Faxed Consent
 |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/ScreeningStatus/DateOrderReceived | Date and time of the request | Date and time the request was received. |
| BackgroundReports/BackgroundReportPackage/Screenings/ Screening/ScreeningStatus/AdditionalItems/Text | Date and time the request was fulfilled | The date the status was changed and the client notified. If the request is immediately processed, it is the same as RequestedDateTime. For research requests, the date and time is set when the research case is closed and the client notification email is sent (the date is not returned with the initiating transaction response). |
| **Note**: The /AdditionalItems attribute:qualifier is set to **NotifiedDateTime**. |
| BackgroundReports/BackgroundReportPackage/Screenings/ Screening/ScreeningStatus/AdditionalItems/Text | Transaction fee amount | The amount charged to the requestor for the verification. This is a number format with two decimal places (e.g., “5.00”). |
| **Note**: The /AdditionalItems attribute:qualifier is set to **TransFeeAmt**. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/Comments | Comments | Comments from the school regarding the verification results. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationInput/SchoolOrInstitutionAttribute: schoolType | School Type | This data element represents the original request data, and is returned in the response exactly as it was sent in the request. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationInput/SchoolOrInstitution/School/SchoolId/IdValue | Requested School ID | This data element represents the original request data, and is returned in the response exactly as it was sent in the request. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationInput/SchoolOrInstitution/School/SchoolName | Requested Official school name | This data element represents the original request data, and is returned in the response exactly as it was sent in the request. |
| **Note**: The /School attribute:type is set to “degree.” |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationInput/SchoolOrInstitution/Degree/DegreeName | Requested degree title | This data element represents the original request data, and is returned in the response exactly as it was sent in the request. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationInput/SchoolOrInstitution/Degree/DegreeDate/Year | Requested year degree awarded | This data element represents the original request data, and is returned in the response exactly as it was sent in the request. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/ApplicantInformation/PersonName/GivenName | First name on record | First name according to the school’s record. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/ApplicantInformation/PersonName/MiddleName | Middle name on record | Middle name according to the school’s record. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/ApplicantInformation/PersonName/FamilyName | Last name on record | Last name according to the school’s record. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/ApplicantInformation/PersonName/Affix attribute: type | Affix Type | The type of the Name Affix. This value is **familyNameSuffix**. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/ApplicantInformation/PersonName/Affix | Name suffix on record | Name suffix according to the school’s record. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitutionAttribute: schoolType | School Type | Indicates the type of school. Values are:* university
* college
* trade
* community
 |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/School/SchoolName | Official school name | The institution’s official name. |
| **Note**: The /School attribute:type is set to **degree**. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/OrganizationUnit.Also set Attribute:organizationType = **SchoolDivision** | School division | If applicable, this field reflects the name of any subdivision (school, college, or division) of the institution that is officially recognized as awarding the degree (e.g., School of Engineering, College of Business Management, etc.). |
| **Note**: The /OrganizationUnit attribute:organizationType is set to **SchoolDivision**. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/School/SchoolName | Joint school | If applicable, this field reflects the name of the institution, college, school, or division that is officially recognized as jointly awarding the degree.For joint schools, a second instance of: /School is created under the /SchoolOrInstitution element and the /School attribute:type is set to “joint.” |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeName | Degree title | The name of the degree conferred by the institution. The value can be the generally accepted abbreviations for the degree (e.g., BA) or the complete degree title (e.g., Bachelor of Arts), as reported by each institution. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeNameAttribute: academicHonors | Academic honors | If applicable, this field reflects any academic honors that the student received, such as **Magna Cum Laude** or **With Highest Honors**. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeNameAttribute: honorsProgram | Honors program | If applicable, this field indicates the name of any honors program that the student completed associated with the major course(s) of study. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeDate/StringDate | Degree award date | The official date the degree was awarded to the student in accordance with the institution's academic policy. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree | OtherHonors | Other honors If applicable, this field indicates the name of any other honors, such as **Phi Beta Kappa**, etc., that the student received that would be beneficial to note with the degree confirmation. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeMajor/ProgramId/IdValue | Major NCESCIP code | If applicable, this field reflects the National Center for Education Statistics Classification of Instructional Programs codes associated with the major courses of study provided for the student. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeMajor/DegreeConcentration | Major concentration | If applicable, this field reflects the official names of any and all major concentrations associated with the student's degree title. At many institutions, **concentrations** are used to indicate the subject area the student focused on within the major itself. For example, a Math major may have an Applied Math concentration even though this area of concentration is not required to pursue a Math major. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeMajor/Name | Major course of study | If applicable, this field is used to reflect the official name of any and all major courses of study associated with the student's degree title. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeMajor/Option | Major option | If applicable, this field reflects the official names of any and all major options associated with the student's degree title. At many institutions, **options** are used to indicate the specific areas of study for the major, as required by the major department. For example, an institution may require its Engineering majors to select either a Mechanical Engineering or Structural Engineering option. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeMinor/ProgramId/IdValue | Minor NCESCIP code | If applicable, this field reflects the National Center for Education Statistics Classification of Instructional Programs codes associated with the minor courses of study provided for the student. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DegreeMinor/Name | Minor course of study | If applicable, this field reflects the official name of any and all minor courses of study associated with the student's degree title. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DatesOfAttendance/StartDate/StringDate | Begin date | The attendance period begin date. The StartDate attribute **dateDescription** contains one of the following values:* **degree**: Indicates the start date associated with the degree attendance period.
* **history**: Indicates the start date of an individual term as part of the complete enrollment history.
 |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DatesOfAttendance/EndDate/StringDate | End date | The attendance period end date. The EndDate attribute date Description contains one of the following values:* **degree**: Indicates the end date associated with the degree attendance period.
* **history**: Indicates the end date of an individual term as part of the complete enrollment history.
 |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/SchoolOrInstitution/Degree/DatesOfAttendanceAttribute: enrollmentStatus | Enrolled flag | The enrollment status for the attendance period. If the student has indicated the release of this data, this flag will contain one of the following:* **f** (full-time)
* **h** (half-time)
* **l** (less than half-time)

