TECHNICAL SPECIFICATION DOCUMENT

Expert Detailed Online

Created Date	2023/03/27	Version	V 1.1
Author	Mercy Tshabangu	Document Classification	Confidential

CONTENTS

1   Introduction

XDS offers various products through API calls via their Web Application (**XDS Connect**).
Expert Detailed Online report is provided by XDS and is in sync with XDS portal products and reports.

2   Product Description

The Expert Detailed Online provides an XDS client with a consumer's Income predicted in order for the XDS client to make an informed lending decision as it relates to that consumer.

2.1   Product ID
When prompted for an input parameter for a Product ID use Product ID 41

2.2   Report ID
When prompted for an input parameter for a Report ID use Report ID 18

3   Process Flow

In order to successfully consume this product via the XDS web services, you have to invoke the above web service operations in the order specified. First Login, using the Login method. Then check if the returned Ticket Number is valid using IsTicketValid method. You will then need to consume the ConnectBusinessMatch method and lastly the ConnectGetResult to get the full product results string.

4   Methods

XDS Connect

Description:

XDS Connect is the Service name of a group of methods to handle the entire authentication to the XDS Connect Web services as well as all other methods used by our products.
For this document we will discuss the below methods that pertain directly to Expert Detailed Online
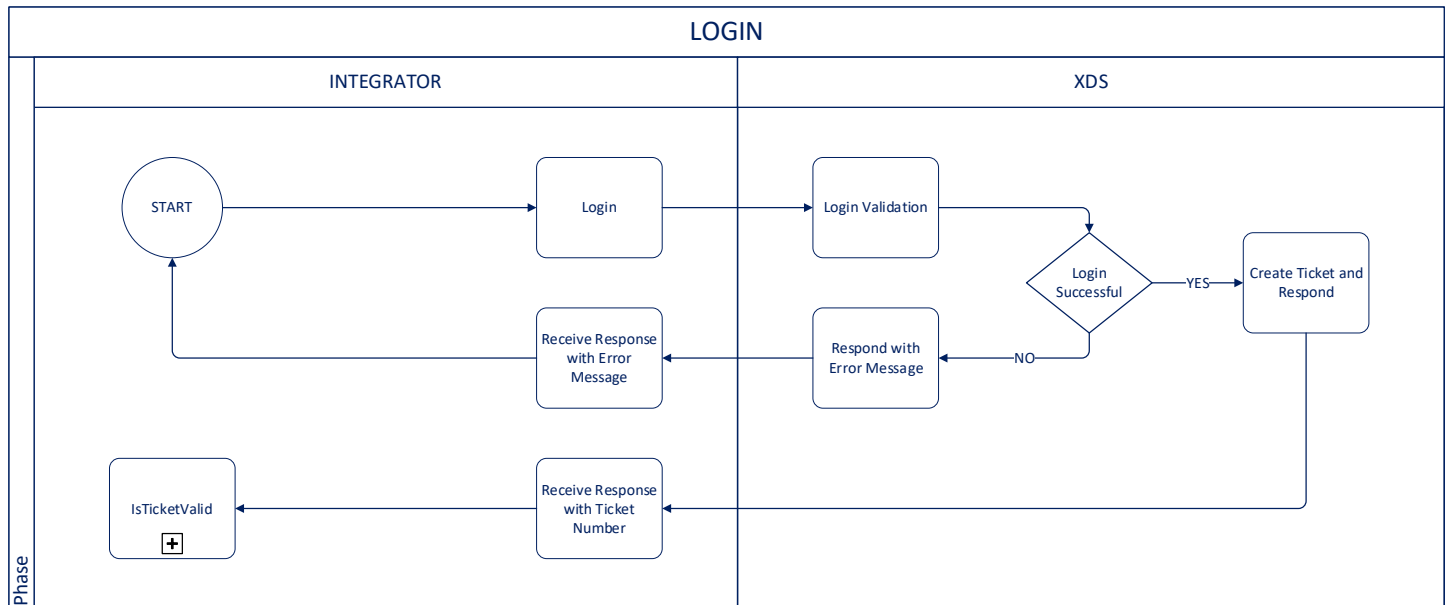
Expert Detailed Online consists of the individually listed methods below:
1.   Login
2.   IsTicketValid
3.   ConnectBusinessMatch
4.   ConnectGetResult

4.1 Login

This is the first part of the Income predictor report. This describes the User into the XDS Connect Web Services. It validates the user/client and returns an authentication ticket for successful user login or an error message for unsuccessful user login in string format.

