## PROJECT

# SV7QCARD JAVA Application

Version 1.0

September 4, 2005

## Version History

Date	Version #	Description	Author
09/05/2005	1.0a	Final Version	Vincent Taylor

#### Introduction

This work request was submitted by SM.

### Scope

Write a Java Application that will connect to the Local IT Hub, extract data, transfer data to the local mainframe, and generate emails to SMEs.

#### **Issues**

None foreseen at this time.

## Dependencies

N/A.

```
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* Author: Vincent Taylor
* Created Sept 2005
* Description: A class to handle Extraction of Cycle Closes from Local Hub.
  Contents: class SV7QCard
* PVCS Revision History:
* $Log: //vmfs/vcs/local/src/java/com/xxxxx/lmrs/file/SV7QCard.j!va $
package com.xxxxx.business.assembly.vip;
import com.dovetail.jzos.*;
import java.io.*;
import javax.xml.soap.*;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.Transformer;
import javax.xml.transform.dom.DOMResult;
import javax.xml.transform.stream.StreamSource;
```

```
public class SV7QCard
 public static void main(String[] args) throws Exception
 java.util.Iterator it1 = null;
 java.util.Iterator it2 = null;
 java.util.Iterator it3 = null;
  String DMA = "0";
  String SSC = "0";
  String DMASSC = "0";
  String SDMA = " ";
try
  //*Get the endpoint address from the ENDPOINT DDNAME control card. *
  //*____*
  char[] buf = new char[100];
  ZFile endPointFile = new ZFile("//DD:ENDPOINT", "r");
   InputStreamReader endPointStreamReader =
      new InputStreamReader(endPointFile.getInputStream(),
ZFile.DEFAULT EBCDIC CODE PAGE);
   int length = endPointStreamReader.read(buf);
   if (length == -1)
   throw new RuntimeException("ENDPOINT DDNAME cannot be opened or contains
nothing.");
   }
   endPointStreamReader.close();
   String endpoint = new String(buf).trim();
   //*____*
  // Create an empty SOAP message. *
   //*____*
   MessageFactory mf = MessageFactory.newInstance();
   SOAPMessage sm = mf.createMessage();
  //*_____*
  //* Accessing 4 Elements of a Message. Its Part, Envelope, Header and Body *
  //* Either to Add Contents or to Retrieive Contents
  //*
```

```
//*____*
   SOAPPart sp = sm.getSOAPPart();
   SOAPEnvelope se = sp.getEnvelope();
   SOAPHeader sh = se.getHeader();
   SOAPBody sb = sm.getSOAPBody();
   // Open the input request file.
   ZFile inFile = new ZFile("//DD:REQUEST", "r");
   InputStreamReader inputStreamReader =
      new InputStreamReader(inFile.getInputStream(),
ZFile.DEFAULT EBCDIC CODE PAGE);
   StreamSource streamSource = new StreamSource(inputStreamReader);
   // Convert the input request file to a SOAP Element and
   // add it to the SOAP Body.
   TransformerFactory transformerFactory = TransformerFactory.newInstance();
   Transformer transformer = transformerFactory.newTransformer();
   DOMResult domResult = new DOMResult(sb);
   transformer.transform(streamSource, domResult):
   //*____*
  //* Get the name of the input XML request type to set the SOAPAction.
  //* Per Local Development standards, the SOAPAction is always the
  //* name of the service/operation. The XML request type name is always *
   //* the service/operation name with "Request" added to the end.
  //* Therefore, strip off "Request" to get the SOAPAction.
  //*_____*
   it1 = sb.getChildElements();
   SOAPElement request = null;
   while (it1.hasNext())
   if (request != null)
    throw new RuntimeException("Input request should contain only one top level request
type.");
   request = (SOAPElement)it1.next();
   String requestName = request.getNodeName();
```

```
int serviceNameLength = requestName.indexOf("Request");
   if (serviceNameLength == -1 ||
     requestName.length() != (serviceNameLength + 7))
     throw new RuntimeException("The name of the input request has to end with
\"Request\".");
     }
   String SoapAction = requestName.substring(0, serviceNameLength);
   // Set the SOAPAction.
   MimeHeaders hds = sm.getMimeHeaders();
   hds.addHeader("SOAPAction", "\"" + SoapAction + "\"");
   // Set additional SOAP Message properties and save changes.
   sm.setProperty(SOAPMessage.WRITE XML DECLARATION, "true");
   sm.saveChanges();
   // Call the service.
