USER MANUAL – REPORTCHECK WEBSERVICE

**To Consume the Report Check Web Service first Create Report Check Web Service Client**

**Steps to create Report Check Web Service Client**

Kindly perform following steps to create Report Check Web Service Client.

**Step 1**: Create a new Web Service Proxy Client using below WSDL file.

<https://labws.gia.edu/ReportCheck/ReportCheckWS?WSDL>

Note: If you are not able to access above mentioned URL while creating Web Service Client then open wsdl file in Internet Explorer and save the file in local system with extension .wsdl

Then create Proxy client using the saved WSDL file instead of direct WSDL URL.

**Step 2**: Please ensure that you are getting list of all available methods under methods list and click on Finish button to create a web service proxy for Report Check Web Service. The method list is separately specified in Report check Design document.

**Step 3**: Web service is deployed in secure environment. So we need to override the end target point manually with below line.

**myPort.setEndpoint("**[https://labws.gia.edu/ReportCheck/](https://labws.gia.edu/ReportCheck/ReportCheckWSSoapHttpPort)[ReportCheckWS](https://labws.gia.edu/ReportCheck/ReportCheckWS?WSDL)**");**

**Step 4:** Share the IP address of terminals/machines from where the web service will be called with GIA-IT. Also, same IP address should be specified in respective data xml tag as an input.

**Step 5**: Try to invoke processRequest() method by giving proper xml input string. The format of request xml string is separately specified in Report check Design document. On successful call It will results the XML output string.

Note: While executing processRequest() you may come across some Security Certificate Exception. In that case we have to download GIA Security Certificate and have to install it in the environment from where we are executing the proxy object.

Kindly follow following steps to resolve certificate issue in Java environment:

1) Copy GIA certificate to $Java\_Home\jdk\jre\lib\security\ directory

2) Execute following command in command prompt:

keytool -import -trustcacerts -file "$Java\_Home\jdk\jre\lib\security\GIA.cer" -alias GIA\_ALIAS -keystore "$Java\_Home\jdk\jre\lib\security\cacerts"

3) It will ask for the password of the certificate. Kindly enter default password “changeit” and press enter.

4) It will ask to trust the certificate. Kindly enter yes and press enter to install the certificate. Once, certificate is successfully installed you will get message as “Certificate was added to keystore”.

If you are facing problem to connect webservice using direct URL then perform below steps

1. open<https://labws.gia.edu/ReportCheck/ReportCheckWS?WSDL>URL in browser
2. Save this file at any location with any name with wsdl extension. For e.g. MyWebservice.wsdl
3. Open the wsdl file and make below changes.

Replace below schemaLocation

schemaLocation="<http://labws.gia.edu:80/ReportCheck/ReportCheckWS?xsd=1>"

with

schemaLocation="<https://labws.gia.edu/ReportCheck/ReportCheckWS?xsd=1>"

Replace below soap address

<soap:address location="<http://labws.gia.edu:80/ReportCheck/ReportCheckWS>" />

with

<soap:address location="[https://labws.gia.edu/ReportCheck/ReportCheckWS](http://labws.gia.edu:80/ReportCheck/ReportCheckWS)" />

4 Create proxy client using above changed wsdl file instead of direct wsdlurl

**Once the webservice client is successfully created, below details provide the information regarding how to consume each method.**

Table of Contents

1 Functional Overview 5

2 Technical Overview 5

3 Method Details 6

3.1 processRequest() 6

3.2 getReportCheckDateResult() 7

3.3 downloadPDFReport() 11

3.4 getColoredStonePearlResults() 15

4 Image Retrieval Details 17

4.1 Proportion Diagram Retrieval Detail 17

4.2 Plotting Diagram Retrieval Detail 18

# Functional Overview

These web services are used by Clients / Agents of GIA to interact with Horizon system. Using these web services they will get the result which would be same as the report they are receiving from GIA corporate web site report check service.

