



AME User Guide

Online XML Soap Connection

VERSION 1.0 – OCTOBER 2015



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About AME

D&B's Asia Match Environment ("AME") allows a customer's own systems to integrate with D&B's best-in-class AME Entity Matching environment.

Countries and Languages

AME enables real-time transactional Entity Matching in the following combinations:

MATCHING ON	IN THIS LANGUAGE
Japan	Japanese
China (PRC)	Simplified Chinese
Taiwan	Traditional Chinese
South Korea	Hangul

AME uses "ISO 2" codes for countries (specifically ISO 3166-1 alpha-2).

COUNTRY	ISO 2
Japan	JP
China (PRC)	CN
Taiwan	TW
South Korea	KR

AME uses "ISO 15924" codes for languages.

LANGUAGE	ISO 15924 CODE
Japanese	JAPN
Simplified Chinese	HANS
Traditional Chinese	HANT
Hangul	HANG
English	ENG*

* **Note:** the code "ENG" for English is not actually an ISO code. The official ISO name of the script in which English is written is the Latin alphabet ("LATN") language. For simplicity we have adopted "ENG" as this is much better understood as representing "English".



The XML SOAP Interface (API)

There is a dedicated **XML SOAP** web service interface created specifically for customer development teams to create real-time B2B connections to D&B's AME Online Matching.

This interface is known as “**AME SOAP**”.

The URL of AME SOAP:

<https://dbdit.dnb.com:8443/AME-Reference-Type/services/Match>

Note: The above link uses the HTTPS secure protocol (SSL). It is also possible to connect to AME and the WSDL via a standard non-secure URL: <http://dbdit.dnb.com:8080/AME-Reference-Type/services/Match>

How easy is it to connect to AME SOAP?

Fairly easy. A software developer with a basic knowledge of a modern programming language (eg JAVA, C# .NET) should be able to create a basic test harness using AME in just a few hours.

AME SOAP also uses a **WSDL**, which is a “map” of the data structures used to interact with AME.

The WSDL can be automatically integrated into any modern software development tool (IDE) such as **Visual Studio**, **NetBeans**, **Eclipse** etc. Once the WSDL has been integrated, the IDE will automatically generate code to connect to AME SOAP, as well as objects to allow easy incorporation into other software code.

What version of Java or .NET ?

We recommend using Java SDK 1.6. For .NET, please use version 3.5 and above.

The WSDL

The AME SOAP WSDL is located at:

<https://dbdit.dnb.com:8443/AME-Reference-Type/services/Match?wsdl>

Note: The above link uses the HTTPS secure protocol (SSL). It is also possible to connect to AME and the WSDL via a standard non-secure URL: <http://dbdit.dnb.com:8080/AME-Reference-Type/services/Match?wsdl>



Request XML Structure

Below are the key nodes in the SOAP XML request schema

NODE	MEANING	MANDATORY?
<USERID>	AME user id	Y
<PWD>	AME password	Y
<LANGUAGE>	ISO language code (refer to page 1)	Y
<COUNTRYCODE>	ISO country code (refer to page 1)	Y
<AUTODESCTHRESHOLD>	Numeric value between 0 to 10, use to set the <MATCHED> node of the Response	
<MAXRESULTS>	Maximum number of candidates to be returned	Y
<TRANSACTIONUID>	Transaction ID, can be any value	Y
<BUSINESSNAME>	Company Name	Y
<FULLADDRESS>	Full Address	
<POSTALCODE>	Postal (zip) code	
<TELEPHONENUMBER>	Telephone Number	

XML Request Sample:

```
<?xml version="1.0" encoding="UTF-16" ?>
- <ns1:AME xmlns:ns1="http://reftype.ame.dnb.com/schema/2009/Request">
  - <ns1:BILLINGINFO>
    - <ns1:AME>
      <ns1:USERID>userid</ns1:USERID>
      <ns1:PWD>pwd</ns1:PWD>
    </ns1:AME>
  </ns1:BILLINGINFO>
  - <ns1:MATCHDATA>
    <ns1:LANGUAGE>JAPN</ns1:LANGUAGE>
    <ns1:COUNTRYCODE>JP</ns1:COUNTRYCODE>
    <ns1:AUTODESCTHRESHOLD>7</ns1:AUTODESCTHRESHOLD>
    <ns1:MAXRESULTS>1</ns1:MAXRESULTS>
    <ns1:TRANSACTIONUID>TEST-ONLY</ns1:TRANSACTIONUID>
  - <ns1:INQUIRY>
    <ns1:BUSINESSNAME>日立国際電気</ns1:BUSINESSNAME>
    <ns1:FULLADDRESS>東京都千代田区外神田4-14-1UDXビル11階</ns1:FULLADDRESS>
    <ns1:POSTALCODE>1010021</ns1:POSTALCODE>
    <ns1:TELEPHONENUMBER>52095931</ns1:TELEPHONENUMBER>
  </ns1:INQUIRY>
  </ns1:MATCHDATA>
</ns1:AME>
```



