

IBM Enterprise Content Management System Monitor
Version 5.2

Logfile Adapter Guide FileNet[®] P8



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Before using this information and the product it supports, read the information in "Notices" at the end of this document.

This edition applies to version 5, release 2, modification 0 of IBM Enterprise Content Management System Monitor (product number 5724R91) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Preface

About this document

Who should read this guide?

The target audience for this guide are those who install or maintain ECM SM environments.

Every effort has been made to provide you with complete installation instructions. If information becomes available after the creation of the installation media from which you accessed this guide, we will provide an updated version of the guide on the IBM/FileNet Customer Service and Support web site (<http://www.ibm.com/support>). As a general rule, you should refer to the IBM web site to obtain the current version of this guide.

This guide provides instructions for installing and/or upgrading IBM Enterprise Content Management System Monitor, and identifies the IBM/FileNet and 3rd Party products that are certified for the current release. Be aware that each release of IBM Enterprise Content Management System Monitor may have multiple Interim Fixes, or Fix Packs available for installation, each with potentially different dependencies and installation requirements. Therefore, before you attempt to install or upgrade IBM Enterprise Content Management System Monitor, review the list of releases and their associated dependencies on the IBM Support web site (<http://www.ibm.com/support>).

Before you start

Users of the guide should have knowledge about Unix and/or Microsoft Windows® operating system, web servers, database systems and middleware platforms. The configuration of managed systems (clients) requires advanced knowledge of all IBM ECM systems that should be monitored.

If you lack the requisite skill sets it is strongly recommended to have IBM Lab Services or a certified ValueNet Partner in order to install this product.

Where you find this guide

You can find this documentation on the ECM SM installation media in the following folder:

UNIX: `<Mount point>/INSTALL/docs`

Windows: `<Drive letter>:\INSTALL\docs`

Feedback on documentation

Send your comments by e-mail to comments@us.ibm.com. Be sure to include the name of the product, the version number of the product, and the name and part number of the book (if applicable). If you are commenting on specific text, include the location of the text (for example, a chapter and section title, a table number, a page number, or a help topic title).

ECM SM CALA

This chapter provides detailed installation information about the ECM SM CALA.

Who should read this chapter?

We recommend this chapter for all who are interested in adapter details or in tuning the adapter.

CALA installation

Post Distribution: CALA Installation

This chapter contains a detailed description of the installation script **calainst.sh**. This script is used by installation via the CALA installer used for ECM SM clients and servers..

The settings for the final installation directory CALA_DIR and the CALA cache directory CALA_CACHE_DIR can be specified in the installer GUI.

The table shows the default values:

Installation context	Settings
UNIX-based ECM SM client or server	<code>CALA_DIR = /opt/IBM/ECMSM/cala</code> <code>CALA_CACHE_DIR = /opt/IBM/ECMSM/cala /.cala-cache</code>
Windows-based ECM SM client or server	<code>CALA_DIR = C:\Program Files\IBM\ECMSM\cala</code> <code>CALA_CACHE_DIR = C:\Program Files\IBM\ECMSM\cala \.calacache</code>

These directories are created if they do not exist yet. If you have already distributed CALA (via the ECM SM installer), the installations share the same directories. In this case, you always have only one instance of CALA, the configuration entries are merged into one configuration file.

The script checks if there is sufficient disk space in the filesystem where the CALA is to be installed.

The next step is to stop the adapter if it is already installed. The script calls the scripts and binaries installed by the standard installation to stop CALA. If CALA was installed manually using different script names it must be stopped manually before trying to distribute again.

The standard calls for stopping the CALA are as follows:

interpreter type	CALAstop command
aix4-r1	execute <code>\$CALA_DIR/cala.sh</code> with parameter shutdown
hpux10	execute <code>\$CALA_DIR/cala.sh</code> with parameter shutdown
solaris2	execute <code>\$CALA_DIR/cala.sh</code> with parameter shutdown
w32-ix86	execute <code>\$CALA_DIR/logctlcmd.exe</code> with parameter shutdown or if CALA is running as service execute net stop cala_srv

The CALA configuration file is now generated from the .cala input files found in the repos subdirectory of the CALA installation directory. For a detailed description of the merging process see the *Technical details of CALA configuration*.

Installation of binaries

The binaries have already been transferred to the client in a previous step.

There are two types of installation, Client or Server, that differ in the binaries that are activated:

Client installation:

- ascfileread
- tecfmtfilt
- v2fmtfilt
- oracleread
- ntevtlogread (Windows only)
- mssqlread (Windows only)
- calamon

Server installation

- snmpread
- msgclsfsrv
- tecfmtemit
- tecifcsrv
- snmpemit
- smtpemit
- cmdemit
- reportemit
- mysqlemit

The Server installation contains all client components as well.

Installed binaries

The following table contains a list of binaries that can be found in the CALA installation directory after a CALA configuration has been installed.

Name	Platform	Function
ascfileread[.exe]		reader for ASCII logfiles
cala_srv.exe	w32-ix86	ECM SM CALA service binary
calamon[.exe]		monitoring engine

Name	Platform	Function
calaproxy[.exe]		proxy for communication over firewall
cmdemit[.exe]		command emitter
libcala.dll	w32-ix86	library for common CALA functions
libcala.sl	hpux10	library for common CALA functions
libcala.so	aix4-r1, solaris2	library for common CALA functions
logctlcmd[.exe]		cli interface
logctlsrv[.exe]		main CALA control process
msgclsfsrv[.exe]		message classification server component
mssqlread[.exe]	w32-ix86	reader for MSSQL databases
mysqlemit[.exe]		writer for MySQL databases
oracleread[.exe]		reader for Oracle databases
reportemit[.exe]		report emitter
smtpemit		smtp emitter
snmpemit		snmp emitter
snmpread		snmp reader
tecfmtemit[.exe]		emitter for TEC formatted events
tecfmtfilt[.exe]		filter for TEC format
tecifcsrvend[.exe]		Endpoint TEC interface server (Tivoli based communication)
tecifcsrvsec[.exe]		secure TEC interface server (Tivoli based communication)
tecifcsrvuns[.exe]		unsecure TEC interface server (TCP/IP based communication)
v2fmtfilt[.exe]		filter for V2S format
*msg.dll	w32-ix86	additional DLLs for logging

Configuration of autostart

After successful installation of the binaries, the CALA is configured for autostart. This depends on the target system.

interpreter type	autostart configuration
aix4-r1	<ul style="list-style-type: none"> generate start script <code>/etc/rc.cala</code> appended the following entry to <code>/etc/inittab</code> if it does not exist: <code>cala:2:once:/etc/rc.cala</code>
hpux10	<ul style="list-style-type: none"> generate start script <code>/sbin/init.d/cala</code> create link <code>/sbin/rc3.d/S500CenitCALA</code> create link <code>/sbin/rc0.d/K500CenitCALA</code>
solaris2	<ul style="list-style-type: none"> generate start script <code>/etc/init.d/cala</code>

interpreter type	autostart configuration
	<ul style="list-style-type: none">create link <code>/etc/rc3.d/S500CenitCALA</code>create link <code>/etc/rc0.d/K500CenitCALA</code>
w32-ix86	<ul style="list-style-type: none">execute <code>cala_srv -remove</code> to remove CALA service if it was already installedexecute <code>cala_srv -auto</code> to install service

Registry entries on Windows

The installation of the ECM SM CALA service creates the following registry key:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cala_srv

The following subkeys are added by the installation script calainst.sh:

Subkey	Meaning
CALA_DIR	CALA installation directory
CALA_CACHE_DIR	Directory for CALA cache files
TIV_ENV_FILE	Full-qualified name of the Tivoli environment file for DOS (setup_env.cmd) This entry is needed by the Tivoli based versions of the TEC Interface Server only (Secure or Endpoint version).
CALA_ENV_FILE	Full-qualified name of the additional CALA environment file for DOS (usually %CALA_DIR%/cala_env.cmd; see <i>Customization Issues</i> subchapter <i>Adding environment settings for CALA</i> for details).