# Technical Overview

The communication with these web services is happening with the help of XML String objects. These services will accept XML String as an input and will return the XML String to outside world.

Key details are as below:

1. The inbound request XML must have all the necessary parameters for calling specific web services.
2. The outbound response XML will be having Status field, Error field along with its description (if its there) and the result field (holds the actual result data).
3. Web services are exposed to the client as WSDL files so that they can send the requisite XML String and can get the resulting XML String.

Below is a list of error messages that could be there in output XML.

|  |  |
| --- | --- |
| Error Message | Meaning |
| Input XML is invalid | This error message will come when the request XML is invalid |
| Unexpected error occurred while performing operation | This error message will come when something unexpected wrong occurred with web services |
| Maximum number of requests has been exceeded | Maximum number of requests per day has been exceeded by the user |
| IP Address is not valid | IP Address mentioned in the request xml is not configured in GIA database. So, requests from that IP Address will not be served. |

The WSDL file URL is as bellow

https://labws.gia.edu/ReportCheck/ReportCheckWS?WSDL

Also, while creating proxies or web references in .Net or Java environment, user may get some security related exception, then in that case user has to overwrite the URL property with [https://labws.gia.edu/ReportCheck/](https://labws.gia.edu/ReportCheck/ReportCheckWSSoapHttpPort)[ReportCheckWS](https://labws.gia.edu/ReportCheck/ReportCheckWS?WSDL)value to overcome the security related exception.

# Method Details

## processRequest()

This method retrieves the result of the report which would be same as report given by GIA corporate web site report check service.

**Filter Criteria**

* + The status of the stone must be RC
  + The report weight and report number must match exactly with weight and report number provided in hard copy report.

**Input XML String**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_REQUEST>

<HEADER>

<IP\_ADDRESS>\*\*\*</IP\_ADDRESS>

</HEADER>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>\*\*\*</REPORT\_NO>

<REPORT\_WEIGHT>\*\*\*</REPORT\_WEIGHT>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_REQUEST>

**Output XML String**

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

<REPORT\_CHECK\_RESPONSE>

<STATUS>SUCCESS/FAILURE</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE>\*\*\*</ERROR\_CODE>

<ERROR\_MSG>\*\*\*</ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<LENGTH></LENGTH>

<WIDTH></WIDTH>

<DEPTH></DEPTH>

<WEIGHT></WEIGHT>

<REPORT\_NO></REPORT\_NO>

<COLOR></COLOR>

<COLOR\_DESCRIPTIONS></COLOR\_DESCRIPTIONS>

<CLARITY></CLARITY>

<FINAL\_CUT></FINAL\_CUT>

<DEPTH\_PCT></DEPTH\_PCT>

<TABLE\_PCT></TABLE\_PCT>

<CRN\_AG></CRN\_AG>

<CRN\_HT></CRN\_HT>

<PAV\_AG></PAV\_AG>

<PAV\_DP></PAV\_DP>

<STR\_LN></STR\_LN>

<LR\_HALF></LR\_HALF>

<GIRDLE></GIRDLE>

<GIRDLE\_CONDITION></GIRDLE\_CONDITION>

<CULET\_SIZE></CULET\_SIZE>

<POLISH></POLISH>

<SYMMETRY></SYMMETRY>

<FLUORESCENCE\_INTENSITY></FLUORESCENCE\_INTENSITY>

<FLUORESCENCE\_COLOR></FLUORESCENCE\_COLOR>

<KEY\_TO\_SYMBOLS></KEY\_TO\_SYMBOLS>

<REPORT\_TYPE></REPORT\_TYPE>

<REPORT\_DT></REPORT\_DT>

<INSCRIPTION></INSCRIPTION>

<SHAPE></SHAPE>

<REPORT\_COMMENTS></REPORT\_COMMENTS>

<IS\_PDF\_AVAILABLE></ IS\_PDF\_AVAILABLE>

</REPORT\_DTL>

</REPORT\_DTLS>

**<**REPORT\_CHECK**\_**RESPONSE>

**Assumptions**

**Input XML String**

* + 1. <IP\_ADDRESS> tag will have IP address of the sender machine. This will be used for general security issues.
    2. <REPORT\_NO> will have the original report number. Format of this input variable is 9999999999
    3. <REPORT\_WEIGHT> will have the original report weight. Format of this input variable is 99.99