If the student has not released the data, the field will contain **Y**. |
| BackgroundReports/BackgroundReportPackage/Screenings/Screening/EducationVerificationReport/EducationResult/AdditionalItems/Text | Enrollment data since date | The date from which the Clearinghouse has enrollment data for the institution. This is useful in the event that the degree was granted prior to the date from which the institution provided enrollment (or historical) data to the Clearinghouse. |
| **Note**: The /AdditionalItems attribute: qualifier will be set to **EnrollDataSinceDate**. |
| ErrorReport Block  | Error report | This section is included in the event an error prevents the transaction from completing. |
| BackgroundReports/BackgroundReportPackage/ErrorReport/ErrorDescription | Status description | If the transaction fails due to missing data, improperly formatted data, or any system problem, /ErrorReport data is returned in the response. The status description describes the error condition. |
| BackgroundReportPackage/ErrorReport/ErrorCode | Status code | The status code field contains the error number associated with the error (see the ***Error Codes Addendum***). |
| BackgroundReports/BackgroundReportPackage/ErrorReport/ErrorSeverity | Severity of the error | If an error occurred, the field contains **Fatal**. |
| BackgroundReports/BackgroundReportPackage/ErrorReport/FileReferenceId/IdValue | Document Reference ID | Reference number associated with all searches within the XML document. If provided in the request, this data is returned in the response. |
| BackgroundReports/BackgroundReportPackage/ErrorReport/PackageReferenceId/IdValue | Package Reference ID | Reference number associated with all searches within the search package. If provided in the request, this data is returned in the response. |
| BackgroundReports/BackgroundReportPackage/ErrorReport/ScreeningsReferenceId/IdValue | Screenings Reference ID | Reference number associated with all screenings for the search subject. If provided in the request, this data is returned in the response. |
| BackgroundReports/BackgroundReportPackage/ErrorReport/ScreeningReferenceId/IdValue | Screening Reference ID | Reference number associated with the specified screening. If provided in the request, this data is returned in the response. |
| BackgroundReports/BackgroundReportPackage/ErrorReport/ScreeningType | Screening Type | The type of education screening requested, from request element:* BackgroundCheck/
* BackgroundSearchPackage/
* Screenings/
* Screening
* Attribute: type
 |
| **Note**: The value in the request should have been “x:\S.Degree.” |
| BackgroundReports/BackgroundReportPackage/ErrorReport/ScreeningQualifierScreening Qualifier  | Screening Qualifier | If the request was a query on a previous transaction, this is the transaction number requested. From request element:* BackgroundCheck/
* BackgroundSearchPackage/
* Screenings/
* Screening
* Attribute: qualifier
 |

For each request received, one of the following responses may be returned. Each response type and three types of errors are described in the following section. In addition, each response type includes a link to a sample response.

