

INFO MAIL

Configuration Guide

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Introduction

INFO MAIL is an additional component for ReadSoft PROCESS DIRECTOR Accounts Payable. It allows vendors to easily and quickly check the status of their invoices with buyers using PROCESS DIRECTOR Accounts Payable, via email.

INFO MAIL works as follows:

1. The vendor sends an email to a specified email account.
2. INFO MAIL receives the email and requests the relevant information from PROCESS DIRECTOR Accounts Payable.
3. INFO MAIL sends an email to the vendor containing a summary of the status(es) of the invoice(s).
4. The vendor can click on links in the email to retrieve more detailed information about particular invoices.

About this guide

INFO MAIL is highly customizable. This guide is for people who install INFO MAIL for ReadSoft PROCESS DIRECTOR Accounts Payable and want to configure it to suit the needs of an organization. The guide explains all the settings and configuration options for INFO MAIL.

You must have in-depth knowledge of PROCESS DIRECTOR Accounts Payable to use this guide.

Typographical conventions

The following typographical conventions are used:

- Menu names, commands, and dialog names appear in **bold**.
- Names of keys on your keyboard appear in **SMALL CAPITAL LETTERS**.
- Names of files, folders, and settings appear in `Courier` font.
- SAP transaction codes and program names appear in `ARIAL MONOSPACE`.
- Variables that must be replaced by an actual value are *italicized* or appear in `< >`.

Deployment

System requirements

See the ReadSoft document *PROCESS DIRECTOR Web Applications System Requirements*, which lists:

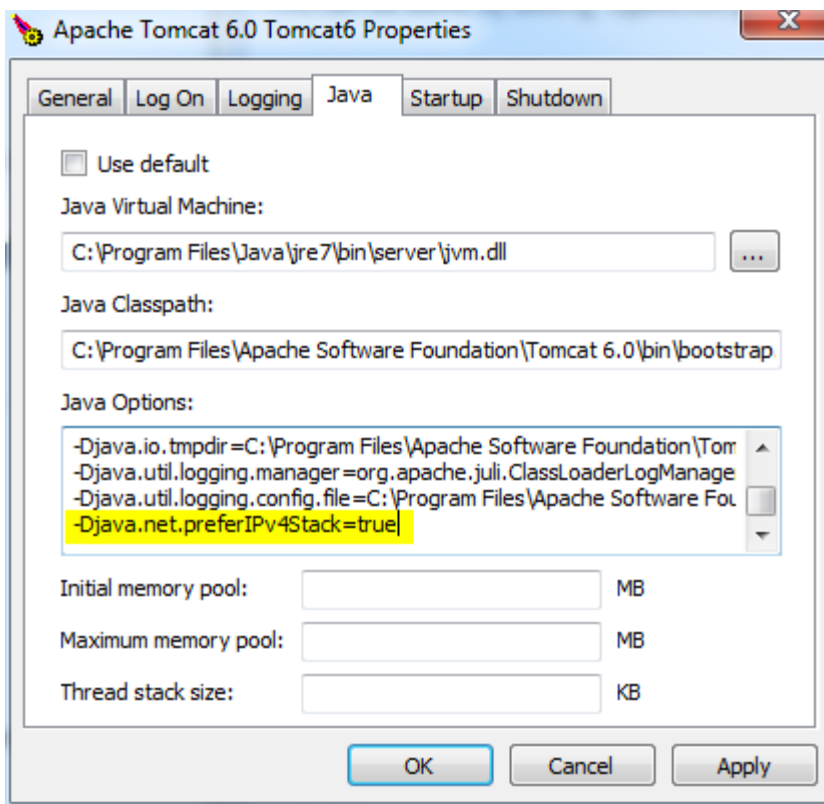
- Hardware requirements
- Software requirements
- Tested environments

Note: If you use JCo3 and deploy INFO MAIL together with the PROCESS DIRECTOR Web Application or other web applications such as MOBILE APPROVAL, you must move the jcolayer library to the Tomcat main library folder and remove it from all Web Application library folders. See the ReadSoft document *PROCESS DIRECTOR Web Applications System Requirements* for more information.

Installation files

These files are sent as ZIP files and are password protected (to ensure they are not blocked by email server protection filters). The password is **readsoft**.

Note: When running InfoMail on a Java 7 VM, add the property **-Djava.net.preferIPv4Stack=true** to the JVM startup parameters:



Configuration overview

INFO MAIL settings are specified in different files:

- INFO MAIL Web Application
- `webapps\infomail-app\WEB-INF\web.xml`

To change these settings, you can either edit these files or use the INFO MAIL Web Application. Changes you make using the Web Application are saved to the respective settings file.

Web Application settings

General settings

Schedule

File: `scheduler.xml`

Web: **Schedule** tab

INFO MAIL can operate on a schedule of your choice. The schedule is configured in the `.../WEB-INF/conf/scheduler.xml` file.

The first things you must determine are the days and times the INFO MAIL Web Application runs:

1. Log in to the INFO MAIL web page.
2. Select the **Schedule** tab.
3. You have three options:

1. Permanently

INFO MAIL runs continuously.



Permanently
 Every day
 Selected days of week

Interval (minutes):

2. Every day

INFO MAIL runs every day, but only during the times you specify here.

Every day
 Selected days of week

Interval (minutes):

Start time (HH:mm):

End time (HH:mm):

3. Selected days of the week

INFO MAIL runs only on the days and times you specify.

Every day
 Selected days of week

Interval (minutes):

Start time (HH:mm):

End time (HH:mm):

For all options, you must specify the **Interval** of how often INFO MAIL checks for new email.

Parameters

File: `\WEB-INF\conf\settings.properties`

Web: **Parameters** tab > **Parameters configuration**

This file contains the main configuration settings for the INFO MAIL application. It can be found in the `WEB-INF\conf\` directory of the Web Application or in the external configuration directory of your specification.

