

**SAP Composite Application
Framework**



**Configuring GP for
Interactive Forms**



SAP AG
Neurottstraße 16
69190 Walldorf
Germany
T +49/18 05/34 34 24
F +49/18 05/34 34 20
www.sap.com

© Copyright 2005 SAP AG. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, OS/2, Parallel Sysplex, MVS/ESA, AIX, S/390, AS/400, OS/390, OS/400, iSeries, pSeries, xSeries, zSeries, z/OS, AFP, Intelligent Miner, WebSphere, Netfinity, Tivoli, and Informix are trademarks or registered trademarks of IBM Corporation in the United States and/or other countries.

Oracle is a registered trademark of Oracle Corporation.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.

JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.

MaxDB is a trademark of MySQL AB, Sweden.

SAP, R/3, mySAP, mySAP.com, xApps, xApp, SAP NetWeaver, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world. All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

Disclaimer

Some components of this product are based on Java™. Any code change in these components may cause unpredictable and severe malfunctions and is therefore expressly prohibited, as is any decompilation of these components.

Any Java™ Source Code delivered with this product is only to be used by SAP's Support Services and may not be modified or altered in any way.

Typographic Conventions

Icons

Type Style	Represents	Icon	Meaning
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.		Caution
	Cross-references to other documentation.		Example
Example text	Emphasized words or phrases in body text, graphic titles, and table titles.		Note
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.		Recommendation
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.		Syntax
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.		
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.		
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.		

Contents

Business Scenario	2
About This Document	2
Applicable Releases	2
Disclaimer	2
The Step By Step Solution	3
Configure Adobe Document Service (ADS)	3
Creating connection to J2EE server	3
Configuring SLD	6
Configuring ADS	8
Configure receiving of interactive forms	10
Configuring the Interactive Forms Adapters	10
Maintaining Inbox Queue	14
Managing Impersonalized Forms (optional)	16
Configure sending of interactive forms	18
Troubleshooting	18



Business Scenario

You would like to use GP Interactive Forms in your processes for data collection.

About This Document

This tutorial shows you how to configure GP so that you can receive and send interactive forms. To understand how to create and use interactive forms for data collection, you should refer to the Tutorial on using interactive forms.

This tutorial is divided into three parts:

- Configure Adobe Document Service (ADS)
 - o Creating connection to J2EE server
 - o Configuring SLD
 - o Configuring ADS
- Configure receiving interactive forms
 - o Configuring the Interactive Forms Adapters
 - o Maintaining Inbox Queue
 - o Managing Impersonalized Forms
- Configure sending interactive forms

Applicable Releases

This tutorial is compatible with the following release "Beginning with SAP NetWeaver '04s SPS6".

Disclaimer

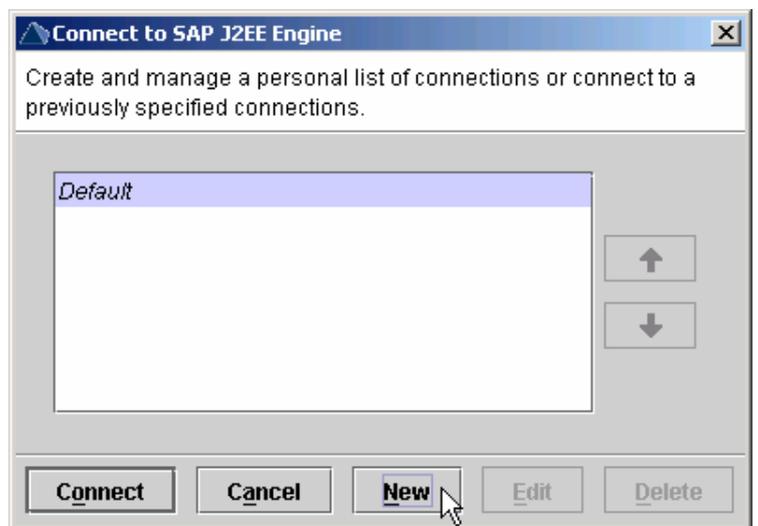
Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, except if such damages were caused by SAP intentionally or grossly negligent.

