ASG ViewDirect Input Framework 7.5

Quick Start Guide

Table of Contents

1. What is the Input Framework? 4
2. Installation 5
3. Open the Administration Console 9
4. Apply License Key 9
5. Getting Started - Setting up Sample Watch Folder 10
Create a new Template 10
Create a new Task 11
Create a new Queue 14
Activate new configuration 16
Test the new configuration 17
6. Getting Started - Setting up ViewDirect Archiving 19
Define Archiving Queue 19
Define Queue Attributes 21
Create the archiving Template 23
Create the archiving task 24
Assign template to queue 26
Activate new configuration 27
Test the new Configuration 28
Create Hyperlink in STDOUT and STDERR 31
7. Activity Monitor User Menus 33
Home 33
Ticket screen 34
Queue Screen 34
Alert Screen 34
Filesystem 35
Server usage 35
Logfiles 35
Mobius Services 36
Queues 37
Pause queue 37
8. User Roles 38

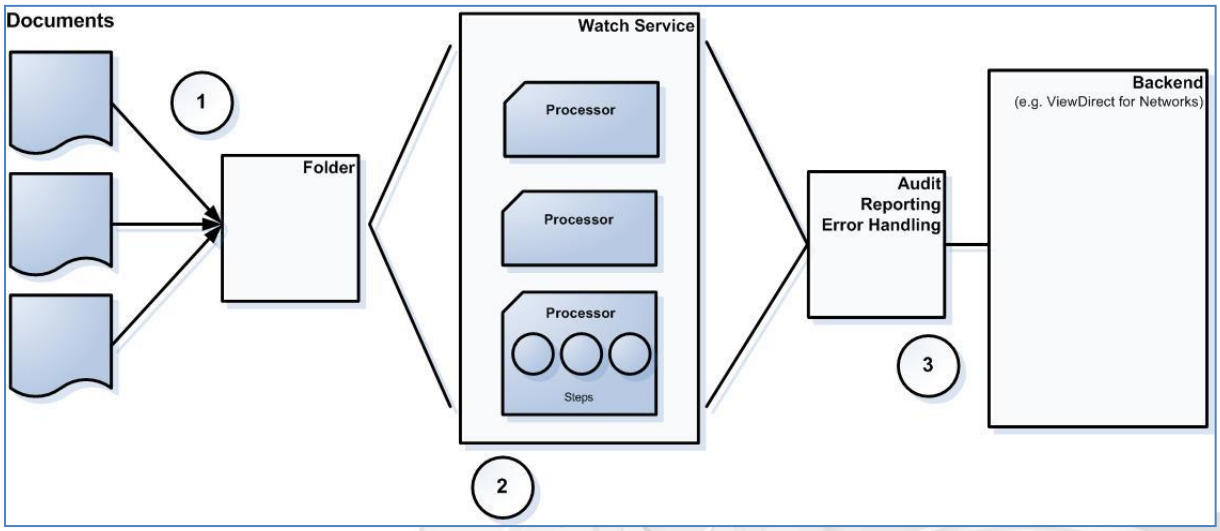
Viewer 38
Administrator 38
System administrator 38

1. What is the Input Framework?

The ASG Input Framework is a folder watch service to handle incoming files and process them in an structured and audited manner.

This includes the following key features:

- Support processing chains per document (e.g. unzip file, archive unzipped content, validate result)
- Watch multiple folders with different processing chain definitions
- Limit resource consumption on the server (e.g. process only 5 files parallel)
- Define priority on the input folder level to process high priority documents first
- Create Audit logs for:
  - STDOUT, STDERR and result code of each processing step
  - Processing result (e.g. FINISHED, ERROR)
- Text and PDF reporting for:
  - All incoming files
  - Processing status for each file
  - Collected log files



STEP1: Documents (files) will be sent to an physical folder

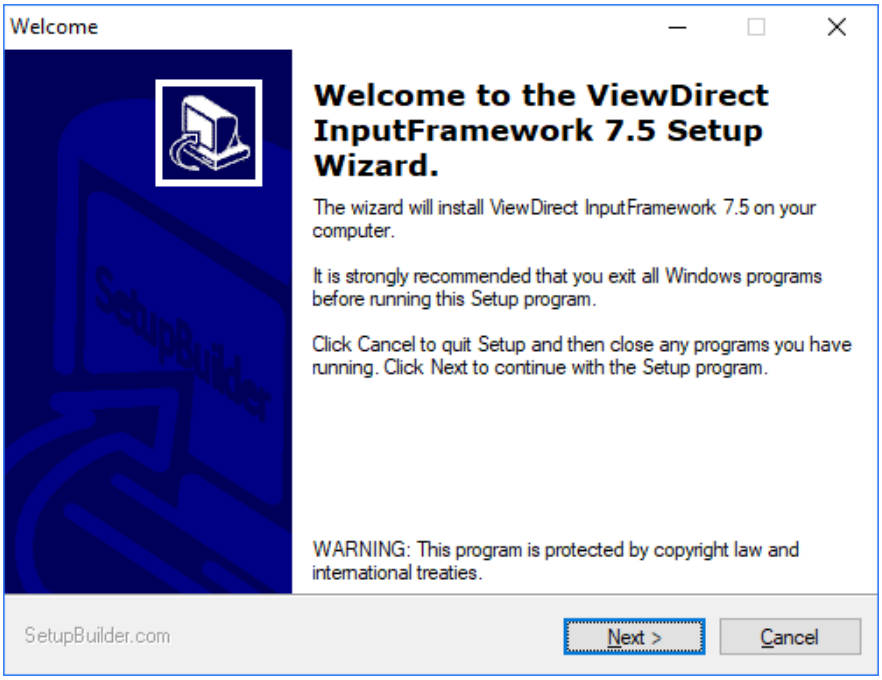
STEP2: The Watch Service identifies incoming documents and will put them into a processing chain. The documents will be processed using a template which allows 1..n single processing steps (e.g. unzip file, archive file, verify result)

STEP3: The process will be monitored. In case of an error the failed step can be restarted. The complete process output will be audited in automated generated reports or Ad-Hoc reports.

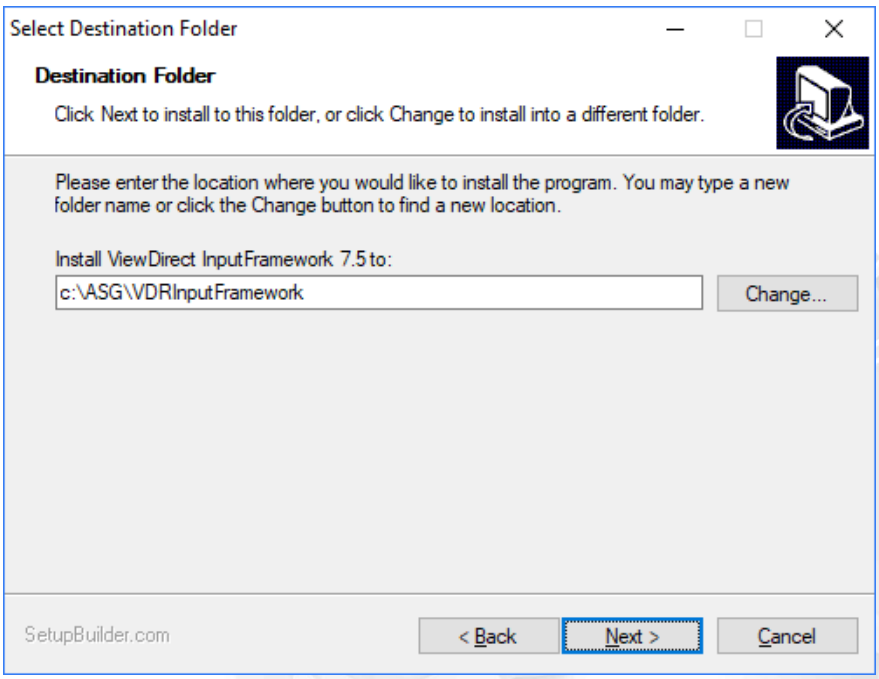
2. Installation

Installation on Windows Operating Systems

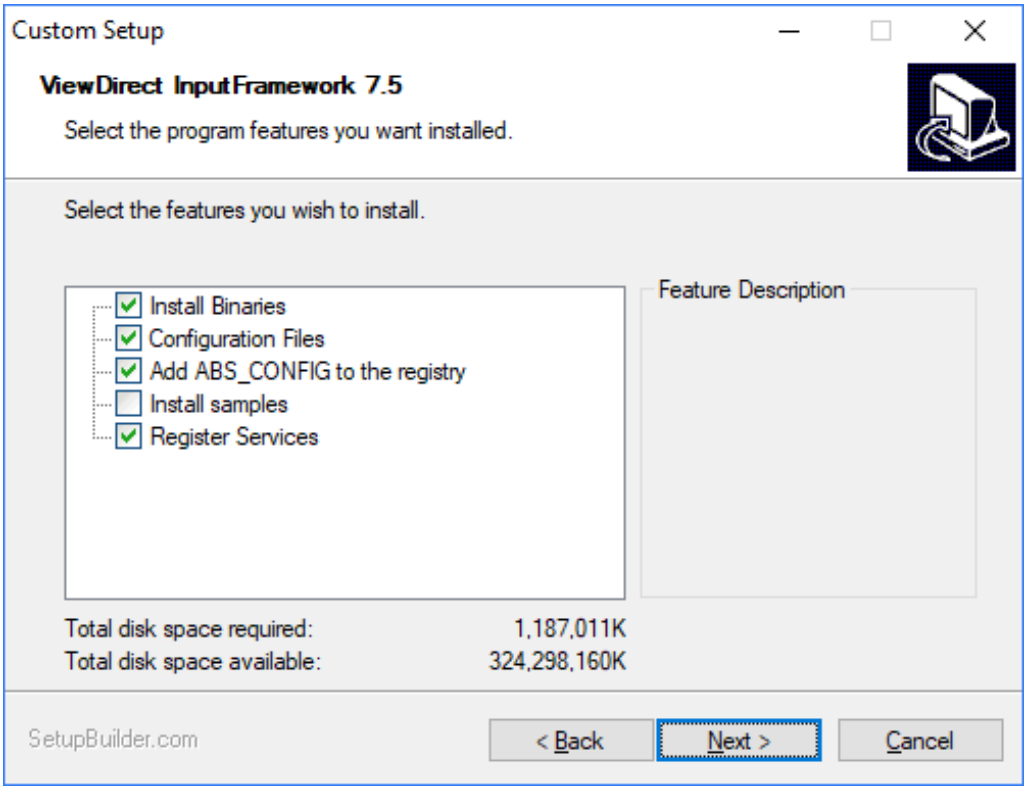
Run VDRInputFramework.exe and follow the instructions below