Configuration settings

| Setting | Valid values | Description |
|----------------------------------|--------------|--|
| config.filename.logwriter | | The path to the log settings file. |
| config.filename.mimetypes | | The path to the MIME types settings file. It lists the supported MIME types. |
| config.filename.sap | | The path to the SAP server and logon settings file. |

General settings

| Setting | Valid values | Description |
|--|------------------|--|
| general.directory.languagefiles | | The path where statistic message templates are saved. |
| general.statistics | true/false | Set to true to record statistics. |
| general.timeslice.minutes | Positive integer | The time between checking for new email and the sending of the email response. |
| general.reply.error.codes | | <p>A list of SAP error codes that you wish to display to users.</p> <p>Valid format:</p> <pre>/COCKPIT/<error code 1>;/COCKPIT/<error code 2></pre> <p>Example:</p> <pre>/COCKPIT/WC.133;/COCKPIT/WC.22</pre> <p>If SAP returns one of these error codes, an email containing the error message is sent to the user.</p> |

Mail settings

| Setting | Valid values | Description |
|--|--------------|---|
| mail.pop3.folder mail.imap.folder | | The name of the folder that MOBILE APPROVAL checks for incoming messages. For example, INBOX. |
| mail.pop3.host mail.imap.host | | Name of the POP3/IMAP server. |
| mail.pop3.password mail.imap.password | | Password for the POP3/IMAP account. |

| Setting | Valid values | Description |
|--|--------------|--|
| mail.pop3.port mail.imap.port | | Port number of the POP3/IMAP server. |
| mail.pop3.socketFactory.class | | Optional. Specifies the name of the class that implements the <code>javax.net.SocketFactory</code> interface. This class is used to create POP3 sockets. <code>javax.net.ssl.SSLSocketFactory</code> can be used. |
| mail.pop3.socketFactory.fallback | true/false | |
| mail.pop3.socketFactory.port | | The port to use when using the specified socket factory. If left blank, the default port will be used. |
| mail.pop3.user mail.imap.user | | User name for the POP3/IMAP account. |
| mail.pop3.user.address mail.imap.user.address | | The email address of the user for the POP3/IMAP account. |
| mail.smtp.auth | true/false | Set to true to allow only authorized email to be sent. |
| mail.smtp.from | | The email address that appears in the From field for emails sent to suppliers by INFO MAIL. |
| mail.smtp.host | | Name of the SMTP server. |
| mail.smtp.password | | Password for the SMTP account. |
| mail.smtp.port | | Port number of the SMTP server. |
| mail.smtp.socketFactory.class | | Optional. Specifies the name of the class that implements the <code>javax.net.SocketFactory</code> interface. This class is then used to create SMTP sockets. <code>javax.net.ssl.SSLSocketFactory</code> can be used. |

| Setting | Valid values | Description |
|---|--------------|--|
| mail.smtp.socketFactory.fallback | true/false | |
| mail.smtp.socketFactory.port | | The port to use when using the specified socket factory. If left blank, the default port will be used. |
| mail.smtp.starttls.enable | true/false | |

Mail logging settings

There are five different kinds of log emails that INFO MAIL can send, depending on the type of event:

- Administration
- Application closing
- Errors
- Information
- Warnings

For each type you specify:

- Whether an email is sent when the event type occurs.
- The email subject and the text that appears at the start of every email, before the content of the logs.

| Setting | Valid values | Description |
|-------------------------------------|----------------------------|---|
| maillogger.admin.mailaddress | | The email address of the INFO MAIL administrator. |
| maillogger.from.mailaddress | Name <email address> | The name and email address that appears in the From field for log emails. Example: INFO MAIL Logs <name@company.com> |

| Setting | Valid values | Description |
|---|--------------|---|
| maillogger.logwindow | on/off | <p>Turns Log Window feature on or off.</p> <p>If the Log Window feature is turned on, all available log information is written in the current system log window.</p> <p>If INFO MAIL is running as a Windows NT service you must use the Services control panel to modify the logging service and enable the Allow interaction of service and desktop setting by using the Services control panel.</p> |
| maillogger.message.admin.send | true/false | Enables or disables administration log emails |
| maillogger.message.admin.subject | | The subject for administration emails. |
| maillogger.message.admin.text | | The text that appears at the start of every administration email, before the content of the logs. |
| maillogger.message.close.send | true/false | Set to true if application closing log emails will be sent. |
| maillogger.message.close.subject | | The subject for application closing emails. |
| maillogger.message.close.text | | The text that appears at the start of every application closing email, before the content of the logs. |
| maillogger.message.error.send | true/false | Set to true if error log emails will be sent. |
| maillogger.message.error.subject | | The subject for error emails. |
| maillogger.message.error.text | | The text that appears at the start of every error email, before the content of the logs. |
| maillogger.message.info.send | true/false | Set to true if information log emails will be sent. |

| Setting | Valid values | Description |
|---|--------------|--|
| maillogger.message.info.subject | | The subject for information emails. |
| maillogger.message.info.text | | The text that appears at the start of every information email, before the content of the logs. |
| maillogger.message.warning.send | true/false | Set to true if warning log emails will be sent. |
| maillogger.message.warning.subject | | The subject for warning emails. |
| maillogger.message.warning.text | | The text that appears at the start of every warning email, before the content of the logs. |

SAP settings

| Setting | Valid values | Description |
|----------------------------------|--------------|---|
| sap.logon.system | | The SAP system that INFO MAIL connects to. Note: Further SAP system settings are saved in the <code>saplogon.properties</code> file. |
| sap.rfc.value.flag.delete | | The RFC function sets a delete flag in its export parameter and if this value matches <code>sap.rfc.value.flag.delete</code> , the email will be deleted without sending any information to the sender. |