A successful call of **Login** will always result in a String formatted as an XML Response, whether the actual operation was successful or not.

> One of two response will be returned:
> 1. Successful Login – XDS authentication ticket will be returned which will be valid for 5 hours
> 2. Unsuccessful Login – Error message will be returned

Time lapse before next call: **None**

4.2   Is Ticket Valid

The below process flow diagram explains how the IsTicketValid Method works.

A successful call of **IsTicketValid** will always result in a String formatted as an XML Response, whether the actual operation was successful or not.

One of two response will be returned:
1.   Successful Validation – True will be returned
2.   Unsuccessful Validation – False will be returned / Error message will be returned

Time lapse before next call: **None**

4.3   ConnectBusinessMatch

Process consumer match based on Registration number and returns a report for a single matched Business.

A successful call of **ConnectBusinessMatch** will always result in a String formatted as an XML Response, whether the actual operation was successful or not.
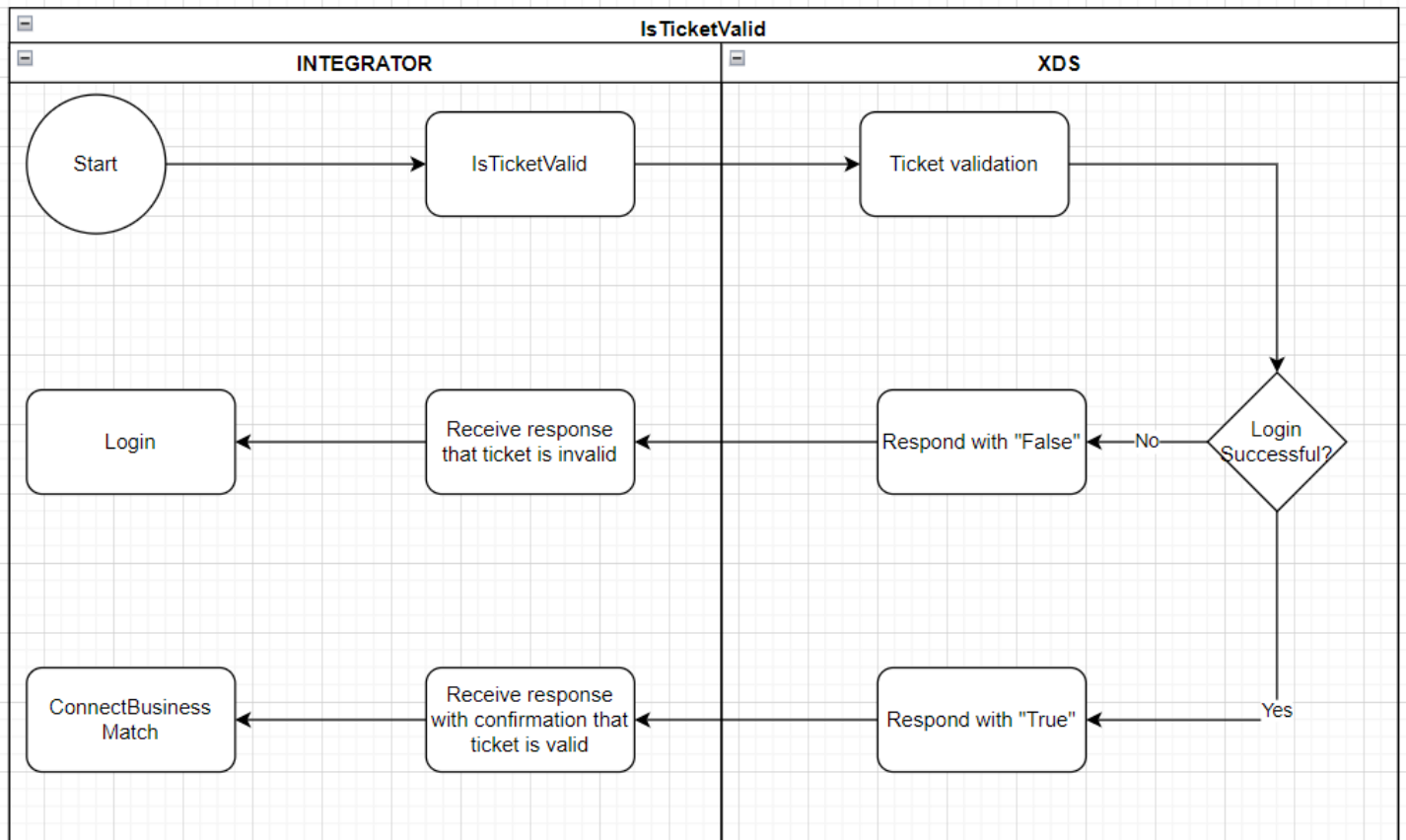
> One of two response will be returned:
> 1. Successful Enquiry – Result set will be returned
> 2. Unsuccessful Enquiry – Will return an error

Time lapse before next call: **0 seconds**

4.4   ConnectGetResult

Process consumer match based on Registration Number and returns a report for a single matched Business.