- Hit the "Next" button

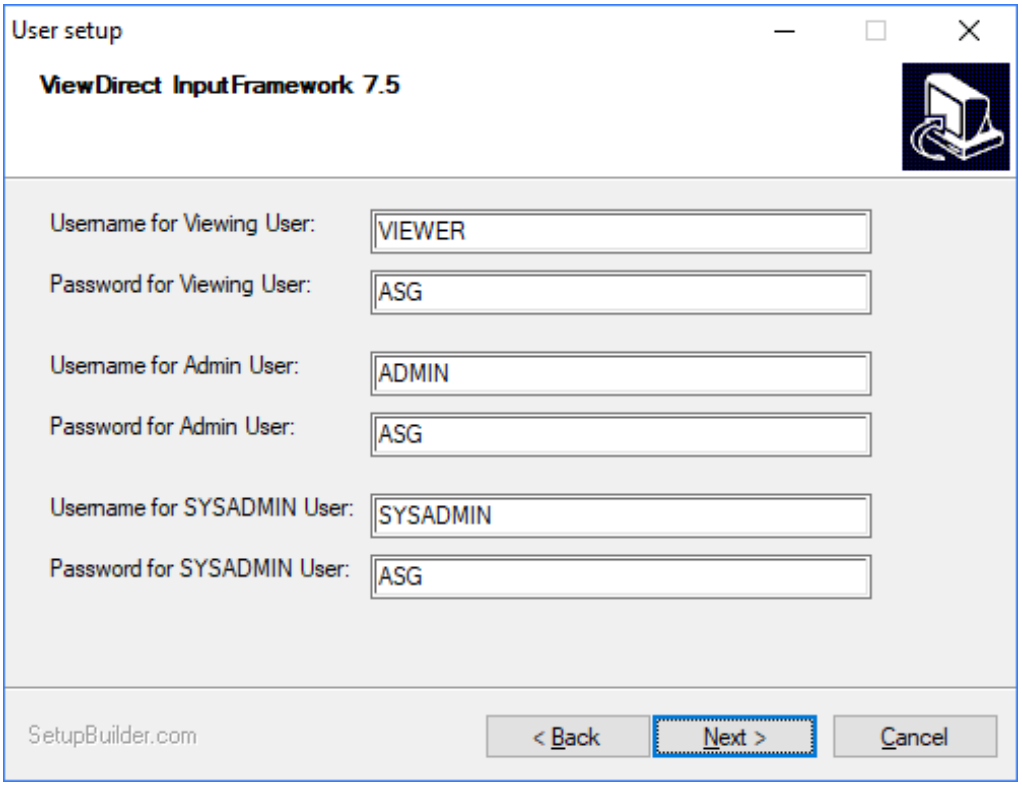


- Choose the installation directory and hit the "Next" button

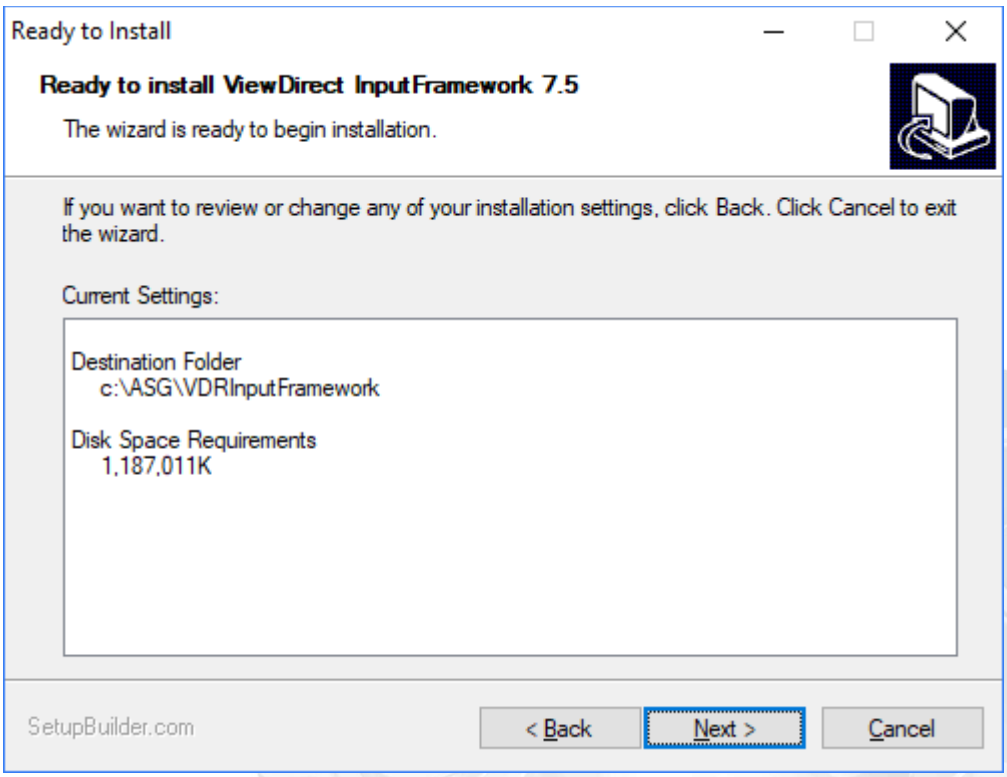


- Select the installation options and hit the "Next" button

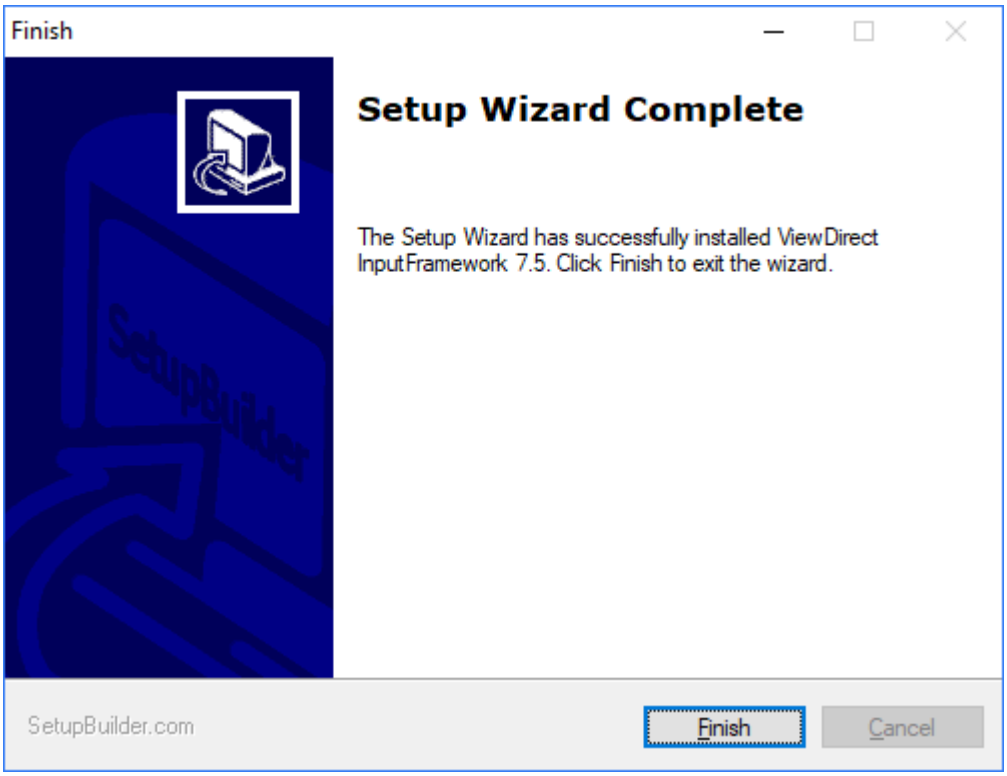
Install Binaries	Installs the binary files of the Input Framework. Choose this option for a new installation and for an update installation.
Configuration Files	Choose this option for a new installation only
Add ABS_CONFIG to the registry	Choose this option for a new installation only
Install samples	The system will be installed with the sample configuration defined in this quick start guide.
Register Services	Choose this option for a new installation only. If the services are already registered additional configuration (e.g. user, mode) will be lost.