Statistics settings

| Setting | Valid values | Description |
|--|-------------------------|--|
| statistics.language | ISO 639-2 language code | The language of the statistic emails. For example, a value of DE for German sets the use of <code>statisticMessage_de.txt</code> (file located in directory <code>wcconfig\WEB-INF\conf\lang\</code>) |
| statistics.mail.addresses.from | Name <email address> | The name and email address that appears in the From field for statistic emails. Example: INFO MAIL Statistics <name@company.com> |
| statistics.mail.addresses.to | | The email address of the receiver. |
| statistics.mail.subject | | The subject of the email. |
| statistics.send.every | hour, day, month, year | The frequency of sending statistic emails. You can use one or more values. Multiple values must be separated by a semicolon. Example: hour;day |
| statistics.tempfiles.dictionary | | The directory where temporary statistic files are saved. |

Verifier (spam) settings

Use these settings to filter out spam email, so that INFO MAIL only processes incoming email from authentic suppliers.

| Setting | Valid values | Description |
|--|--------------|--|
| verifier.blacklist | true/false | Set to true to enable the use of a blacklist (list maintained in runtime object) |
| verifier.blacklist.resettime.hours | | Time (in hours) until blacklist object is cleared |
| verifier.blacklist.resettime.maxmails | | This defines the maximum number of emails that a user can send to MOBILE APPROVAL within the time set in <code>verifier.blacklist.resettime.hours</code> |

| Setting | Valid values | Description |
|---|------------------|--|
| verifier.blacklist.resettime.minutes | | The time interval, in minutes, to reset the blacklist |
| verifier.maxmailsize.bytes <i>(Optional setting)</i> | Positive integer | Optional. The maximum size (in bytes per email) of emails allowed by INFO MAIL. Emails greater than the amount specified here will not be processed. Example: 524288. (0.5 Megabytes). |
| verifier.regex.subject <i>(Optional setting)</i> | | Optional regular expression. This expression will be evaluated on each subject line and if matched, the mail will be ignored. Only one regular expression string is allowed. Note: In the configuration file the backslash symbol (\) outside of the character string must be set as \\ For example: <code>. \\ **SPAM. **</code> |
| verifier.timeslice.maxmails <i>(Optional setting)</i> | Positive integer | The maximum number of emails that INFO MAIL is allowed to process with the time limit. If the number exceeds this amount, INFO MAIL will close. By default, the time limit is determined by parameter <code>general.timeslice.minutes</code> or from the Scheduler if it has been set. |

SAP logon settings

File: `\WEB-INF\conf\saplogon.properties`

Web: **Parameters** tab > **Saplogon properties**

INFO MAIL can be used for one or more SAP systems. For every system it connects to, you must enter the following settings in the `saplogon.properties` file. You cannot initially enter these settings via the INFO MAIL Web Application, but you can change them later using it.

| Setting | Valid values | Description |
|-------------------------------------|-------------------------|--|
| <SAPID>.activate | yes/no | Set to yes to enable the connection to the SAP system. If set to no , the connection is disabled and all other settings are ignored. |
| <SAPID>.ashost | | The host of the SAP application server. |
| <SAPID>.client | | The SAP logon client. |
| <SAPID>.sysnr | | The three-digit system number for SAP. |
| <SAPID>.lang | ISO 639-2 language code | The language of the SAP system. |
| <SAPID>.maxconnections | | The maximum number of simultaneous connections allowed. |
| <SAPID>.user | | The logon username for SAP. |
| <SAPID>.passwd | | The logon password for SAP. |

Connecting to a message server

To connect to an SAP message server instead of directly to the application server, substitute `<SAPID>.msgghost` for `<SAPID>.ashost`. You must also specify the server group using the `<SAPID>.group` setting.

Example:

```
<SAPID>.msgghost=10.1.5.113
```

```
<SAPID>.group=WORKGROUPNAME
```

Connecting to similar systems

You can connect to systems that differ only in the SAP logon client `<SAPID>.client` and/or SAP system number (`<SAPID>.sysnr`). To do so:

Use the `<SAPID>.system` setting to specify the SAP ID.

Add the SAP logon client to the SAP ID that precedes the settings.

Example:

Specifying two systems that differ only in their client number:


```
DR1-0.system=DR1
DR1-0.client=0
DR1-800.system=DR1
DR1-800.client=800
```

All other settings for these systems must then be preceded with either DR1-0 or DR-800, as appropriate.

Statistics messages

Filename, location and encoding

Filename

You can create one statistics message template per language. The filename must follow the format:

```
statisticMessage_<language>.txt
```

where <language> is the ISO 639-2 language code, for example, en, de. The `statisticMessage.txt` file is used when no language is specified in the `statistics.language` setting.

Location

By default, statistic message templates are saved in the `\WEB-INF\conf\lang` folder. This location can be changed using the `statistics.tempfiles.dictionary` setting.

Encoding

All files must be saved in UTF-8.

Content

The content is a mixture of regular text and variables. The content can be changed either by editing the file or by using the INFO MAIL Web Application (**Parameters** tab > **Statistics message** > <Language>).

Comments

All lines starting with a hash sign # are treated as comments and are not included in the email.

Email subject

The first line of the file that does not start with # is used as the email subject.