The Step By Step Solution

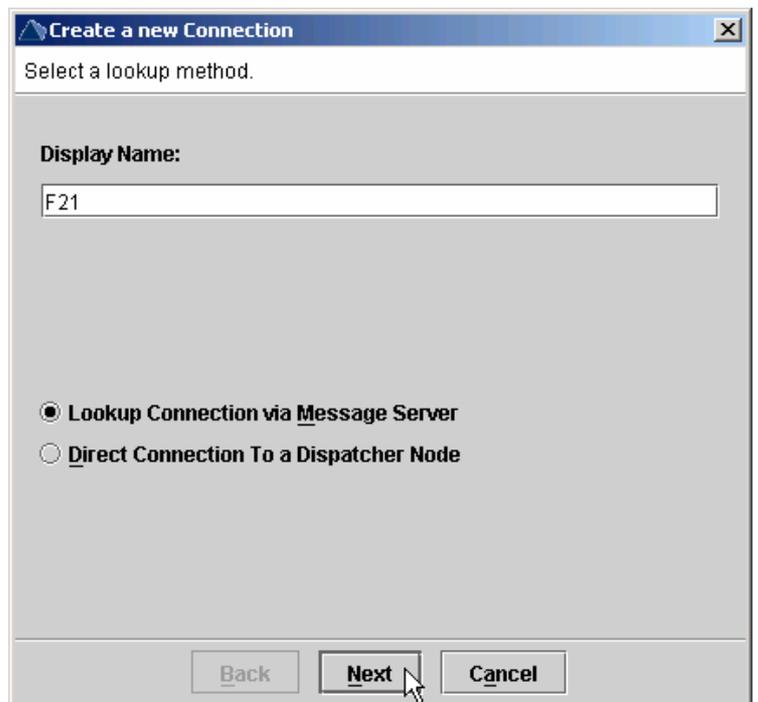
Configure Adobe Document Service (ADS)

Creating connection to J2EE server

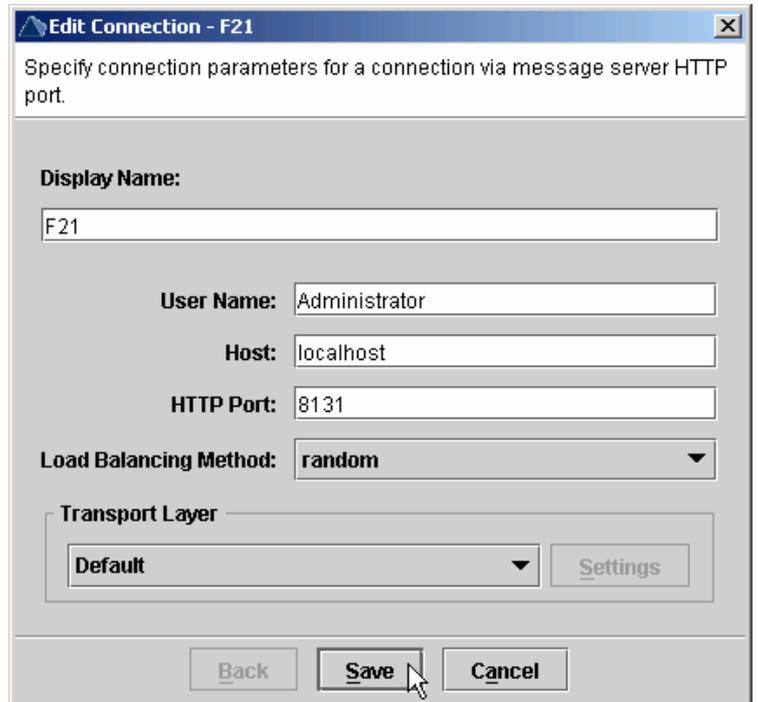
1. Ensure that your J2EE server is already started. Start the **Visual Administrator**. Create a new connection to your server if it is not available.



2. Enter the **Display Name SID** for this new connection. You can choose to connect directly to the server or via a Message Server. We will show you how to connect via the Message Server.



3. Enter the **User Name**, **Host** and **HTTP Port** for the message server.



Edit Connection - F21

Specify connection parameters for a connection via message server HTTP port.