These registry keys can be overridden by specifying environment variables.

CALA will now be started.

interpreter type	CALA start command
aix4-r1	execute <code>\$CALA_DIR/cala.sh</code> with parameter <code>startup</code>
hpux10	execute <code>\$CALA_DIR/cala.sh</code> with parameter <code>startup</code>
solaris2	execute <code>\$CALA_DIR/cala.sh</code> with parameter <code>startup</code>
w32-ix86	execute <code>net start cala_srv</code>

Processes

The following processes can be found in the process list (`ps -ef` on UNIX, Taskmanager on Windows) if CALA is up and running.

- ascfileread

- cala_srv
- calamon
- cmdemit
- logctlsrv
- msgclsfsrv
- mssqlread
- mysqlemit
- ntevtlogread
- oracleread
- reportemit
- snmpread
- snmpemit
- smtpemit
- tecfmtemit
- tecfmtfilt
- tecifcsrv[end|sec|uns]
- v2fmtfilt

NOTE Only components referenced in the configuration file logctlsrv.conf will be started.

Distribution logfiles

After successful distribution and installation of CALA, all temporary files will be removed.

The distribution logfile **caladist.log** can be found in the CALA installation directory. The contents of the file will be shown in a subwindow of the CALA installer during the installation process.

Possible error conditions

- Not enough space for CALA binaries in **<directory>**. This message can occur if CALA is already installed and there is only little disk space left. The script does not check if any binaries are overwritten during distribution but requires as much space as if it was performing a new installation.
- Windows service *ECM SM CALA* could not be installed. If you specified a user for CALA installation, this error message can indicate that the user and / or password is invalid.

All other error texts are self-explaining.

Uninstall CALA

Uninstall using the Installer GUI

To remove CALA from a client, you can use the installer GUI. Check the **Remove** option and start the installation process. In this case the CALA installation script **calainst.sh** is called with the command line parameter **-r**.

CAUTION This will remove the COMPLETE configuration! Do not use this option to remove specific logfiles or monitors from the CALA configuration.

Manual uninstall

If you do not want to use the installer GUI, you must remove CALA manually.

If CALA is installed in the default directory described above, you can execute the installation script **calainst.sh** with the command line parameter **-r** to remove CALA and all related files.

NOTE On Windows platforms, the file **calainst.sh** cannot be deleted because it is locked during execution. The same applies to the installation directory **CALA_DIR**. The script and the directory must be removed manually.

If the script **calainst.sh** is not available or CALA is installed in another directory, you must remove the installation manually. The required actions are described in the following paragraphs.

First, make sure to stop CALA by issuing the appropriate stop command. The table of interpreter types and corresponding stop commands can be found above.

Additional de-installation steps depending on the interpreter type:

w32-ix86

Remove the CALA service by executing **cala_srv -remove** from the command line. This removes the service and all related entries from the registry.

hpux10, solaris2

Remove the links mentioned in the table *auto start configuration* and the start script.

aix4-r1

Remove the **/etc/inittab** CALA-entry mentioned in the table *auto start configuration* and the start script.

Finally, remove the CALA installation directory and the CALA cache directory. For the location of these directories see table at the start of this chapter.

Component Architecture

CALA is realized as a multi component Client/Server architecture, which enables customers to realize any kind of centralized and distributed Logfile and monitoring architecture. Almost all components are available on a comprehensive list of platforms (see restrictions on below site).

CALA System platforms

For detailed information about supported server and client platforms check the latest release notes.

Supported JAVA JRE or JDK versions (CALA V2S Editor prerequisite)

For detailed information about required Java JRE or JDK versions for JAVA tools check latest release notes.

Implementation on Microsoft Windows based systems

Implementation of CALA on the Windows system platform has been implemented as a Windows Service.

CALA installation as Windows Service

Installation of the Windows Service is performed using the program **cala_srv.exe**.

Installation with start mode manual : **cala_srv.exe -install**

Installation with start mode automatic : **cala_srv.exe -auto**

The Windows Service normally runs under the Local System Account. To install the service as another user, use the following commands:

Installation with start mode manual : **cala_srv.exe -install <user> <password>**

Installation with start mode automatic : **cala_srv.exe -auto <user> <password>**

CALA de-installation on Windows systems

To remove the CALA Windows service start **cala_srv.exe -remove** from the command line.

Configuration file logctlsrv.conf for a Windows service installation

If CALA is installed as an Windows service, configuration file **logctlsrv.conf** must either be placed in directory/folder `%SystemRoot%\system32\config` or in a directory/folder of your choice, which is mapped to the environment variable `CALA_DIR` of the Windows system environment.

The CALA Windows service reads environment variables `CALA_DIR` and `CALA_CACHE_DIR` out of the registry (registry key `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cala_srv`) if they are not mapped in the environment.

If all registry keys are set properly there is no need to reboot the Windows system.

NOTE The CALA processes can also be started as a normal program instead of an Windows service. In this case the CLI-program **logctlcmd** (refer to description) should be used should be used for starting and stopping of the CALA components.

NOTE On Windows, CALA needs the file **PSAPI.DLL** to be available on the system. The file is automatically installed with CALA in the CALA installation directory and must not be removed.

Client / Server Architecture

To satisfy various requirements (source-independent duplicate recognition, performance, configuration during operation), a specific client/server architecture was developed for the CALA system which distinguishes between the following functions:

- Reading of event sources
- Event filtering
- Classification and duplicate recognition
- Transmitting data (e.g. sending events to the T/EC)

All component of this architecture can be implemented on various systems, or just on a single system (computer).

This open architecture enables CALA to be implemented at almost any desired level of complexity or heterogeneity.

In addition, the CALA firewall component calaproxy can be interposed between any FIR-based component.

Implemented components

Read-only component (Reader)

Readers can be used to read event sources. Event sources can be regular files (Logfiles) or pipes, but also Windows Event Logs. The following readers are components of the CALA module:

Component name	Component type	Description
ascfileread	ASCII File reader	This component reads files and pipes available in ASCII format.
ntevtlogread	Windows Event Log reader	This component reads out the Windows Event Log.
mssqlread	MS SQL database reader	This component reads logfiles written into a MSSQL database.
oracleread	Oracle database reader	This component reads logfiles written into a oracle database.
jdbcread	JDBC database reader	This component reads logfiles written into a database accessible via JDBC.

For all readers there is a special CLI parameter (`-E`), which should be used whenever the intention is solely to process events from the sources being read and which have been written to (generated) since the adapter was started.

NOTE As an option, other readers can be implemented on a customer-specific basis.

Filter component (Filter)

Filters are used to disassemble data streams, which were read out of event sources by readers. In all cases, readers are only able to transmit to filters because only they have the ability to disassemble unstructured data streams into events (FIRs) based on format definitions (format files).

In technical terms, filters are arranged between the reader and the processing process or the emitter process.

Component name	Component type	Description
tecfmtfilt	T/EC Format filter	Interprets and classifies input from components ascfileread and ntevtlogread based on Tivoli .fmt files. This protects existing customer investment in format files.

Component name	Component type	Description
v2fmtfilt	Complex filter	This component filters and interprets input from reader ascfileread based on the CALA-format description.

Event generating components

Component name	Component type	Description
snmpread	SNMP trap receiver	Receives SNMP traps and forwards them as CALA events (FIRs) to the specified targets.
calamon	Monitoring engine	Executes monitoring scripts/programs and generates events (FIRs) depending on return codes or output.

