



Web services

Web service support for cab label printers How to create a Java service client with NetBeans



Web Service support for cab Label Printers

valid for following printer types:

A+ -Series [™] XD4[™] Mach 4 [™] PX -Print ModuleSeries [™] Hermes+ XD and XC series printers and all printing systems based on the cab "X2" board furthermore for the EOS series

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How to create a Web Service client with Netbeans



You have to download and install Netbeans (http://www.netbeans.com).

After you start Netbeans you have to create a new project.



In the opened dialog choose a 'Java Desktop Application' and then click on 'Next'.





Next give your application a name and click on 'Finish'.

🗊 New Desktop Applica	tion		
Steps	Name and Location	n	
1. Choose Project 2. Name and Location	Project <u>N</u> ame:	cabWebServic	
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	Application <u>C</u> lass:	cabwebservic	e.CabWebServiceApp
	Choose <u>A</u> pplication	n Shell	
	Basic Applicat Database App	ion lication	A basic application skeleton containing everything needed to start with a general desktop application, such as the following:
•			 main frame with a menu bar and status bar About box
			 main Application class implementation of status bar messages
			and progress indication
			better handle loading of icons and strings
		< <u>B</u> ack	Next > Einish Cancel Help

Next step is to create the Web Service Proxy.

In the project view right click the root element from your project and go to 'New->Web Service Client...'





In the opened dialog choose 'WSDL URL' and type in the IP-address or DNS-name from your cab printer and add '/services.wsdl'. This is the location of the WSDL.

(For EOS printers: http://[printer-IP address or DNS name]/cgi-bin/soap/services.wsdl) Close the dialog by pressing the 'Finish' button.

🗊 New Web Service Clien	t		
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In the next step create your user interface.

You can place the interface objects by drag and drop from the right side to the preview. In our case it's a simple status query, with an input text box, a button and an output text box. To add a click action to the button you have to double click on it.

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\mathbb{Q} Use the Connection Mode button (in the toolbar) to establish a connection between components.	×	Scroll Pane	🔲 Tool Bar	🔁 Desktop Pane	
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In the recent opened dialog choose in the 'Action' pull down menu the 'Create New Action..' Item.

Set Action		
Set jButton2 's action property	using: Default editor	
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		Help

Then you give your new action a method and a button name.

Set Action		□ ×
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Action: Action's <u>C</u> lass: Action's Method:	Create NewAction	•
Action 3 Method.	Background Task	
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In the opened dialog choose the operation in our case 'getPrinterStatus' and click the 'OK' button.







Modify the code to adapt it in your created user interface.

You need the following mandatory methods to send a web service query to the cab printer.

- create the service (Arrow 1)
- open the SOAP binding (Arrow 2)
- call the status web service (Arrow 3)
- At arrow 4 is the documentation of the method.

The status web service need a String with the query parameter(s) and returns a string with the answer. The two strings originatefrom the text boxes in the user interface.

<pre>try { // initialize Web Service de.cab.wsschema.CabPrinterWebService(); de.cab.wsschema.CabPrinterWebService (); de.cab.wsschema.CabPrinterWebService (); de.cab.wsschema.CabPrinterSOAP port = service.getPrinterWebServiceSOAP(); // call Status Web Service 3. this.tStatusOUT.setText(port); catch (Exception ex) { // TODO handle custom exce getTistOfDomats(ListOfFormatsRequest parameters) ListOfFormatsResponse // TODO handle custom exce getTistOfDomats(ListOfFormatsRequest parameters) ListOfFormatsResponse // TODO handle custom exce getTistOfDomats(ListOfFormatsRequest parameters) ListOfFormatsResponse getTistOfDomats(ListOfDomatsRequest parameters) ListOfFormatsResponse intif OfDomat(String parameters) ListOfFormatsResponse intif OfDomat(Cring parameters) ListOfFormatsResponse intif OfDomat(String parameters) ListOfFormatsResponse intif OfDomat(Cring parameters) ListOfFormatsResponse intif() void void</pre>	7	@Action		
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<pre>de.cab.wsschema.LabPrinterSUAP port = service.getPrinterWebServiceSUAP(); // call Status Web Service 3. this.tStatusOUT.setText[port.]; getPrinterStatus(String parameters) String equals(Object arg0) String getClass() Class() getTistOfFormats(ListOfFormatsReequest parameters) ListOfFormatsReeponse getTistOfFormats(ListOfFormats(ListOfFormatsReeponse) ListOfFormatsReeponse getTistOfFormats(ListOfFormats(ListOfFormatsParameters) ListOfFormatsReeponse getTistOfFormats(ListOfFormatsParameters) ListOfFormatsReeponse getTistOfFormats(ListOfFormatsParameters) ListOfFormatsReeponse hashCode() int DadFormat(String parameters) ListOfFormatsParameters) ListOfFormats private javax.swing.Jabe private javax.swing.Jabe private javax.swing.Jabe getTistOfFormats(ListOfFormatsOAP</pre>			2.	
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You see the final code below.



You can test your application now. In the main bar on the top of Netbeans go to 'Run->Run Main Project'.

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You see now your created user interface.

Enter the query message, like 'Generic' in the input text box. Click the button and wait for the response.



An enhanced sample code, including MD5 authorisation is available in the download area of cab's website