



**RFID Printing via
BEA WebLogic[®] RFID Edge Server
(Java Version)**

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Alternatively, you can consult your nearest authorized SATO technical representative, as listed on the back cover, to obtain the relevant information about printing to SATO RFID printers via BEA WebLogic® RFID Edge Server 2.1 .

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1. Introduction

Users are now able to print to SATO RFID printers via [BEA WebLogic® RFID Edge Server 2.1](#) . The detail configuration can be found from the following URL:

http://e-docs.bea.com/rfid/edge_server/docs21/reader_refsp1/config_use.html#wp490650

This document explains how to print to SATO printers using BEA WebLogic® RFID Edge Server and the SATO utilities tools (Java version).

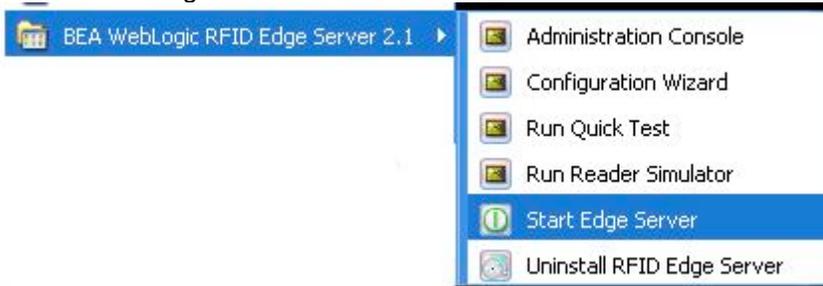
2. Necessary software

- WebLogic® RFID Edge Server 2.1
- SATO Utilities tools for converting label variables
- Jakarta-Tomcat (Version 4.1 or above)
- JDK 1.5 or above
- Internet Explorer (version 6 or above)

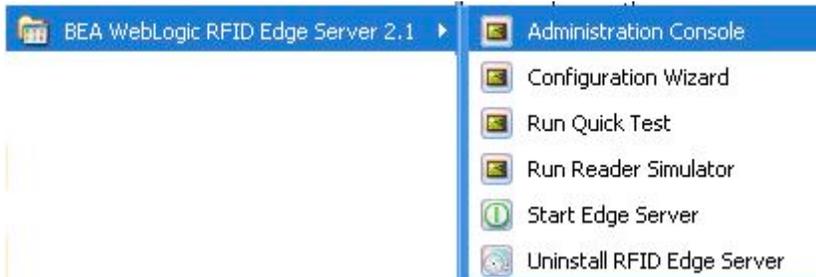
3. Setup

3.1. Launching WebLogic® RFID Edge Server

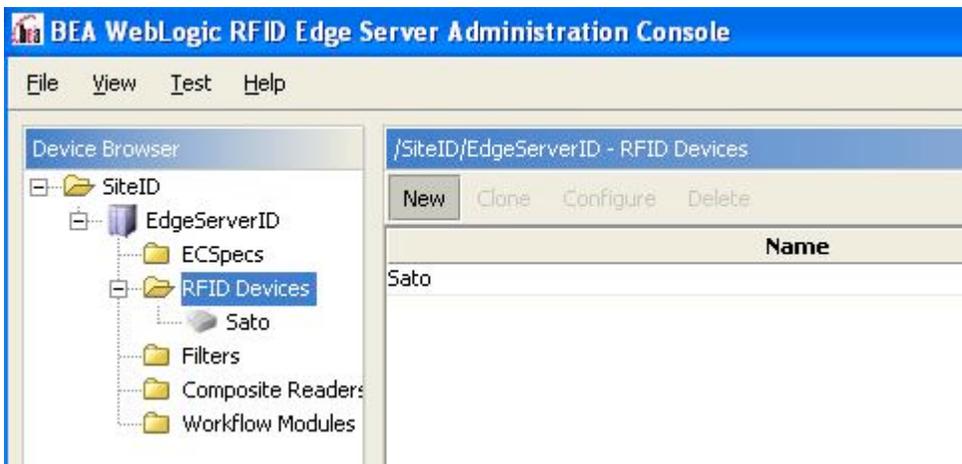
- Launch the Edge Server.