Application proxy for DMZ

Component name	Component type	Description
calaproxy	Application proxy	This component is used as an application proxy in Demilitarized Zones (DMZ). This sends received FIRs to a downstream component on a computer on the far side of a firewall.

Control component logctlsrv

Component name	Component type	Description
logctlsrv	Control server	This component is used to control and configure all other CALA components.

Logctlsrv is controlled using the CLI (command line interface) **logctlcmd**. **Logctlcmd** reads configuration information from the file **logctlsrv.conf** and starts the process **logctlsrv**, which then takes control of the configuration management of all other CALA component.

CLI logctlcmd

The Command Line Interface **logctlcmd** is used on all platforms supported by external control of the CALA component.

NOTE Starting and stopping the CALA component on Windows systems can be implemented by the Windows Service Manager (refer to CALA installation as an Windows service) as well.

Supported logctlcmd commands

startup

Starting the CALA component. A CALA Windows installation is started by the command **net start cala_srv** if CALA is installed as a service.

shutdown

Stopping the CALA component. A CALA Windows installation is stopped by the command **net stop cala_srv** if CALA is installed as a service.

restart

Restarts the CALA component

status

Status query of the CALA component. In addition to the output of all status information for the installed CALA component, output includes information about the Tivoli environment employed as well as important CALA environment variables.

reconfigure

Reconfiguration of the CALA component during runtime. Changes to the configuration (configuration file **logctlsrv.conf**) are taken into account at this time.

maintenance_on

Activation of the Maintenance Level (processing is delayed)

maintenance_off

Deactivation of the Maintenance Level (processing is restarted)

test <logical_name>

This command is employed in order to generate a CALA test event from a component. This test event can be used to test communication between the component (local on a computer or on a remote computer).

NOTE The CALA programs need a shared library which has to be available to them. See the following table for the name of the library and the environment variable to be set to its path.

operating system	filename of shared library	environment variable
MS Windows	libcala.dll	PATH
AIX	libcala.so	LIBPATH
Solaris	libcala.so	LD_LIBRARY_PATH
Linux	libcala.so	LD_LIBRARY_PATH
HP-UX	libcala.sl	SHLIB_PATH

Generating test events

Apart from the emitters (senders), all components are able to generate test events. This means that communication can be tested between the individual components. Test events can be generated using the CLI call:

logctlcmd test <logical componentname>

Possible component architecture (predecessors / successors)

The following table illustrates the possible component architecture with predecessors (previous stage) and successor (subsequent stage).

Componentname	predecessor	successor
ascfileread	-	tecfmtfilt, v2fmtfilt
ntevtlogread	-	tecfmtfilt v2fmtfilt
tecfmtfilt	ascfileread, ntevtlogread	any FIR processing component ¹
v2fmtfilt	ascfileread, ntevtlogread	any FIR processing component
snmpread	-	any FIR processing component
calamon	-	any FIR processing component
mssqlread	-	any FIR processing component
oracleread	-	any FIR processing component
jdbcread	-	any FIR processing component
javasrv	-	any FIR processing component
calaproxy	any FIR generating component ²	any FIR processing component
remote component	any FIR generating component	any FIR processing component

¹ FIR processing components are:

- calaproxy
- remote component

² FIR generating components are:

- tecfmtfilt
- v2fmtfilt
- calamon
- snmpread
- mssqlread, oracleread, jdbcread
- javasrv
- calaproxy
- remote component

Communication between CALA components

Communication between individual CALA components is based on TCP/IP communication with variable package size.

The data records read in (Logs, Windows Event Log, Syslog, etc.) are transferred by the filter processes to Filter Input Records (FIR) which form the basis for communication between all other CALA components.

When this standardized data object (FIR) is implemented for CALA component communication, CALA components are able to link up in almost any conceivable order.

The data (FIRs) can be transmitted through ports configured in any desired manner, and every component can also receive or transmit data via any desired number of ports.

Default TCP ports used by CALA components

The following table shows the default TCP ports used by CALA components. Chapter 10 "Configuration file logctlsrv.conf" describes how the port settings can be changed.

component name	default port
logctlsrv	23861
logctlcmd	23860
ascfileread	23831
ntevtlogread	23832
calamon	23833
snmpread	23834
oracleread	23835
mssqlread	23836
jdbcread	23837
tecfmtfilt	23838
V2fmtfilt	23839
calaproxy	23841

Event caching

If a component loses contact with a downstream component during the transmission of events, these events are then stored in a cache file. In this case, the client process tries to reconnect to the server every 5 seconds.

As soon as a new connection can be established, the cached event can be transmitted. Once the transmission confirmation has been received, the cache entries are deleted.

Cache files are stored in the directory/folder defined by the environment variable `CALA_CACHE_DIR`. If `CALA_CACHE_DIR` has not been set, environment variables `TEMP` and `TMP` (with Windows also the `SystemRoot`) are evaluated. If none of these variables has been set, the cache file is stored in the current directory/folder.

NOTE The cache files are named `.<client>.<server>.cache`, so they may not be displayed by a normal `ls` call.

CALA configuration

Global information

This chapter provides detailed information about CALA configuration.

First, it describes global files like templates and general input files. These files are used for all datatypes in a configuration.

The following sub-chapters provide descriptions of all datatype definitions contained in this module.

Who should read this chapter?

We recommend this chapter for all who are interested in details about the logfiles processed by CALA.

Related information

For information about the directory structure on client see *Technical details of CALA configuration*.

Global configuration files

Configuration files

These files are located directly in the CALA installation directory (\$CALA_DIR):

Name	Function
<code>logctlsrv.conf</code>	CALA configuration file; this file is generated from the input files and templates described in this chapter

Templates

The template files serve as base for the main CALA configuration file `logctlsrv.conf`. The template is included in the package you select for installation.

Name	Function
<code>logctlsrv.client.templ_CLIENT</code>	template for ECM SM client configuration
<code>logctlsrv.complete.templ_SERVER</code>	template for ECM SM server configuration

Configuration input files

These files are used in combination with the template files and the input files for the selected datatypes to create a client-specific configuration file. The input files are located in \$CALA_DIR/**repos**.

Name	Function
<code>aux_fnislog.cala</code>	auxkey definitions for datatype <i>fnislog</i> . The auxkey definitions are used for dupe detection based on <i>error_id</i> and the starting characters of <i>original error text</i> (optional).
<code>remapper_fnislog.cala</code>	remapper definitions for datatype <i>fnislog</i> ; controls renaming of internal slots to the slots defined for the event console
<code><datatype>.cala</code>	description files for each datatype; the datatypes available in this module are described in the following chapters

For a detailed description of the input files see *Technical details of CALA configuration*.

Datatype acsap – ACSAP R3/J2EE Logfiles

Processing of log files created by FileNet ACSAP R3/J2EE connection.