1. **Confirmed** **Degree (CD)**

DegreeVerify attempts to provide both degree data and enrollment history for each incoming request. If only degree data can be obtained, the response message contains a “CD” in the <ResultStatus> data element and the <DatesOfAttendance> data block only provides the degree attendance period, if provided by the school on the degree record (not the complete enrollment history).

A sample XML response file for this type of response is located at: [Appendix One - Confirmed Degree](#_One_–_Confirmed).

1. **Confirmed Degree and Enrollment History (CB)**

DegreeVerify attempts to provide both degree data and enrollment history for each incoming request. If both degree data and enrollment history can be obtained, the response message contains a “CB” in the <ResultStatus> data element and the <DatesOfAttendance> data block provides a complete enrollment history.

**Note**: if multiple degrees are returned, the complete enrollment history is only provided with the first degree.

A sample XML response file for this type of response is located at: [Appendix Two - Confirmed Degree and Enrollment History (CB)](#_Appendix_Two_-).

1. **Research Confirmed Attendance Only (CA)**

This response status is only applicable when querying by Transaction ID for a previous "Submitted to School for Research" response. This response is returned when the research has been completed and the school has indicated the subject was/is attending, but no degree has been awarded. The response message contains a “CA” in the <ResultStatus> data element.

A sample XML response file for this type of response is located at:

[Appendix Three - Research Confirmed Attendance Only (CA)](#_Three_-_Research)

1. **Submitted to School for Research (RE)**

The request is valid, but DegreeVerify is unable to immediately confirm the degree request. The request data is forwarded to the school for research and the requestor is notified by email when the case is closed. The <ResultStatus> element contains an “RE” (Submitted to School for Research) and the <EducationResult> block is not returned.

A sample XML response file for this type of response is located at: [Appendix Four - Submitted to School for Research (RE)](#_Four_-_Submitted)

1. **Unable to Confirm – No Record Found, Need More Information (UN)**

The request is valid, but DegreeVerify is unable to confirm a record for the subject after the request has been researched by the educational institution. The <ResultStatus> element contains a “UN” and the <EducationResult> block is not returned.

The requestor sees this message when querying the status online:

|  |
| --- |
| We were unable to verify Degree for this subject student. Possible reasons are:1. Because the information you provided did not match any record in our database, we asked the school to research your request. The school was unable to locate either a degree or enrollment record for the subject of your verification request. We suggest that you
	1. Check that the subject's name, birth date and other personal data are correct.
	2. Ensure that you have selected the correct school. Many schools are similarly named. Use the location to assist you in your selection progress.
	3. Resubmit your request with www.degreeverify.org if any of the information has changed.
2. If the subject reconfirms receipt of the academic credentials, obtain a copy of the degree and fax it to us at 703-318-4058, along with the transaction ID for this request. We will work with the school to determine whether or not the record(s) is genuine.

If you have any questions, please visit our DegreeVerify FAQs at: [www.studentclearinghouse.org/dvev/dv\_faqs.htm](http://www.studentclearinghouse.org/dvev/dv_faqs.htm) |

A sample XML response file for this type of response is located at:

[Appendix Five - Unable to Confirm – No Record Found, Need More Information (UN)](#_Five_-_Unable)

1. **Unable to Confirm – Student Should Contact Educational Institution Directly For Further Information (UH)**

The request is valid, but DegreeVerify is unable to confirm a student record for the request and the case is now closed. However, the school has requested that the student contact them directly. The <ResultStatus> element contains a “UH” and the <EducationResult> block is not returned.