- Launch the Administration Console

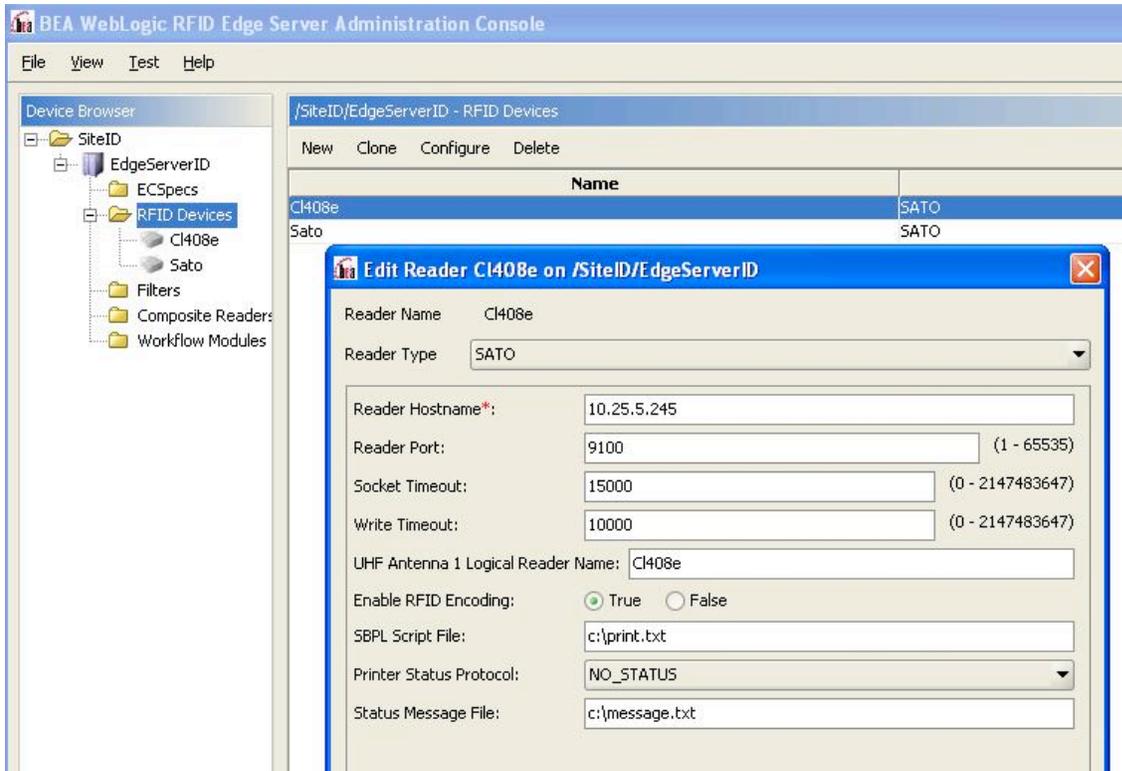


3.2. Setting Up New Device for Edge Server



Click on the “RFID Devices” and then click “New” to open the “Create Reader” window.

Switch on your printer and enter the information to register the new device. Note that Reader Name must not be repeated for the Edge Server to uniquely identify the reader. Please make sure the “Reader Type” must be “SATO”