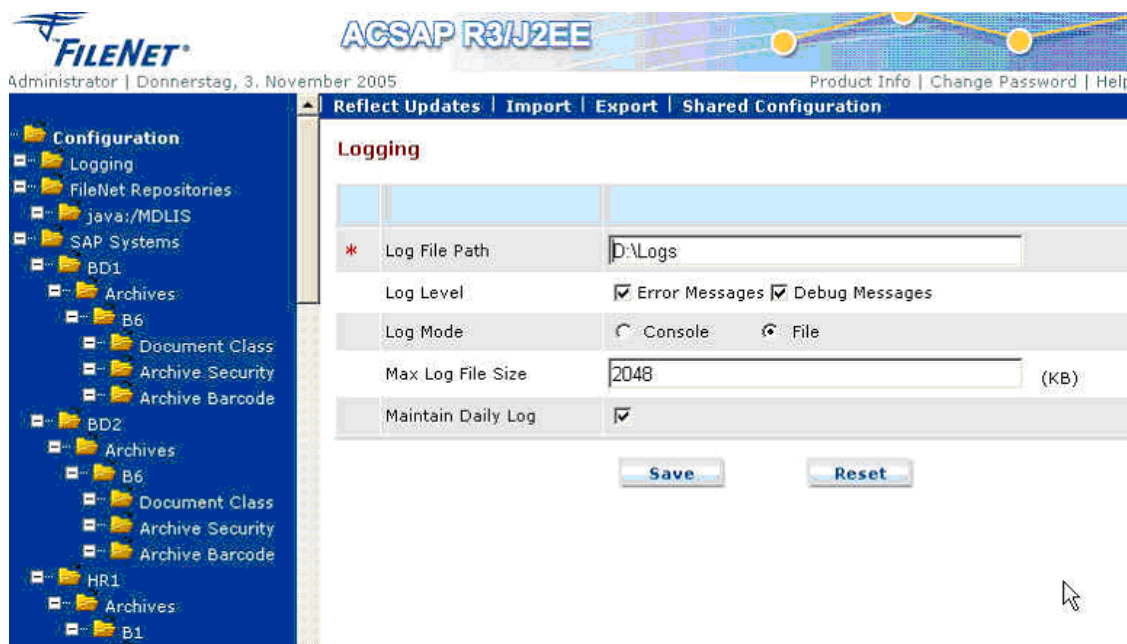
Application and supported versions

- FileNet ACSAP 1.x, 2.0 and 2.1

Data sources

Logfiles

- ACSAP_J2EE.txt** or **ACSAP_J2EEDD_MM_YYYY.txt**
- If more than one file per day exists, it is named **ACSAP_J2EEDD_MM_YYYY_1.txt** and so on
Path is configurable in the ACSAP administration console, the default value is “user home”.



ACSAP Administration Console

How to activate ACSAP logging

See above, path, log level, log file size and rotation is defined in the ACSAP administration console.

Related files

File	Function
acsap.cala	Input file for configurator; default path d:\logs
acsap.v2s	Format file; source="FNISLOG", sub_source="FileNet_ACSAP_Log", severity for errors: CRITICAL

Datatype apache_access - Apache access logfiles

Processing of the server access log that records all requests processed by the server.

Application and supported versions

- Apache Web Server 2.0

Data sources

Logfiles

- `<Apache path>/logs/access.log`

How to activate Apache access logging

The Apache access logfile is always written.

Related files

File	Function
<code>apache_access.cala</code>	Input file for configurator
<code>apache_access.v2s</code>	Formatfile
<code>apache_access_filter_tec.map</code>	filter harmless and warning events
<code>apache_access_status.map</code>	set severity in slot status; used for mysqlmit (non-Tivoli based version only)
<code>apache_access_codes.map</code>	map numeric Apache messages to text
<code>apache_access_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>apache_access_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>apache_access_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)

Additional information

The format file can process log files in the Common Logfile Format (CLF) only. For details about the log file format see Apache HTTP Server documentation (<http://httpd.apache.org>).

Datatype apache_error - Apache error logfiles

Processing of the server error log where Apache httpd will send diagnostic information and record any errors that it encounters in processing requests.

Application and supported versions

- Apache Web Server 2.0

Data sources

Logfiles

- `<Apache path>/logs/error.log`

How to activate Apache error logging

The Apache error logfile is always written.

Related files

File	Function
apache_error.cala	Input file for configurator
apache_error.v2s	Formatfile
apache_error_filter_tec.map	filter harmless and warning events
apache_error_status.map	set severity in slot status; used for mysqlmit (non-Tivoli based version only)
apache_error_smtp.map	create slots required for smtpemit (non-Tivoli based version only)
apache_error_smtp.rmp	no email for HARMLESS and WARNING events (non-Tivoli based version only)

Additional information

For detailed information about controlling the type of information that is written to the error log file see Apache HTTP Server documentation (<http://httpd.apache.org>).

Datatype fncap_trc - FileNet Capture Tracelog

Processing of tracelog events created by FileNet Capture.

Application and supported versions

- FileNet Capture 5.0 and 5.1

Data sources

Databases

- table *NP_TRACELOG* from the ODBC datasource for logging; default value is *FileNet_Log*

How to activate Capture Trace logging

FileNet Capture Trace Logging can be configured using the IDM Trace Configuration application. Mark the **Enable Tracing** option and either select or specify the name of the ODBC datasource for trace logging.

Related files

File	Function
<code>fncap_trc.cala</code>	Input file for configurator
<code>fncap_trc_class.map</code>	classmap file; maps Capture EventType to classnames
<code>fncap_trc_dup.map</code>	duplicate detection
<code>fncap_trc_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>fncap_trc_sev.map</code>	set severity and create entry for slot msg
<code>fncap_trc_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>fncap_trc_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)
<code>fncap_trc_status.map</code>	set severity in slot status; used for mysqlemit (non-Tivoli based version only)

Datatype fnemlog - FileNet Email Manager, Records Crawler and ICC

Processing of event log files created by Email Manager.

Application and supported versions

- FileNet Email Manager 3.5, 3.6, 3.7 and 4.0.x, Records Crawler 3.x and 4.0.x, ICC 2.1 and 2.2

Data sources

Logfiles

- <FileNet EM log path>/exchconn-YYYY-MM-DD.log
- <FileNet EM log path>/lotusconn-YYYY-MM-DD.log
- <FileNet EM log path>/pstsconn-YYYY-MM-DD.log
- <FileNet EM log path>/UFICoreService-YYYY-MM-DD.log

Monitors for all Email Manager installations

- ProcessInstances* for the Email Manager Windows services

How to activate Email Manager logging

FileNet Email Manager log files are always written. The directory can be set via the Email Manager Configuration tool.

NOTE If the logfile directory is changed, the FSM Client on the Email Manager machine must be reconfigured as well.

Related files

File	Function
fnemlog.cala	Input file for configurator
fnemlog.v2s	Formatfile
fnemlog_drop.map	drop specific events (initially empty)
fnislog_filter_snmp.map	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)

File	Function
<code>fnislog_filter_tec.map</code>	change numeric severity to TEC severity; filter harmless and/or warning events (Tivoli based version only)
<code>fnislog_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>fnislog_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)
<code>fnislog_status.map</code>	set severity in slot status; used for mysqlemit (non-Tivoli based version only)

Datatype fnfelog - FileNet Capture Fax Entry

Processing of event log files created by Fax Entry.

Application and supported versions

- FileNet Capture Fax Entry 5.0

Data sources

Logfiles

- `<FileNet Fax Entry log path>/FETrace.log`

How to activate Capture Fax Entry logging

FileNet Capture Fax Entry log files are always written. The logfile location and name can be changed via the FileNet Capture Fax Entry application. Select **Configure Trace ...** from the menu. Select the **Activity Trace** tab and enter the anme of the logfile in the field **Trace file name**. Make sure that the **Write entries to file** option is checked.

NOTE If the logfile directory is changed, the FSM Client on the Fax Entry machine must be reconfigured as well. The name of the logfile should not be changed.

Related files

File	Function
<code>fnfelog.cala</code>	Input file for configurator
<code>fnfelog.v2s</code>	Formatfile
<code>fnfelog_drop.map</code>	drop specific events (initially empty)
<code>fnfelog_dup.map</code>	duplicate detection
<code>fnfelog_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>fnfelog_filter_tec.map</code>	change numeric severity to TEC severity; filter harmless and/or warning events (Tivoli based version only)
<code>fnfelog_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>fnfelog_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)

File	Function
fnfelog_status.map	set severity in slot status; used for mysqlemit (non-Tivoli based version only)

Datatype fnislog - FileNet ELOG and HP/II/MR/II Logfiles

Processing of event log files created by IBM FileNet Image Manager and of ImageImport logfiles.