Display Name:
F21

User Name: Administrator

Host: localhost

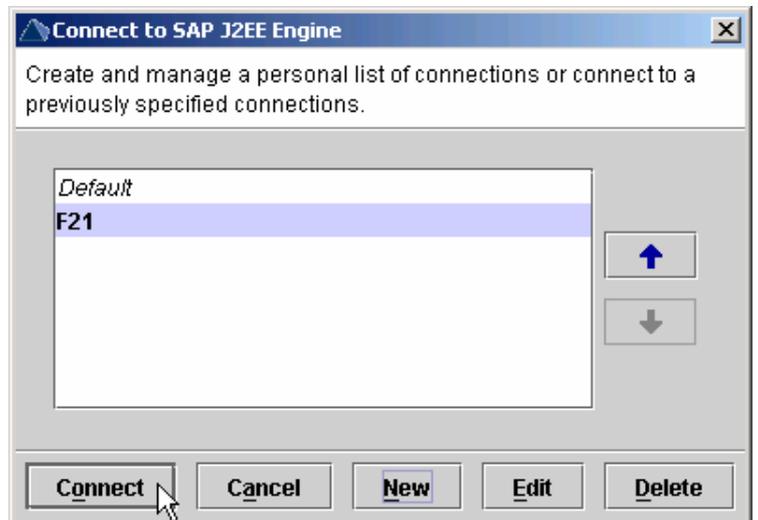
HTTP Port: 8131

Load Balancing Method: random

Transport Layer: Default Settings

Back Save Cancel

4. Select the name of the connection you created and click **Connect**.



Connect to SAP J2EE Engine

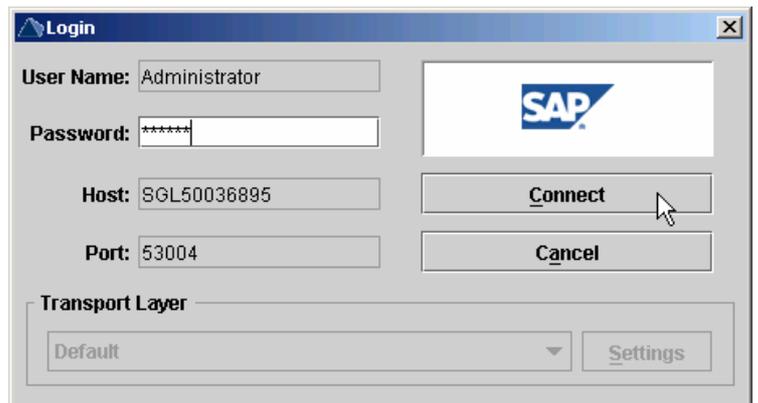
Create and manage a personal list of connections or connect to a previously specified connections.