**Output XML String**

* + 1. <ERROR\_DTLS> tag will be having description of the error while processing the request.
    2. <MESSAGE> tag inside <REPORT\_DTL> will contain proper message when report details can not be served. It can be either Report is not returned to client or no match found etc.

.

## getReportCheckDateResult()

For this method user has to provide a Report No, Report Weight and Report Date. The output would consist of Report Nos within the group where the latest Report Date is LATER than the date entered

**Input Parameters**

|  |  |
| --- | --- |
| **Parameter Name** | **Parameter Nature** |
| Report Number | Mandatory |
| Report weight | Mandatory |
| Report Date | Mandatory |

**Filter Criteria**

* + The status of the stone must be RC
  + The report weight and report number must match exactly with weight and report number provided in hard copy report.
  + Maximum for 20 reports you can retrive the result.
  + Report Date should be in the dd/MM/yyyy format.

**Input XML String Structure**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_DATE\_REQUEST>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>\*\*\*</REPORT\_NO>

<REPORT\_WEIGHT>\*\*\*</REPORT\_WEIGHT>

<REPORT\_DATE>\*\*\*</REPORT\_DATE>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_DATE\_REQUEST>

**Output XML String Structure**

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

<REPORT\_CHECK\_DATE\_RESPONSE>

<STATUS>\*\*\*\*</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE>\*\*\*</ERROR\_CODE>

<ERROR\_MSG>\*\*\*</ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE>\*\*\*</MESSAGE>

<REPORT\_NO>\*\*\*</REPORT\_NO>

<REPORT\_DT>\*\*\*</REPORT\_DT>

</REPORT\_DTL>

</REPORT\_DTLS>

</REPORT\_CHECK\_DATE\_RESPONSE>

**Example**

**Input XML String - (With correct Data)**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_DATE\_REQUEST>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT>0.71</REPORT\_WEIGHT>

<REPORT\_DATE>19/08/2008</REPORT\_DATE>

</REPORT\_DTL>

<REPORT\_DTL>

<REPORT\_NO>2101436789</REPORT\_NO>

<REPORT\_WEIGHT>1.25</REPORT\_WEIGHT>

<REPORT\_DATE>19/08/2008</REPORT\_DATE>

</REPORT\_DTL>

<REPORT\_DTL>

<REPORT\_NO>1109061153</REPORT\_NO>

<REPORT\_WEIGHT>1.2</REPORT\_WEIGHT>

<REPORT\_DATE>19/08/2008</REPORT\_DATE>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_DATE\_REQUEST>

**Output XML String**

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

<REPORT\_CHECK\_DATE\_RESPONSE>

<STATUS>SUCCESS</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE></ERROR\_CODE>

<ERROR\_MSG></ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT>0.71</REPORT\_WEIGHT>

<REPORT\_DT>14/05/2009</REPORT\_DT>

</REPORT\_DTL>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<REPORT\_NO>2101436789</REPORT\_NO>

<REPORT\_WEIGHT>1.25</REPORT\_WEIGHT>

<REPORT\_DT>20/11/2008</REPORT\_DT>

</REPORT\_DTL>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<REPORT\_NO>1109061153</REPORT\_NO>

<REPORT\_WEIGHT>1.20</REPORT\_WEIGHT>

<REPORT\_DT>19/08/2008</REPORT\_DT>

</REPORT\_DTL>

</REPORT\_DTLS>

</REPORT\_CHECK\_DATE\_RESPONSE>

**Input XML String – (**With SC stone and latest Report Date is earlier than the date entered **)**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_DATE\_REQUEST>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT>0.71</REPORT\_WEIGHT>

