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| **[SSO Partner Integration]** |
| This document describes and defines service and elements involved with the integration of an external, 3rd party group with ConvergenceHealth's platform. This process includes the integration of login information as well as the registration confirmation process within the ConvergenceHealth System. |



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# Document Scope The purpose of this document is to outline general guidelines for implementation of the ConvergenceHealth SSO data services within your system.

# Data Service Integration

The data services available for integration consist of a standard web service to perform inserts of new customers into the ConvergenceHealth system. These data service calls will need to be accompanied by the two identifiers supplied by ConvergenceHealth: your Integration ID and your Company ID. These two pieces of information identify the specific landing pages, the specific offer and the specific look and feel to which the end user will be exposed on the ConvergenceHealth platform.

Prior to passing a user from your portal into the ConvergenceHealth system, you must make a request to the data integration service to retrieve the registration ID from the CH system for your user. This ID must be stored in such a way that the record is available for that user for the specific CH platform they are opting into.

If, for some reason, the insert fails, the CH Integration service will log all data and will forward the information on to the technical team for review and repair. You will need to handle this exception within your process and display messaging that indicates that they will receive confirmation of their participation in the ConvergenceHealth program.

This service throws several types of exceptions with verbose messages for you to either decipher and handle within your own system or for you to pass along to the end user. The two types of exceptions are:

* Format Exception
* Not Supported Exception

These exceptions will throw in the event that an error occurred in data validation or in account verification for your specific integration point.

## Test and Live Services

There are two exposed services at CH Web Services:

1. The CH Integration Method web method is the main, production level integration and is only accessible to activated once your activation is active within the CH system.
2. The CH Integration Test Method web method is only available to you during the pre-activation period and will not work when your integration is active.

## SOAP web service

### Request Parameters

ConvergenceHealth has developed a standard SOAP service interface to provide you with a simple path to integration. This SOAP service has a number of required fields:

* strFirstName - Customer's first name
* strLastName - Customer's last name
* strPrimaryEmail - Customer's primary Email
* strPartnerID - integer masked as a string representing assigned CH Partner ID
* strIntegrationID - Guid masked as a string representing the assigned CH Integration ID
* strAuthenticationType – Flag to indicate whether to use Partner’s authentication service or CH’s

There is also an optional XML document that that allows for some additional, extended data to be passed into the ConvergenceHealth system. This data is for the convenience of the customer, so any extra information passed in will be to their benefit. This XML document will need to conform to the following schema example:

<optionalData>

<field name="strSecondaryEmail">abcdef@gmail.com</field>

<field name="strDayTimePhone">123-456-7890</field>

</optionalData>

Items to note:

* The parent node is named *optionalData*
* Each node within that parent is a row in a table and is named *field*
  + the *name* property identifies the parameter you're passing
  + the *value* of that name property is the value that you want to assign to that parameter
* If you are not passing an optional parameter, simply omit the entire node--it is not necessary to pass empty XML tags.

The following are available optional data parameters that you can pass in. These fields are case sensitive:

* strUserName - Customer's user name. **If this is not provided one will be assigned (Note: in the case of Adeslas, this is Customer’s Document ID)**
* strPassword - Customer's Password. **If utilizing CH’s authentication service (strAuthenticationType = 1) and If this is not provided the user will be given the opportunity to create one on their first login**
* strDocumentIDType – Customer’s Primary ID Type
* strLastName2 – Customer’s secondary last name
* strSecondaryEmail - Customer's secondary email
* strDayTimePhone - Customer's day time phone number
* strEveningPhone - Customer's evening phone number
* strAddress - Customer's address
* strCity - Customer's City
* strZip - Customer's zip code
* strCountry - Customer's Country
* strDocumentIDType – Customer’s Primary ID Type
* strCardID – Customer’s Secondary ID Type
* strDateofBirth – Customer’s Date of Birth formatted **DD/MM/YYYY**
* strCompanyID – Customer’s Company ID
* strCompanyName – Customer’s Company Name

As the need arises, this list may be expanded to fit the needs of our clients.

### Input Parameter Type Definitions

Our system has certain limitations on the size and type of parameters passed. While all input parameters are masked as strings to provide the widest possible availability of this service, the following table identifies the application and database types that are used to store the data passed into the service. All input parameters are checked for type and for length within our system. If a parameter does not fit the specification as outlined, an exception will be thrown to the invoking caller identifying a friendly message to show what data check failed.

If, for whatever reason, you are receiving exceptions from the service that cannot be easily explained by the message and/or inner exception, please contact CH support.

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| --- | --- | --- | --- |
| Field Name | Application Type | Database Type | Parameter Type |
| strFirstName | System.String | Varchar(25) | Required |
| strLastName | System.String | Varchar(25) | Required |
| strPrimaryEMail | System.String | Varchar(75) | Required |
| strPartnerID | System.String | Int | Required |
| strIntegrationID | System.String | Varchar(25) | Required |
| strAuthenticationType | System.String | Int | Required |
| strUserName | System.String | Varchar(15) | Optional |
| strPassword | System.String | Varchar(10) | Optional |
| strDocumentIDType | System.String | Varchar(25) | Optional |
| strLastName2 | System.String | Varchar(25) | Optional |
| strSecondaryEMail | System.String | Varchar(50) | Optional |
| strDayTimePhone | System.String | Varchar(15) | Optional |
| strEveningPhone | System.String | Varchar(15) | Optional |
| strAddress | System.String | Varchar(30) | Optional |
| strAddress2 | System.String | Varchar(30) | Optional |
| strCity | System.String | Varchar(20) | Optional |
| strState | System.String | Varchar(2) | Optional |
| strZip | System.String | Varchar(7) | Optional |
| strCountry | System.String | Varchar(50) | Optional |
| strCardID | System.String | Varchar(15) | Optional |
| strDateofBirth | System.String | Varchar(15) | Optional |
| strCompanyID | System.String | Int | Optional |
| strCompanyName | System.String | Varchar(50) | Optional |
| strCompanyDept | System.String | Varchar(50) | Optional |