Application and supported versions

- IBM FileNet Image Manager 3.4.x, 3.5, 3.6.3 ESE, 4.0.x, 4.1.x and 4.2
- Image Import 3.0.x
- FileNet Capture Print 5.0
- FileNet RCS 5.0

Data sources

Logfiles

- <FileNet IM local path>/logs/elogs/elogYYYYMMDD
- <FileNet IM local path>/logs/elogs/elYYYYMMDD
- <FileNet IM local path>/tmp/logs/1/elogYYYYMMDD
- <FileNet IM local path>/tmp/logs/1/elYYYYMMDD
- <FileNet ImageImport path>/journals/*YYYYMMDD
- <FileNet Capture Print log directory>/logs/elogs/elYYYYMMDD
- <FileNet Capture Print log directory>/logs/ims_logs/*.txt
- <FileNet RCS log directory>/client/logs/walYYYYMMDD

How to activate ELOG, Print and RCS logging

IBM FileNet IM event log files and logfiles for FileNet Capture Print and FileNet RCS are always written.

Logfiles for Image Import can be activated when starting ImageImport processes.

Related files

File	Function
<code>fnislog.cala</code>	Input file for configurator
<code>fnislog.v2s</code>	Formatfile
<code>fnislog_dup.map</code>	dupe detection based on error_id and original error text; references auxkeys

File	Function
<code>fnislog_evt.map</code>	set severity; in the Tivoli version, add cause and corrective action to event as well
<code>fnislog_except_*.map</code>	control special handling for events based on error_id and first characters of original error text
<code>fnislog_origsev.map</code>	restore original severity from ELOG logfile
<code>fnislog_filter_tec.map</code>	change numeric severity to TEC severity; filter harmless and/or warning events (Tivoli based version only)
<code>fnislog_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>fnislog_status.map</code>	set severity in slot status; used for mysqlmit (non-Tivoli based version only)
<code>fnislog_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>fnislog_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)

Additional information

The datatype `fnislog` has an additional `dupekey=` entry in the configuration file. This `dupekey` entry handles duplicate detection for all event tuples that are not processed by `fnislog_dup.map`. For these events, the number of occurrences will be counted in the internal slot `$ESCCNT` which is renamed to `occurrences_before_sent` for TEC events.

Datatype fnpalog - FileNet Process Analyzer

Processing of event log files created by Process Analyzer.

Application and supported versions

- FileNet Process Analyzer 3.5, 4.0.x, 4.5x

Data sources

Logfiles

- `<FileNet PA path>/palog.txt*`

How to activate Process Analyzer logging

FileNet Process Analyzer log files are always written. The directory and filename can be set via the FileNet Task Manager tool.

NOTE If the logfile directory is changed, the FSM Client on the Process Analyzer machine must be reconfigured as well.

Related files

File	Function
<code>fnpalog.cala</code>	Input file for configurator
<code>fnpalog.v2s</code>	Formatfile
<code>fnpalog_drop.map</code>	drop specific events (initially empty)
<code>fnpalog_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>fnpalog_filter_tec.map</code>	change numeric severity to TEC severity; filter harmless and/or warning events (Tivoli based version only)
<code>fnpalog_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>fnpalog_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)
<code>fnpalog_status.map</code>	set severity in slot status; used for mysqlemit (non-Tivoli based version only)

Datatype ntlog - Windows Eventlog

Processing of Windows Eventlog entries.

Application and supported versions

- Windows NT 4.0 (English)
- Windows 2000 (English), Windows 2003 (English), Windows XP, Windows 2008, Windows 7 (all English)

Data sources

Eventlogs

- Application
- Security
- System

How to activate Windows Event logging

Windows event logs are always written.

Related files

File	Function
<code>ntlog.cala</code>	Input file for configurator
<code>ntlog.fmt</code>	Formatfile
<code>ntlog_filter_tec.map</code>	filter harmless and/or warning events (Tivoli based version only)
<code>Applicationflt.in</code>	inbound prefilter for FileNet events from Application log
<code>Applicationflt.out</code>	outbound prefilter for informational events from Application log (non-FileNet version only)
<code>Systemflt.out</code>	outbound prefilter for informational events from System log

Datatype p8pe50 - FileNet P8 Process Engine Logfiles

Processing of FileNet P8 Process Engine logfiles.

Application and supported versions

- FileNet P8 5.0

Data sources

Logfiles

- `<p8_pemgr_logging_dir>/pemgr_system.log`
- `<p8_srv_logging_dir>/pesrv_system.log`

How to activate P8 logging

Related files

File	Function
<code>p8pe50.cala</code>	Input file for configurator
<code>p8pe50.v2s</code>	Formatfile
<code>p8pe50_drop.map</code>	dummy file for configurator
<code>p8pe50_status.map</code>	dummy file for configurator
<code>p8pe50_smtp.map</code>	dummy file for configurator
<code>p8pe50.rmp</code>	suppress HARMLESS / WARNING events for smtp

Additional information

View the FileNet P8 documentation for additional information about P8 logging.

Datatype p8srverror - FileNet P8 Server Error Logfiles

Processing of FileNet P8 server error logfiles (AE and CE).

Application and supported versions

- FileNet P8 3.0, 4.0, 4.5, 4.5.x, 5.0

Data sources

Logfiles

- `<p8_logging_dir>/p8_server_error.log` (depends on Application Server settings)

How to activate P8 logging

Active Logging at the Application Server settings, where P8 is deployed. Verify the configured P8 logfile name.

Related files

File	Function
<code>p8srverror.cala</code>	Input file for configurator
<code>p8srverror.v2s</code>	Formatfile
<code>p8srverror_drop.map</code>	dummy file for configurator
<code>p8srverror_status.map</code>	map severity to numerical value in slot <i>status</i> ; copy class name to slot <i>value</i>
<code>p8srverror_smtp.map</code>	dummy file for configurator
<code>p8srverror_smtp.rmp</code>	suppress HARMLESS / WARNING events for smtp-permit

Additional information

View the FileNet P8 documentation for additional information about P8 logging.

Datatype vwppm_trc - FileNet PPM Tracelog

Processing of logfiles for PPM activity, such as processes started, startup information, and exceptions encountered.

Application and supported versions

- eProcess 4.2.x
- eProcess 5.0, 5.1
- FileNet P8 2.0.1, 3.x

Data sources

Logfiles

- \$TEMP/vwppm.trc on the Process Engine

How to activate PPM Trace logging

This file is created when you turn on PPM debugging when starting the PPM process.

PPM debugging can be turned on using the task *Process Engine Configuration*. Mark the **PPM Processes** check box in the PPM configuration dialog.

Related files

File	Function
vwppm_trc.cala	Input file for configurator
vwppm_trc.v2s	Formatfile
vwppm_trc_filter_tec.map	filter harmless and warning events
vwppm_trc_status.map	set severity in slot status; used for mysqlmit (non-Tivoli based version only)
vwppm_trc_filter_snmp.map	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
vwppm_trc_smtp.map	create slots required for smtpemit (non-Tivoli based version only)
vwppm_trc_smtp.rmp	no email for HARMLESS and WARNING events (non-Tivoli based version only)

Additional information

The logfile is created in the directory where the PPM is started. The start task included in the IBM Tivoli integration for FileNet changes to the \$TEMP directory (normally /tmp or /var/tmp on UNIX, C:\TEMP or C:\WINNT\TEMP on Windows platforms) before starting the PPM. If the PPM is started via the FileNet Process Task Manager, the logfile is located in the home directory of the fnsw user.