The requestor sees this message when querying the status online:

|  |
| --- |
| Unfortunately, we are unable to confirm the information you requested.Occasionally, there are instances when the Clearinghouse is not able to determine enrollment or degree information even when the institution may have conferred a degree. This can happen, for example, when a student has previously exercised their right to restrict the release of information without consent or there is some other hold on their records. Since we cannot validate your request, we urge you to have this individual contact the educational institution directly to request any information they may have. |

A sample XML response file for this type of response is located at:

[Appendix Six – Unable to Confirm – Student Should Contact Educational Institution Directly for Further Information.](#_Six_–_Unable)

1. **Unable to Confirm – Consent not received (UC)**

The request is valid, but DegreeVerify is unable to confirm a student record because a copy of the subject’s signed/dated consent was not received from the requestor. The case is now closed. The <ResultStatus> element contains a “UC” and the <EducationResult> block is not returned.

The requestor sees this message when querying the status online:

|  |
| --- |
| We were unable to process your verification request, #100001, because we did not receive a copy of the subject's signed/dated consent from you. Your request has been closed without verification. |

A sample XML response file for this type of response is located at:

[Appendix Seven - Unable to Confirm – Consent Not Received (UC)](#_Seven_-_Unable)

1. **Awaiting Faxed Consent (FA)**

The request is valid, but DegreeVerify is unable to proceed with the verification request until a signed consent form is received. The requestor receives an email notification when a request is changed to this status. The requestor is also notified by email when the case is closed. The <ResultStatus> element contains an “FA” and the <EducationResult> block is not returned.

The requestor sees this message when querying the status online:

|  |
| --- |
| This verification Requires Signed Consent from the individual. You must fax a signed and dated Consent Form to the Clearinghouse's secure fax line at 703-318-4058 or email it as an attachment to degreeverify@studentclearinghouse.org. Please write the transaction number 100001 on ALL pages. We will email the results of the verification within 24 hours of receipt of the signed form. |

A sample XML response file for this type of response is located at: [Appendix Eight - Awaiting Faxed Consent (FA)](#_Eight_-_Awaiting).

1. **Web Service Request Error Condition**

If the XML request is incorrectly formed, a SOAP exception occurs. An XML response document is returned indicating the SOAP error. For example,

Invalid Namespace error:

|  |
| --- |
| **XML Response Example: Invalid Namespace Error** |
| <?xml version="1.0" encoding="UTF-8"?><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><soapenv:Body><soapenv:Fault><faultcode>soapenv:Server.userException</faultcode><faultstring>Fatal Error: URI= Line=2: The markup in the document preceding the root element must be wellformed.</faultstring><detail><string>&lt;ErrorCode&gt;2007&lt;/ErrorCode&gt;</string></detail></soapenv:Fault></soapenv:Body></soapenv:Envelope> |

Invalid Root element error:

|  |
| --- |
| **XML Response Example: Invalid Root element Error** |
| <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><soapenv:Body><soapenv:Fault><faultcode>soapenv:Server.userException</faultcode><faultstring>Couldn&apos;t find the handler for the requested service type: [CV].Please check your service type/handler mapping for this router.</faultstring><detail><string>&lt;ErrorCode&gt;2001&lt;/ErrorCode&gt;</string></detail></soapenv:Fault></soapenv:Body></soapenv:Envelope> |

1. **Request Data Error Condition**

If DegreeVerify is unable to successfully process the request due to a problem with the data, an XML response document is returned indicating the error using an error code of “10xxx” (where xxx represents the specific error code). See the Error Codes Addendum for error codes and descriptions. In the event of an error, the <EducationVerificationReport> block is not returned.

|  |
| --- |
| **XML Response Example: Request Data Error** |
| <?xml version="1.0" encoding="UTF-8"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAPENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"xmlns:xsd="http://www.w3.org/2001/XMLSchema"><SOAP-ENV:Body><BackgroundReports account=”123456” userId=”janedoe” xmlns=”http://ns.hr-xml.org”><BackgroundReportPackage><ErrorReport><ErrorDescription>Last Name is required</ErrorDescription><ErrorCode>10030</ErrorCode><ErrorSeverity>Fatal</ErrorSeverity><FileReferenceId><IdValue>check001</IdValue></FileReferenceId><PackageReferenceId><IdValue>package001</IdValue></PackageReferenceId><ScreeningsReferenceId><IdValue>screenings001</IdValue></ScreeningsReferenceId><ScreeningReferenceId><IdValue>screening001</IdValue></ScreeningReferenceId><ScreeningType>x:\S.Degree</ScreeningType><ScreeningQualifier></ScreeningQualifier></ErrorReport></BackgroundReportPackage></BackgroundReports></SOAP-ENV:Body></SOAP-ENV:Envelope> |