- Provide the usernames and the passwords for the 3 different roles (for more detailes please consult the chapter "User Roles"



- Hit the "Next" button



- Hit the "Finish" button to perform the installation

3. Open the Administration Console

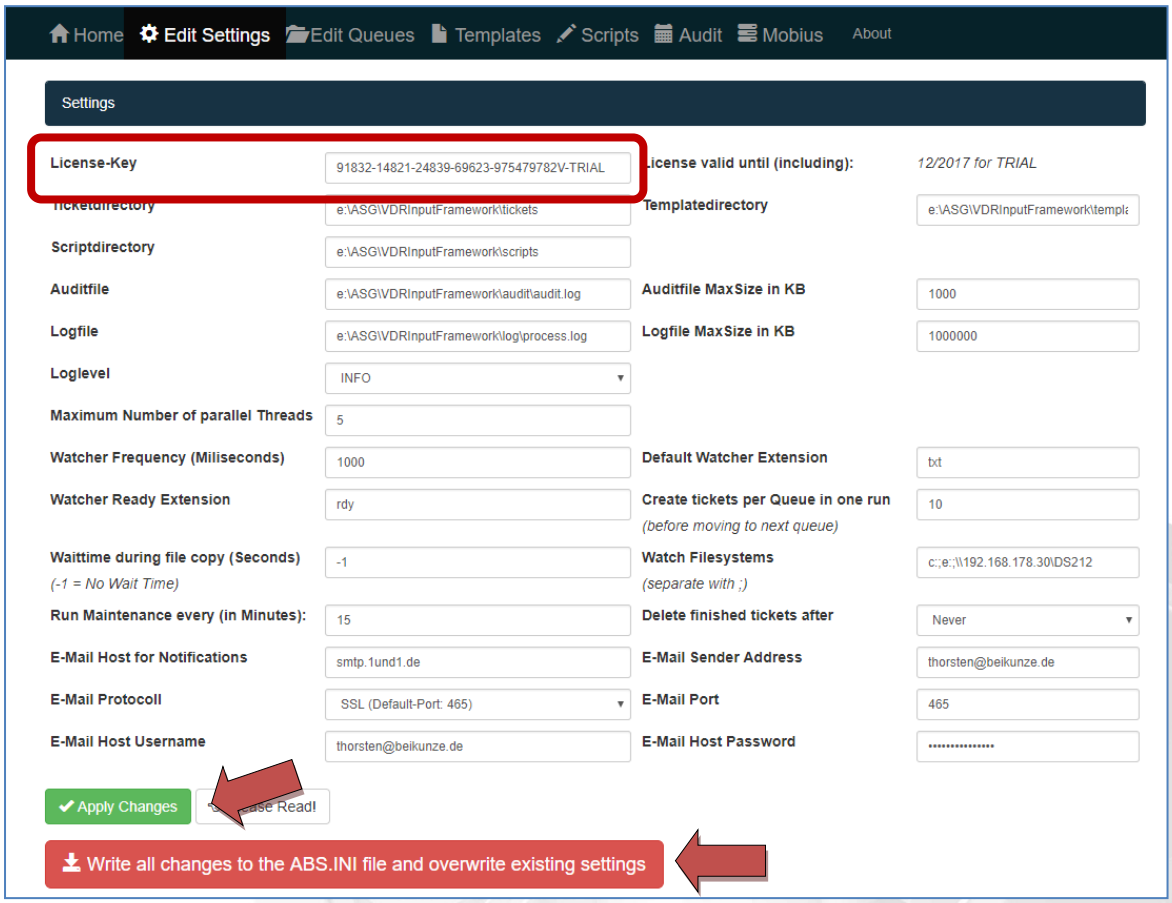
Open the administration console with the link:

http://<servername>:10080/inputframework

➔ *For the input framework configuration you must log-in as SYSADMIN*

4. Apply License Key

- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Edit Settings"
- Put your license key into the field "License-Key"
- Hit the button "Apply Changes"
- Hit the button "Write all changes to the ABS.INI file and overwrite existing settings"



5. Getting Started - Setting up Sample Watch Folder

This chapter describes all necessary steps to set-up a watch folder definition which monitors a folder for incoming files.

Once a file arrives in the folder it will be deleted.

Create a new Template

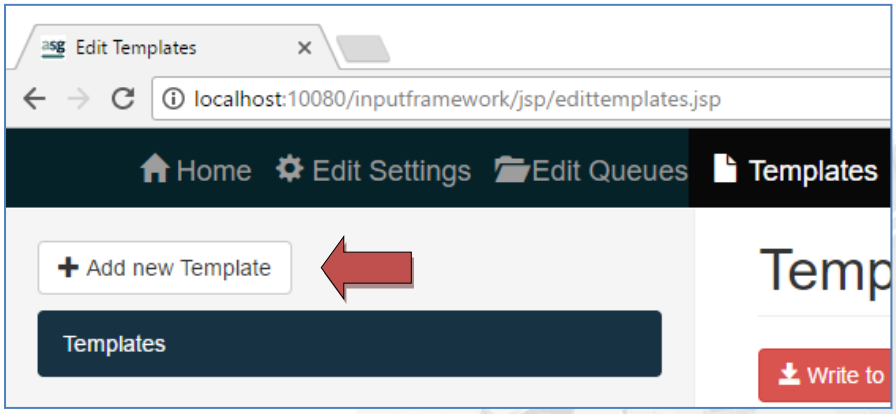
A template is a set of operations defined to process incoming files. The template can contain 1 .. n single steps which will allow a complete processing chain.

E.g. if a file is sent as ZIP Archive the first step can be the unzip command while the second step archives the document to ViewDirect.

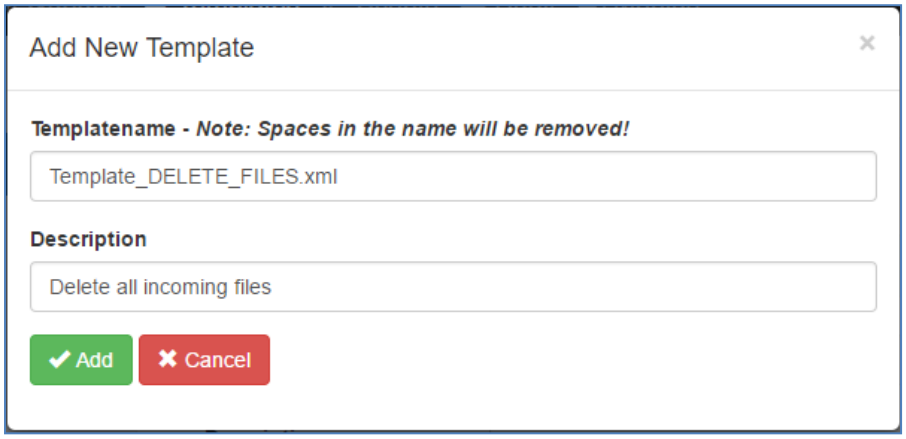
➔ *To add a new template the user must be member of the IPSYSADMIN role.*

To add a new template please perform the following steps:

- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Templates"
- Hit the button "Add new template"



- Provide the template filename (Template_DELETE_FILES.xml)
- Provide a template description



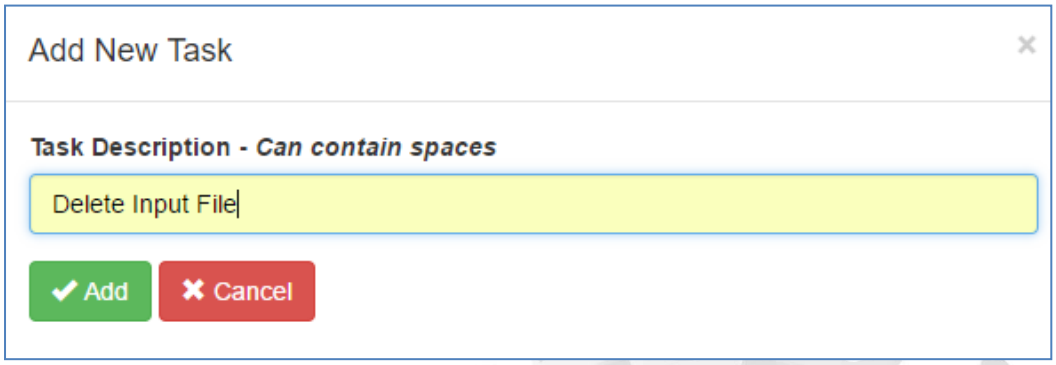
Create a new Task

A task is a single processing step inside an template.

➔ To add a new task the user must be member of the IPADMIN role.