A successful call of **ConnectGetResult** will always result in a String formatted as an XML Response, whether the actual operation was successful or not.
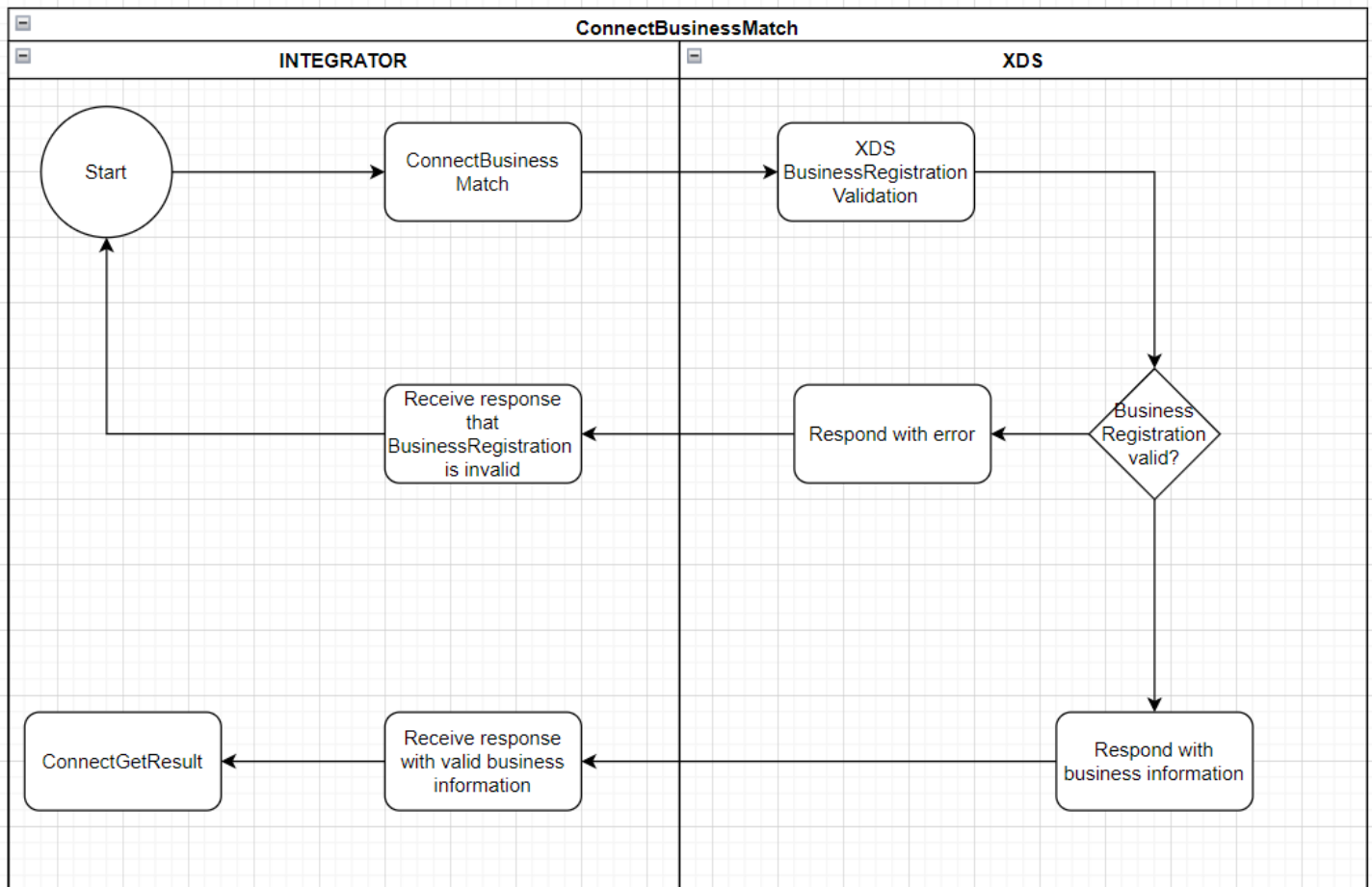