   SOAPConnectionFactory factory = SOAPConnectionFactory.newInstance();
   SOAPConnection con = factory.createConnection();
   SOAPMessage responseMessage = con.call(sm, endpoint);
   //*____*
   //* Get the response from the service. *
   //*____*
   SOAPBody responseBody = responseMessage.getSOAPBody();
   //*____*
   //* Check if SOAP Fault received. *
   //*____*
   if (responseBody.hasFault())
    SOAPFault soapFault = responseBody.getFault();
    System.err.println("SOAP Fault received from service:");
    System.err.println(" Fault Actor : " + soapFault.getFaultActor());
    System.err.println(" Fault Code : " + soapFault.getFaultCode());
    System.err.println(" Fault String: " + soapFault.getFaultString());
    throw new RuntimeException("SOAP Fault received from service.");
```

```
//*____*
   //* Get the response. *
   //*____*
   it1 = responseBody.getChildElements();
   SOAPElement response = null;
   while (it1.hasNext())
    if (response != null)
     throw new RuntimeException("Service response should contain only one top level
response type.");
    response = (SOAPElement)it1.next();
   // Returns an it1ator over all the immediate child nodes of this element
   it1 = response.getChildElements();
   //*____*
   //* Set up write variable *
   //*____*
   ZUtil.setDefaultOutputEncoding(ZFile.DEFAULT EBCDIC CODE PAGE);
   ZFile outFile = new ZFile("//DD:RECORDS", "wb,type=record,noseek");
   while (it1.hasNext())
    SOAPElement record = (SOAPElement)it1.next();
    String name = record.getElementName().getLocalName();
    it2 = record.getChildElements();
    while (it2.hasNext())
     SOAPElement child2 = (SOAPElement)it2.next();
     name = child2.getElementName().getLocalName();
     if (name.equals("geographyID"))
            DMA = child2.getValue();
     if (name.equals("samplingServiceCollectionMethodID"))
            SSC = child2.getValue();
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```
it3 = child2.getChildElements();
     while (it3.hasNext())
       SOAPElement child3 = (SOAPElement)it3.next();
       name = child3.getElementName().getLocalName();
       if (name.equals("geographyID"))
         DMA = child3.getValue();
       if (name.equals("samplingServiceCollectionMethodID"))
         SSC = child3.getValue();
         if (SDMA!=DMA)
           DMASSC = DMA + "" + SSC;
           outFile.write(DMASSC.getBytes());
      } //Terminate while it3
     } //Terminate while it2
   //Save DMA value
    SDMA = DMA;
    } //Terminate while it1
   outFile.close();
  } //Terminate Try
  catch(Exception e)
   System.err.println("Caught exception: " + e);
   e.printStackTrace();
   System.exit(16);
  System.err.println("Version 2.0.");
 } //* terminate public static void logic
} //* terminate getRecord program
# This is a shell script which configures # any environment variables for the Java JVM.
# Variables must be exported to be seen by the launcher.
export JZOS HOME=/u/home/nsdvpt/lib/jzos 1.1.2
export JAVA HOME=/usr/lpp/java/J1.4
export LIB HOME=/u/home/nsdvpt/lib
export PATH="${JAVA HOME}"/bin:/bin
```

```
LIBPATH="$LIBPATH":"${JAVA HOME}"/bin
LIBPATH="$LIBPATH":"${JAVA HOME}"/bin/classic
LIBPATH="$LIBPATH":"${JZOS HOME}"
export LIBPATH="$LIBPATH":
# SV7Q jar file.
CLASSPATH="${LIB HOME}"/SV7Q.jar
# Add JZOS required jars to end of CLASSPATH
for i in "${JZOS HOME}"/*.jar; do
  CLASSPATH="$CLASSPATH":"$i"
  done
# Add jwsdp required jars to end of CLASSPATH
for i in "${LIB HOME}/jwsdp 1.4"/*.jar; do
  CLASSPATH="$CLASSPATH":"$i"
  done
export CLASSPATH="$CLASSPATH":
# Set JZOS specific options
# Use this variable to specify encoding for DD STDOUT and STDERR
export JZOS OUTPUT ENCODING=Cp1047
# Use this variable to prevent JZOS from handling MVS operator commands
export JZOS ENABLE MVS COMMANDS=false
# Use this variable to supply additional arguments to main
#export JZOS MAIN ARGS=""
# Configure JVM options
IJO="-Xms16m -Xmx128m"
IJO="$IJO -Djzos.home=${JZOS HOME}"
IJO="$IJO -Djava.endorsed.dirs=${LIB HOME}/jwsdp 1.4"
export IBM JAVA OPTIONS="$IJO "
export JAVA DUMP HEAP=false
export JAVA PROPAGATE=YES
export IBM JAVA ZOS TDUMP=NO
SV7QD01G
com.XXXXXX.business.assembly.vip.SV7QCard
SV7QD11G
```