<REPORT\_DATE>01/01/2009</REPORT\_DATE>

</REPORT\_DTL>

<REPORT\_DTL>

<REPORT\_NO>1109014899</REPORT\_NO>

<REPORT\_WEIGHT>1.01</REPORT\_WEIGHT>

<REPORT\_DATE>01/01/2009</REPORT\_DATE>

</REPORT\_DTL>

<REPORT\_DTL>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT>0.71</REPORT\_WEIGHT>

<REPORT\_DATE>09/09/2009</REPORT\_DATE>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_DATE\_REQUEST>

**Output XML String**

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

<REPORT\_CHECK\_DATE\_RESPONSE>

<STATUS>SUCCESS</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE></ERROR\_CODE>

<ERROR\_MSG></ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT>0.71</REPORT\_WEIGHT>

<REPORT\_DT>14/05/2009</REPORT\_DT>

</REPORT\_DTL>

<REPORT\_DTL>

<MESSAGE>The item is still undergoing service by GIA. Once service is complete and the item returned, report date will be displayed.</MESSAGE>

<REPORT\_NO>1109014899</REPORT\_NO>

<REPORT\_WEIGHT></REPORT\_WEIGHT>

<REPORT\_DT></REPORT\_DT>

</REPORT\_DTL>

<REPORT\_DTL>

<MESSAGE>Match not found</MESSAGE>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT></REPORT\_WEIGHT>

<REPORT\_DT></REPORT\_DT>

</REPORT\_DTL>

</REPORT\_DTLS>

</REPORT\_CHECK\_DATE\_RESPONSE>

**Input XML String – (Invalid date format dd/MM/yy)**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_DATE\_REQUEST>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>2101726425</REPORT\_NO>

<REPORT\_WEIGHT>0.71</REPORT\_WEIGHT>

<REPORT\_DATE>01/01/09</REPORT\_DATE>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_DATE\_REQUEST>

**Output XML String**

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

<REPORT\_CHECK\_DATE\_RESPONSE>

<STATUS>FAILURE</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE>E005</ERROR\_CODE>

<ERROR\_MSG>Invalid Report Date. Report Date should be dd/MM/yyyy format for Report No :2101726425</ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS/>

</REPORT\_CHECK\_DATE\_RESPONSE>

**Assumptions**

**Input XML String**

* + - <REPORT\_NO> will have the original report number. Format of this input variable is 9999999999
    - <REPORT\_WEIGHT> will have the original report weight. Format of this input variable is 99.99

**Output XML String**

* + - <ERROR\_DTLS> tag will be having description of the error while processing the request. `
    - <MESSAGE> tag inside <REPORT\_DTL> will contain proper message when report details can not be served. It can be either Report is not returned to client or no match found etc.

## Output Report Date will be in the dd/MM/yyyy formatdownloadPDFReport()

Download PDF Report is two stepprocess.

**Step 1:** Verify PDF is available for given report number.

Call processRequest( ) method.

<IS\_PDF\_AVAILABLE> FALSE </IS\_PDF\_AVAILABLE> indicates PDF is not available for given report number.

<IS\_PDF\_AVAILABLE>TRUE</IS\_PDF\_AVAILABLE> indicates PDF is available for given report number.

## Step 2: Download PDF Report.

## Call downloadPDFReport( ) method.

## it will return byte [] of PDF.

**Input Parameters**

|  |  |
| --- | --- |
| **Parameter Name** | **Parameter Nature** |
| Report Number | Mandatory |
| Report weight | Mandatory |

**Filter Criteria**

* + The status of the stone must be RC
  + The report weight and report number must match exactly with weight and report number provided in hard copy report.
  + The Report Type must be DD, DG or CDG type.