Variables

All variables start and end with the percentage character, %.

| Variable | Description |
|--|--|
| %date_from()%, %date_to()% | Specifies the date the statistics start and end. The date format can be specified inside the brackets, and must conform to <code>java.text.SimpleDateFormat</code> (see http://java.sun.com/j2se/1.5.0/docs/api/java/text/SimpleDateFormat.html). The brackets may include clear text. These must be enclosed by single quotation marks '. Example: <code>%date_from(dd.MM.yyyy 'at' HH:mm:ss)%</code> |
| %statistics_type()% | |
| %mails_received()% | The number of emails received by INFO MAIL. |
| %sap_system_calls% | The number of SAP system calls. |
| %mails_blocked()% | The number of emails blocked. |
| %block_reason_subject()% | The number of emails blocked due to their subject. |
| %block_reason_blacklist()% | The number of emails blocked because the sender was on the blacklist. |
| %block_reason_mailsize()% | The number of emails blocked because they were too large. |
| %block_reason_rfc_return()% | |
| %list_begin% and %list_end% | Denotes the start and end of the list of statistics for each email address. It can contain one or more of the variables below. |
| %list_mailaddress% | The email address for the list element. |
| %list_received()% | The number of emails received for the list element. |
| %list_sent()% | The number of email sent for the list element. |
| %list_blocked()% | The number of blocked emails for the list element. |

Formatting the variables

The format of the variables can usually be changed by including formatting instructions within the brackets. For all amount variables, you can specify the number of digits and the preceding character. For example:

| Example variable | Result |
|-------------------------------------|---|
| <code>%mails_received()%</code> | 168 |
| <code>%mails_received(5;)%</code> | 168 [Note the two spaces in front of the three-digit number.] |
| <code>%mails_received(2;)%</code> | 168 [Note that the number is not cut because it is longer than 2 digits.] |
| <code>%mails_received(5;0)%</code> | 00168 |
| <code>%mails_received(10;-)%</code> | -----168 |

Log files

Filename and location

Filename

`wctrc.YYYY.MM.DD.log`

By default, a new log file is created for each day (this can be changed using the [dailyFile](#) setting).

Location

By default, log files are saved in the Tomcat `\logs\infomail-app` folder (this can be changed using the [logDir](#) setting). Log file settings can only be changed in the `config.filename.logwriter` file in the INFO MAIL `\WEB-INF\conf` folder.

Content

The content of every log entry is:

```
[Date]<Sep>Time<Sep> [Host<Sep>] [Application<Sep>] SessionID<Sep>Level<Sep>Message
```

All items in square brackets [] are optional. If the message is WARNING, ERROR or FATAL, it is preceded by an error number.

You can customize the filename, location and content of the log files using the settings below.

| Setting | Valid values | Description |
|-------------------|---|---|
| level | 0 (Off) 1 (Fatal) 2 (Error) 3 (Warning – default) 4 (Info) 5 (Debug) | Determines the content of the log files. Only log messages lower or equal to the setting are written to the log. |
| logDir | | The path where log files are saved. If the path is not absolute, it is relative to the Tomcat application server's path. Default: INFO MAIL creates an <code>infomail-app</code> folder in the log directory of the Tomcat application server. |
| logName | | The name of the log files. Use <code>%date</code> to include the current date in the filename. Default: <code>wctrace.%date.log</code> |
| Separator | | The character that separates columns in the log files. Default: ; |
| dateFormat | Must conform to <code>java.text.SimpleDateFormat</code> | The format of the date in the log files. Default: <code>dd.MM.yyyy</code> |
| timeFormat | Must conform to <code>java.text.SimpleDateFormat</code> | The format of the time in the log files. Default: <code>hh.mm.ss.SSS</code> |
| host | | The hostname of the application server. Specifying <code>%host%</code> will insert the hostname from the HTTP request. Default: (Empty) |

| Setting | Valid values | Description |
|------------------|--------------|--|
| appName | | The name of the application. Default: (Empty) |
| showDate | yes/no | Display or hide the date in the log. Default: yes |
| dailyFile | yes/no | Yes generates a new log file every day. No uses only one log file. Note: If using yes , <code>logName</code> must contain <code>%date%</code> , otherwise a daily log file will not be created. |

HTML title

Filename and location

Filename

tiles-defs.xml

Location

The INFO MAIL \WEB-INF\ folder.

