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Oracle Insurance

Insbridge Enterprise Rating

SoftData User Guide

For Java

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SUPPORT

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PREFACE

Welcome to the *Oracle Insurance Insbridge Enterprise Rating SoftData for Java Guide* This guide describes the usage and supported features of Oracle Insurance Insbridge Enterprise Rating Enterprise Rating SoftData for Java (SoftData). SoftData is a feature of Oracle Insurance Insbridge Enterprise Rating SoftRater Server (IBSS) that that allows you to retrieve values dynamically from SoftRater Packages. Soft Data is available from the IBSS Menu Tree.
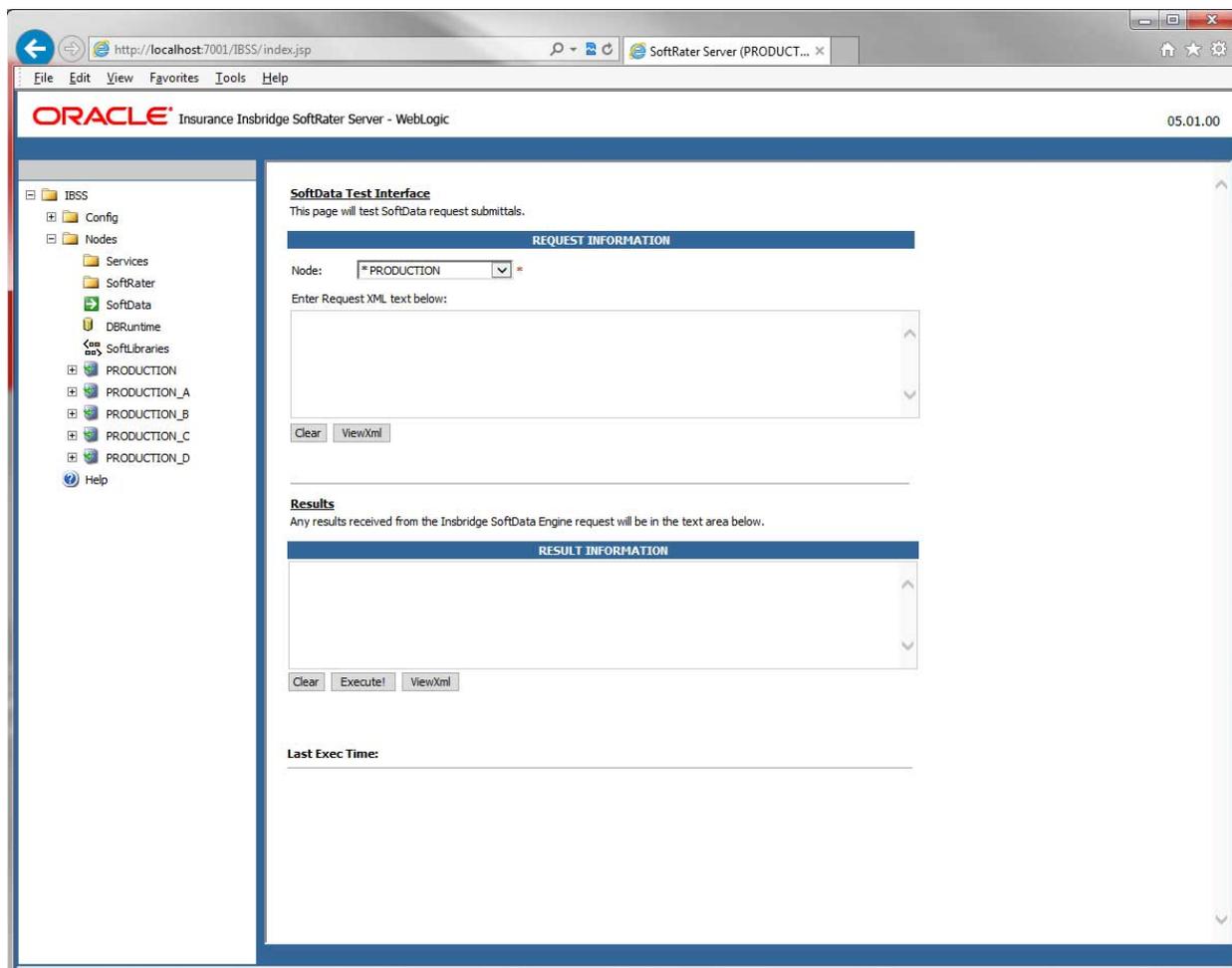
This guide serves as a supplemental document to the Insbridge SoftRater Server Guide. It provides a reference for developers to properly interact with the SoftData Engine either through SOAP, POST Web Services Interface (WSI) or Direct EJB Interfacing.