1. **System Error Condition**

If a system error occurs during processing, an XML response document is returned indicating the error using an error code “80xxx”(where xxx represents the specific error code). See the ***Error Codes Addendum*** for error codes and descriptions. In the event of an error, the <EducationVerificationReport> block is not returned.

|  |
| --- |
| **XML Response Example: System Error** |
| <?xml version="1.0" encoding="UTF-8"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAPENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"xmlns:xsd="http://www.w3.org/2001/XMLSchema"><SOAP-ENV:Body><BackgroundReports account=”123456” userId=”janedoe” xmlns=”http://ns.hr-xml.org”><BackgroundReportPackage><ErrorReport><ErrorDescription>Error accessing database</ErrorDescription><ErrorCode>80030</ErrorCode><ErrorSeverity>Fatal</ErrorSeverity><FileReferenceId><IdValue>check001</IdValue></FileReferenceId><PackageReferenceId><IdValue>package001</IdValue></PackageReferenceId><ScreeningsReferenceId><IdValue>screenings001</IdValue></ScreeningsReferenceId><ScreeningReferenceId><IdValue>screening001</IdValue></ScreeningReferenceId><ScreeningType>x:\S.Degree</ScreeningType><ScreeningQualifier></ScreeningQualifier></ErrorReport></BackgroundReportPackage></BackgroundReports></SOAP-ENV:Body></SOAP-ENV:Envelope> |

# DegreeVerify Web Service Testing

In order to run test cases against the DegreeVerify Web service, Clearinghouse has to set up a test user account. Once the account has been established, any request submitted using the test account will be treated as a test request and will be given a static test response.

## Negative Testing

Any number of negative tests can be performed by sending invalid data and/or XML documents in the request. The ***Error Codes Addendum*** lists all possible error codes. Most can be triggered by purposely sending invalid data in the XML tags or excluding the required tags in the XML document.

## Testing Valid Requests

There are eight sample XML responses available to test valid requests. They can be generated by sending the appropriate Transaction ID or SSN, as specified in the table below.

|  |  |
| --- | --- |
|  | **Test Data Elements** |
|  | **Desired Test Response** | **Value** | **<TransID>** | **<PersonPermID>** |
| 1 | Confirmed Degree | CD | 1 | 111111111 |
| 2 | Confirmed Degree and Enrollment History | CA | 2 | 2222222 |
| 3 | Research ConfirmedAttendance Only | CA | 3 | 333333333 |
| 4 | Submitted to School for Research | RE | 4 | 444444444 |
| 5 | Unable to Confirm – No record found, need more information | UN | 5 | 555555555 |
| 6 | Unable to Confirm – Student should contact educational institution directly for further information | UH | 6 | 666666666 |
| 7 | Unable to Confirm - Consent Not Received | UC | 7 | 777777777 |
| 8 | Awaiting Faxed Consent | FA | 8 | 888888888 |

In addition to the test cases above, the requestor can send any transaction number or valid data for a new request. The system will respond with #2 above, Confirmed Degree and Enrollment History. In all cases, the test Web service must be invoked.

# Error Codes Addendum

This addendum describes the defined error messages for the HR-XML interface.

| **System Errors – Error Codes 10xxx** |
| --- |
| **Error Code** | **Description** |
| 10010 | Authentication failed. |
| 10021 | SSN is invalid; SSN can be only numbers; SSN cannot be 000000000; SSN must be a length of 9;SSN must be a length of 4 or 9. |
| 10022 | Person ID Issuing Authority is required |
| 10023 | Person ID Issuing Authority is invalid (i.e., ssa.gov) |
| 10030 | Last Name is required |
| 10040 | First Name is required |
| 10071 | Birth Date is invalid |
| 10080 | Customer ID is required |
| 10081 | Customer User ID is required |
| 10082 | Password is required |
| 10090 | The Signed Consent Obtained data element is required |
| 10091 | The Signed Consent Obtained data value is invalid (must be Y or N) |
| 10100 | Degree Year is invalid |
| 10120 | School ID is required |
| 10121 | School ID is invalid |
| 10122 | School does not support the requested service |
| 10130 | Transaction ID is invalid |
| 10140 | Test Flag is invalid |
| 10150 | Client Contact Email is invalid |
| 10170 | School Type is required |
| 10171 | School Type is invalid |