# This is a shell script which configures

```
# any environment variables for the Java JVM.
# Variables must be exported to be seen by the launcher.
export JZOS HOME=/u/home/nsdvpt/lib/jzos 1.1.2
export JAVA HOME=/usr/lpp/java/J1.4
export LIB HOME=/u/home/nsdvpt/lib
export PATH="${JAVA HOME}"/bin:/bin
LIBPATH="$LIBPATH":"${JAVA HOME}"/bin
LIBPATH="$LIBPATH":"${JAVA HOME}"/bin/classic
LIBPATH="$LIBPATH":"${JZOS HOME}"
export LIBPATH="$LIBPATH":
# SV7Q jar file.
CLASSPATH="${LIB HOME}"/SV7Q.jar
# Add JZOS required jars to end of CLASSPATH
for i in "${JZOS HOME}"/*.jar; do
  CLASSPATH="$CLASSPATH":"$i"
  done
# Add jwsdp required jars to end of CLASSPATH
for i in "${LIB HOME}/jwsdp 1.4"/*.jar; do
  CLASSPATH="$CLASSPATH":"$i"
  done
export CLASSPATH="$CLASSPATH":
# Set JZOS specific options
# Use this variable to specify encoding for DD STDOUT and STDERR
export JZOS OUTPUT ENCODING=Cp1047
# Use this variable to prevent JZOS from handling MVS operator commands
export JZOS ENABLE MVS COMMANDS=false
# Use this variable to supply additional arguments to main
#export JZOS MAIN ARGS=""
# Configure JVM options
IJO="-Xms16m -Xmx128m"
IJO="$IJO -Dizos.home=${JZOS HOME}"
IJO="$IJO -Djava.endorsed.dirs=${LIB HOME}/jwsdp 1.4"
export IBM JAVA OPTIONS="$IJO "
export JAVA DUMP HEAP=false
export JAVA PROPAGATE=YES
```

#### SV7QD21G

http://p60loc.XXXXXX.com:8080/BusinessStandardReference/Services

#### SV7QD31G

```
<?xml version="1.0" encoding="IBM-1047"?>
<getReportingGeographiesBySamplingServiceCollectionMethodRequest</p>
 xmlns="local:XXXXXXX:business:standard:reference">
 <samplingServiceCollectionMethodIDs>
<samplingServiceCollectionMethodID>1</samplingServiceCollectionMethodID>
 </samplingServiceCollectionMethodIDs>
 <samplingServiceCollectionMethodIDs>
<samplingServiceCollectionMethodID>2</samplingServiceCollectionMethodID>
 </samplingServiceCollectionMethodIDs>
 <samplingServiceCollectionMethodIDs>
<samplingServiceCollectionMethodID>3</samplingServiceCollectionMethodID>
 </samplingServiceCollectionMethodIDs>
 <samplingServiceCollectionMethodIDs>
<samplingServiceCollectionMethodID>4</samplingServiceCollectionMethodID>
 </samplingServiceCollectionMethodIDs>
 <samplingServiceCollectionMethodIDs>
<samplingServiceCollectionMethodID>5</samplingServiceCollectionMethodID>
 </samplingServiceCollectionMethodIDs>
 <samplingServiceCollectionMethodIDs>
<samplingServiceCollectionMethodID>6</samplingServiceCollectionMethodID>
 </samplingServiceCollectionMethodIDs>
 <effectiveDates>
<effectiveStartDate>&STARTDT</effectiveStartDate>
<effectiveEndDate>&ENDDT</effectiveEndDate>
 </effectiveDates>
</getReportingGeographiesBySamplingServiceCollectionMethodRequest>
```

#### SV7QD41G

```
%LET NSIDSN = &Q7CARD..VIP&YYMM..CARD7Q;
%LET NHSIDSN =&Q7CARD..NHSI&YYMM..CARD7Q;
%LET DATACLAS = DCKFBLAR;
%LET MGMTCLAS = MCADEFLT;
%LET DISP = (REP,KEEP);
```

#### SV7QD51G

HELO MOTHER

MAIL FROM:<vincent.taylor@XXXXXX.com>

RCPT TO:<Media-LocalProduction7QNotify@XXXXXX.com>

DATA

FROM: Nokomis Processing Center - VIPC7SAS

TO: Media - Local Production 7Q Notify SUBJECT: &CYCLE - LPM MU's Deleted

## SV7QD52

**HELO MOTHER** 

MAIL FROM:<vincent.taylor@nielsen.com>a.com>

RCPT TO:<Media - LocalProduction7QNotify@nielsen.com>om>

DATA

FROM: CIPO VIP Processors - VIPC7SASPC7SAS

TO: Media - Local Production 7Q Notify SUBJECT: &CYCLE - LPM MU's Deleted

## SV7QD53G

**HELO MOTHER** 

MAIL FROM:<peter.bauck@nielsen.com>

RCPT TO:<Media-LocalProduction7QNotify@nielsen.com>

DATA

FROM: CIPO\_VIP\_Processors-VIPC7SAS
TO: Media-LocalProduction7QNotify
SUBJECT: &CYCLE - LPM MU's Deleted