AUDIENCE

This guide is intended for system administrators who are tasked with administering SoftRater Server. A fundamental knowledge of SoftRater is required. Readers of this document should be familiar with XML, HTTP and the corresponding platforms; either WebLogic, WebSphere or JBoss.

RELATED DOCUMENTS

For more information, refer to the following Oracle resources:

- The Oracle Insurance Insbridge Enterprise Rating RateManager User Guide.

- The Oracle Insurance Insbridge Enterprise Rating SoftRater User Guide.

- You can view these guides in-line at this address:

  http://www.oracle.com/technetwork/documentation/insurance-097481.html

CONVENTIONS

The following text conventions are used in this document:

Convention	Description
bold	Boldface type indicates graphical user interface elements associated with an action.
Italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`Monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

SYSTEM REQUIREMENTS

For minimum operating system and hardware requirements, please see the Hardware Software requirements guide.

Manual History

New editions incorporate any updates issued since the previous edition.

Edition	Publication Number	Product Version	Publication Date	Comment
1st Edition	P01-773-01	V 3.8.8	February 2008	
2nd Edition	P01-773-02	V 3.11	February 2009	
3rd Edition	P01-773-03	V 3.12	July 2009	
4th Edition	P01-773-04	V 3.13	December 2009	

5th Edition	P01-773-05	R 4.0	April 2010	

5th Edition	P01-773-05	R 4.0	April 2010	
6th Edition	P01-773-06	R 4.0.1	August 2010	Update Release
7th Edition	P01-773-07	R 4.1	December 2010	Update Release
8th Edition	P01-773-08	R 4.5	May 2011	Update Release
9th Edition	P01-773-09	R 4.5.1	September 2011	Update Release
10th Edition	P01-773-10	R 4.6	May 2012	Update Release
11th Edition	P01-773-11	R 4.6.1	November 2012	Update Release
12th Edition	P01-773-12	R 4.7	September 2013	Update Release
13th Edition	P01-773-13	R 4.8	August 2014	Update Release
14th Edition	P01-773-14	R 4.9	December 2014	Update Release
15th Edition	P01-773-15	R 5.0.1	August 2015	Update Release
16th Edition	P01-773-16	R 5.1	December 2015	Update Release

INTRODUCTION TO SOFTDATA

SoftData is a method designed to provide the maximum amount of integration flexibility while maintaining a high level of operational efficiency for rules and rating applications. It allows an application to dynamically retrieve values from SoftRater Packages (SRPs) so that values do not have to be hard coded into an application.

For example, if you had a web-based application that allowed a consumer or agent to request a quote, SoftData calls could be used to fill in drop down text boxes with valid values. This allows the same application to be used across multiple states and carriers. It also prevents duplicate data entry, reducing the chance of making a costly mistake.

The core foundation is based on enumerated mappings to program based data elements built through the RateManager application. The schema model uses single character mapping node items, i.e. <m>, <q>, <i>, etc., which provide efficient document processing while gaining the system benefits of an extremely low XML document weight for small storage and faster transmission.

There are two parts to a SoftData call, the data request and the data result. For more information on these, see the following:

- Insbridge.XML Data Request Format

- InsbridgeData.XML Result Format

Concept Diagram

The diagram below shows the high level interaction between the client application and the SoftData system. The SoftRater instance is responsible for all rating and underwriting processing but SoftData interface provides all the services for program data inquiry. The basic functionality of the SoftData system is demonstrated below. Input data is sent to the SoftData instance, processed and output data is returned.
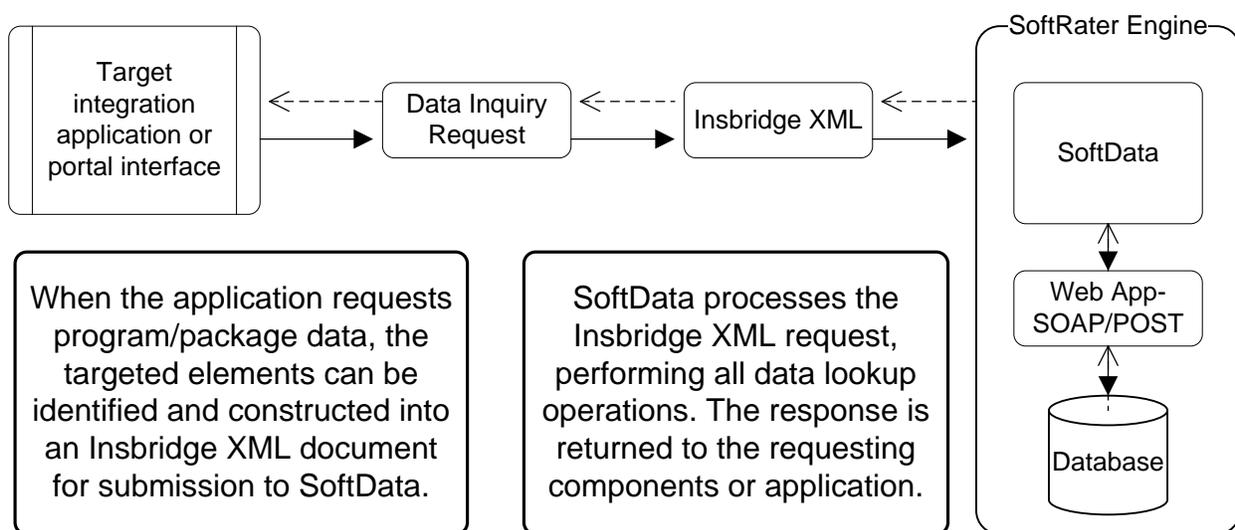
SOFTWARE INTEGRATION

SoftData is an EJB component hosted in the Application Server and accessible through the following software integration methods.

1. **HTTP SOAP Proxy** – SoftRater Web Service – WSDL documents can be found in IBSS. From the WSDL documents, proxy classes can be generated to communicate with the installed SoftRater instance. The SoftData Web Service WSDL can be found on the IBSS→SoftData Version 1→ Get WSDL Files. Also included is a sample SoftData SOAP proxy class.

NOTE: *In IBSS, WebSphere returns different menu options than WebLogic or JBoss for the Get WSDL Files link.*

Whether sample SoftDataProxy class is used or a new one is generated from the WSDL interface, the integrating application must call the (setEndPoint) method to set the target hosting URL for the SoftRater instance. The target hosting URL may vary according to platform. Please refer to the SoftData Administrator page for the target hosting URL.

2. **HTTP POST** – A lite weight Web Service Interface JSP page is provided as an interface for clients with just web form POST abilities. The URL to the POST interface may vary according to platform. Please refer to the SoftData Administrator page (IBSS→SoftData Version 1) for the URL to the POST interface.

3. **EJB** – Direct JNDI interfacing.

   The EJB interfaces for creating service clients which are used to create SoftRater instances.

   Typical JNDI Path – This value will be difference for each platform:
   ```
   WebSphere - ejb/com/insbridge/softdata/SoftDataHome
   WebLogic - ejb.SoftDataEJBRemoteHome
   JBoss - IBSS/SoftDataEJB/local
   ```

   Target JAR – `SoftRaterEJB.jar` is a part of the SoftRater.EAR file* that you downloaded. It contains the following standard EJB 2.0 interface files.

   - SoftData – Remote interface for Enterprise Bean
   - SoftDataBean – Bean implementation class for Enterprise Bean
   - SoftDataHome – Home interface for Enterprise Bean

   *The SoftRater.EAR file depends upon your selected platform.

Interface Example:

```java
package com.insbridge.softdata;

import java.rmi.RemoteException;

/**
 * Remote interface for Enterprise Bean: SoftRater
 */
public interface SoftData extends javax.ejb.EJBObject
{
        public String GetMapData (          final String  XMLInput,
                                            final String  TargetEnvironment
                                            )

        throws RemoteException;


        public void ResetConfigInfo() throws RemoteException;

        public String getDefaultPath() throws RemoteException;

        public String getVersion() throws RemoteException;

        public String QueryAvailableEnvironments() throws RemoteException;

}
```

Arguments

The SoftRater engine rating arguments control the handling of XML data out of the system. For optimal performance use the following options, if possible, for your rating integration.

- String XMLInput – InsbridgeData.XML (Request) document containing the target data program data and lookup variables to be inquired against.

- String TargetEnvironment – (Optional) – Name of the SoftRater datasource environment to which the request should be processed against. If not provided the default will be obtained from the required target program data in the InsbridgeData.XML (Request).

Quick Summary

The basic required settings for specific data requests are.

- All requests must have project_id, parent_id and date mask.

- env_def can be left off. The environment selected from the drop down is used by default. If rating to any other environment an env_def is required. If rating using web services, an env_def is required.