Default
F21

↑
↓

Connect Cancel New Edit Delete

5. Enter the User Name, Password and click **Connect** to connect to the J2EE server.



Login

User Name: Administrator

Password: *****

Host: SGL50036895

Port: 53004

Transport Layer: Default Settings

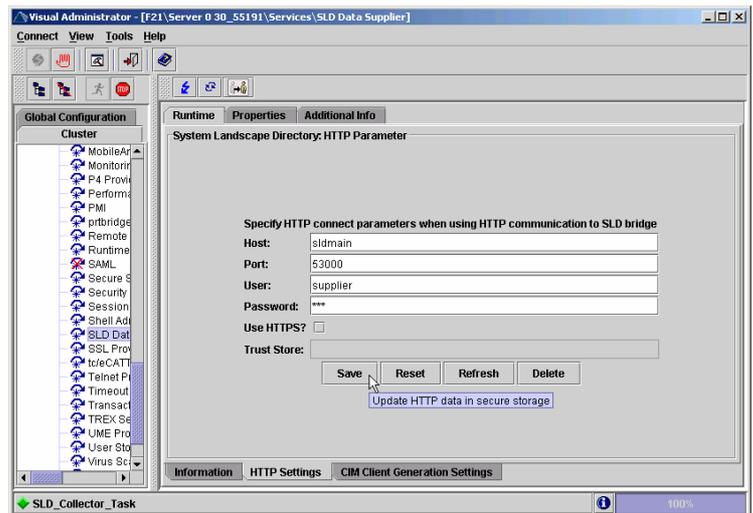
Connect Cancel

THE BEST-RUN BUSINESSES RUN SAP

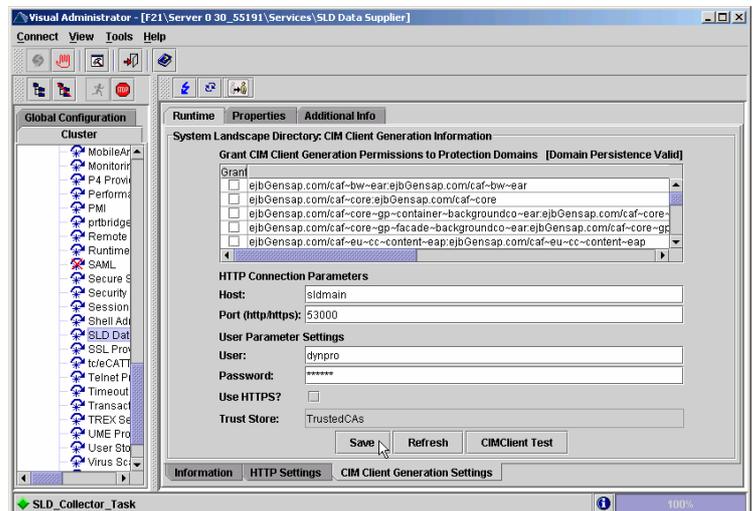


Configuring SLD

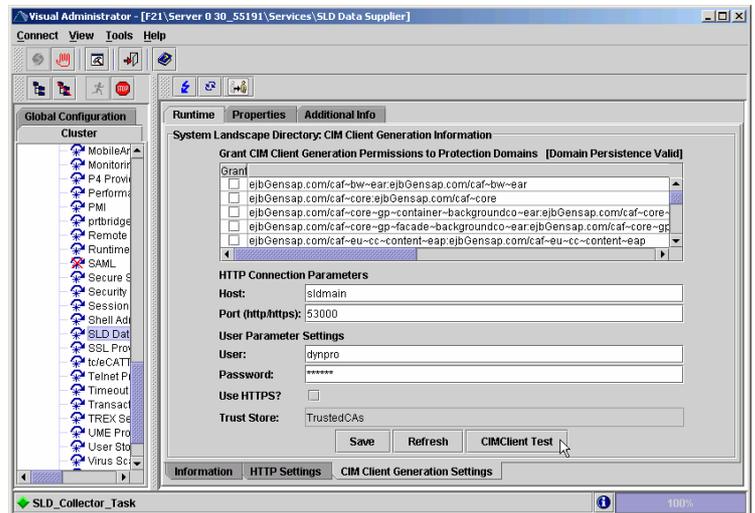
- Navigate to <SID> → Server → Services → SLD Data Supplier. Go to the **Runtime** tab. From the **Runtime** tab, select the **HTTP Settings**. If you have installed a local SLD, enter the local SLD host, port, user and password. Otherwise enter the remote SLD host, port, user and password. In this example, we are using a remote SLD. Click on the **Save** button to save your settings.



- Navigate to the **CIM Client Generation Settings** tab. Enter the SLD settings you used previously. You can use a different user for the client generation. Click on **Save** to save your settings.



- Click on **CIMClient Test** to test your settings.

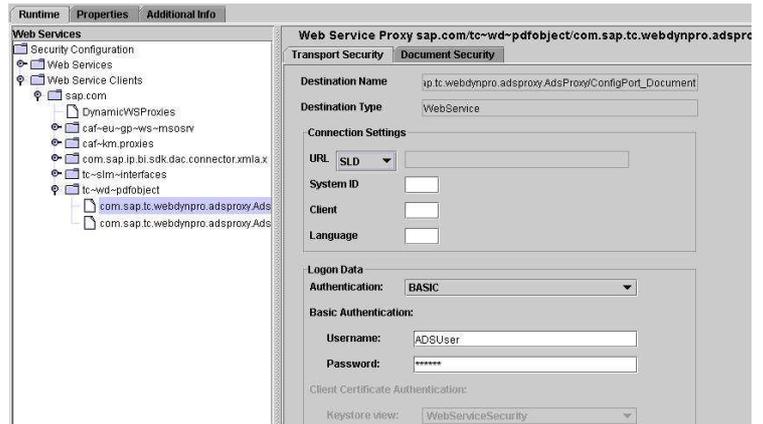


- You should receive a message confirming that the test was successful. Click on **OK** to continue.



Configuring ADS

- 10.** Navigate to <SID> → Server → Services → Web Services Security. Go to the Runtime tab. Navigate to Security Configuration → Web Service Clients → sap.com → tc~wd~pdfobject → com.sap.tc.webdynpro.adsproxy.AdsProxy*ConfigPort_Document. Select SLD for Destination URL, and BASIC for Destination Authentication. Enter the **Username** and **Password** that can be used to authenticate with the ADS.



- 11.** Scroll down the screen and enter the following information.

System Name:

<SID>.SystemHome.<MachineHost>

WS Name:

{com.adobe/AdobeDocumentServices}{AdobeDocumentServicesAssembly.jar}{AdobeDocumentServices}

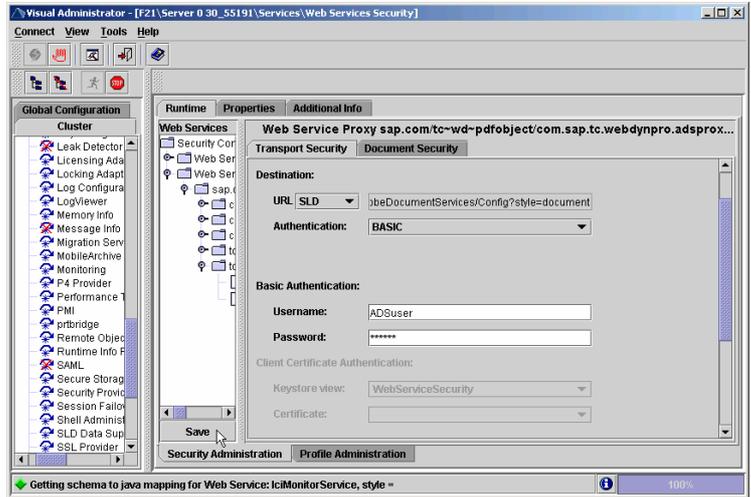
WS Port:

{com.adobe/AdobeDocumentServices}{AdobeDocumentServicesAssembly.jar}{AdobeDocumentServices}{urn:AdobeDocumentServicesWsd}ConfigPort_Document

Synchronize with System Landscape:

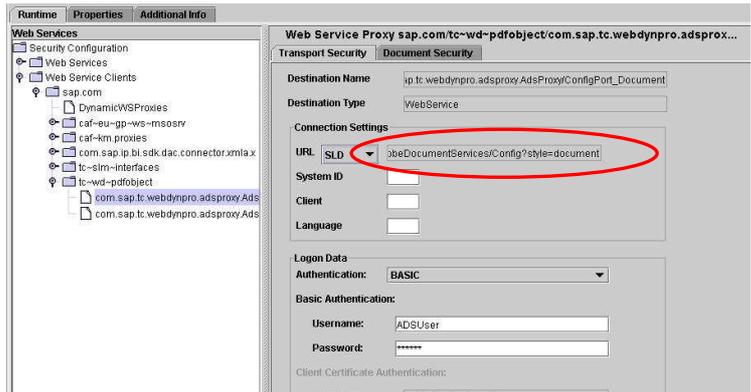
System Name:	C11.SystemHome.pwdf2035
WS Name:	icesAssembly.jar}{AdobeDocumentServices}
WS Port:	DocumentServicesWsd}ConfigPort_Document

12. Click on **Save** to save your settings.



13. Log out of the Visual Administrator and restart your J2EE server. Once you have restarted, logon to the Visual Administrator again and check that the Destination has been set properly.

You should now be able to use the Adobe Document Service.



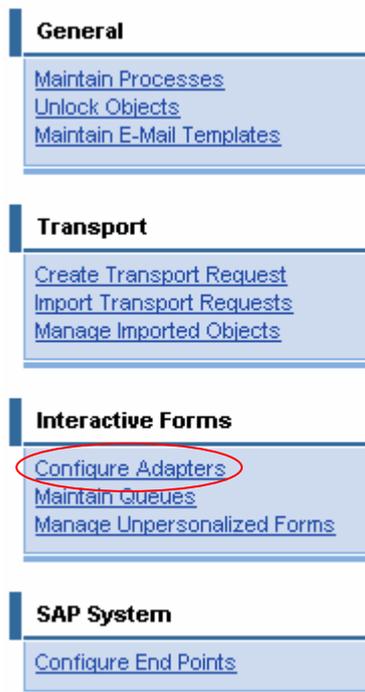
Configure receiving of interactive forms

Configuring the Interactive Forms Adapters

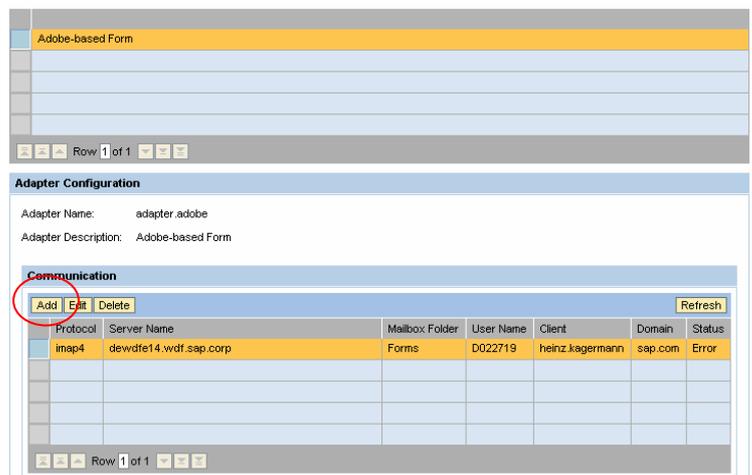
14. From the SAP Enterprise Portal, navigate to the **Guided Procedures** → **Administration** tab.



15. Navigate to **Guided Procedures** → **Administration** and click on **Configure Adapters**.



16. For each adapter, you can assign an email inbox. This email inbox will be used to collect all the submitted interactive forms. Select the appropriate adapter that you want to assign the email server to then click on the **Add** button.



17. You can choose either to use the **pop3** or **imap4** protocol. After choosing your protocol, you need to enter at least the **Server, User Name, Password, Client** and **Domain**. You can also enter the **Folder Name** if it is applicable to your user. Click on the **Create** button to add the server.



If you are using your own mailbox on a Microsoft Exchange Server you can see the name of your mailbox server (something like dewdfeXX.wdf.sap.corp) from Outlook, right click on your mailbox, select Properties and click on Advanced... The server is in the field for Microsoft Exchange Server.