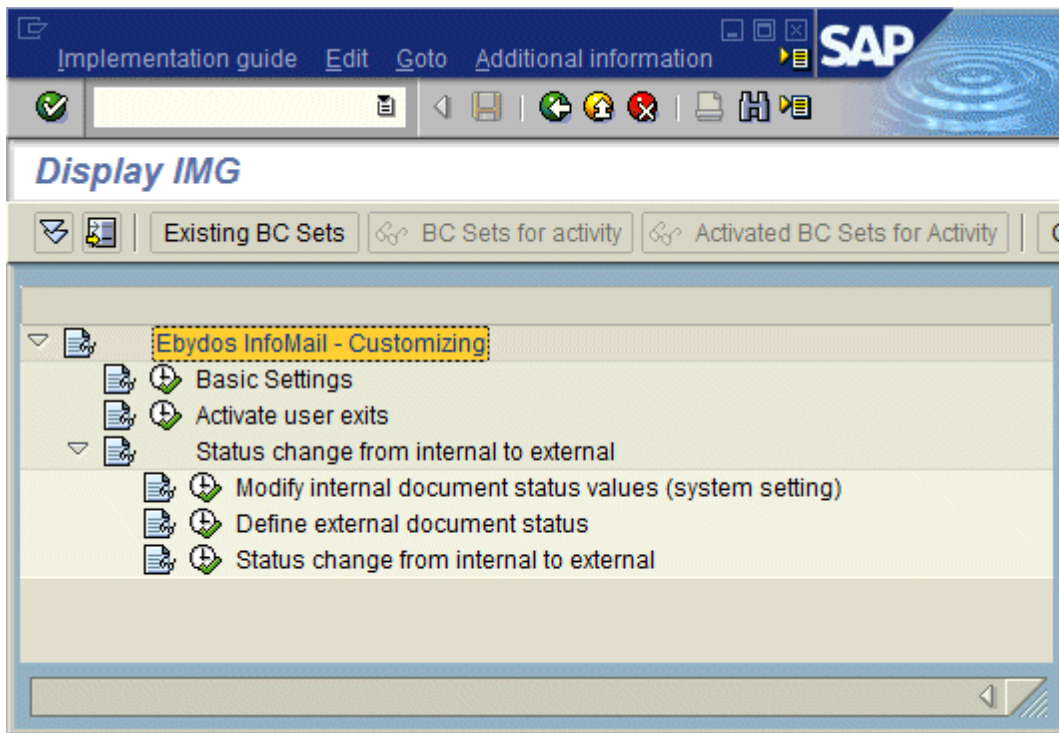
Content

This file contains the page names for the different INFO MAIL menu items. You should only change the `appTitle` setting. This determines the HTML `<TITLE>` tag. If it is left blank, **INFO MAIL** is used.

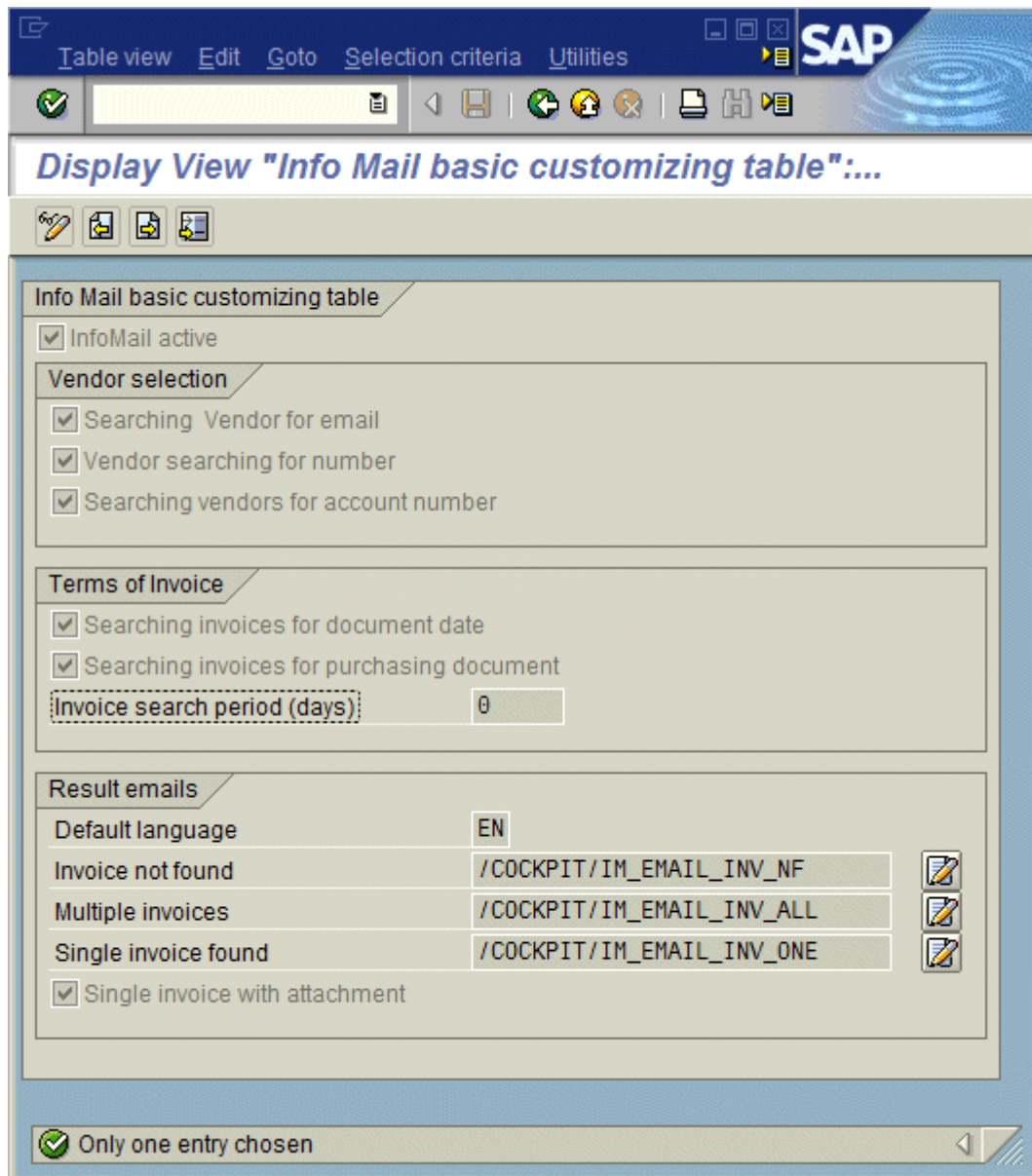
INFO MAIL settings inside SAP

There are a number of INFO MAIL settings that you configure within SAP. These settings relate to the searching of vendors and their invoices, document status definitions, as well as the content of the emails sent to vendors.

The transaction code to open INFO MAIL customization is /COCKPIT/II.