Response XML Structure

Below are the key nodes in the SOAP XML response schema

NODE	MEANING
< DUNS>	DUNS Number of Matched Company
< BUSINESSNAME_ORG>	Unparsed Company Name
< ADDRESS_ORG>	Unparsed Company Address
< POSTALCODE>	Postal (zip) code
< TELEPHONENUMBER>	Telephone Number
<OOB>	Indicator if Matched Company is Inactive or not (Y/N)
 	Indicator if Matched Company is Branch or not (Y/N)
< MATCHGRADE>	An 11 character string that describes the quality of the match*
<CONFIDENCECODE>	A numeric value of 0 to 10 that indicates the level of certainty that the matched company matches the inquiry*
<MDP>	A 20 character string that describes the matched company *
<MATCHED>	Will be set on Y or N if the confidence code is equal or greater the value specified in the <AUTODESCTHRESHOLD> node of request XML

*Your D&B Sales contact can provide a more comprehensive description of these fields

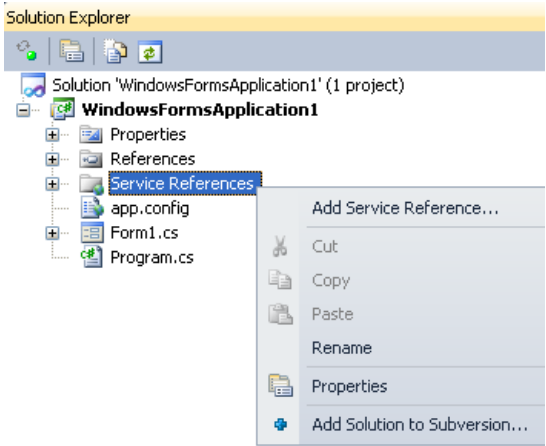
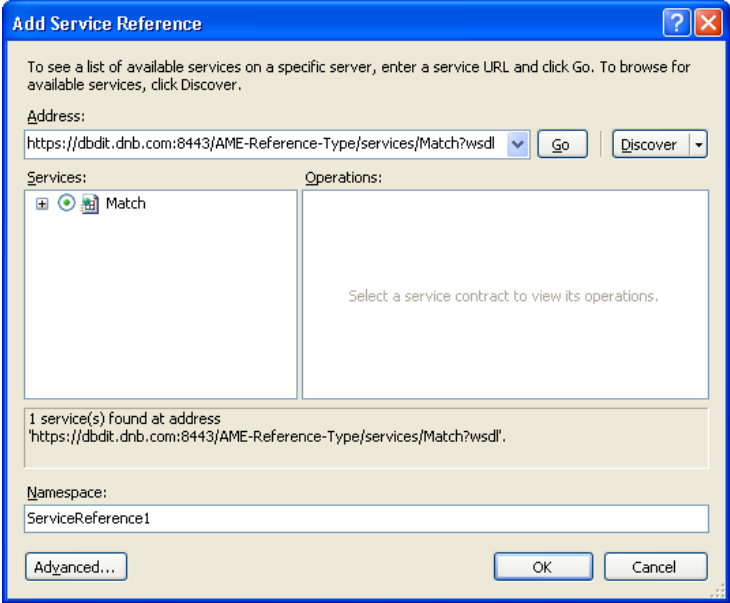
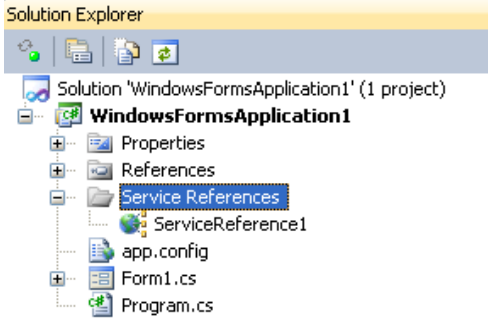