- Qualifiers are required.

- Operators for global versioning report must in the same order as the program.

- Locals require: id #, ver#, table var id#, revision#, product_id#

- Globals require: id=0, ver=0, table var#, revision#, product_id#

- Universals require: id=0, ver=0 table var#, revision#, product_id=0

- Global versioning report requires: id#, ver=0, table var#, revision=0

In certain situations, more information may be required.

Chapter 2

INSBRIDGE.XML DATA REQUEST FORMAT

InsbridgeData.XML is designed to provide the maximum amount of integration flexibility while maintaining a high level of operational efficiency for rules and rating applications. The core foundation is based on enumerated mappings to program based data elements built through the RateManager application. The schema model uses single character mapping nodes items i.e. "<m>,<q>,<i>, etc" that provides efficient document processing while gaining the system benefits of an extremely low XML document weight for small storage and faster transmission.

InsbridgeDataRequest.XML is the format in which requests are sent to SoftData. The table below outlines the nodes and attributes and whether or not they are required.

ELEMENT	DATA TYPE	DESCRIPTION	REQUIRED
<ibdoc>		Insbridge document namespace node. This is the requesting server, not the responding server.	Y
<datarequest>		Data request node	Y
project_id	Long	The project identification number	Y
env_def	String	SoftRater Explorer environment identifier	N
<program>		Program target node	Y
parent_id	Long	Your company's subscriber ID	Y
datastore_id	Long	SoftRater Explorer managed subscriber's identification number– this is rarely used and not required.	N
id	Long	Program identification number. Global = 0 Universal = 0	Y
ver	Long	Program version number. Global = 0 Universal = 0 If the program version specified is not found, the variable revision will be used.	Y
datemask	String	Date mask to use for any date queries	Y
<m>		Table lookup variable node	N
i	Long	Lookup variable identification number	Y
r	Short	Lookup variable revision number **NOTE:** Leaving this field may result in unexpected results. Only local values may be returned.	Y
product_id	Long	The product identification number	Y
p	Long	Lookup variable data row position to start querying new data from	N
c	Long	Lookup variable total count of data rows to be returned	N

n	Any	Lookup variable description	N
fq	String	Returns a list of qualifiers filtered by the string value. Use commas to separate, (1,5,7)	N
empty_qual	Long	Returns empty fields. The default is 0. 0=DO NOT return empty fields. 1=Return empty fields This is an optional field. This is an optional field. Results are turned to the highest 10 value. For example, 8 qualifiers shows 10 25 qualifiers shows 30, 41 shows 50.	N
<q>		Lookup variable qualification node	N
i	Long	Qualifier query identification number	Y
t	Long	Qualifier query type number: 0 – Integer, 1 – String, 2 – Decimal, or 3 – Date.	Y
v	Any	Qualifier query value	Y
o	String	Qualifier query operation selection	Y
w	Int	Wildcard indicator	N

Figure 1 InsbridgeDataRequest.XML Table

The following is an example of an InsbridgeData request XML document:

Example

```
<ibdoc>
    <datarequest project_id="1" env_def="appServ02">
      <program parent_id="8659" id="1" ver="4" datemask='mm/dd/yyyy'>
          <m i="10" r="1" product_id="101" n="BI_Limit_per_Occurrence"/>
          <m i="10" r="1" p="28" c="10" product_id="101" n="BI_Limit_Factor">
              <q i="2" t="0" v="75287" o="="/>
              <q i="4" t="1" v="Dallas" o="="/>
          </m>
      </program>
    </datarequest>
</ibdoc>
```

Figure 2 Example Insbridge Data Request.XML

Global Variable Data Request

To obtain a global variable data result, the program node requires that the id be set to zero (0) and version attribute be set to zero (0). On the table lookup node, the identification node must be set to the XML id found in RateManager, a revision ID and the product ID must be entered.