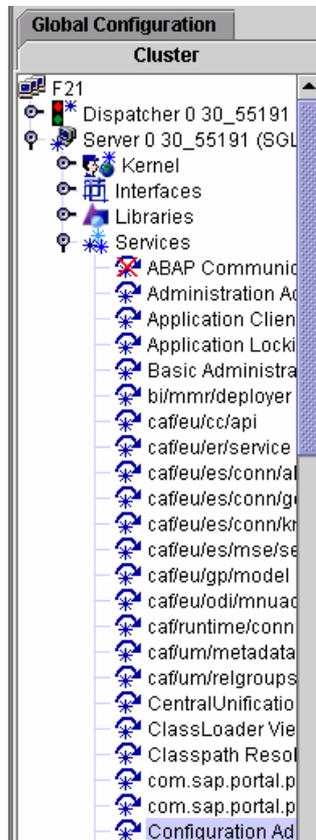
In this case, create a new folder in your mailbox, for example called "Forms".

18. Your email server should be added for the adapter. You can add more email servers if required.

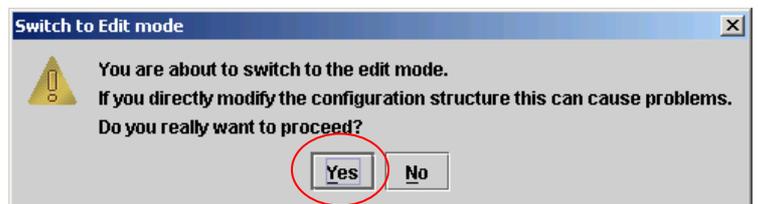
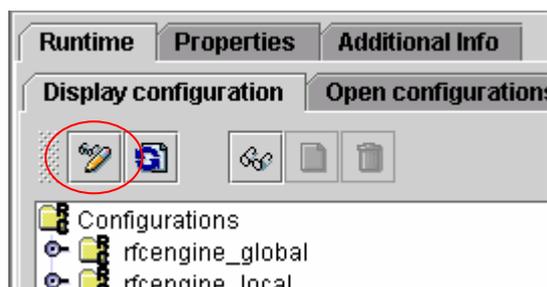


Communication					
Protocol	Server Name	Mailbox Folder	User Name	Client	Domain
imap4	imap4.sap.corp		018551	client	sapdomain

19. You need to activate the time interval for GP to check the email servers. To do so, start the Visual Administrator and navigate to <SID> → **Server** → **Services** → **Configuration Adapter**



20. On the right hand side, select the **Display configuration** tab. Change the editor to edit mode by clicking on the **Edit** toggle button and click on **Yes**.





21. Navigate to **Configurations** → **cluster_data** → **server** → **cfg** → **services** and double click on **Property sheet caf~eu~gp~model**. Set the property **mailconnector.start_thread** to **true**.

22. Then set the property **formqueue.processor.start_thread** to **“true”** to enable inbound queue processing.

23. Restart your server to enable the changes.

Key	Value
devobj.after_import_processing	true
devobj.content_release	
devobj.producer	SAP
formqueue.processor.start_thread	true
http.server.base.url	http://%hostname%:53000
infopath.compressor	REMOTE
infopath.compressor.local.path.packer	c:\path\CabArc.exe
mailconnector.start_thread	true
mime.id.forms.mail	FORM_FILLOUT
pfw.dter.template.show	false
server.sign.pdf	true
smtp.server	mail.sap.corp
smtp.service.user.mail	workflow@sap.com
switchToNewMailCommunication	false
system.fallbacklang	en
system.type	
system.workflowengine	local
system.workflowengine.bwf.endpoint_name	
transport.translation.contact.name	

Maintaining Inbox Queue

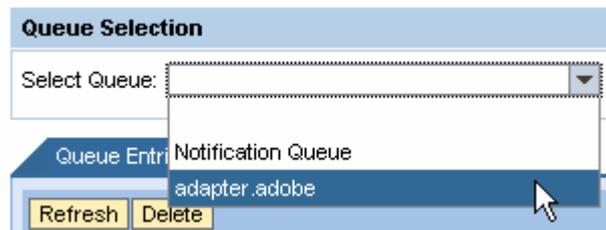
24. Navigate to **Guided Procedures** → **Administration** and click on **Maintain Queues**.