3.3. PCSpec File

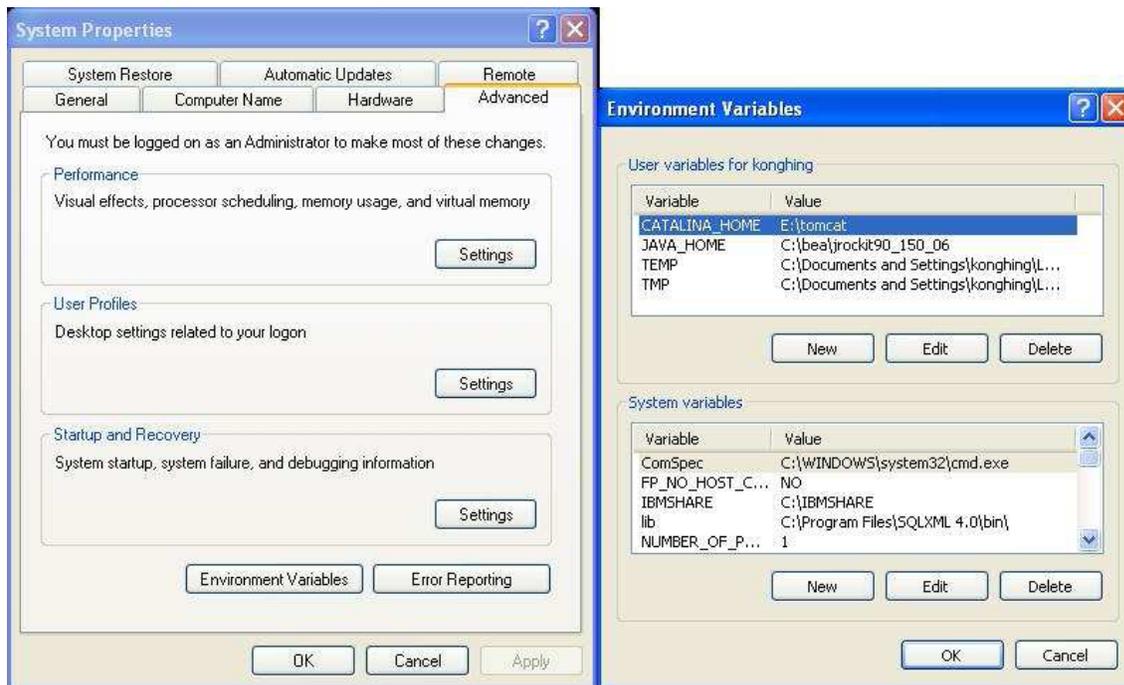
This file is to inform the Edge Server of which reader is to use when printing. The file defines the reader in the XML format. The following is a sample of the PCSpec file.

```
<?xml version="1.0" encoding="UTF-8" ?>
- <!--
  Specifies the various aspects of an ALE programming cycle. A
  programming cycle specification operates in the context of the edge
  server properties, defined in edge.props in the 'etc' directory of the
  Edge Server installation.
-->
- <PCSpec xmlns="http://schemas.connecterra.com/alepc">
- <!--
  Specifies a string to be included in PCWriteReport instances
  generated by this PCSpec.  Optional.
-->
  <applicationData>application specific data can go here</applicationData>
- <logicalReaders>
- <!--
  determines which logical reader will be used by this
  programming cycle.  Logical reader names are defined in edge.props.
-->
  <logicalReader>SATO</logicalReader>
</logicalReaders>
- <boundarySpec>
- <!--
  the boundarySpec determines when this programming cycle starts
  and stops.  Because this sample program uses ALEPC.immediate(), a programming
  cycle starts whenever ALEPC.immediate() is called.
-->
- <!--
  Specifies maximum number of tag writing trials.  Optional,
  default is unlimited number of trials.
-->
  <trials>1</trials>
- <!--
  Specifies maximum number of milliseconds to spend retrying failed
  tag writing operations.  Optional, default is no time limit.
-->
  <duration>4000</duration>
</boundarySpec>
</PCSpec>
```

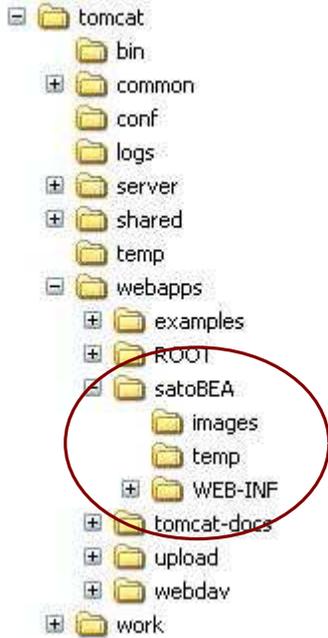
4. Running of Sample Program

Before starting the Tomcat, please make sure the following environment setting is done.