ELEMENT	DATA TYPE	DESCRIPTION	REQUIRED
<ibdoc>		Insbridge document namespace node. This is the requesting server, not the responding server.	Y
<datarequest>		Data request node	Y
project_id	Long	The project identification number	Y
env_def	String	SoftRater Explorer environment identifier	N
<program>		Program target node	Y
parent_id	Long	Your company's subscriber ID	Y
datastore_id	Long	SoftRater Explorer managed subscriber's identification number– this is rarely used and not required.	N
id	Long	Program identification number must be set to 0. This indicates a global variable data request.	Y
ver	Long	Program version number must be 0. This indicates a global variable data request.	Y
datemask	String	Date mask to use for any date queries	Y
<m>		Table lookup variable node	N
i	Long	Lookup variable identification number must be 0. This indicates a global variable.	Y
r	Short	Lookup variable revision number **NOTE:** Leaving this field may result in unexpected results. Only local values may be returned.	Y
product_id	Long	The product identification number	Y
p	Long	Lookup variable data row position to start querying new data from	N
c	Long	Lookup variable total count of data rows to be returned	N
n	Any	Lookup variable description	N
fq	String	List of qualifier filter	N

		Returns empty fields. The default is 0. 0=DO NOT return empty fields. 1=Return empty fields This is an optional field. This is an optional field. Results are turned to the highest 10 value. For example, 8 qualifiers shows 10 25 qualifiers shows 30, 41 shows 50.	
empty_qual	String		N
<q>		Lookup variable qualification node	N
i	Long	Qualifier query identification number	Y
t	Long	Qualifier query type number: 0 – Integer, 1 – String, 2 – Decimal, or 3 – Date.	Y
v	Any	Qualifier query value	Y
o	String	Qualifier query operation selection	Y
w	Int	Wildcard indicator	N

Example

```
<ibdoc>
    <datarequest project_id="1" env_def="appServ02">
      <program parent_id="8659" id="0" ver="0" datemask='mm/dd/yyyy'>
          <m i="74" r="1" product_id="101" n="BI_Limit_per_Occurrence"/>
          <m i="74" r="1" p="28" c="10" product_id="101" n="BI_Limit_Factor">
              <q i="2" t="0" v="75287" o="="/>
              <q i="4" t="1" v="Dallas" o="="/>
          </m>
      </program>
    </datarequest>
</ibdoc>
```

Figure 3 Example Insbridge Global Data Request.XML

Universal Variable Data Request

To obtain a universal variable data result, the program node requires that the id be set to the program XML id found in RateManager and version attribute be set to zero (0). On the table lookup node, the identification node must be set to zero (0).

ELEMENT	DATA TYPE	DESCRIPTION	REQUIRED
<ibdoc>		Insbridge document namespace node. This is the requesting server, not the responding server.	Y
<datarequest>		Data request node	Y
project_id	Long	The project identification number	Y
env_def	String	SoftRater Explorer environment identifier	N
<program>		Program target node	Y
parent_id	Long	Your company's subscriber ID	Y
datastore_id	Long	SoftRater Explorer managed subscriber's identification number– this is rarely used and not required.	N
id	Long	Program identification number must be set to 0. This indicates a universal variable data request.	Y
ver	Long	Program version number must be 0. This indicates a universal variable data request.	Y
datemask	String	Date mask to use for any date queries	Y
<m>		Table lookup variable node	N
i	Long	Lookup variable identification number must be 0. This indicates a global variable.	Y
r	Short	Lookup variable revision number\n\n**NOTE:** Leaving this field may result in unexpected results. Only local values may be returned.	Y
product_id	Long	The product identification number must be set to zero (0). This indicates a universal variable data request.	Y
p	Long	Lookup variable data row position to start querying new data from	N
c	Long	Lookup variable total count of data rows to be returned	N
n	Any	Lookup variable description	N
fq	String	List of qualifier filter	N

		Returns empty fields. The default is 0. 0=DO NOT return empty fields. 1=Return empty fields This is an optional field. This is an optional field. Results are turned to the highest 10 value. For example, 8 qualifiers shows 10 25 qualifiers shows 30, 41 shows 50.	
empty_qual	String		N
<q>		Lookup variable qualification node	N
i	Long	Qualifier query identification number	Y
t	Long	Qualifier query type number: 0 – Integer, 1 – String, 2 – Decimal, or 3 – Date.	Y
v	Any	Qualifier query value	Y
o	String	Qualifier query operation selection	Y
w	Int	Wildcard indicator	N

Example

```
<ibdoc>
    <datarequest project_id="1" env_def="appServ02">
      <program parent_id="8659" id="0" ver="0" datemask='mm/dd/yyyy'>
          <m i="74" r="1" product_id="0" n="BI_Limit_per_Occurrence"/>
          <m i="74" r="1" p="28" c="10" product_id="0" n="BI_Limit_Factor">
              <q i="2" t="0" v="75287" o="="/>
              <q i="4" t="1" v="Dallas" o="="/>
          </m>
      </program>
    </datarequest>
</ibdoc>
```

Figure 4 Example Insbridge Universal Data Request.XML

Global Versioning for the Program

To obtain the global versioning for the program, the program node requires that the id be set to the program XML id found in RateManager and version attribute be set to zero (0). On the table lookup node, the identification node must be set to zero (0) and the product ID must be included.