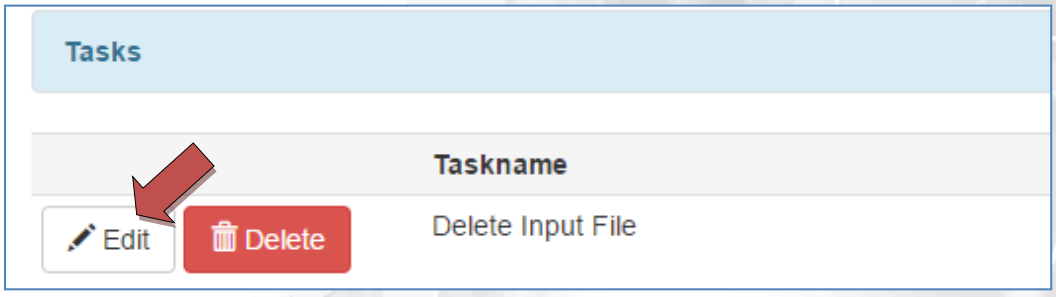
To add a new task please perform the following steps inside an active template:

- Hit the button "Add new Task"



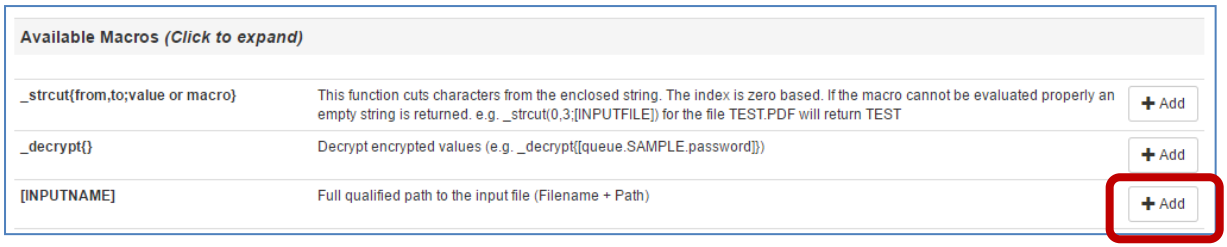
➔ The task name can contain any character (including spaces and special characters)

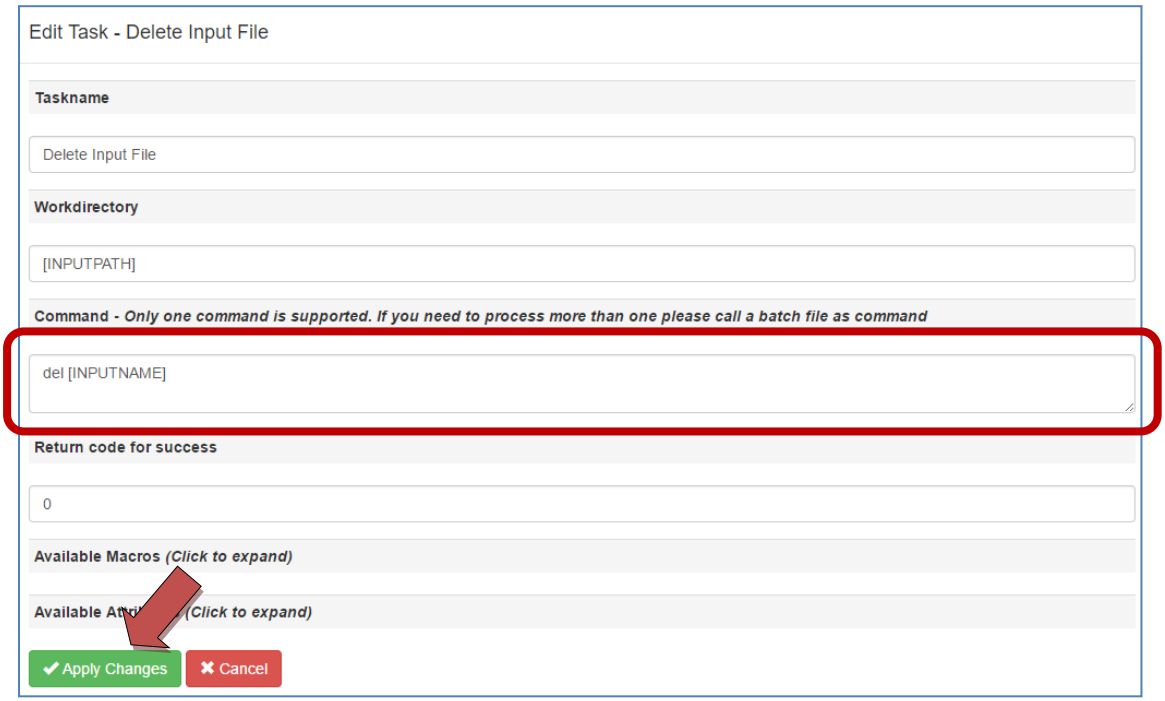
- Edit the new created task by hitting the "Edit" button before the taskname



Enter the command as followed:

- Put the command "del" into the Command input field
- Click on the tab "Available Macros"
- Click the "Add" button in the line [INPUTNAME]





The value provided in the edit field command will be executed for every file. The command can contain hard-coded values (e.g. path to an executable) and it can contain macro values.

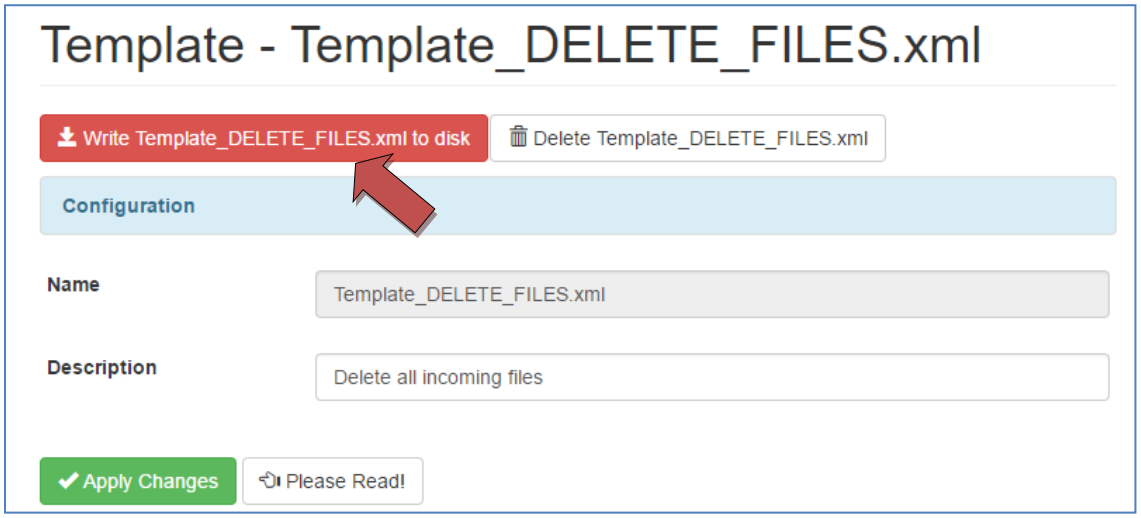
In the sample shown below the macro [INPUTNAME] will be substituted with the full path and filename of the input file.

Command:

del [INPUTFILE]

The sample command will delete every incoming file which is specified using the macro [INPUTNAME].

- Hit the button "Apply Changes"



- Hit the button "Write Template_DELETE_FILES.xml to disk"

➔ Only the button "Write Template_DELETE_FILES.xml to disk" will store the configuration permanent. The "Apply Changes" buttons will store changes only for the session time. Once the session expires the settings are lost.

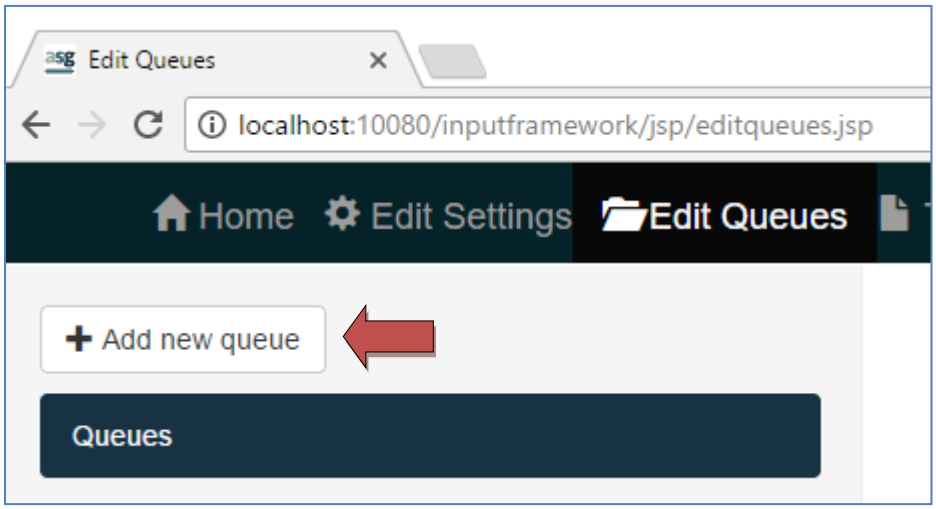
Create a new Queue

A queue is a definition to monitor an folder for incoming files. As soon as files arrives in the folder matching the queue specification the files will be processed.