**processRequest**() :

**Input XML String**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_REQUEST>

<HEADER>

<IP\_ADDRESS>\*\*\*</IP\_ADDRESS>

</HEADER>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>\*\*\*</REPORT\_NO>

<REPORT\_WEIGHT>\*\*\*</REPORT\_WEIGHT>

</REPORT\_DTL> </REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_REQUEST>

**Output XML String**

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

<REPORT\_CHECK\_RESPONSE>

<STATUS>SUCCESS/FAILURE</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE>\*\*\*</ERROR\_CODE>

<ERROR\_MSG>\*\*\*</ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<LENGTH></LENGTH>

<WIDTH></WIDTH>

<DEPTH></DEPTH>

<WEIGHT></WEIGHT>

<REPORT\_NO></REPORT\_NO>

<COLOR></COLOR>

<COLOR\_DESCRIPTIONS></COLOR\_DESCRIPTIONS>

<CLARITY></CLARITY>

<FINAL\_CUT></FINAL\_CUT>

<DEPTH\_PCT></DEPTH\_PCT>

<TABLE\_PCT></TABLE\_PCT>

<CRN\_AG></CRN\_AG>

<CRN\_HT></CRN\_HT>

<PAV\_AG></PAV\_AG>

<PAV\_DP></PAV\_DP>

<STR\_LN></STR\_LN>

<LR\_HALF></LR\_HALF>

<GIRDLE></GIRDLE>

<GIRDLE\_CONDITION></GIRDLE\_CONDITION>

<CULET\_SIZE></CULET\_SIZE>

<POLISH></POLISH>

<SYMMETRY></SYMMETRY>

<FLUORESCENCE\_INTENSITY></FLUORESCENCE\_INTENSITY>

<FLUORESCENCE\_COLOR></FLUORESCENCE\_COLOR>

<KEY\_TO\_SYMBOLS></KEY\_TO\_SYMBOLS>

<REPORT\_TYPE></REPORT\_TYPE>

<REPORT\_DT></REPORT\_DT>

<INSCRIPTION></INSCRIPTION>

<SHAPE></SHAPE>

<REPORT\_COMMENTS></REPORT\_COMMENTS>

<IS\_PDF\_AVAILABLE></ IS\_PDF\_AVAILABLE>

</REPORT\_DTL>

</REPORT\_DTLS>

**<**REPORT\_CHECK**\_**RESPONSE>

**Example:**

**Input XML:**

<REPORT\_CHECK\_REQUEST>

<HEADER>

<IP\_ADDRESS>\*\*\*\*</IP\_ADDRESS>

</HEADER>

<BODY> <REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>2101973687</REPORT\_NO>

<REPORT\_WEIGHT>3.02</REPORT\_WEIGHT>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_REQUEST>

**Output XML:**

<REPORT\_CHECK\_RESPONSE>

<STATUS>SUCCESS</STATUS>

<ERROR\_DTLS><ERROR\_CODE></ERROR\_CODE>

<ERROR\_MSG></ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<LENGTH>11.09</LENGTH>

<WIDTH>7.92</WIDTH>

<DEPTH>4.58</DEPTH>

<WEIGHT>3.02</WEIGHT>

<REPORT\_NO>2101973687</REPORT\_NO>

<COLOR>\*</COLOR>

<COLOR\_DESCRIPTIONS>[\*], Fancy Intense Yellow, ARTIFICIALLY IRRADIATED Even</COLOR\_DESCRIPTIONS>