Operators for global versioning report must in the same order as the program. For example, if your program uses the effective date to determine what program version should be run and the date values are listed as less than (q1) and greater than (q2). You need to list those values in the request as less than first and greater than second.

```
<ibdoc>
    <datarequest project_id="201" env_def=" appServ02 ">
      <program parent_id="101" id="3" ver="0" datemask="mm/dd/yyyy">
          <m i="1" r="0" n="Program Versioning" product_id="201">
              <q i="1" v="08/01/2016" o="&lt;=" t="3" w="1"/>
              <q i="2" v="08/01/2016" o="&gt;=" t="3" />
          </m>
      </program>
    </datarequest>
</ibdoc>
```

SUMMARY

- To request data from multiple program data sources you can include 1 – N number of program nodes in the <datarequest> node.

- To request data from multiple table variables you can include 1 – N mapping nodes in the <program> target node.

- To request global variable data, the program node requires that the id and version attributes both be set to zero. On the table lookup node, the identification node must be set to the program XML id found in RateManager, the revision and the product id must be included.

- To request universal variable data, the program node requires that the id and version attributes both be set to zero. On the table lookup node, the product id must be set to zero and the identification node must be set to the program XML id found in RateManager and the revision must be included.

- The Insbridge Published Program Summary Report, part of the SoftRater Package Listing Details View from Insbridge Framework Administrator, provides a list all available table variables for a program including the qualifiers needed to query data for the variable successfully. It will also have information on the qualifier and result variable data types and information on whether the table variable returns multiple results (RateManager-Linked Table Variables) for every item row.

- Qualifier Types are enumerated as follows:
    - 0 = Integer
    - 1 = String
    - 2 = Decimal
    - 3 = Date

- Valid Qualifier Operators are entered as follows.

=	Equals
<	Less than
>	Greater than
<=	Less than or equal to
>=	Greater than or equal to
<>	Not equal to

Environments

If submitting via web services, an environment must be specified in the request.

If using the IBSS SoftData tester, the environment must be selected from the drop down node option. An environment can be specified in the request. If an environment is specified, the environment selected in the dropdown is not used. If no environment is selected an error message is presented.

Chapter 3

INSBRIDGEDATA.XML RESULT FORMAT

InsbridgeDataResults.XML is the format that results are received in from a data request. The table below shows the information returned.

ELEMENT	DATA TYPE	DESCRIPTION	ADDITIONAL INFORMATION
<ibdoc>		Insbridge document namespace node. This is the requesting server, not the responding server.	
gen_date	Datetime	Document creation time stamp	
timespan	String	Time to process the request	
site_location	String	The name of the physical server	
<dataresults>		Data result node	
project_id	Long	The project identification number	
env_def	String	SoftRater Explorer Environment Identifier	
<program>		Program selected node	
parent_id	Long	Your company's subscriber ID	
id	Long	Program identification number	
ver	Long	Program version number	
<m>		Table lookup variable node	One node is returned for each corresponding node in the data request
i	Long	Lookup variable identification	
r	Short	Lookup variable identification revision number	
product_id	Long	The product identification number	
p	Long	Last data item row position retrieved	
c	Long	Lookup variable total count of data nodes returned	
n	Any	Lookup variable description request from the input	
l	Boolean	Lookup variable flag indicating if the result contains linked results	

<d>		Data node	One node is returned for each row returned
p	Long	Data row position indicator	
<v>	Any	Value node (Multiple are returned for linked table variables)	One node is returned for each variable
<q>	Any	Lookup variable qualification node	One node is returned for each qualifier

Figure 5 InsbridgeDataResults.XML

An example data result is shown below.