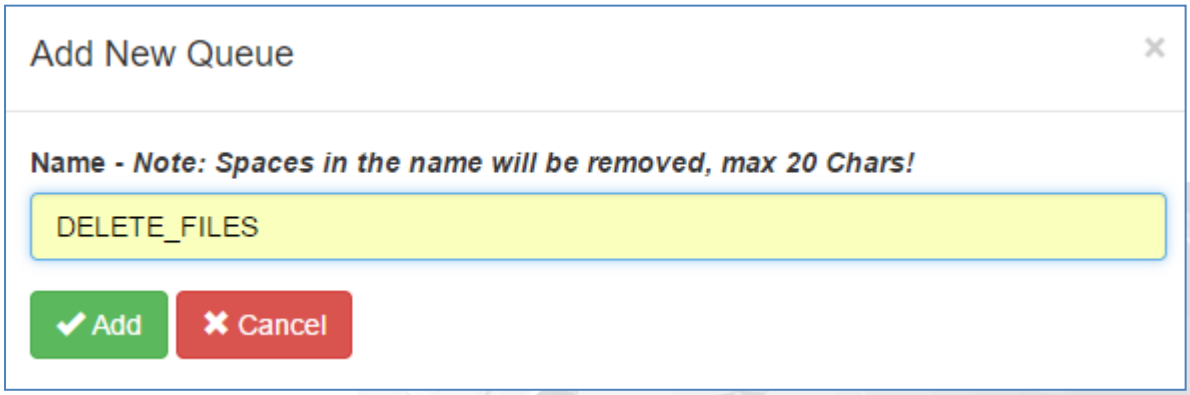
➔ *To add a new queue the user must be member of the IPSYSADMIN role.*

To add a new queue please perform the following steps:

- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Edit Queues"
- Hit the button "Add new queue"

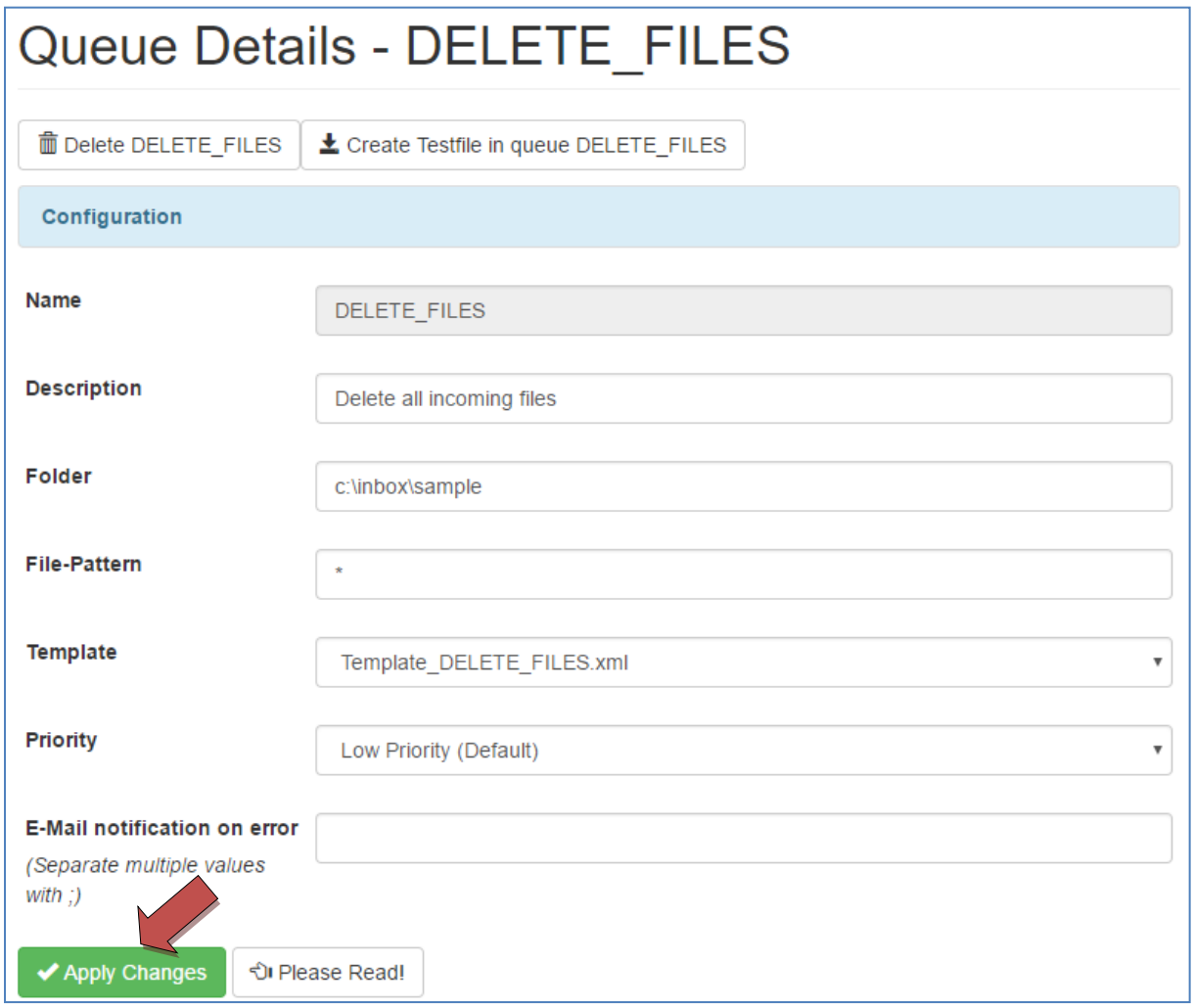


- Provide an valid Queue Name



➔ *The queue name can only contain characters [A-Z], [a-z] or digits [0-9]. Spaces will be removed from the queue name. The maximum length is 20 characters.*

- Define Queue parameter



- Click the button "Apply Changes"

Description	Descriptive information about the queue
Folder	Folder to watch. UNC Names are supported. Please ensure that the InputFramework WatchService has full access to this folder (read/write/delete)
File-Pattern	Only files matching this pattern will be found from the InputFramework WatchService. The pattern allows * as wildcard.
Template	Choose the template you defined in the chapter before for the processing.
Priority	You can choose from 4 queue priorities which will influence the processing order. Queues with a higher priority will be processed first.

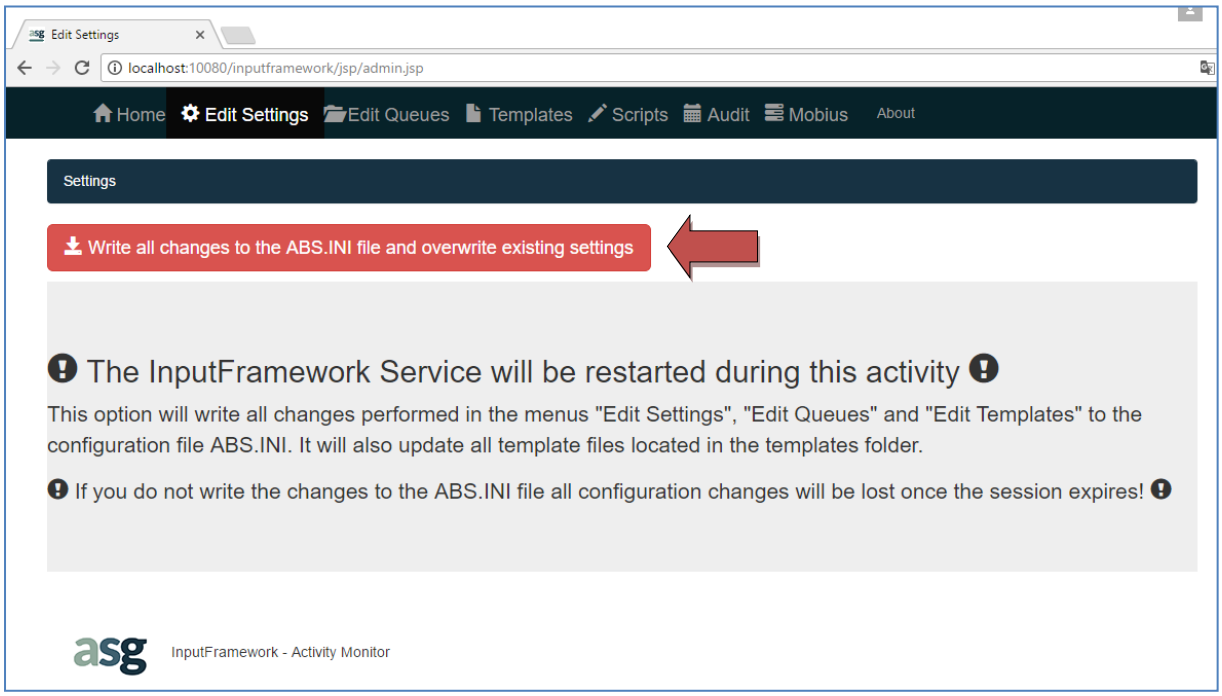
Activate new configuration

All configuration values (except the template definition) require activation. Otherwise the settings will be lost once the session expires.