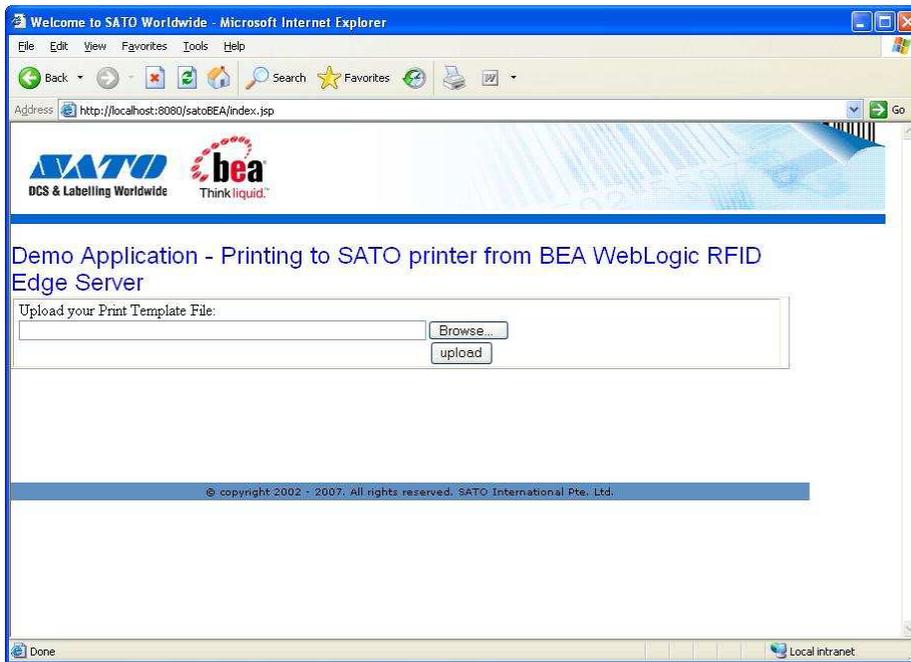
- 1) Right-click on “My computer”->Properties to bring up the system properties. Click “Advanced” and then the “Environment variables”. Enter the paths for “JAVA_HOME” and “CATALINA_HOME”.



2) Put the sample program into the **webapps** directory of Tomcat.