Example

```
<ibdoc gen_date="2/10/2015 1:25:28 PM" timespan="0.0250000" site_location="DB003" xmlns="">
    <dataresults project_id="1" env_def=" SR_win">
      <program parent_id="8659" id="35" ver="2">
        <m i="10" r="2" n="BI_Limit_per_Occurrence" l="true" product_id="101">
          <d p="1">
              <v>100/200</v>
              <v>Our_Standard_Limit</v>
              <v>L100</v>
              <q>100</q>
          </d>
          <d p="2">
               <v>300/400</v>
              <v>Optional_Limit</v>
              <v>L200</v>
              <q>200</q>
          </d>
          <d p="3">
              <v>200/300</v>
              <v>Highest_Limit</v>
              <v>L300</v>
              <q>300</q>
          </d>
        </m>
        <m i="10" r="2" p="28" c="10" n="BI_Limit_Factor" l="true" product_id="101">
          <d p="1">
              <v>0.001</v>
              <q>75025</q>
              <q>Plano</q>
              <q>Collin</q>
              <q>Texas</q>
          </d>
          <d p="2">
              <v>0.235</v>
              <q>75025</q>
              <q>Plano</q>
```

```
                <q>Collin</q>
                <q>Texas</q>
            </d>
            <d p="3">
                <v>0.906</v>
                <q>75025</q>
                <q>Plano</q>
                <q>Collin</q>
                <q>Texas</q>
            </d>
        </m>
    </program>
  </dataresults>
</ibdoc>
```

Figure 6 Example InsbridgeDataResults.XML

Figure 7 Table Variable Report on Queried Table

SUMMARY

- For each target program node there is one selected program node supplied in the <dataresults> node. Each <program> contains all queried table variables and data for that program.

- Table lookup variable nodes with the linked variable flag l=true contain 1 – N value nodes <v> for each data <d> row node returned. The values in the <v> nodes are assigned respective to the order determined during variable setup in (RateManager – Linked/Table Variables) and listed in the Insbridge Published Program Summary Report.

Chapter 4

COMMON ERRORS

There are some common errors that may be returned with a request.

Unable to Validate Document against Schema

This error results from a required value not being submitted in the request.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_IBSS">
      <program parent_id="8659" id="1" ver="4" datemask='mm/dd/yyyy'>
          <m i="10" r="1" n="BI_Limit_per_Occurrence" product_id="101"/>
          <m i="10" r="1" p="28" c="10" n="BI_Limit_Factor" product_id="101">
              <q i="2" v="75287" o="="/>
              <q i="4" v="Dallas" o="="/>
          </m>
      </program>
    </datarequest>
</ibdoc>
```

RETURNED

> Qualifier data type attribute 't' is required!

In this example, the qualifier type ("t" value) was not submitted in the lookup variable qualification node. To correct the error in this example, a "t" value needs to be added:

```
<q i="2" t="0" v="75287" o="="/>
<q i="4" t="1" v="Dallas" o="="/>
```

Unexpected Token

This error results from an unexpected character or incorrect spacing being in the request. The character or spacing is non-compliant with the expected format and may appear in any line in the request. The character (token) and the location may be defined in the message. You may also receive this error for a carriage return at the end of the request.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_IBSS">
      <program parent_id="8659" id="1" ver="4" datemask='mm/dd/yyyy'>
          <m i="10" r="1" n="BI_Limit_per_Occurrence" product_id="101"/>
          <m i="10" r="1" p="28" c="10" n="BI_Limit_Factor" product_id="101">
```

```
        <q i="2" t="0" v="75287" o="="/>
        <q i="4" t="1" v="Dallas" o="="/>
     </m>
   </program>
 </datarequest>
</ibdoc>
```

RETURNED

Error on line 6: Open quote is expected for attribute "{1}" associated with an element type "v".

In this example, on line 6 position 12 a quotation mark has been rejected. The quotation mark is in an unacceptable font. To correct the error in this example, new quotation marks must be used.

```
        <q i="2" t="0" v="75287" o="="/>
        <q i="4" t="1" v="Dallas" o="="/>
```

System Exception

This error results from a request being sent to a SoftRater for Java engine and the application server has not been started.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_WEBLOGIC>
      <program parent_id="8659" id="1" ver="3" datemask='mm/dd/yyyy'>
          <m i="1" r="1" n="BIBaseRate" product_id="101"/>
      </program>
    </datarequest>
</ibdoc>
```

RETURNED

Environment connection target not found. [//connection[@name= 'SR_WEBLOGIC']]

In this example, the request was sent to a WebLogic application server. WebLogic could not be found. To correct the error in this example, you must start the application server or request the system administrator to start the application server.

No Data

A request that does not contain any information or error message may be because the table variable is a global or the wrong table has been queried.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_WEBLOGIC">
      <program parent_id="8659" id="1" ver="4" datemask='mm/dd/yyyy'>
```

```
        <m i="16" r="1" product_id="101"/>
      </program>
    </datarequest>
</ibdoc>
```

RETURNED

```
<ibdoc gen_date='2012-10-12 11:51:06 PM'>
    <dataresult project_id="1" env_def='SR_WEBLOGIC'>
        <program parent_id='8659' id='1' ver='4'>
        </program>
    </dataresult>
</ibdoc>
```