XML Response Sample:

```
- <ns2:AME xmlns:ns2="http://reftype.ame.dnb.com/schema/2009/Response">
- <ns2:MATCHDATA>
  <ns2:COUNTRY>JP</ns2:COUNTRY>
  <ns2:LANGUAGE>JAPN</ns2:LANGUAGE>
  <ns2:AUTODESCTHRESHOLD>7</ns2:AUTODESCTHRESHOLD>
  <ns2:MAXRESULTS>1</ns2:MAXRESULTS>
  <ns2:TRANSACTIONUID>TEST-ONLY</ns2:TRANSACTIONUID>
  <ns2:AMETRANSACTIONUID />
- <ns2:INQUIRY>
  <ns2:BUSINESSNAME>日立国際電気</ns2:BUSINESSNAME>
  <ns2:FULLADDRESS>東京都千代田区外神田4-14-1UDXビル11階</ns2:FULLADDRESS>
  <ns2:POSTALCODE>1010021</ns2:POSTALCODE>
  <ns2:TELEPHONENUMBER>52095931</ns2:TELEPHONENUMBER>
</ns2:INQUIRY>
- <ns2:CANDIDATES>
- <ns2:CANDIDATE>
  <ns2:DUNS>690539135</ns2:DUNS>
  <ns2:BUSINESSNAME>日立国際電気</ns2:BUSINESSNAME>
  <ns2:BUSINESSNAME_ORG>(株)日立国際電気</ns2:BUSINESSNAME_ORG>
  <ns2:ADDRESS_ORG>外神田4-14-1秋葉原UDXビル11F</ns2:ADDRESS_ORG>
  <ns2:ADDRESSSTREETNUMBER />
  <ns2:ADDRESSSTREET />
  <ns2:ADDRESSCITY>千代田区</ns2:ADDRESSCITY>
  <ns2:ADDRESSSTATE>東京都</ns2:ADDRESSSTATE>
  <ns2:POSTALCODE>101-0021</ns2:POSTALCODE>
  <ns2:TELEPHONENUMBER>0352095931</ns2:TELEPHONENUMBER>
  <ns2:OOB>N</ns2:OOB>
  <ns2:BR>N</ns2:BR>
  <ns2:MATCHGRADE>AAAAAZFAZFA</ns2:MATCHGRADE>
  <ns2:CONFIDENCECODE>8</ns2:CONFIDENCECODE>
  <ns2:MDP>00-00-00-00-00-98-00</ns2:MDP>
  <ns2:MATCHED>Y</ns2:MATCHED>
</ns2:CANDIDATE>
</ns2:CANDIDATES>
</ns2:MATCHDATA>
</ns2:AME>
```



C# Integration Example*

<p>In a new application project (here a C# Windows Application), create a new "Service Reference":</p>	 <p>The screenshot shows the Solution Explorer for a project named 'WindowsFormsApplication1'. The 'Service References' folder is selected, and a context menu is open with the 'Add Service Reference...' option highlighted.</p>
<p>Enter the WSDL information, and click "OK" button to add the reference.</p>	 <p>The 'Add Service Reference' dialog box is shown. The 'Address' field contains 'https://dbdit.dnb.com:8443/AME-Reference-Type/services/Match?wsdl'. The 'Discover' button is clicked, and the 'Services' list shows one service named 'Match'. The 'Namespace' field is set to 'ServiceReference1'. The 'OK' button is highlighted.</p>
<p>Visual Studio will create a new Service Reference called "ServiceReference1".</p>	 <p>The screenshot shows the Solution Explorer after the service reference has been added. The 'Service References' folder now contains a sub-folder named 'ServiceReference1'.</p>



Developer can now start coding against the WSDL using the objects which are now built into the IDE.

```
private void button1_Click(object sender, EventArgs e)
{
    ameComplexType ctype = new ameComplexType();

    ctype.BILLINGINFO = new billingComplexType();
    ctype.BILLINGINFO.Item = new ameBillingComplexType();
    ctype.BILLINGINFO.Item.USERID = "USERID";
    ctype.BILLINGINFO.Item.PWD = "PWD";

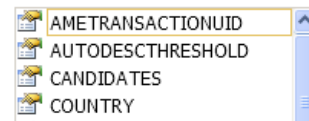
    string fullAddress = "東京都千代田区外神田 4 - 1 4 - 1";

    ctype.MATCHDATA = new matchDataComplexType()
    {
        COUNTRYCODE = matchDataComplexTypeCOUNTRYCODE.JP,
        LANGUAGE = matchDataComplexTypeLANGUAGE.JAPN,
        MAXRESULTS = 1,
        AUTODESCTHRESHOLD = 5,
        TRANSACTIONUID = "TEST",

        INQUIRY = new inquiryComplexType()
        {
            BUSINESSNAME = "日立国際電気",
            Item = fullAddress,
            POSTALCODE = "1010021",
            TELEPHONENUMBER = "52095931",
        }
    };

    MatchClient client = new MatchClient();
    ameComplexType1 response = client.match(ctype);

    response.MATCHDATA.
```



* **Note:** The sample code was developed using Visual Studio 2010 IDE.

What else is needed?

Every communication with AME includes a **username & password** in the request. Speak to your D&B Sales contact about getting a test ID.

Getting more information or assistance

The “**AME FAQ**” contains answers to many common questions about AME.

Ask your D&B Sales contact if you need specific help with any aspect of using AME. Chances are there is a sample, demo or guide that can help you to integrate D&B’s unique Asian Entity Matching into your systems quickly and efficiently.