Datatype vwrmi - FileNet RMI Registry Log

Processing of logfiles for RMI registry activity.

Application and supported versions

- eProcess 4.2.x
- eProcess 5.0, 5.1
- FileNet P8 2.0.1, 3.x

Data sources

Logfiles

- `${TEMP}/vwrmi.log` on the Process Engine

How to activate RMI Registry logging

This file is created when you turn on PPM debugging when starting the PPM process.

PPM debugging can be turned on using the task *Process Engine Configuration*. Mark the **PPM Processes** check box in the PPM configuration dialog.

Related files

File	Function
<code>vwrmi.cala</code>	Input file for configurator
<code>vwrmi.v2s</code>	Formatfile
<code>vwrmi_filter_tec.map</code>	filter harmless and warning events
<code>vwrmi_status.map</code>	set severity in slot status; used for mysqlmit (non-Tivoli based version only)
<code>vwrmi_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>vwrmi_smtp.map</code>	create slots required for smtpemit (non-Tivoli based version only)
<code>vwrmi_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)

Additional information

The logfile is created in the directory where the PPM is started. The start task included in the IBM Tivoli integration for FileNet changes to the \$TEMP directory (normally `/tmp` or `/var/tmp` on UNIX, `C:\TEMP` or `C:\WINNT\TEMP` on Windows platforms) before starting the PPM. If the PPM is started via the FileNet Process Task Manager, the logfile is located in the home directory of the fnsw user.

Datatype vwrouter_trc - FileNet Router Tracelog

Processing of logfiles for router activity on the Application Engine or web server.

Application and supported versions

- eProcess 4.2.x
- eProcess 5.0, 5.1
- FileNet P8 2.0
- FileNet P8 2.0.1
- FileNet P8 3.x

Data sources

Logfiles

- `${TEMP}/<router_name>.trc` on the Application Engine or web server

How to activate FileNet Router logging

This file is created when you set the "Debug level" to anything other than 0 when starting a router.

Router debugging can be turned on using the task *Process Engine Configuration*. Select a value greater than zero from the **Debug Level** listbox in the router configuration dialog.

Related files

File	Function
<code>vwrouter_trc.cala</code>	Input file for configurator
<code>vwrouter_trc.v2s</code>	Formatfile
<code>vwrouter_trc_filter_tec.map</code>	filter harmless and warning events
<code>vwrouter_trc_status.map</code>	set severity in slot status; used for mysqlmit (non-Tivoli based version only)
<code>vwrouter_trc_filter_snmp.map</code>	set severity in slot spectype or value2 depending on snmp version (non-Tivoli based version only)
<code>vwrouter_trc_smtp.map</code>	create slots required for smtpmit (non-Tivoli based version only)
<code>vwrouter_trc_smtp.rmp</code>	no email for HARMLESS and WARNING events (non-Tivoli based version only)

Additional information

The logfiles are created in the directory where the router is started. The start task included in the IBM Tivoli integration for FileNet changes to the \$TEMP directory (normally `/tmp` or `/var/tmp` on UNIX, `C:\TEMP` or `C:\WINNT\TEMP` on Windows platforms) before starting the router. If the router is started via the FileNet Process Task Manager, the logfiles are located in the home directory of the fnsw user.

The initial `vwrouter_trc.cala` files does not contain any `LOG_*` entries. The `LOG_*` entries are added automatically on the client depending on the defined routers.

Customization Issues

This chapter contains the most common customization tasks for CALA. For a complete description of all CALA options see *CALA components*.

Globalization settings (NLS support)

In general log file and Eventlog entries are processed with the character settings of the system. The globalization support additionally allows processing logfiles containing characters that are not identical with the system settings.

Example: To process a logfile containing character set 'ISO-2022-JP' characters the following settings need to be used:

- `C:/TEMP/logs/mylogfile.log:ISO-2022-JP`

The complete list of all supported character sets are added as an appendix.

Adding logfile definitions

The logfiles for each datatype are defined in the corresponding .cala file. The datatype controls which format file will be used to parse the logfile. If you want to add logfiles to the CALA configuration, you must make sure that they can be processed with the format files associated with the datatype.

These are the default logfile settings:

Datatype *fnislog* - FileNet ELOG Logfiles and HP II / MR II Logfiles

- `${__FNIS__FN_LOC_PATH}/logs/elog/elogYYYYMMDD`
- `${__FNIS__FN_LOC_PATH}/logs/elog/elYYYYMMDD`
- `${__FNIS__HP II_PATH}/journals/*YYYYMMDD`

Datatype *fn dw4log* - FileNet DocWarehouse 4.0 Logfiles

- `/tmp/srvlink.log`
- `${__FNIS__SRV LINK_PATH}/srvlink.log`
- `${SystemRoot}/srvlink.log`

To add more logfiles for a datatype, unpack the corresponding .tar.gz archive, edit the .cala file directly and recreate the .tar.gz archive.

Adding message map definitions

You can add your own message map definitions to the CALA configuration.

First, create a message map file according to the map files provided with the modules. The name of the message map file must follow the naming convention `<datatype>_<suffix>.map`.

Now add the new map entry to the appropriate .cala file.

You must edit the file `<datatype>.cala` which is located in the directory `temp` in the configuration tar.gz archive (see *Technical details of CALA configuration*, section *Directory structure in ECM SM installation archives* for details of the configuration archives).

Add a block for the message map file. The block must look like this:

```
MAP_NAME_<n>=<suffix>
MAP_PRI_TYPE_<n>=v2
MAP_TARGET_<n>=<target>
```

`<n>` is the number of the map. Note that the sequence of the `MAP_` entries in the .cala file is relevant for the processing of the message maps. Make sure that the numbering of the map entries is unique.

The `MAP_TARGET` entry can be copied from the existing map entries.

Adjusting port numbers

The components of the ECM SM CALA use ports for their communication. If you want to change the standard ports, make sure to change the `-P <portnum>` entry as well as the corresponding `port!<portnum>` specification. You can change the port numbers after configuration / distribution of CALA if you want to change them for one target only. If you want to change the port numbers for all targets, you can edit the template file.

Component	Standard port number
ascfileread	23831
ntevtlogread	23832
tecfmtfilt	23838
v2fmtfilt	23839
mssqlread	23836
oracleread	23835
calamon	23833
javasrv/pchread	23849
snmpread	23834
msgclsfsrv	23840
tecfmtemit	23842
tecifcsrv	23847
snmpemit	23845
smtpemit	23846
cmdemit	23843
reportemit	23844

If your CALA installation is client-server based, the client component uses the port specified for `msgclsfsrv` in the server template as remote port number (23840 in the table above).

Activate logging for CALA

You can turn on logging for each of the CALA components. Add the `-d:<loglevel>:<logfilename>` parameter to the configuration entry of the component.

The `<loglevel>` can be a number between 0 and 9. The lower the loglevel is, the more will be written to the logfile.

Note that the logfile may grow very fast if you choose a high loglevel and process large logfiles.

The following configuration fragment shows an entry for the component `ascfileread` with activated logging. Note that the referenced subdirectory `logs` must already exist to allow creation of the logfile `ascfileread.log`.

```
ascfileread=run!ascfileread -P 11001 -d:3:logs/ascfileread.log,port!11001,target!v2fmtfilt,↓
pathlist!1:/fnsw/local/logs/elogs,ptrnlist!1:elogYYYYMMDD,assoc!1:1:v2:fnislog,conf!port;↓
run;targets;pathlist;ptrnlist;assoc
```

Activate heartbeat events for CALA

CALA heartbeat is enabled by default. The events are handled automatically by the Webconsole.

The heartbeat is controlled by the `-ZHEARTBEAT_PERIOD=<secs>` parameter in the configuration entry of the component that creates events of the class `CALA_HEARTBEAT_OK`.