In this example, the request was for a table variable that did not exist in this program. To correct the error in this example, the table variable id needs to be verified.

```
        <m i="6" r="1" product_id="101"/>
```

No Data for a Global Variable

A request for a global variable that does not contain any information or error message may be because the request is not formatted correctly. Global variables belong to all programs in the subline and cannot be identified by program version. To obtain a global variable data result, the program node requires that the id be set to the program XML id found in RateManager and version attribute be set to zero. On the table lookup node, the identification node must be set to 0.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_WEBLOGIC">
      <program parent_id="8659" id="1" ver="2" datemask='mm/dd/yyyy'>
        <m i="0" r="1" product_id="101"/>
      </program>
    </datarequest>
</ibdoc>
```

RETURNED

```
<ibdoc gen_date='2012-10-12 11:51:06 PM'>
    <dataresult project_id="1" env_def='SR_WEBLOGIC'>
        <program parent_id='8659' id='1' ver='4'>
        </program>
    </dataresult>
</ibdoc>
```

In this example, the request was for a global table variable. To correct the error in this example, the version must be changed to 0.

```
    <program parent_id="8659" id="1" ver="0" datemask='mm/dd/yyyy'>
```

Invalid Object Name

This error results from the table not being found for the subscriber and product or project.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="Production">
       <program parent_id="8647" id="29" ver="1" datemask='mm/dd/yyyy'>
           <m i="4" r="1" n="BI Territory Factor" product_id="101"/>
           <m i="4" r="1" p="5" c="2" n="PD Territory Code" product_id="101">
               <q i="1" t="0" v="8" o="="/>
               <q i="1" t="0" v="11" o="="/>
           </m>
       </program>
    </datarequest>
</ibdoc>
```

RETURNED

> DB Error: Invalid object name 'DT18647'.

In this example a request was made against the auto line in the "Production" environment. When the query was made, the requested table could not be found. To correct the error in this example, verify that the package has been loaded to the proper environment and that the correct subscriber and product or projects were used.

```
<program parent_id="8659" id="29" ver="1" datemask='mm/dd/yyyy'>
```

Bad Format

Bad format errors occur when the submitted format does not meet the required format. The error message may give the line and position of the error.

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_WEBLOGIC">
       <program parent_id="8659" id="0" ver="0" datemask='mm/dd/yyyy'>
           <m i="6" r="1" product_id="101">
       </program>
    </datarequest>
</ibdoc>
```

RETURNED

Error on line 5: The element type "m" must be terminated by the matching end-tag "".

In this example, an end slash in missing from the table lookup node. To correct the error in this example, a slash needs to be added.

```
<m i="6" r="1" product_id="101"/>
```

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="SR_WEBLOGIC">
      <program parent_id="8659" id="1" ver="4" datemask='mm/dd/yyyy'>
          <m i="10" r="1" n="BI_Limit_per_Occurrence" product_id="101"/>
          <m i="10" r="1" p="28" c="10" n="BI_Limit_Factor" product_id="101">
              <q i="2" " t="0" v="75287" o="="/>
              <q i="4" t="1" v="Dallas" o="="/>
          </m>
      </program>
    </datarequest>
</ibdoc>
```

RETURNED

Error on line 6: Element type "q" must be followed by either attribute specifications, ">" or "/>".

In this example, there is an extra quotation mark (") in front of the t value. To correct this error in this example, remove the extra quotation mark

```
<q i="2" t="0" v="75287" o="="/>
```

Environment Target Not Found

The environment target not found error occurs when the environment is not specified in the request and has not been selected in the environments drop down..

SUBMITTED

```
<ibdoc>
    <datarequest project_id="1" env_def="">
      <program parent_id="8659" id="1" ver="4" datemask='mm/dd/yyyy'>
          <m i="10" r="1" n="BI_Limit_per_Occurrence" product_id="101"/>
          <m i="10" r="1" p="28" c="10" n="BI_Limit_Factor" product_id="101">
              <q i="2" t="0" v="75287" o="="/>
              <q i="4" t="1" v="Dallas" o="="/>
          </m>
      </program>
    </datarequest>
</ibdoc>
```

RETURNED

Dynamic environment target not found. [//connection[@id='8659']]

In this example, an environment needs to be specified in the request or selected from the environments drop down.

```
<datarequest project_id="1" env_def="SR_WEBLOGIC">
```

CONTACTING SUPPORT

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