Basic settings



INFO MAIL basic customizing table

| Setting | Description |
|------------------------|----------------------------------|
| InfoMail active | Activates the INFO MAIL service. |

Vendor selection

At least one of the following settings must be selected. They determine how INFO MAIL determines the vendor from the email it sends to the INFO MAIL service.

| Setting | Description |
|---|--|
| Searching vendor for email | Determines the vendor from the email address of the sender. |
| Vendor searching for number | Determines the vendor from the vendor's number within the email. |
| Searching vendors for account number | Determines the vendor from the vendor's account number (EIKTO) contained within the email. |

Terms of Invoice

Once the vendor has been identified, INFO MAIL searches the database for its invoices, using the settings below:

| Setting | Description |
|---|--|
| Searching invoices for document date | If specified in the email, INFO MAIL searches for invoices using the given document dates. |
| Searching invoices for purchasing document | If specified in the email, INFO MAIL searches for invoices using the given purchase order numbers. |
| Invoice search period (days) | How far back in time INFO MAIL searches for invoices. The time is measured using the document creation date in PROCESS DIRECTOR Accounts Payable. If set to 0 , the filter is disabled and the entire database is searched. |

Result emails

| Setting | Description |
|--------------------------|---|
| Default language | Is this the default language for all result emails, or for error emails only? In the latter case, this setting should be renamed. |
| Invoice not found | The path to the email template that is used for emails stating there were no invoices found. |
| Multiple invoices | The path to the email template that is used for emails listing more than one invoice. |


| Setting | Description |
|---------------------------------------|--|
| Single invoice found | The path to the email template that is used for emails listing only one invoice. |
| Single invoice with attachment | If only one invoice is found, this setting can be used to attach an image of the invoice to the reply email. |

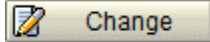
Examples

| Email subject | Result |
|--|--|
| LIFNR=13;EIKTO=1234;DOC_DATE=20080201; PO_NUMBER=4500000000;REF_DOC_NO=I IU7M8J J1 1I | The vendor and invoice will be searched according to these search criteria, if they are enabled. |
| I IU7M8J J1 1I | If the subject is only one string, it is treated as a REF_DOC_NO. |
| [No subject] | All invoices in the system belonging to the vendor will be returned. The sender's email address is used to search the vendor list. |

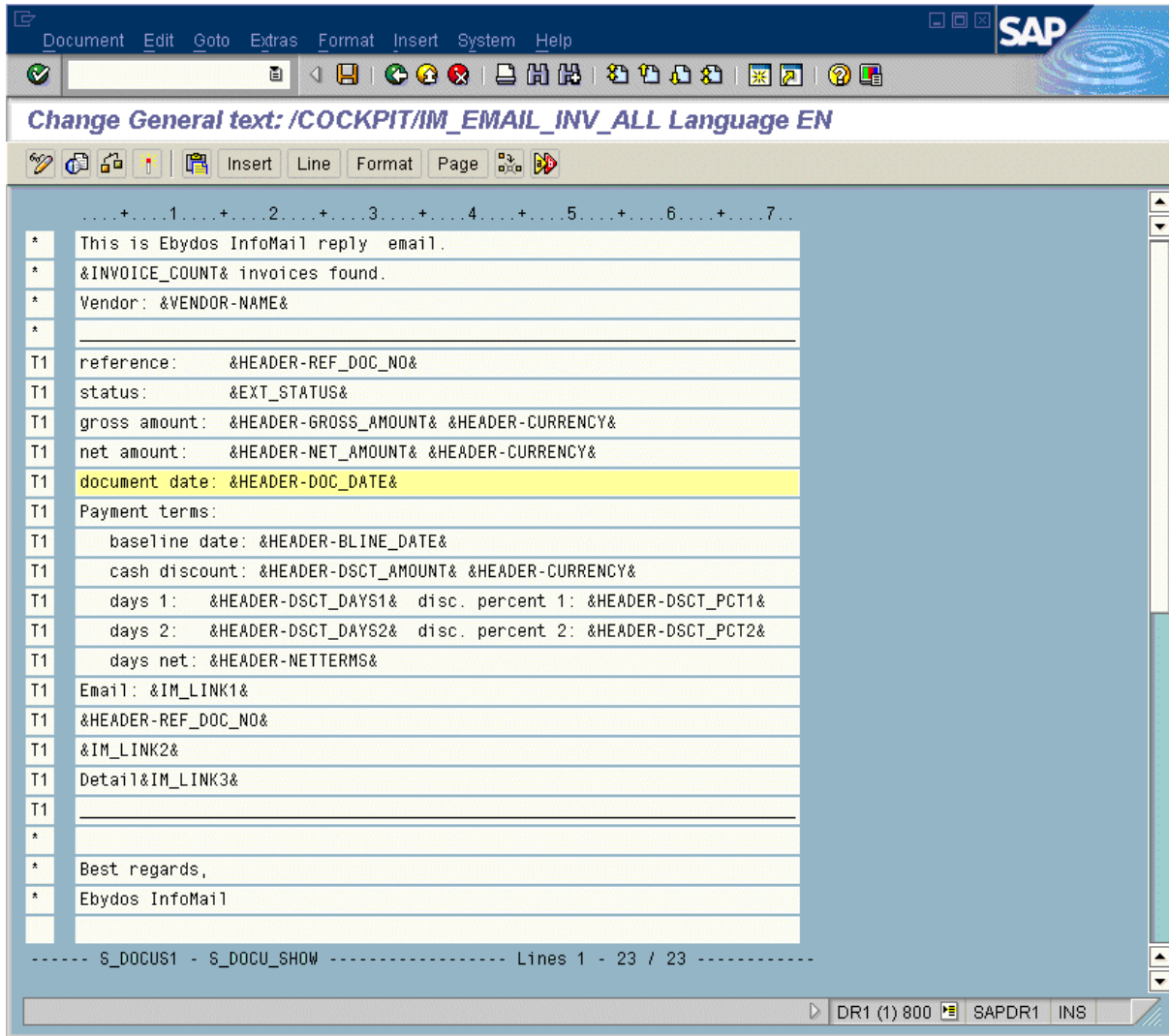
Editing email content

You can customize the content of each of the three [result email templates](#):

Click on the **Change text** icon  to open the template.

Click  to edit the template.

You can use either plain text or HTML.



As you can see in this screenshot, there are different variables that you can use:

The column on the left shows whether the text in the line should be repeated for every invoice found (**T1**) or displayed only once in the email (*).