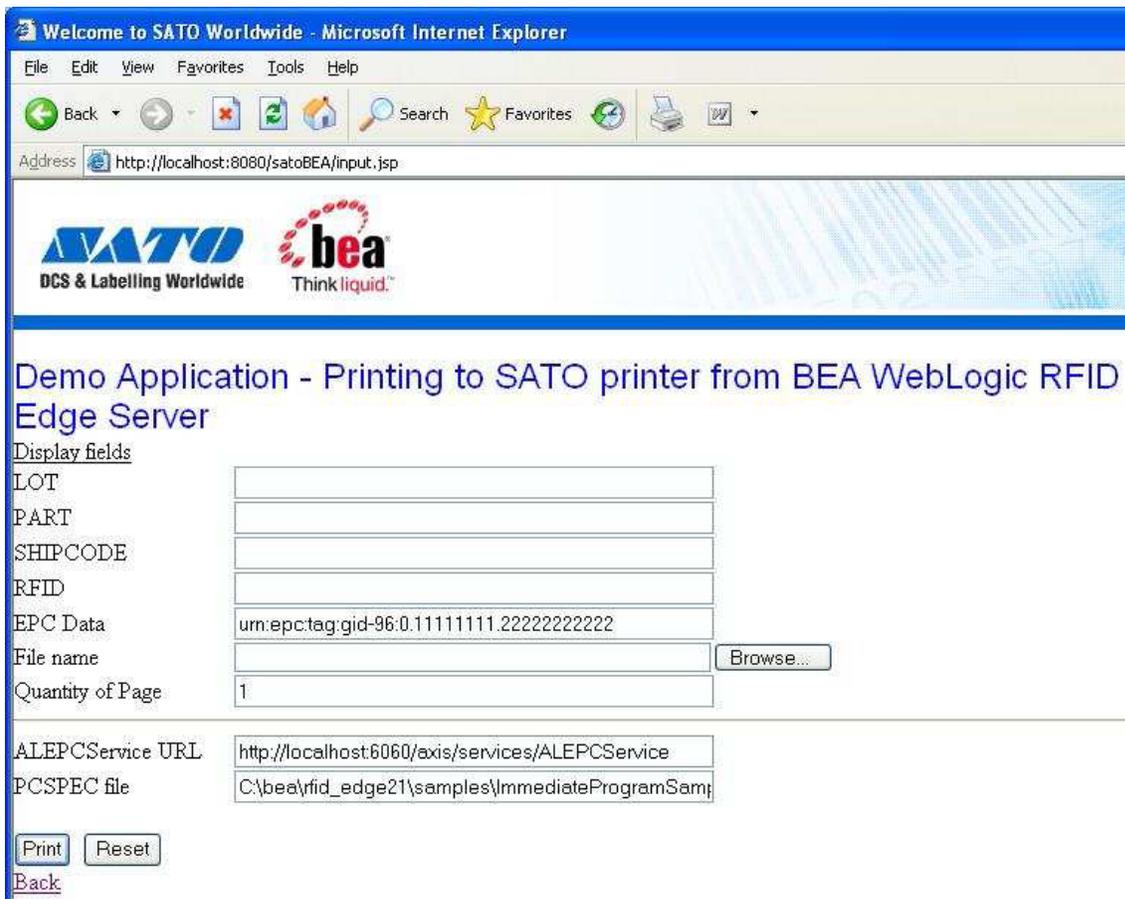
3) Launching the Tomcat by executing the “Startup.bat” at the **../tomcat/bin** directory.



- Click the “Browse” button and select the Label Template file and click the “Upload” button. A sample of the template is provided in the **satoBEA** directory.



- The SATO Utilities will then extract the variable fields from the template and display them on screen. User is to enter values for the variables. The default value for the **IP0 command** has been provided.

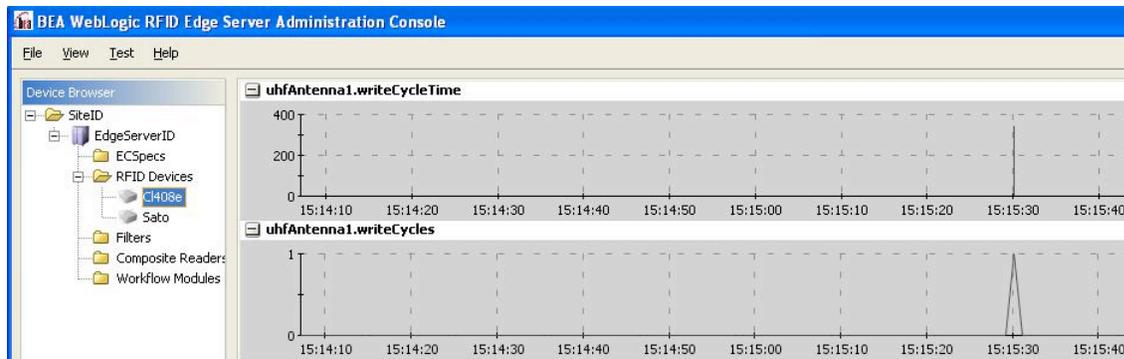


Note: ALEPCService URL is the Web reference to the Edge Server. PCSPEC file is the XML which defined the Reader to be used by the Edge Server, which is described in [Section 3.3 PCSpec.File](#)

File name is the SBPL file which is to be passed BEA Edge Server for sending to printer. It is pre-defined while setting up the device. Please see [section 3.2 Setting Up New Device for Edge Server](#) for more information.



The Administration Console of Edge Server should reflect the traffic of printing data in the graph feature as below:



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