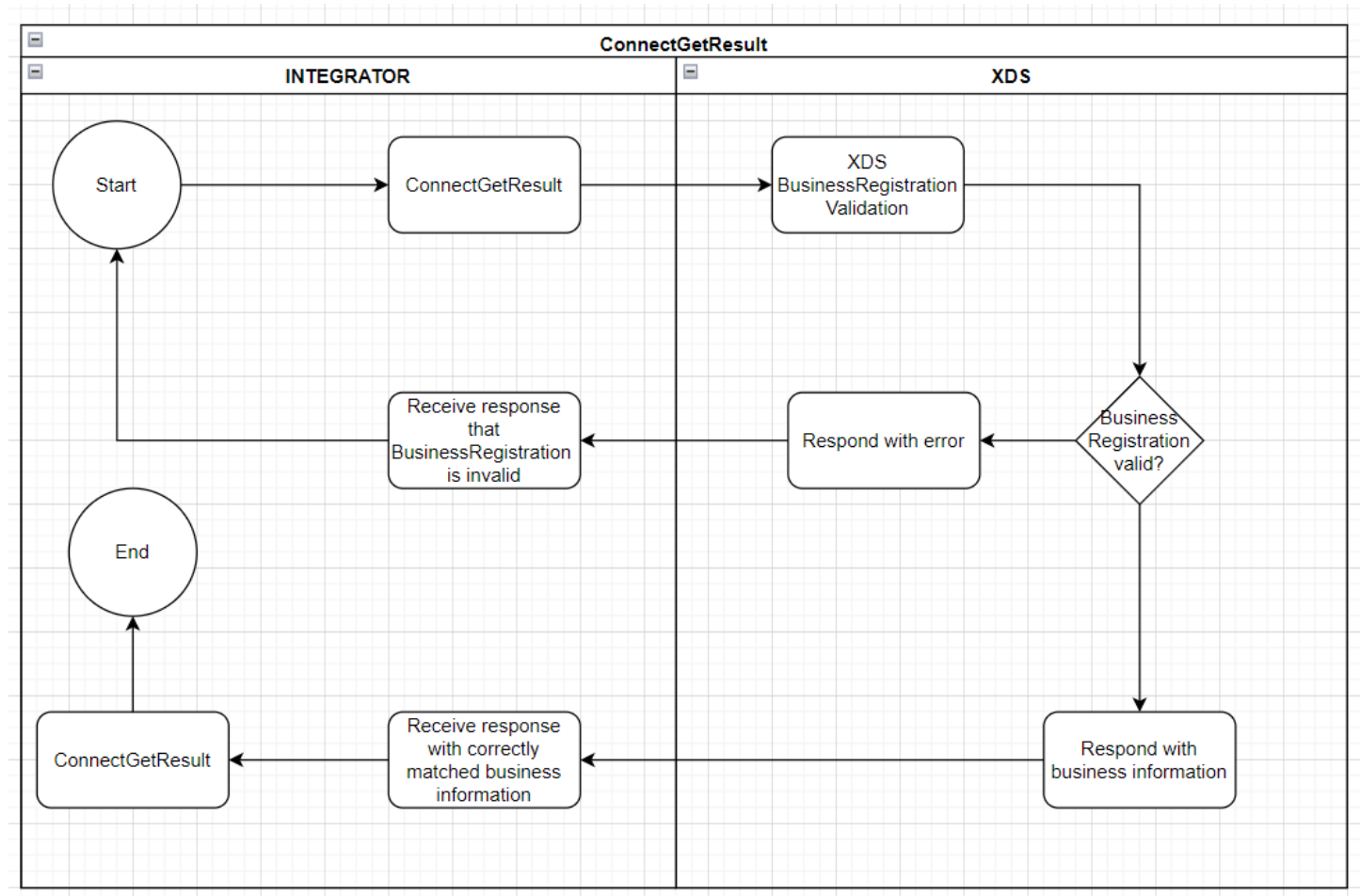
One of two response will be returned:
1. Successful Enquiry – Result set will be returned
2. Unsuccessful Enquiry – Will return an error