Activate user exits

User exits can be added here.

User Exit 701: Adjust INFO MAIL subject keywords

In order to analyze incoming email subjects, INFO MAIL supports five fields by default (LIFNR, EIKTO, DOC_DATE, PO_NUMBER and REF_DOC_NO). You can use this user exit to add support for additional fields. When an email is received with values for these additional fields, the values are added to the standard query.

This user exit can be used to expand the functionality of INFO MAIL. For example, you could use INFO MAIL to register new WORK CYCLE users, where these users could send an email to the INFO MAIL

In this example, the ACTION, NAME and PHONE fields are added to the list of supported INFO MAIL fields.

You then call this user exit in the /COCKPIT/RFC_IM_CUSTOMIZ_GET function to add the fields to the ET_FIELD_VALUES table. For example:

```
*>>> INSERT
* User exit 702 - enable user definable keywords
  CALL FUNCTION '/COCKPIT/Z_USEX_IM_KEYWORDS'
    EXPORTING
      i_exittype      = con_exit_infomail_keywords
    IMPORTING
      e_fname        = lc_function
    EXCEPTIONS
      OTHERS         = 1.
  IF sy-subrc EQ 0.
    CALL FUNCTION lc_function
      TABLES
        it_field_values      = et_field_values.
  ENDIF.
*<<< INSERT
```

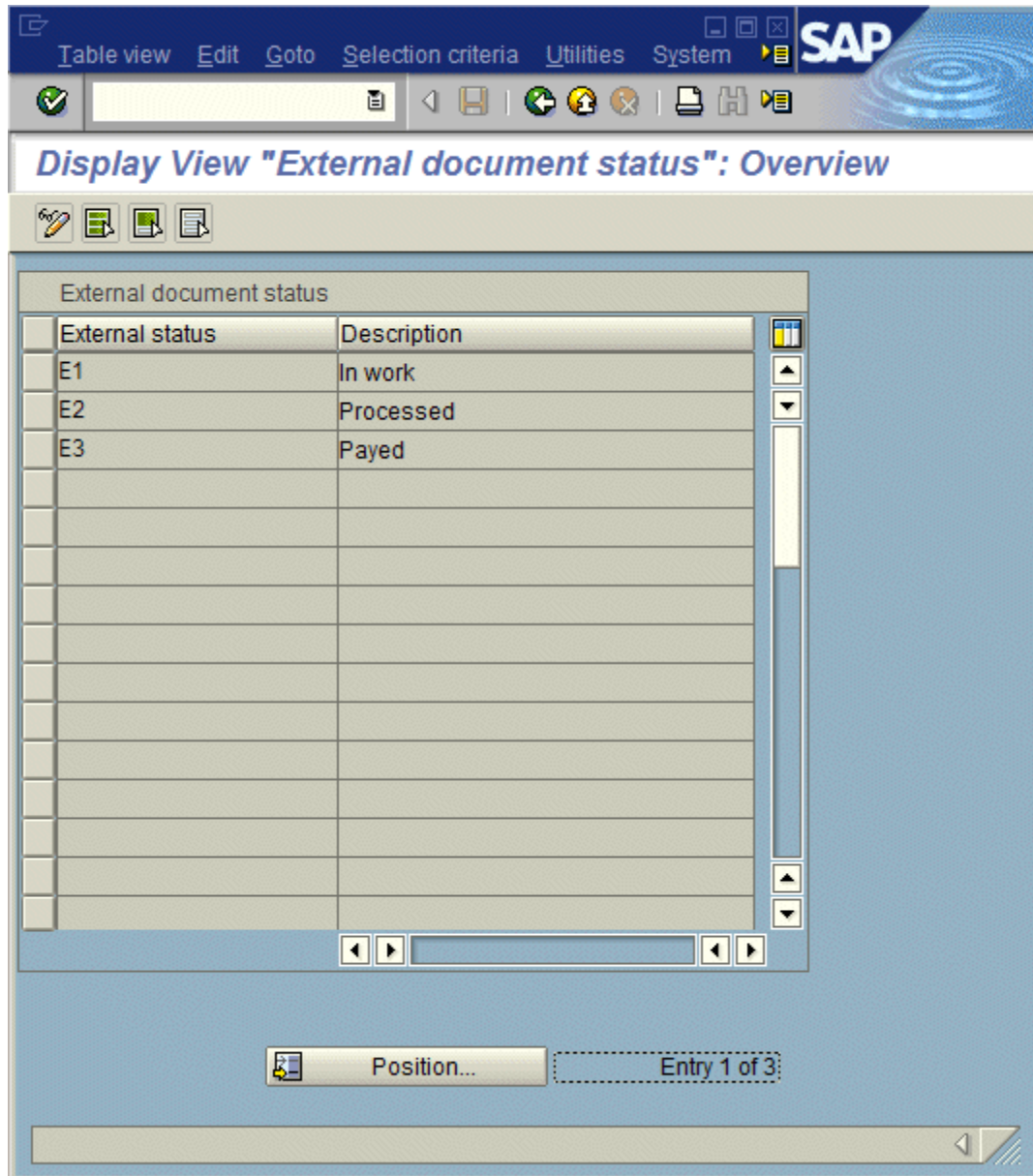
Status change from internal to external

Modify internal document status values

The screenshot shows the SAP 'Internal document status' overview screen. The title bar reads 'Display View "Internal document status": Overview'. Below the title bar are several icons for editing and viewing. The main content is a table with two columns: 'Internal status' and 'Description'. The first row, with status '01' and description 'Unprocessed', is highlighted in orange. Other rows include '02 Errors', '03 Posted', '04 Deleted', '05 Partially posted', '06 Web Cycle non-posted document', '08 Web Cycle posted document', '09 Paid', '10 Collective invoice complete', '11 Collective invoice incomplete', '13 Rejected', and '23 Parked'. At the bottom, there is a 'Position...' button and the text 'Entry 1 of 12'.