|  |
| --- |
| **System Errors – Error Codes 80xxx** |
| **Error Code** | **Description** |
| 80010 | General system error |
| 80020 | Application exception |
| 80030 | Error accessing database |
| 80040 | URL must be invoked via the secure https protocol |

| **500 Internal Server Error (SOAPFault)** |
| --- |
| **Sample Error Response** | **Description** |
| <soapenv:Envelope xmlns:so[apenv="http://sche](http://schemas.xmlsoap.org/soap/envelope/)mas.xm[lsoap.org/soap/envelope/"](http://schemas.xmlsoap.org/soap/envelope/)xmlns:xsd="[http://www.w3.org/2001/XMLSchem](http://www.w3.org/2001/XMLSchema)a" xm[lns:xsi="http://www.w3.org/2001/X](http://www.w3.org/2001/XMLSchema-)MLSchema- instance"><soapenv:Body><soapenv:Fault><faultcode>soapenv:Server.userException</faultcode><faultstring>java.lang.NullPointerException</faultstring><detail/></soapenv:Fault></soapenv:Body></soapenv:Envelope> | The request document is an invalid XML document and has been rejected by a standard XML parser (e.g. the elements are not properly closed). |
| soapenv:Envelopexmlns:so[apenv="http://sche](http://schemas.xmlsoap.org/soap/envelope/)mas.xm[lsoap.org/soap/envelope/"](http://schemas.xmlsoap.org/soap/envelope/) xmlns:xsd="[http://www.w3.org/2001/XMLSchem](http://www.w3.org/2001/XMLSchema)a" xm[lns:xsi="http://www.w3.org/2001/X](http://www.w3.org/2001/XMLSchema-)MLSchema- instance"><soapenv:Body><soapenv:Fault><faultcode>soapenv:Server.userException</faultcode><faultstring>Couldn&apos;t find the handler for the requested service type: [CV]. Please check your service type/handler mapping for this router.</faultstring><detail><string>&lt;ErrorCode&gt;2001&lt;/ErrorCode&gt;</string></detail></soapenv:Fault></soapenv:Body></soapenv:Envelope> | * The root element of the payload is not “<BackgroundCheck>”
* The following screening type is not provided: <Screening type="x:\S.Degree">
 |
| <soapenv:Envelopexmlns:so[apenv="http://sche](http://schemas.xmlsoap.org/soap/envelope/)mas.xm[lsoap.org/soap/envelope/"](http://schemas.xmlsoap.org/soap/envelope/) xmlns:xsd="[http://www.w3.org/2001/XMLSchem](http://www.w3.org/2001/XMLSchema)a" xm[lns:xsi="http://www.w3.org/2001/X](http://www.w3.org/2001/XMLSchema-)MLSchema- instance"><soapenv:Body><soapenv:Fault><faultcode>soapenv:Server.userException</faultcode><faultstring>Fatal Error: URI=null Line=2: Content is not allowed in prolog.</faultstring><detail><string>&lt;ErrorCode&gt;2007&lt;/ErrorCode&gt;</string></detail></soapenv:Fault></soapenv:Body></soapenv:Envelope> | Invalid namespace used for the payload document. |
| Not available | If the request contains an invalid character rejected by a standard XML parser, the Web service returns a 500 internal server error. The Web service only accepts UTF-8 encoded characters. If the request contains non-UTF-8 encoded characters, it is still processed. Any accented characters are replaced by the corresponding ASCII characters. Other non-UTF-8 characters are replaced by**?**. |
| Connection error | The Web service application is down or not responding. |