Time lapse before next call: **0 seconds**

5 Samples Requests

Login

XML input

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:xds="http://www.web.xds.co.za/XDSConnectWS">
   <soap:Header/>
   <soap:Body>
      <xds:Login>
         <!--Optional:-->
         <xds:strUser>XXX</xds:strUser>
         <!--Optional:-->
         <xds:strPwd>XXX</xds:strPwd>
      </xds:Login>
   </soap:Body>
</soap:Envelope>
```

XML Output/Results

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <soap:Body>
      <LoginResponse xmlns="http://www.web.xds.co.za/XDSConnectWS">
      <LoginResult>7A73C78D6D211C796D34D4BB2F09F4E546F45140004F5A60139EED67
      14105369EE36D79950820A4372D86C6B9A74EAA3E927018B54AAD9D76E8F076835BD6
      C7DF15F7C1395679FF4AB10A7573AAD63580920261C2E7B93FD74C62542923B2281C3
      9EC34CEA84C628A90AF1BCD4BECA30BB9F90A0
      </LoginResult>
      </LoginResponse>
   </soap:Body>
</soap:Envelope>
```

Is Ticket Valid

XML input

Pass the Ticket Number as the input parameters which was the LoginResult XML tag from the Login call.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:xds="http://www.web.xds.co.za/XDSConnectWS">
    <soap:Header/>
    <soap:Body>
        <xds:IsTicketValid>
            <!--Optional:-->
            <xds:XDSConnectTicket>
              A8D122C1C46EADC3948A8CA35EA8AD991743E8BAE67AD8781531E1EA24039
              1D6705CB8526342BD29B8162524ACA169AC-
              DBE4732F7ED90F79EE69E84C474B24B50FCDCA7CF801038EA9A544312BE09
              DD27DA3765B446A564EC19FBC5B2B101A80AEEDA3BA096E8F6216DB5A5269
              625C0E10EF97FA
            </xds:XDSConnectTicket>
        </xds:IsTicketValid>
    </soap:Body>
</soap:Envelope>
```

XML Output/Results

The response is either "true" or "false" which is in the IsTicketValidResult XML response tag.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <IsTicketValidResponse xmlns="http://www.web.xds.co.za/XDSConnectWS">
            <IsTicketValidResult>true</IsTicketValidResult>
        </IsTicketValidResponse>
    </soap:Body>
</soap:Envelope>
```

ConnectBusinessMatch

XML input

```
<soap:Envelope
    xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
    xmlns:xds="http://www.web.xds.co.za/XDSConnectWS">
    <soap:Header/>
    <soap:Body>
        <xds:ConnectBusinessMatch>
            <!--Optional:-->
            <xds:ConnectTicket>String</xds:ConnectTicket>
            <!--Optional:-->
            <xds:Reg1>int</xds:Reg1>
            <!--Optional:-->
            <xds:Reg2>int</xds:Reg2>
            <!--Optional:-->
            <xds:Reg3>int</xds:Reg3>
            <!--Optional:-->
            <xds:BusinessName>String</xds:BusinessName>
            <!--Optional:-->
            <xds:VatNo>int</xds:VatNo>
            <!--Optional:-->
            <xds:SolePropIDNo>int</xds:SolePropIDNo>
            <!--Optional:-->
            <xds:YourReference>string</xds:YourReference>
            <!--Optional:-->
            <xds:VoucherCode>string</xds:VoucherCode>
        </xds:ConnectBusinessMatch>
    </soap:Body>
</soap:Envelope>
```

XML Output/Results

```
<?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>
    <ConnectBusinessMatchResponse xmlns="http://www.web.xds.co.za/XDSConnectWS">
      <ConnectBusinessMatchResult>string</ConnectBusinessMatchResult>
    </ConnectBusinessMatchResponse>
  </soap:Body>
</soap:Envelope>
```

ConnectGetResult

XML input

```
<soap:Envelope
    xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
    xmlns:xds="http://www.web.xds.co.za/XDSConnectWS">
    <soap:Header/>
    <soap:Body>
        <xds:ConnectGetResult>
            <!--Optional:-->
            <xds:ConnectTicket>String</xds:ConnectTicket>
            <xds:EnquiryID>int</xds:EnquiryID>
            <xds:EnquiryResultID>int</xds:EnquiryResultID>
            <xds:ProductID>int</xds:ProductID>
            <!--Optional:-->
            <xds:BonusXML>String</xds:BonusXML>
        </xds:ConnectGetResult>
    </soap:Body>
</soap:Envelope>
```

XML Output/Results

```
<?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>
    <ConnectGetResultResponse xmlns="http://www.web.xds.co.za/XDSConnectWS">
      <ConnectGetResultResult>string</ConnectGetResultResult>
    </ConnectGetResultResponse>
  </soap:Body>
</soap:Envelope>
```