`<secs>` is the interval between two heartbeat events. If it is set to zero, no heartbeat events will be generated.

The following configuration fragment shows an entry for the component `v2fmtfilt` with activated heartbeat. The heartbeat interval is set to 300 seconds (5 minutes).

```
v2fmtfilt=run!v2fmtfilt -P 11004 -ZHEARTBEAT_PERIOD=300,port!11004,target!msgclsfsrv,↓
formatlist!fnislog;fmt/fnislog.v2s,conf!port;run;targets;formatlist
```

This option is appropriate for the filter component `v2fmtfilt` in a complete or a client configuration and for the server component `msgclsfsrv` in a server configuration.

Adding environment settings for CALA

If you need to set client specific environment variables for CALA, you can create an additional environment file:

UNIX:	\$CALA_DIR/cala_env.sh
Windows:	%CALA_DIR%\cala_env.cmd

No additional changes are required. The new file will be used as soon as the startup script is executed the next time (UNIX) or the cala_srv service is restarted (Windows).

Sample configuration

This is a sample configuration files that processes ELOG logfiles on a UNIX system. The configuration is complete, containing the client (reader) component as well as the server (message classification and TEC interface) components.

```
#operating-system: sun-solaris
#name of configuration: Generated by CALACFG
#user:
#password:
serverlist=ascfileread,v2fmtfilt,msgclsfsrv,tecfmtemit,tecifcsrv
ascfileread=run!ascfileread -P 11001,port!11001,targets!v2fmtfilt,pathlist!1;/fnsw/local/log.
s/elog,ptrnlist!1;elogYYYYMMDD,assoc!1;1;v2;fnislog,conf!port;run;targets;pathlist;
ptrnlist;assoc
v2fmtfilt=run!v2fmtfilt -P 11004,port!11004,targets!msgclsfsrv,formatlist!fnislog;
fmt/fnislog.v2s,conf!port;run;targets;formatlist
msgclsfsrv=run!msgclsfsrv -P 11009,port!11009,targets!tecfmtemit,types!fnislog_v2_mct,
auxkeys!aux_fnislog_0_8;aux_fnislog_0_15;aux_fnislog_0_6;aux_fnislog_0_2;aux_fnislog_0_
0;aux_fnislog_0_20;aux_fnislog_generell,remappers!tecfmtemit_remap,conf!port;run;
targets;types;auxkeys;remappers
fnislog_v2_mct=type!v2;fnislog,handledby!tecfmtemit,msgmaps!misc/fnislog_evt.map;fnislog_
evt_map;misc/fnislog_dup.map;fnislog_dup_map;misc/fnislog_except_0_15.map;fnislog_except_0_
15_map;misc/fnislog_except_0_8.map;fnislog_except_0_8_map;misc/fnislog_except_0_4.
map;fnislog_except_0_4_map;misc/fnislog_filter.map;fnislog_filter_map
fnislog_evt_map=key!error_id;L,fields!severity;msg;error_cause;corrective_action
fnislog_dup_map=key!error_id;L,fields!$DUPEKEY;$ESCAT;$ESCLEV;$ESCCNT
fnislog_except_0_15_map=key!error_id;L;original_error_text;F0T15w16,fields!severity;
msg;error_cause;corrective_action
fnislog_except_0_8_map=key!error_id;L;original_error_text;F0T8w9,fields!severity;msg;error_
cause;corrective_action
fnislog_except_0_4_map=key!error_id;L;original_error_text;F0T4w5,fields!severity;msg;error_
cause;corrective_action
fnislog_filter_map=key!severity;L,fields!$CLASS;severity
# auxkey definitions
aux_fnislog_0_0=error_id;L
aux_fnislog_0_2=error_id;L;original_error_text;F0T2
aux_fnislog_0_20=error_id;L;original_error_text;F0T20
aux_fnislog_0_6=error_id;L;original_error_text;F0T6
aux_fnislog_0_4=error_id;L;original_error_text;F0T4
aux_fnislog_0_15=error_id;L;original_error_text;F0T15
aux_fnislog_0_8=error_id;L;original_error_text;F0T8
aux_fnislog_generell=error_id;L;original_error_text;L
# remapper definitions
tecfmtemit_remap=for!tecfmtemit,fieldalias!$ESCCNT;occurrences_before_send
tecfmtemit=run!tecfmtemit -P 11010,port!11010,targets!tecifcsrv,conf!port;run;targets
tecifcsrv=run!tecifcsrvend -P 11011 -h @EventServer ,port!11011,conf!port;run
```


Appendix A. Local Environment File fnis_srv_env.sh

This table provides an overview for the information stored in the local environment file **fnis_srv_env.sh** that is created on each server. These variables can be used in the logfile definitions for the ECM SM CALA (CALA). They must be specified as `${__FNIS__<variable_name>}` (see **fnislog.cala.default** for an example).

variable name	description
FN_SERV_DOM	IBM FileNet IM domain name as specified during configuration
FN_SERVER_NAME	IBM FileNet IM server name
FN_ADMIN	IBM FileNet IM administrator
F_MAINT_PW	f_maint password (encrypted)
FN_PATH	path to IBM FileNet IM installation
FN_LOC_PATH	path to IBM FileNet IM local files
FN_REP_PATH	path to output of IBM FileNet IM report tools
FN_NT_SERVICENAME	display name of IBM FileNet IM service (Windows only)
FN_DB_TYPE	installed database type
FN_DB_GLOB_NAME	global database name for Oracle (if configured)
FN_DB_USER	database user
FN_DB_PASSWORD	database password (encrypted); same as f_maint password
FN_DB_PATH	installation path of database software
FN_DB_NAME	database name
ORACLE_HOME	Oracle only; same as FN_DB_PATH
ORACLE_SID	Oracle only; same as FN_DB_PATH
ORACLE_USER	Oracle on UNIX only; user who owns Oracle installation (usually oracle)
FNIS_MKF_PERM	full qualified name of Permanent MKF database file
FNIS_MKF_SEC	full qualified name of Security MKF database file
FNIS_MKF_TRANS	full qualified name of Transient MKF database file
HP II_TYPE	ImageImport type
HP II_PATH	installation path of ImageImport software
HP II_CLIENT_PATH	installation path of ImageImport client software
SRVLINK_PROCESSES	process list for ServerLink as specified during configuration
SRVLINK_PATH	installation path of ServerLink software
SRVLINK_SERVICES	services list for ServerLink as specified during configuration (Windows only)
SRVLINK_CLIENT_PATH	installation path of ServerLink client software

Appendix B. Local Environment File `fnet_ca_srv_env.sh`

This table provides an overview for the information stored in the local environment file `fnet_ca_srv_env.sh` that is created on each FileNet Capture server.