# Appendices

## One – Confirmed Degree (CD)

|  |
| --- |
| <BackgroundReports account="123456" userId="JANEDOE" xmlns="http://ns.hr-xml.org"><BackgroundReportPackage><ClientReferenceId><IdValue>PackageId</IdValue></ClientReferenceId><Screenings><Screening type="x:\S.Degree"><ProviderReferenceId><IdValue>000000001</IdValue></ProviderReferenceId><ClientReferenceId><IdValue>ScreeningId</IdValue> </ClientReferenceId><ScreeningStatus><OrderStatus>Completed</OrderStatus><ResultStatus>x:\S.CD</ResultStatus><DateOrderReceived>1990-05-18</DateOrderReceived><AdditionalItems qualifier="NotifiedDateTime"><Text>1990-05-18</Text></AdditionalItems><AdditionalItems qualifier="TransFeeAmt"><Text>5.00</Text></AdditionalItems></ScreeningStatus><Comments>Some comments</Comments><EducationVerificationReport><EducationInput><SchoolOrInstitution schoolType="community"><School><SchoolId><IdValue>003329</IdValue></SchoolId><SchoolName>A CUT ABOVE BEAUTY COLLEGE</SchoolName></School></SchoolOrInstitution></EducationInput><EducationResult><ApplicantInformation><PersonName><GivenName>John</GivenName><MiddleName>D</MiddleName><FamilyName>Smithereens</FamilyName><Affix type="familyNameSuffix">Jr</Affix></PersonName></ApplicantInformation><SchoolOrInstitution schoolType="university"><School type="degree"><SchoolName>Adelphi University</SchoolName></School><School type="joint"><SchoolName>Boston College</SchoolName></School><OrganizationUnit organizationType="SchoolDivision">School of Art</OrganizationUnit><Degree><DegreeName academicHonors="Magna Cum Laude" honorsProgram="1988 Academic Award">TEST - BA</DegreeName><DegreeDate><StringDate>1990-05-18</StringDate></DegreeDate><OtherHonors>Phi Beta Kappa</OtherHonors><DegreeMajor><ProgramId><IdValue>000156</IdValue></ProgramId><ProgramId><IdValue>001230</IdValue></ProgramId><ProgramId><IdValue>003499</IdValue></ProgramId><ProgramId><IdValue>002323</IdValue></ProgramId><DegreeConcentration>Public Communications</DegreeConcentration><DegreeConcentration>Russian Culture</DegreeConcentration><DegreeConcentration>English</DegreeConcentration><Name>History</Name><Name>Political Science</Name><Name>Communications</Name><Name>Sociology</Name><Option>Criminal Justice</Option><Option>Western European</Option></DegreeMajor><DegreeMinor><ProgramId><IdValue>001111</IdValue></ProgramId><ProgramId><IdValue>001212</IdValue></ProgramId><ProgramId><IdValue>003050</IdValue></ProgramId><ProgramId><IdValue>002030</IdValue></ProgramId><Name>Computer Science</Name><Name>Philosophy</Name><Name>Mathematics</Name><Name>Linguistics</Name></DegreeMinor><DatesOfAttendance><StartDate dateDescription="degree"><StringDate>1986-08-24</StringDate></StartDate><EndDate dateDescription="degree"><StringDate>1990-05-18</StringDate></EndDate></DatesOfAttendance></Degree></SchoolOrInstitution></EducationResult><EducationResult><ApplicantInformation><PersonName><GivenName>John</GivenName><MiddleName>D</MiddleName><FamilyName>Smithereens</FamilyName><Affix type="familyNameSuffix">Jr</Affix></PersonName></ApplicantInformation><SchoolOrInstitution schoolType="university"><School type="degree"><SchoolName>Adelphi University</SchoolName></School><OrganizationUnit organizationType="SchoolDivision">School of Engineering</OrganizationUnit><Degree><DegreeName academicHonors="Magna Cum Laude" honorsProgram="1995 Academic Award">TEST - BS</DegreeName><DegreeDate><StringDate>1995-12-25</StringDate></DegreeDate><OtherHonors>Phi Beta Kappa</OtherHonors><DegreeMajor><ProgramId><IdValue>010156</IdValue></ProgramId><ProgramId><IdValue>003050</IdValue></ProgramId><DegreeConcentration>Public Communications</DegreeConcentration><DegreeConcentration>Russian Culture</DegreeConcentration><DegreeConcentration>French</DegreeConcentration><Name>Electrical Engineering</Name><Name>Mathematics</Name></DegreeMajor><DegreeMinor><ProgramId><IdValue>001111</IdValue></ProgramId><Name>Computer Science</Name></DegreeMinor><DatesOfAttendance><StartDate dateDescription="degree"><StringDate>1993-08-24</StringDate></StartDate><EndDate dateDescription="degree"><StringDate>1995-12-25</StringDate></EndDate></DatesOfAttendance></Degree></SchoolOrInstitution></EducationResult><EducationResult><ApplicantInformation><PersonName><GivenName>John</GivenName><MiddleName>D</MiddleName><FamilyName>Smithereens</FamilyName><Affix type="familyNameSuffix">Jr</Affix></PersonName></ApplicantInformation><SchoolOrInstitution schoolType="university"><School type="degree"><SchoolName>Adelphi University</SchoolName></School><School type="joint"><SchoolName>University of Virginia</SchoolName></School><OrganizationUnit organizationType="SchoolDivision">School of Art</OrganizationUnit><Degree><DegreeName academicHonors="Magna Cum Laude" honorsProgram="1998 Academic Award">TEST - PHD</DegreeName><DegreeDate><StringDate>1999-05-30</StringDate></DegreeDate><OtherHonors>Phi Beta Kappa</OtherHonors><DegreeMajor><ProgramId><IdValue>001230</IdValue></ProgramId><DegreeConcentration>Public Communications</DegreeConcentration><Name>Political Science</Name><Option>Criminal Justice</Option><Option>Western European</Option></DegreeMajor><DegreeMinor><ProgramId><IdValue>001111</IdValue></ProgramId><ProgramId><IdValue>001212</IdValue></ProgramId><ProgramId><IdValue>003050</IdValue></ProgramId><ProgramId><IdValue>002030</IdValue></ProgramId><Name>Computer Science</Name><Name>Philosophy</Name><Name>Mathematics</Name><Name>Linguistics</Name></DegreeMinor><DatesOfAttendance><StartDate dateDescription="degree"><StringDate>1997-08-24</StringDate></StartDate><EndDate dateDescription="degree"><StringDate>1999-05-30</StringDate></EndDate></DatesOfAttendance></Degree></SchoolOrInstitution></EducationResult></EducationVerificationReport></Screening></Screenings></BackgroundReportPackage></BackgroundReports> |