To activate the configuration changes perform the following steps:

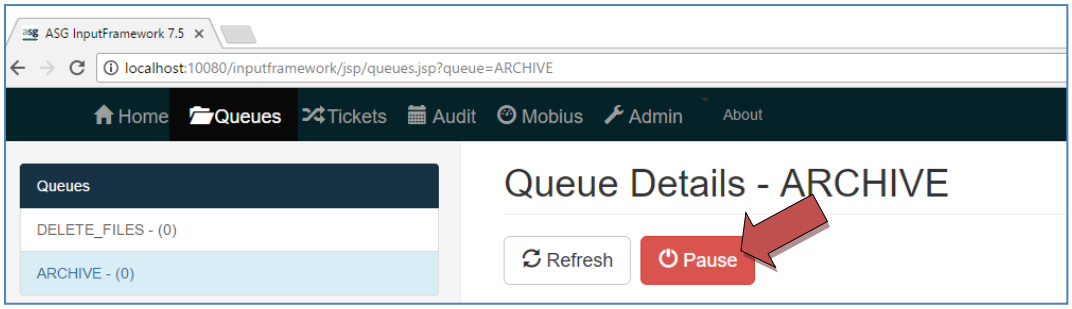
1. Navigate to the menu entry “Edit Settings”
2. Hit the button “Write all changes to the ABS:.NI file and overwrite existing settings”

➔ *This action will restart the InputFramework service which will cause a downtime for about 1-2 minutes.*

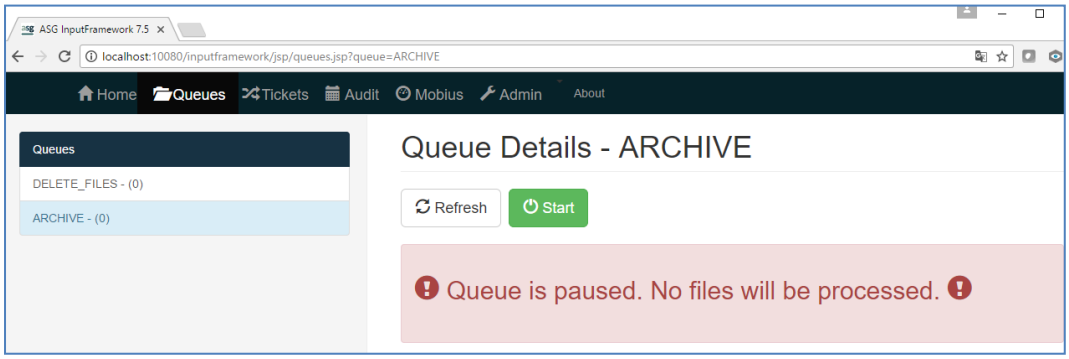


Test the new configuration

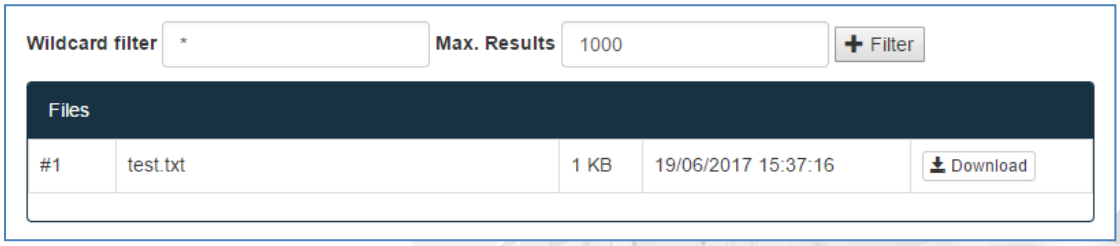
- Select the "Home" menu to leave the configuration area
- Select the "Queue" menu
- Select "ARCHIVE" in the queue list



- Hit the button "Pause" to stop the queue processing

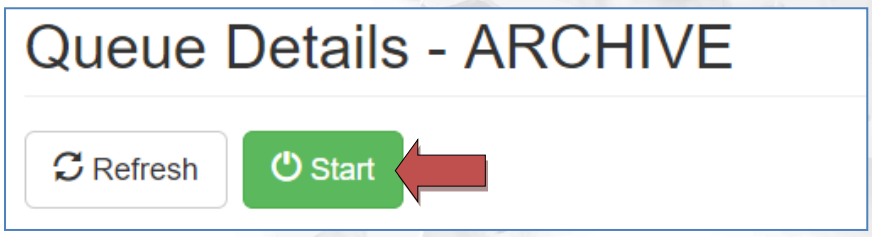


- Copy a sample file in the queue folder (e.g. c:\inbox\archive) and hit the refresh button



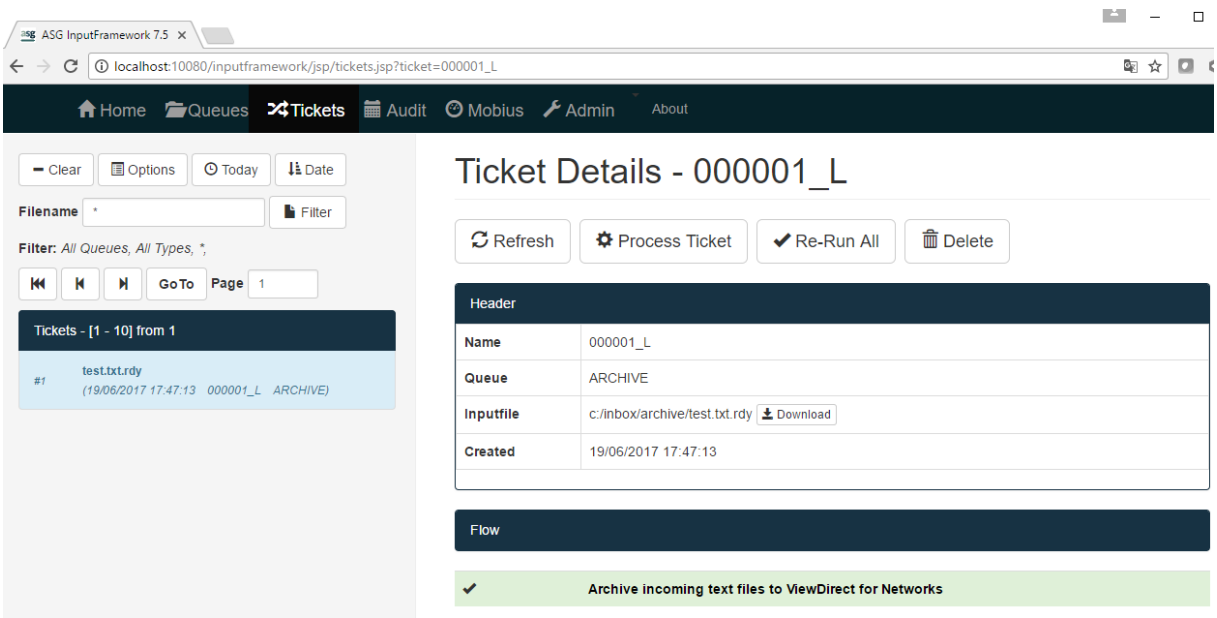
➔ *This sample file appears in the files list of the queue menu*

- Hit the button "Start" to enable queue processing



➔ The extention .rdy is added to the filename to indicate that the file is picked-up from the input framework.

- Select the menu "Tickets" to check the ticket processing



➔ A new ticket should appear and the green background color indicates the successful processing. For each processed file a new ticket is created with a ascending number (1,2,3 ... n). The suffix and the background color indicate the status of the ticket as shown in the table below.

Suffix	Color	Description
_W	White	The file is waiting to be processed
_P	Yellow	The file is currently processed
_L	Green	The file is already successfully processed.
_E	Red	The file is processed but one step returned an error

6. Getting Started - Setting up ViewDirect Archiving

All configuration values (except the template definition) require activation. Otherwise the settings will be lost once the session

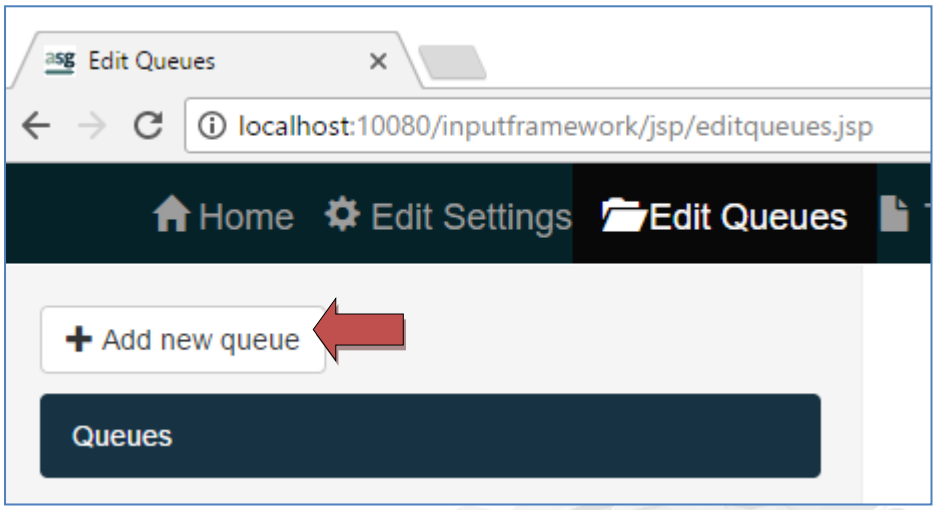
Define Archiving Queue

A queue is a definition to monitor an folder for incoming files. As soon as files arrives in the folder matching the queue specification the files will be processed.