<CLARITY>SI1</CLARITY>

<FINAL\_CUT></FINAL\_CUT>

<DEPTH\_PCT>57.8</DEPTH\_PCT>

<TABLE\_PCT>59</TABLE\_PCT>

<CRN\_AG></CRN\_AG>

<CRN\_HT></CRN\_HT>

<PAV\_AG></PAV\_AG>

<PAV\_DP></PAV\_DP>

<STR\_LN></STR\_LN>

<LR\_HALF></LR\_HALF>

<GIRDLE>THK to VTK</GIRDLE>

<GIRDLE\_CONDITION>Faceted</GIRDLE\_CONDITION>

<GIRDLE\_PCT></GIRDLE\_PCT>

<CULET\_SIZE>VSM</CULET\_SIZE>

<POLISH>VG</POLISH><SYMMETRY>G</SYMMETRY>

<FLUORESCENCE\_INTENSITY>STG</FLUORESCENCE\_INTENSITY>

<FLUORESCENCE\_COLOR>Blue</FLUORESCENCE\_COLOR>

<KEY\_TO\_SYMBOLS>Crystal, Needle, Indented Natural, Natural</KEY\_TO\_SYMBOLS>

<REPORT\_TYPE>CDG</REPORT\_TYPE>

<REPORT\_DT>5/04/2011</REPORT\_DT>

<INSCRIPTION>GIA 2101973687, IRRADIATED</INSCRIPTION>

<SHAPE>OB </SHAPE>

<REPORT\_COMMENTS>\*SAMPLE \*SAMPLE \*SAMPLE \*SAMPLE \* This diamond has been artificially irradiated to change its color.</REPORT\_COMMENTS**>**

<IS\_PDF\_AVAILABLE>TRUE</IS\_PDF\_AVAILABLE>

</REPORT\_DTL>

</REPORT\_DTLS>

</REPORT\_CHECK\_RESPONSE>

**downloadPDFReport() :**

**Input XML String:**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_REQUEST>

<HEADER>

<IP\_ADDRESS>\*\*\*</IP\_ADDRESS>

</HEADER>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>\*\*\*</REPORT\_NO>

<REPORT\_WEIGHT>\*\*\*</REPORT\_WEIGHT>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_REQUEST>

**Output : byte[]**



**Note:** downloadPDFReport() method will return byte[] in PDF format. If PDF is available for given report number then it will return byte[] else it will return blank response.

**Assumptions**

**Input XML String**

* + - <REPORT\_NO> will have the original report number. Format of this input variable is 9999999999
    - <REPORT\_WEIGHT> will have the original report weight. Format of this input variable is 99.99

**Output XML String**

* <ERROR\_DTLS> tag will be having description of the error while processing the request.
* <MESSAGE> tag inside <REPORT\_DTL> will contain proper message when

PDF cannot be served. It can be either Report is not returned to client or no match found etc.

* 1. **getColoredStonePearlResults():**

This method retrieves the result of the report which would be same as report given by GIA corporate web site report check service for Colored Diamond Ident & origin, Colored Stones and Pearl results.

**Input Parameters**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Parameter Nature** | **Possible Values** |
| Report Number | Mandatory | Valid Report Number |
| IP Address | Mandatory | Valid IP Address registered for Report Check |

**Filter Criteria**

* + The status of the stone must be RC
  + The report number must match exactly with report number provided in hard copy report.