### Optional XML Encryption

CH prefers utilizing the HTTPS protocol over explicit encryption without TLS, however, further security mechanisms can and will be implemented upon request.

### Response Parameters

The response coming from the SOAP web service identifies some key information for the calling site to consume and use within the UI for the end user. To provide the greatest flexibility to legacy system users, the return value is a parseable string that contains the following piece of information:

* the CH Registration ID
* A proprietary CH identifier that acknowledges proper insertion into our databases
* (optional) CH generated username
* (optional) CH generated password

You will be able to provide the end user with a link directly to the platform. Your link must have the **CH Registration ID** passed in either as a POST or Query String value keyed as "rid" along with a second variable named "intID" which will be the **Company ID** provided to you by CH. This integer should be passed as a string and will be type checked at the CH servers.

Alternatively, if you opt to receive username and password back, you will need to provide the end user with their generated username and password along with a url that they can use to log into the CH system. This URL will be provided upon request.

### Request and Response Definitions

##### SOAP 1.1

The following is a sample SOAP 1.1 request and response. The placeholders shown need to be replaced with actual values.

POST /api HTTP/1.1

Host: bys2.es

Content-Type: text/xml; charset=utf-8

Content-Length: length

SOAPAction: "https://www.ConvergenceHealth.com/CHIntegrationMethod"

<?xml version="1.0" encoding="utf-8"?>

<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

<soap:Body>

<CHIntegrationMethod xmlns="http://www.ConvergenceHealth.com/">

<strIntegrationID>string</strIntegrationID>

<strFirstName>string</strFirstName>

<strLastName>string</strLastName>

<strPrimaryEmail>string</strPrimaryEmail>

<strCompanyID>string</strCompanyID>

<strSubscriptionID>string</strSubscriptionID>

<strCourseID>string</strCourseID>

<strOptionalXML>string</strOptionalXML>

</CHIntegrationMethod>

</soap:Body>

</soap:Envelope>

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8

Content-Length: length

<?xml version="1.0" encoding="utf-8"?>

<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

<soap:Body>

<CHIntegrationMethodResponse xmlns="http://www.ConvergenceHealth.com/">

<CHIntegrationMethodResult>string</CHIntegrationMethodResult>

</CHIntegrationMethodResponse>

</soap:Body>

</soap:Envelope>

##### SOAP 1.2

The following is a sample SOAP 1.2 request and response. The placeholders shown need to be replaced with actual values.

POST /api HTTP/1.1

Host: bys2.es

Content-Type: application/soap+xml; charset=utf-8

Content-Length: length

<?xml version="1.0" encoding="utf-8"?>

<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">

<soap12:Body>

<CHIntegrationMethod xmlns="https://www.ConvergenceHealth.com/">

<strIntegrationID>string</strIntegrationID>

<strFirstName>string</strFirstName>

<strLastName>string</strLastName>

<strPrimaryEmail>string</strPrimaryEmail>

<strCompanyID>string</strCompanyID>

<strSubscriptionID>string</strSubscriptionID>

<strCourseID>string</strCourseID>

<strOptionalXML>string</strOptionalXML>

</CHIntegrationMethod>

</soap12:Body>

</soap12:Envelope>

HTTP/1.1 200 OK

Content-Type: application/soap+xml; charset=utf-8

Content-Length: length

<?xml version="1.0" encoding="utf-8"?>

<soap12:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">

<soap12:Body>

<CHIntegrationMethodResponse xmlns="https://www.ConvergenceHealth.com/">

<CHIntegrationMethodResult>string</CHIntegrationMethodResult>

</CHIntegrationMethodResponse>

</soap12:Body>

</soap12:Envelope>

##### HTTP POST

The following is a sample HTTP POST request and response. The placeholders shown need to be replaced with actual values.

POST /api HTTP/1.1

Host: bys2.es

Content-Type: application/x-www-form-urlencoded

Content-Length: length

strIntegrationID=string&strFirstName=string&strLastName=string&strPrimaryEmail=string&strCompanyID=string&strSubscriptionID=string&strCourseID=string&strOptionalXML=string

HTTP/1.1 200 OK

Content-Type: text/xml; charset=utf-8

Content-Length: length

<?xml version="1.0" encoding="utf-8"?>

<string xmlns="https://www.ConvergenceHealth.com/">string</string>

# Quick Integration Checklist

### Action Items for ConvergenceHealth

* CH to collaborate with partner on verbiage for sales pages
* CH to provide identifiers for integration once partner has confirmed that they can access the data service

### Action Items for Integrating Partner

* Point your application to CH Web Services for SOAP or POST calls to move data and SSO to the CH system
* Make sure to get your ID's from CH
  + - CompanyID
    - IntegrationID
* Integrate your application to call the CH integration service