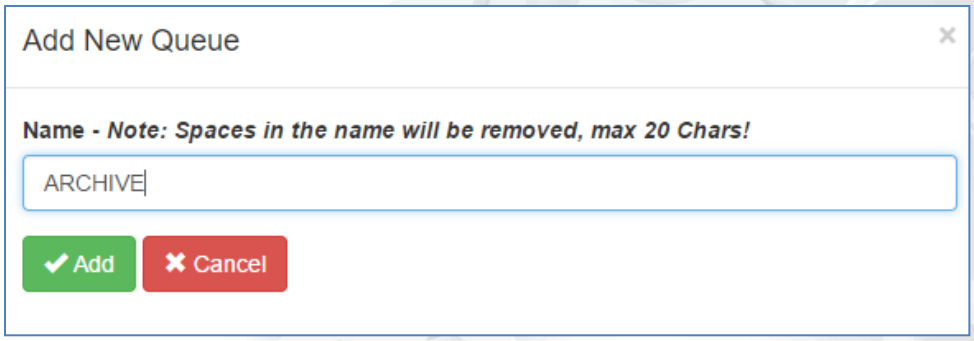
➔ *To add a new queue the user must be member of the IPSYSADMIN role.*

To add a new queue please perform the following steps:

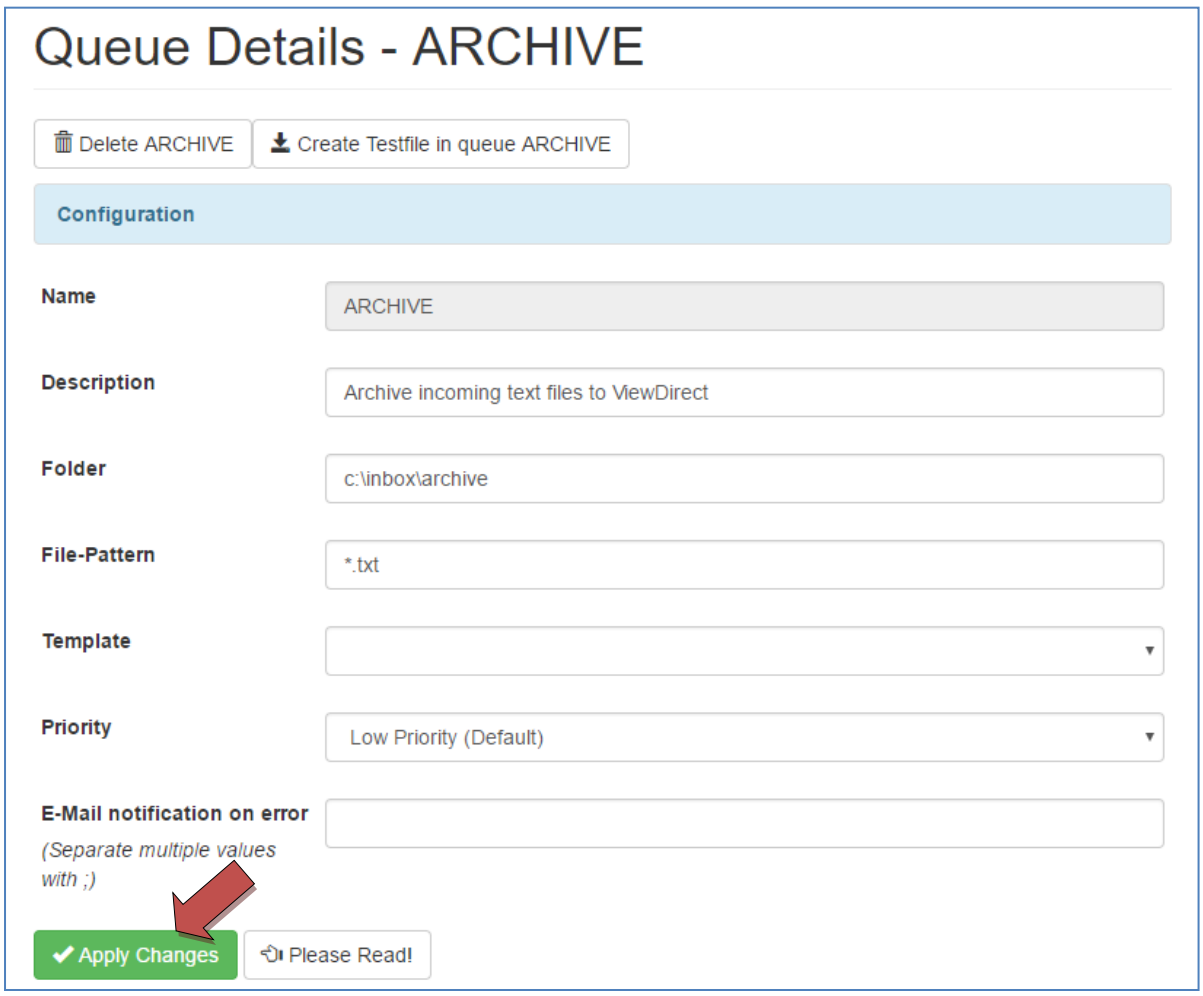
- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Edit Queues"
- Hit the button "Add new queue"



- Provide an valid Queue Name



- Define Queue parameter



- Hit the button "Apply Changes"

➔ Use *.txt as FilePattern - only files with the extension txt will be processed

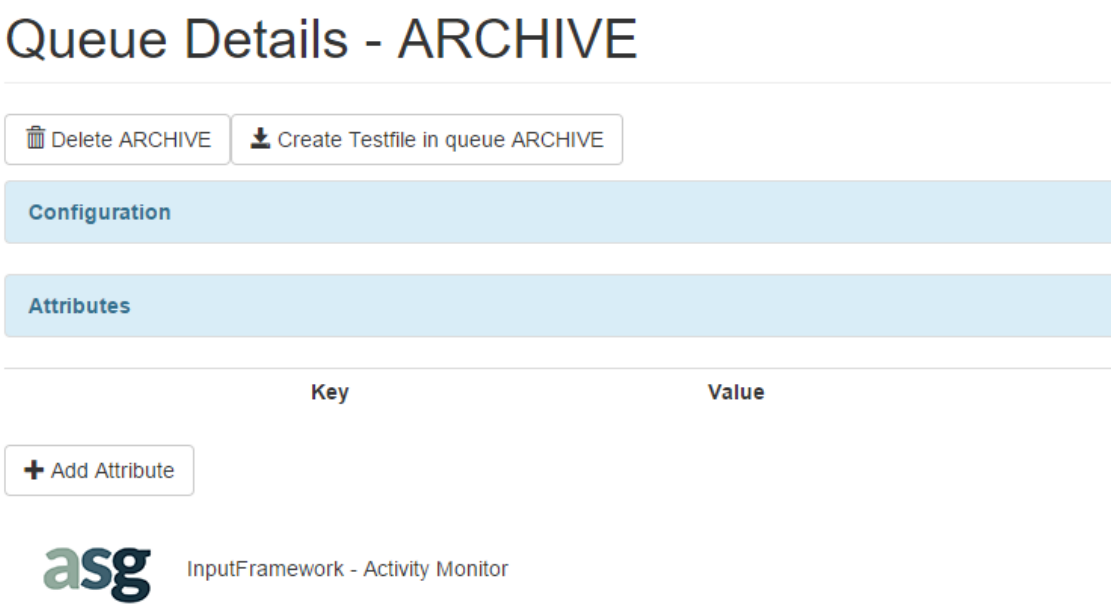
➔ Leave the template blank for now as it needs to be created as described in the next chapter

Define Queue Attributes

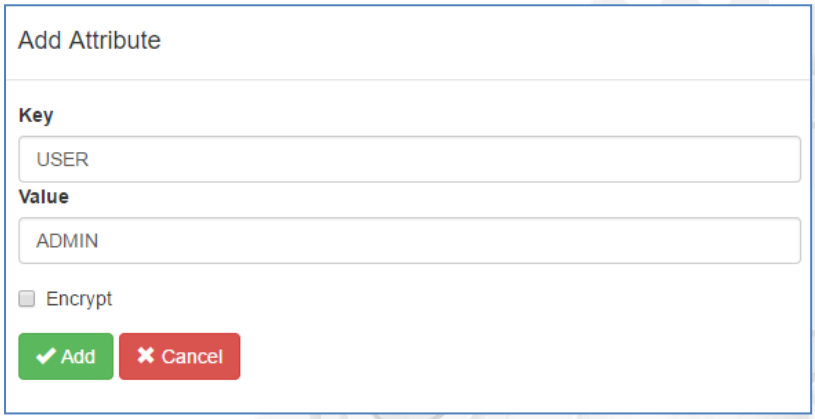
The queue menu provides the possibility to add attributes and maintain the values on a single place. For the ViewDirect archiving queue we will store the attributes DOCUMENTSERVER, PATH TO VIEW DIRECT, USER and PASSWORD.

To add attributes perform the following steps:

- Click the button "Add Attribute"

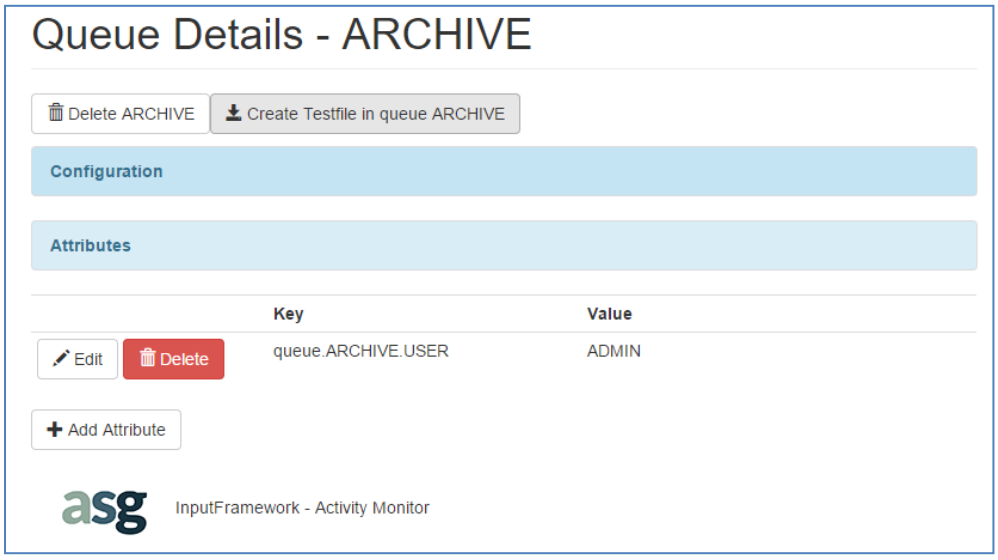


- Define the attribute key and the attribute value. Use the keyname USER and provide a valid administration user of your ViewDirect for Networks installation.