**Input XML String**

<?xml version="1.0" encoding="UTF8"?>

<REPORT\_CHECK\_REQUEST>

<HEADER>

<IP\_ADDRESS>\*\*\*</IP\_ADDRESS>

</HEADER>

<BODY>

<REPORT\_DTLS>

<REPORT\_DTL>

<REPORT\_NO>\*\*\*</REPORT\_NO>

</REPORT\_DTL>

</REPORT\_DTLS>

</BODY>

</REPORT\_CHECK\_REQUEST>

**Output XML String**

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

<REPORT\_CHECK\_RESPONSE>

<STATUS>SUCCESS</STATUS>

<ERROR\_DTLS>

<ERROR\_CODE></ERROR\_CODE>

<ERROR\_MSG></ERROR\_MSG>

</ERROR\_DTLS>

<REPORT\_DTLS>

<REPORT\_DTL>

<MESSAGE></MESSAGE>

<WEIGHT></WEIGHT>

<REPORT\_NO></REPORT\_NO>

<REPORT\_TYPE> </REPORT\_TYPE>

<REPORT\_DT></REPORT\_DT>

<INSCRIPTION></INSCRIPTION>

<SHAPE></SHAPE>

<REPORT\_COMMENTS>

</REPORT\_COMMENTS>

<LENGTH\_CODE></LENGTH\_CODE>

<WIDTH\_CODE></WIDTH\_CODE>

<DEPTH\_CODE></DEPTH\_CODE>

<IDENT\_TBL\_REPORT\_DT></IDENT\_TBL\_REPORT\_DT>

<IDENT\_TBL\_WEIGHT> </IDENT\_TBL\_WEIGHT>

<IDENT\_TBL\_MEASUREMENTS> </IDENT\_TBL\_MEASUREMENTS>

<IDENT\_TBL\_SHAPE> </IDENT\_TBL\_SHAPE>

<IDENT\_TBL\_CUTTINGSTYLE> </IDENT\_TBL\_CUTTINGSTYLE>

<IDENT\_TBL\_CUTTINGSTYLE\_PAV> </IDENT\_TBL\_CUTTINGSTYLE\_PAV>

<IDENT\_TBL\_CUTTINGSTYLE\_CRN> </IDENT\_TBL\_CUTTINGSTYLE\_CRN>

<IDENT\_TBL\_TRANSPARENCY> </IDENT\_TBL\_TRANSPARENCY>

<IDENT\_TBL\_COLOR> </IDENT\_TBL\_COLOR>

<IDENT\_TBL\_PHENOMENON></IDENT\_TBL\_PHENOMENON>

<IDENT\_TBL\_DESCRIPTION> </IDENT\_TBL\_DESCRIPTION>

<IDENT\_TBL\_GROUP></IDENT\_TBL\_GROUP>

<IDENT\_TBL\_TRADENAME></IDENT\_TBL\_TRADENAME>

<IDENT\_TBL\_SPECIES> </IDENT\_TBL\_SPECIES>

<IDENT\_TBL\_VARIETY> </IDENT\_TBL\_VARIETY>

<IDENT\_TBL\_SOURCETYPE></IDENT\_TBL\_SOURCETYPE>

<IDENT\_TBL\_GEOGRAPHICORIGIN></IDENT\_TBL\_GEOGRAPHICORIGIN>

<IDENT\_TBL\_TREATEMENT></IDENT\_TBL\_TREATEMENT>

<IDENT\_TBL\_COMMENTS></IDENT\_TBL\_COMMENTS>

<IDENT\_TABULAR\_INDICATOR></IDENT\_TABULAR\_INDICATOR>

<IDENT\_NAR\_DESC></IDENT\_NAR\_DESC>

<IDENT\_NAR\_CONCLUSION></IDENT\_NAR\_CONCLUSION>

<IDENT\_NAR\_COMMENTS></IDENT\_NAR\_COMMENTS>

<MEASUREMENTS></MEASUREMENTS>

<PEARLS></PEARLS>

<ENVIRONMENT></ENVIRONMENT>

<MOLLUSK></MOLLUSK>

<TREATMENTS></TREATMENTS>

<BODYCOLOR></BODYCOLOR>

<OVERTONE></OVERTONE>

<LUSTER></LUSTER>

<SURFACE></SURFACE>

<NACRETHICKNESS></NACRETHICKNESS>

<MATCHING></MATCHING>

<REPORT\_DESCRIPTION></REPORT\_DESCRIPTION>

<GENERAL\_DESC></GENERAL\_DESC>

<IS\_PDF\_AVAILABLE> </IS\_PDF\_AVAILABLE>

<TREATMENT\_URLS></TREATMENT\_URLS>

<MATERIAL></MATERIAL>

</REPORT\_DTL>

</REPORT\_DTLS>

</REPORT\_CHECK\_RESPONSE>

**Assumptions**

**Input XML String**

* + - 1. <IP\_ADDRESS> tag will have IP address of the sender machine. This will be used for general security issues.