These are the global settings:

Variable name	Description
<code>FNET_CAP_SYSTEM</code>	system name
<code>FNET_CAP_SERVER</code>	server name
<code>FNET_CAP_SERVER_TIVOLI</code>	Endpoint name (Tivoli based version) or full-qualified server name (non-Tivoli based version)
<code>FNET_CAP_HAS_DT</code>	<i>YES</i> if server has FileNet Capture Professional configured; otherwise <i>NO</i>
<code>FNET_CAP_HAS_PRI</code>	<i>YES</i> if server has FileNet Print configured; otherwise <i>NO</i>
<code>FNET_CAP_HAS_RCS</code>	<i>YES</i> if server has RCS configured; otherwise <i>NO</i>
<code>FNET_CAP_HAS_RCSDB</code>	<i>YES</i> if server has an RCS database configured; otherwise <i>NO</i>

These are the settings for Capture Professional:

Variable name	Description
<code>FNET_CAP_DT_DB_NAME</code>	name of the trace log database; Format: <code><jdbcreader class:jdbcdriver class:database url></code>
<code>FNET_CAP_DT_DB_USER</code>	database user
<code>FNET_CAP_DT_DB_PASSWORD</code>	database password
<code>FNET_CAP_DT_JAVA_PATH</code>	path to the Java bin directory
<code>FNET_CAP_DT_DRV_NAME</code>	full-qualified name of the JDBC driver jarfile that must be used
<code>FNET_CAP_DT_FAX_LOGFILE</code>	full-qualified name of FileNet Fax Entry logfile

These are the settings for FileNet Print:

Variable name	Description
<code>FNET_CAP_PRI_LOGDIR</code>	logfile directory for FileNet Print

These are the settings for FileNet RCS:

Variable name	Description
FNET_CAP_RCS_LOGDIR	logfile directory for FileNet RCS

These are the settings for the FileNet RCS database:

Variable name	Description
FNET_CAP_RCSDB_TYPE	database type (MSSQL or Oracle)
FNET_CAP_RCSDB_PATH	installation path of database software
FNET_CAP_RCSDB_NAME	database name
FNET_CAP_RCSDB_GLOB_NAME	global database name (TNS name for Oracle if configured, server name for remote MSSQL database)
FNET_CAP_RCSDB_USER	database user
FNET_CAP_RCSDB_PASSWORD	database password

Appendix C. Local Environment File `fnet_ce_srv_env.sh`

This table provides an overview for the information stored in the local environment file `fnet_ce_srv_env.sh` that is created on each Content Engine server. These variables can be used in the logfile definitions for the ECM SM CALA (CALA). They must be specified as `${__FNCE__<variable_name>}`" (see `apache_access.cala.default` for an example).

Variable name	Description
<code>FNET_CE_DOMAIN</code>	domain name
<code>FNET_CE_SERVER</code>	server name
<code>FNET_CE_FN_PATH</code>	FileNet installation path
<code>FNET_CE_JAVA_PATH</code>	JAVA installation path
<code>FNET_CE_ADS_PATH</code>	root directory of ADS (not used)
<code>FNET_CE_ADS_USER</code>	user for login to Content Engine
<code>FNET_CE_ADS_PASSWORD</code>	password for login to Content Engine
<code>FNET_CE_HAS_ORACLE</code>	Oracle-based object stores Y/N
<code>FNET_CE_HAS_MSSQL</code>	MSSQLServer-based object stores Y/N
<code>FNET_CE_APACHE_PATH</code>	Apache web server installation path
<code>FNET_CE_APACHE_USER</code>	user to start Apache web server (UNIX only)
<code>FNET_CE_APACHE_PORT</code>	port number to connect to Apache web server
<code>FNET_CE_HAS_IIS</code>	Content Engine uses IIS for WebDAV Y/N
<code>FNET_CE_IIS_PORT</code>	port number to connect to IIS

Appendix D. Local Environment File `fnet_em_srv_env.sh`

This table provides an overview for the information stored in the local environment file `fnet_em_srv_env.sh` that is created on each Email Manager server. These variables can be used in the logfile definitions for the ECM SM CALA (CALA). They must be specified as `${__FNEM__<variable_name>}`" (see `fnemlog.cala.default` for an example).

Variable name	Description
<code>FNET_EM_SYSTEM</code>	system name
<code>FNET_EM_SERVER</code>	server name
<code>FNET_EM_VERSION</code>	Email Manager version
<code>FNET_EM_LOG_DIR</code>	Email Manager logfile directory
<code>FNET_EM_DB_TYPE</code>	database type
<code>FNET_EM_DB_PATH</code>	installation path of database client
<code>FNET_EM_DB_NAME</code>	database name
<code>FNET_EM_DB_GLOB_NAME</code>	database name for remote access
<code>FNET_EM_DB_USER</code>	database user
<code>FNET_EM_DB_PASSWORD</code>	database password

Appendix E. Local Environment File `fnet_pe_srv_env.sh`

This table provides an overview for the information stored in the local environment file `fnet_ce_srv_env.sh` that is created on each Process Engine server.

NOTE Note: These variables cannot be used in the logfile definitions for the ECM SM CALA (CALA) yet.

These are the global settings:

Variable name	Description
<code>FNET_SYS_n</code>	system name
<code>FNET_SYS_n_SRV_NAME</code>	server name
<code>FNET_SYS_n_HAS_PPM</code>	Y if server has PPM configured; otherwise <i>N</i>
<code>FNET_SYS_n_HAS_RTR</code>	Y if server has routers configured; otherwise <i>N</i>
<code>FNET_SYS_n_HAS_WEB</code>	Y if server has a Webserver configured; otherwise <i>N</i>
<code>FNET_SYS_n_HAS_CM</code>	Y if server has a Component Manager configured; otherwise <i>N</i>
<code>FNET_SYS_LIST</code>	list of all configured systems

These are the settings for PPM:

Variable name	Description
<code>FNET_SYS_n_PPM_JAVA_PATH</code>	
<code>FNET_SYS_n_PPM_MAX_PROC</code>	
<code>FNET_SYS_n_PPM_REGISTRY_PORT</code>	
<code>FNET_SYS_n_PPM_RETURN_PORT</code>	
<code>FNET_SYS_n_PPM_VWJS_DELAY</code>	
<code>FNET_SYS_n_PPM_DEBUG</code>	
<code>FNET_SYS_n_PPM_VWJS_DEBUG</code>	
<code>FNET_SYS_n_PPM_FN_PATH</code>	
<code>FNET_SYS_n_PPM_LOCAL_HOST</code>	
<code>FNET_SYS_n_PPM_USER</code>	
<code>FNET_SYS_n_PPM_PASSWORD</code>	

These are the settings for routers:

Variable name	Description
FNET_SYS_n_RTR_m_NAME	
FNET_SYS_n_RTR_m_JAVA_PATH	
FNET_SYS_n_RTR_m_PPM_SRV	
FNET_SYS_n_RTR_m_PORT	
FNET_SYS_n_RTR_m_PPM_PORT	
FNET_SYS_n_RTR_m_FN_USER	
FNET_SYS_n_RTR_m_PPM_USER	
FNET_SYS_n_RTR_m_PPM_PASSWORD	
FNET_SYS_n_RTR_m_ISOLATED_ REGION	
FNET_SYS_n_RTR_m_DEBUG	
FNET_SYS_n_RTR_m_CONNECT_RETRY	
FNET_SYS_n_RTR_m_RMI_BACKLOG	
FNET_SYS_n_RTR_m_FN_PATH	
FNET_SYS_n_RTR_m_LOCAL_HOST	
FNET_SYS_n_RTR_LIST	

These are the settings the Webserver:

Variable name	Description
FNET_SYS_n_AE_TYPE	
FNET_SYS_n_AE_USER	
FNET_SYS_n_AE_START_CMD	
FNET_SYS_n_AE_STOP_CMD	
FNET_SYS_n_AE_PROCESSES	
FNET_SYS_n_AE_SERVICES	

These are the settings for the Component Manager:

Variable name	Description
FNET_SYS_n_CM_JAVA_PATH	
FNET_SYS_n_CM_WKPL_HOME	
FNET_SYS_n_CM_RTR_URL	
FNET_SYS_n_CM_USER	
FNET_SYS_n_CM_PPM_USER	
FNET_SYS_n_CM_PPM_PASSWORD	

Variable name	Description
<code>FNET_SYS_n_CM_JNDI_INIT</code>	
<code>FNET_SYS_n_CM_REGISTRY_PORT</code>	
<code>FNET_SYS_n_CM_EVENT_PORT</code>	
<code>FNET_SYS_n_CM_REQ_LIBS</code>	

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