## Two - Confirmed Degree and Enrollment History (CB)

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| --- |
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## Three - Research Confirmed Attendance Only (CA)

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## Four - Submitted to School for Research (RE)

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## Five - Unable to Confirm – No Record Found, Need More Information (UN)

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## Six - Unable to Confirm – Student Should Contact Educational Institution Directly for Further Information.

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## Seven - Unable to Confirm – Consent Not Received (UC)

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## Eight - Awaiting Faxed Consent (FA)

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| <BackgroundReports account="D00001" userId="TESTDVMBR" xmlns="http://ns.hr-xml.org"><BackgroundReportPackage><ClientReferenceId><IdValue>PackageId</IdValue></ClientReferenceId><Screenings><Screening type="x:\S.Degree"><ProviderReferenceId><IdValue>000000008</IdValue></ProviderReferenceId><ClientReferenceId><IdValue>ScreeningId</IdValue></ClientReferenceId><ScreeningStatus><OrderStatus>Completed</OrderStatus><ResultStatus>x:\S.FA</ResultStatus><DateOrderReceived>1990-05-18</DateOrderReceived><AdditionalItems qualifier="NotifiedDateTime"><Text>1990-05-18</Text></AdditionalItems><AdditionalItems qualifier="TransFeeAmt"><Text>0.00</Text></AdditionalItems></ScreeningStatus><EducationVerificationReport><EducationInput><SchoolOrInstitution schoolType="community"><School><SchoolId><IdValue>003329</IdValue></SchoolId><SchoolName>A CUT ABOVE BEAUTY COLLEGE</SchoolName></School></SchoolOrInstitution></EducationInput></EducationVerificationReport></Screening></Screenings></BackgroundReportPackage></BackgroundReports> |