2 <REPORT\_NO> will have the original report number. Format of this input variable is

9999999999

**Output XML String**

* + - 1. <ERROR\_DTLS> tag will be having description of the error while processing the request. This tag contains <ERROR\_CODE> and <ERROR\_MSG> to describe particular error.
      2. < REPORT\_DTL> tag inside <REPORT\_DTLS> will contain all details of IDENT/PEARL type stone.

# Image Retrieval Details

* 1. **Proportion Diagram Retrieval Detail:**

This functionality retrieves proportion diagram image. Usershave to pass Image Type, Report Number and IPAddress to get the images.

**Input Parameters**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Parameter Nature** | **Possible Values** |
| Report Number | Mandatory | Valid Report Number |
| Image Type | Mandatory | PROPIMG |
| IP Address | Mandatory | Valid IP Address registered for Report Check |

**Filter Criteria**

* + The status of the stone must be RC
  + Per day 5000 download requests can be served for single IP Address
  + Only available for GIA reports dated after January 1, 2014

**Request URL:**

[https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=**PROPIMG**&reportNo=**<ReportNumber>**&IPAddress=**<IP\_Address**](https://mail.gia.edu/owa/redir.aspx?C=N42-wF0duUeH0g7HvtDM6sN7KRJIL9IIHQSVWp4EQKvgnoWfC3II8_EN2JyzMetJNJnWyxgVz2A.&URL=https%3a%2f%2fmyapps.gia.edu%2fDigitalImageClient%2fgetDigitalImage.do%3fimgType%3dPROPIMG%26reportNo%3d%253cReportNumber%253e%26IPAddress%3d%253cIP_Address)**>**

**Example:**

[**https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=PROPIMG&reportNo=2156791047&IPAddress=\*.\*.\*.\***](https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=PROPIMG&reportNo=2156791047&IPAddress=*.*.*.*)

**Sample HTML Code:**

**<html>**

**<head></head>**

**<body>**

**<img src="https://myapps.gia.edu/DigitalImageClient/getDigitalImage.do?imgType=PROPIMG&reportNo=2156791047&IPAddress=\*.\*.\*.\*">**

**</body>**

**</html>**

**\*Replace** \*.\*.\*.\* **with valid IP Address.**

* 1. **Plotting Diagram Retrieval Detail:**

This functionality retrieves plotting diagram image. Usershave to pass Image Type, Report Number and IPAddress to get the images.

**Input Parameters**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Parameter Nature** | **Possible Values** |
| Report Number | Mandatory | Valid Report Number |
| Image Type | Mandatory | PLOTIMG |
| IP Address | Mandatory | Valid IP Address registered for Report Check |

**Filter Criteria**

* + The status of the stone must be RC
  + Per day 5000 download requests can be served for single IP Address
  + Only available for GIA reports dated after January 1, 2014

**Request URL:**

[https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=**PLOTIMG**&reportNo=**<ReportNumber>**&IPAddress=**<IP\_Address**](https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=PLOTIMG&reportNo=%3cReportNumber%3e&IPAddress=%3cIP_Address)**>**

**Example:**

[**https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=PLOTIMG&reportNo=2156791047&IPAddress=\*.\*.\*.\***](https://myapps.gia.edu//DigitalImageClient/getDigitalImage.do?imgType=PLOTIMG&reportNo=2156791047&IPAddress=*.*.*.*)

**Sample HTML Code:**

**<html>**

**<head></head>**

**<body>**

**<img src="https://myapps.gia.edu/DigitalImageClient/getDigitalImage.do?imgType=PLOTIMG&reportNo=2156791047&IPAddress=\*.\*.\*.\*">**

**</body>**

**</html>**

**\*Replace**\*.\*.\*.\***with valid IP Address.**