The screenshot shows the SAP Administration menu with the following sections and items:

- General**
 - [Maintain Processes](#)
 - [Unlock Objects](#)
 - [Maintain E-Mail Templates](#)
- Transport**
 - [Create Transport Request](#)
 - [Import Transport Requests](#)
 - [Manage Imported Objects](#)
- Interactive Forms**
 - [Configure Adapters](#)
 - [Maintain Queues](#) (highlighted with a red circle)
 - [Manage Unpersonalized Forms](#)
- SAP System**
 - [Configure End Points](#)

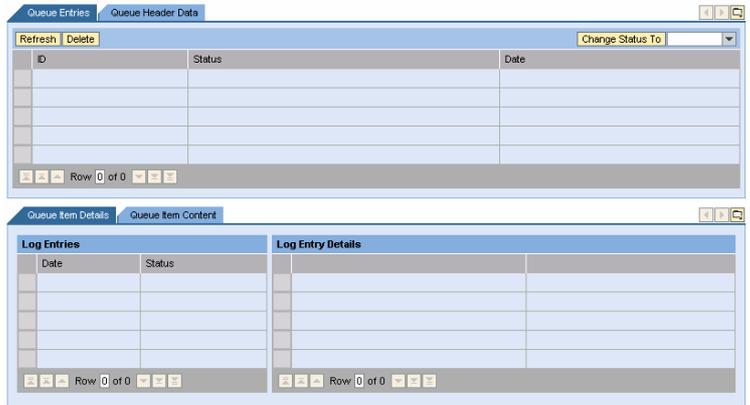
25. In the Queue Selection, you can select to view the emails.



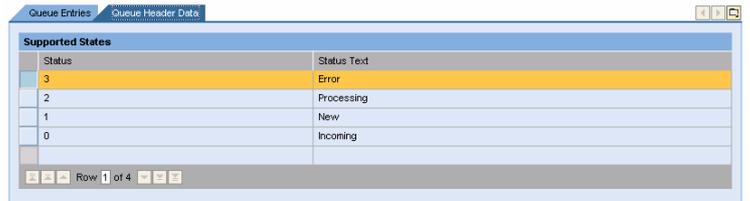
The screenshot shows the Queue Selection dialog with the following elements:

- Queue Selection** (Title)
- Select Queue: (Dropdown menu)
- Queue Entry: Notification Queue
- adapter.adobe
- Refresh (Button)
- Delete (Button)

26. After selecting the queue, you should be able to see the emails that have been received under the **Queue Entries** tab. You have the option to **Refresh** the queue or **Delete** an item in the queue. If you have selected an item in the queue, the items detail will be shown in the **Queue Item Details** tab. The content of the item can be viewed under the **Queue Item Content** tab.



27. Clicking on the **Queue Header Data** will show a list of **Supported States**.



Managing Impersonalized Forms (optional)

28. Navigate to **Guided Procedures** → **Administration** and click on **Manage Impersonalized Forms**.

General

- [Maintain Processes](#)
- [Unlock Objects](#)
- [Maintain E-Mail Templates](#)
- [Manage Permissions](#)
- [Assign Default Roles](#)
- [Schedule Process Initiation](#)
- [Administer BMF](#)
- [Impersonation Manager](#)
- [Impersonation History](#)

Transport

- [Create Transport Request](#)
- [Import Transport Requests](#)
- [Manage Imported Objects](#)

Interactive Forms

- [Configure Adapters](#)
- [Maintain Queues](#)
- [Manage Impersonalized Forms](#)

SAP System

- [Configure End Points](#)

29. You now see the list of forms that has been requested. The **Request Count** will increase by 1 for each download of the form and the **Return Count** will increase by 1 for each submission of the downloaded form. You can download the form template by clicking on the **Download** button. You can also see the details of the forms in the **Current Requests** table. By pushing the **Create** button a new form instance is created. Optionally an expiry date can be defined for it.

Unpersonalized Forms

Create Remove Download Refresh

Form Name	Request Count	Return Count
#Test	1	0

Row 1 of 1

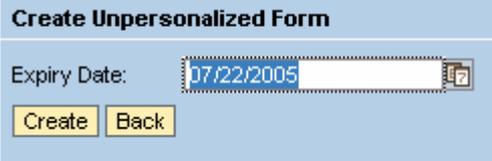
Current Requests

Remove

Form Name	Executor Name	Created On	Expiry Date	Last Return Date	Return Count
#Test	Administrator,	Thu Jul 21 17:18:51 SGT 2005			0

Row 1 of 1

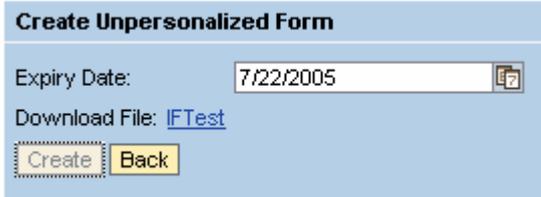
30. Select an expiry date for your form and click on the **Create** button.



Create Unpersonalized Form

Expiry Date:

A form with an expiry date has now been created and can be downloaded. Click on the **Back** button.



Create Unpersonalized Form

Expiry Date:

Download File: [IFTest](#)

31. You can see that the form with the expiry date has been created in the **Current Requests** table. The forms can also be deleted by clicking on the **Remove** button.