| Internal status | Description |
|-----------------|-------------------------------|
| 01 | Unprocessed |
| 02 | Errors |
| 03 | Posted |
| 04 | Deleted |
| 05 | Partially posted |
| 06 | Web Cycle non-posted document |
| 08 | Web Cycle posted document |
| 09 | Paid |
| 10 | Collective invoice complete |
| 11 | Collective invoice incomplete |
| 13 | Rejected |
| 23 | Parked |

Define external document status



The screenshot shows the SAP configuration interface for 'External document status'. The window title is 'Display View "External document status": Overview'. The interface includes a menu bar with options like 'Table view', 'Edit', 'Goto', 'Selection criteria', 'Utilities', and 'System'. Below the menu is a toolbar with icons for navigation and actions. The main area contains a table with two columns: 'External status' and 'Description'. The table has three rows with the following data:

| External status | Description |
|-----------------|-------------|
| E1 | In work |
| E2 | Processed |
| E3 | Payed |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
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| | |
| | |
| | |

Below the table, there are navigation arrows and a 'Position...' button. The status bar at the bottom indicates 'Entry 1 of 3'.

Email servers

Supported protocols

INFO MAIL requires an email account that can be accessed using POP3 or IMAP. It does not support the MAPI protocol used by Microsoft Exchange.

SSL settings

Some email servers only accept SSL connections using a valid certificate. You can specify this certificate information using the following parameters for Java Virtual Machine.

| Parameter | Description |
|---|--|
| javax.net.ssl.trustStore | The path to the file that contains the KeyStore object used by the default TrustManager. |
| javax.net.ssl.trustStorePassword | The password for the KeyStore object used by the default TrustManager. |
| javax.net.ssl.trustStoreType | The type of KeyStore object used by the default TrustManager. |
| javax.net.ssl.keyStore | The path to the file that contains the KeyStore object used by the default KeyManager. |
| javax.net.ssl.keyStorePassword | The password for the KeyStore object used by the default KeyManager. |
| javax.net.ssl.keyStoreType | The type of KeyStore object used by the default KeyManager. |

The parameters can be specified using one of two methods:

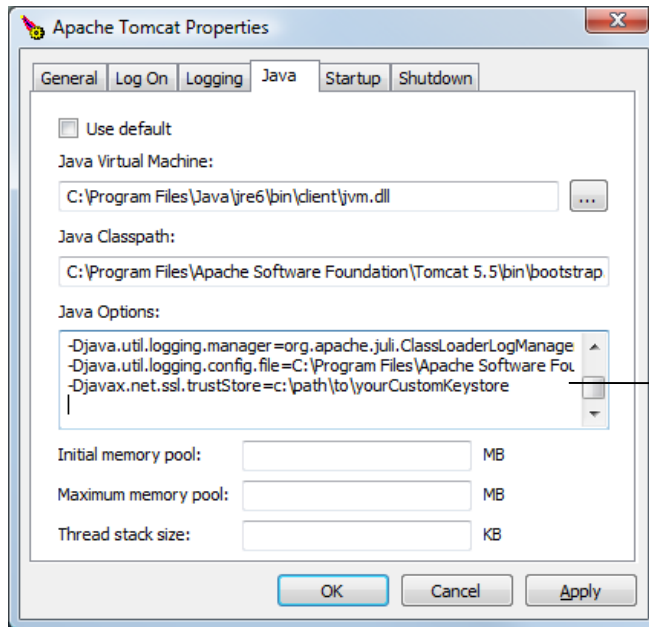
- In the Apache Tomcat Properties dialog.
- In the `settings.properties` file.

Apache Tomcat

Start the **Configure Tomcat** application.

It can be started from the Windows Start Menu or by running `tomcat5w.exe` in the Tomcat `bin` directory.

Enter the SSL parameters in the **Java Options** box on the **Java** tab.



You must include the -D option before each entry (this is the Java option to specify environment properties.)

settings.properties

Enter the Java environment property=value pairs in the INFO MAIL `settings.properties` file. For example:

```
javax.net.ssl.trustStore=c:\path\to\yourCustomKeystore
```

Note: Do not add the -D Java option before each entry.

Appendix A: Plug-ins

Configuration

Plug-in configuration is set both in the Web Application and SAP.

Web application configuration

```
<init-param>

    <param-name>plugin1</param-name>

    <param-value>com.readsoft.ebydos.plugin.Plugin</param-value>

</init-param>
```

- Param-name must be plugin plus the number of the plugin. Param-value must be the full plugin name.
- The plugin class must implement two methods, one for initialization and one for running.
- Plugin classes must be copied to the `WEB-INF/lib` directory. The properties file name must be the same as the plugin name set in the parameters with a `.properties` extension. This properties file must be in the `web-app/conf` directory.
- When plugins are set, the plugins are executed instead of INFO MAIL functionality.

Initialization method

The initialization method can implement one of two possible interfaces:

```
public void init(SAPLogonBean logonBean, Log log, Properties props)
```

throws Exception : this method will be called on init web app and on initializing web app and on start

```
public void init(SAPLogonBean logonBean, Log log, Properties props, Hashtable propsTable)
```

throws Exception : this method will be called on init web app and on initializing web app on start.

Parameter propsTable has additional properties files that are in conf dir and name is as plugin name plus some string and extension as properties. Key in propsTable is substring of file name on the disk. For example, for the `com.ebydos.cockpit.infomail.TestJobPlugin.mimetypes.properties` file, the key will be, `mimetypes.properties`.

Running method

```
public void run() throws Exception: this method is run periodically according to the scheduler.
```