Current Requests			
Form Name	Executor Name	Created On	Expiry Date
IFTest	Administrator,	Thu Jul 21 17:18:51 SGT 2005	
IFTest	Administrator,	Thu Jul 21 17:45:22 SGT 2005	Fri Jul 22 00:00:00 SGT 2005

Configure sending of interactive forms

32. In addition to configuring your inbox, you can also configure outbox email servers. Any emails that GP needs to send out will be via this email server and service user email.

Navigate to property sheet **Property sheet caf~eu~gp~model** in Visual Administrator. Just update the **smtp.server** and **smtp.service_user_mail** properties.

Remember to restart your server after the changes.

Key	Value
devobj.after_import_processing	true
devobj.content_release	
devobj.producer	SAP
formqueue.processor.start_thread	true
http_server.base.url	http://%hostname%:53000
infopath.compressor	REMOTE
infopath.compressor.local.path.packer	c:\path\CabArc.exe
mailconnector.start_thread	true
mime.id.forms.mail	FORM_FILLOUT
pfw.dter.template.show	false
server.sign.pdf	true
smtp.server	mail.sap.com
smtp.service_user_mail	workflow@sap.com
switchToNewMailCommunication	false
system.tanbacklang	en
system.type	
system.workflowengine	local
system.workflowengine.bwf.endpoint_name	
transport.translation.contact.name	

Troubleshooting

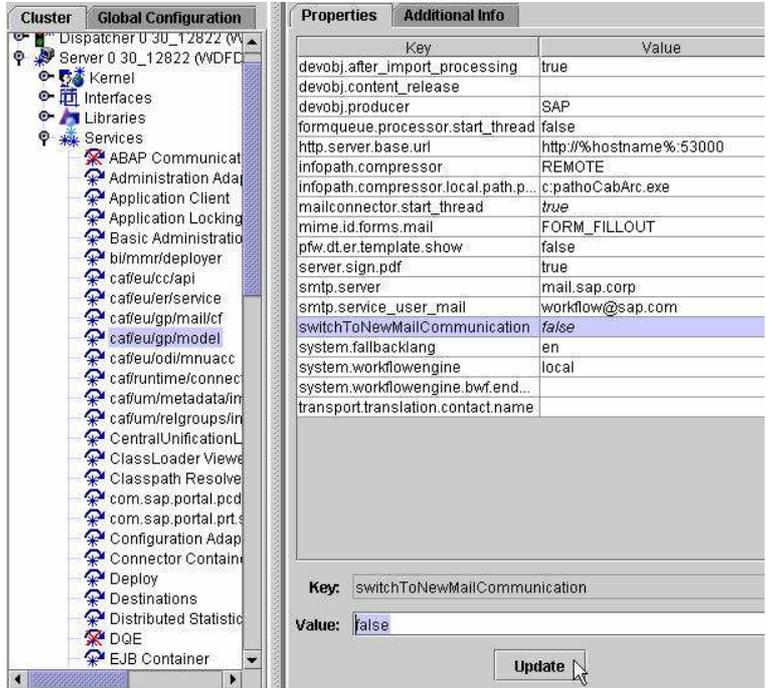
If you use an SP6 version of NW2004s you might get an exception such as:

com.sap.caf.eu.gp.model.forms.exceptions.FormsRuntimeException: The mail communication for client application id:0768334F5EF53307986C90435843D119 is not registered. Please contact Bounced Mails administrator

In this case you need to switch to the old communication infrastructure where this problem does not exist.

In **VisualAdministrator** -> **caf/eu/gp/model** service -> **switchToNewMailCommunication = false.**

After that you need to restart the **caf/eu/gp/model** service.



The screenshot shows the SAP NetWeaver Global Configuration console. The left pane displays a tree view of services, with 'caf/eu/gp/model' selected. The right pane shows the 'Properties' tab for this service, displaying a list of configuration keys and their values. The key 'switchToNewMailCommunication' is highlighted, and its value is 'false'. Below the list, there are input fields for 'Key' and 'Value', and an 'Update' button.

Key	Value
devobj.after_import_processing	true
devobj.content_release	
devobj.producer	SAP
formqueue.processor.start_thread	false
http.server.base.url	http://%hostname%:53000
infopath.compressor	REMOTE
infopath.compressor.local.path.p...	c:\pathoCabArc.exe
mailconnector.start_thread	true
mime.id.forms.mail	FORM_FILLOUT
pfw.dter.template.show	false
server.sign.pdf	true
smtp.server	mail.sap.corp
smtp.service.user.mail	workflow@sap.com
switchToNewMailCommunication	false
system.fallbacklang	en
system.workflowengine	local
system.workflowengine.bwf.end...	
transport.translation.contact.name	

Key: switchToNewMailCommunication
Value: false
Update

THE BEST-RUN BUSINESSES RUN SAP