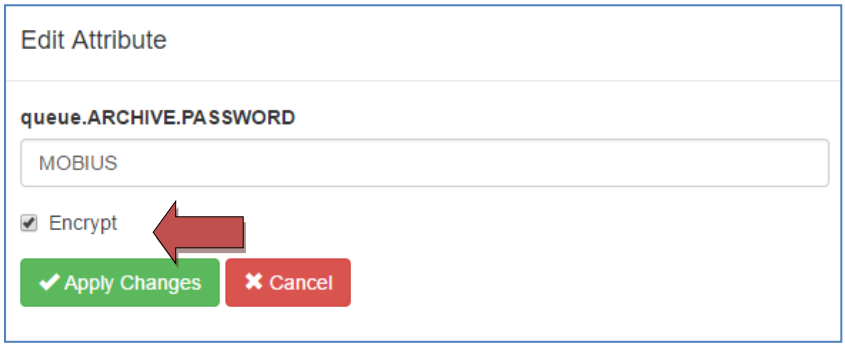


➔ If you select the checkbox "Encrypt" the value will be stored encrypted and does not appear in clear text inside the configuration files

The new created attribute will appear in the attribute list inside the edit queue menu.

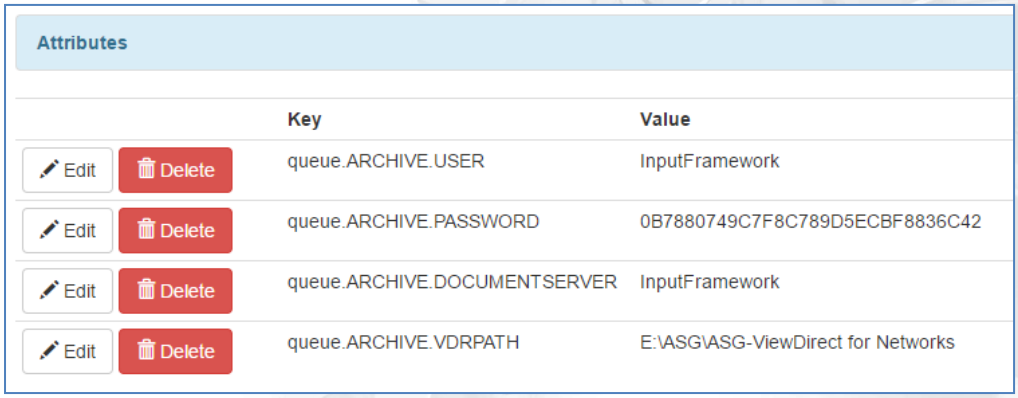


- Add the attributes PASSWORD



➔ Select the checkbox "Encrypt" for the attribute PASSWORD

- Add DOCUMENTSERVER matching your ViewDirect for Networks configuration.
- Add VDRPATH matching the path to your ViewDirect for Networks installation

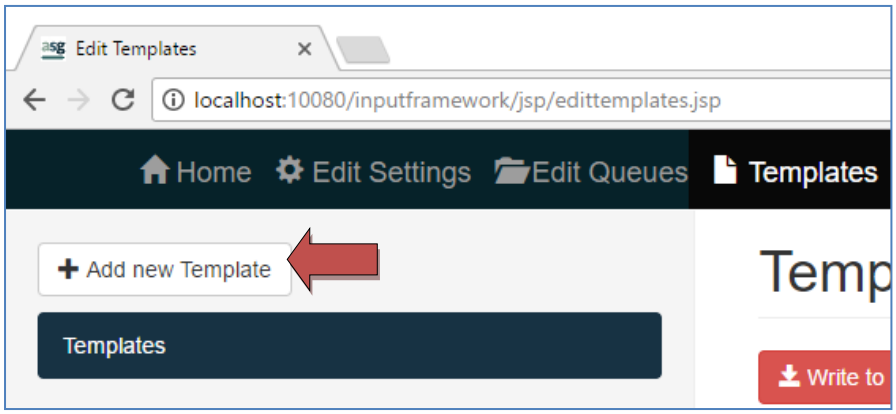


Create the archiving Template

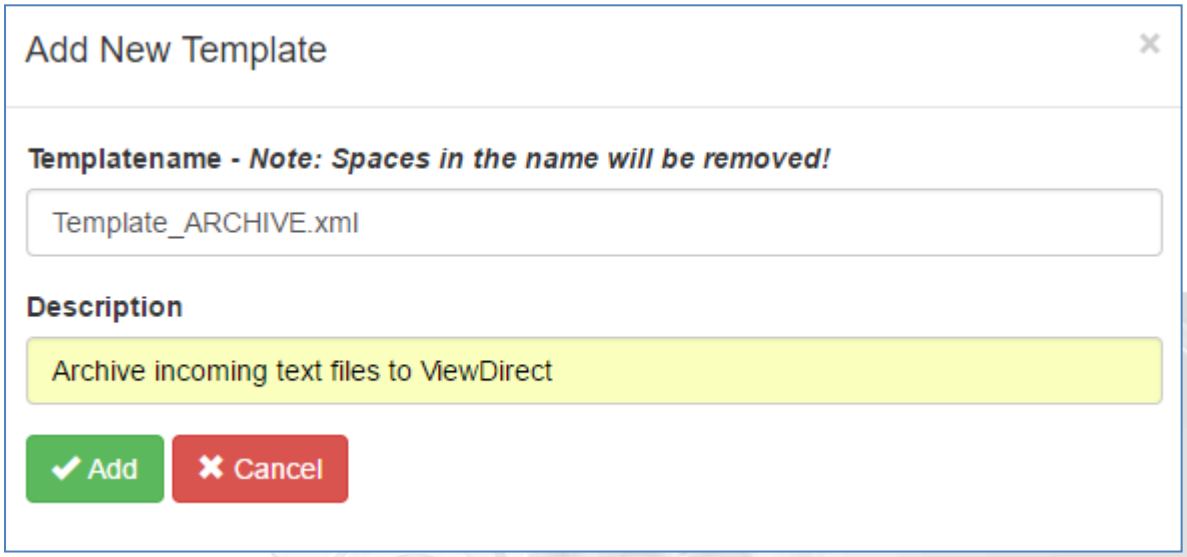
To finish the ViewDirect archiving queue configuration it is necessary to define a template which contains the archiving instructions.

To add the new template please perform the following steps:

- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Templates"
- Hit the button "Add new template"



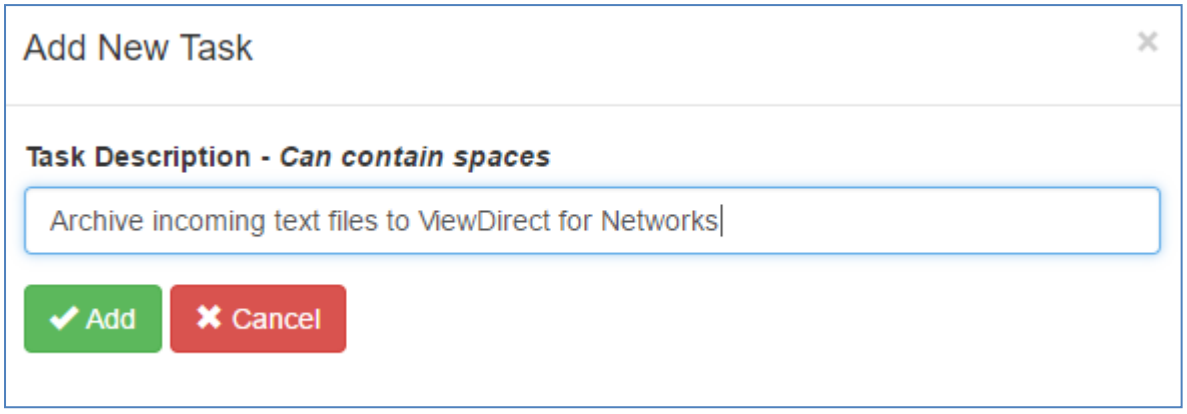
- Provide the template filename (Template_ARCHIVE.xml)
- Provide a template description



Create the archiving task

To add the archiving task please perform the following steps inside an active template:

- Hit the button "Add new Task"

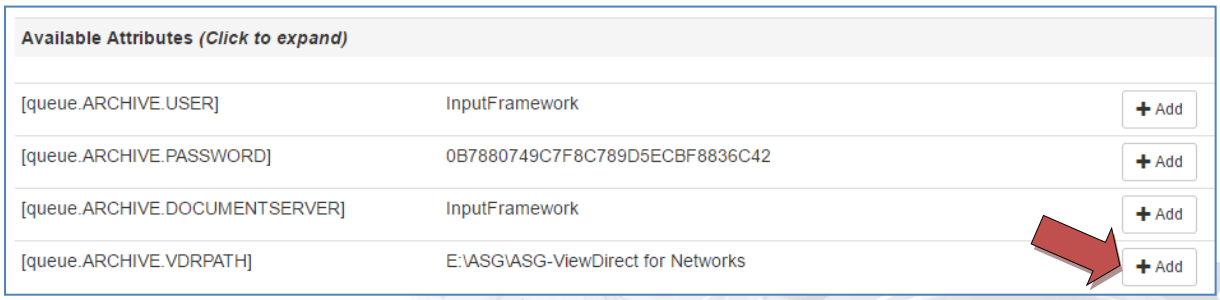


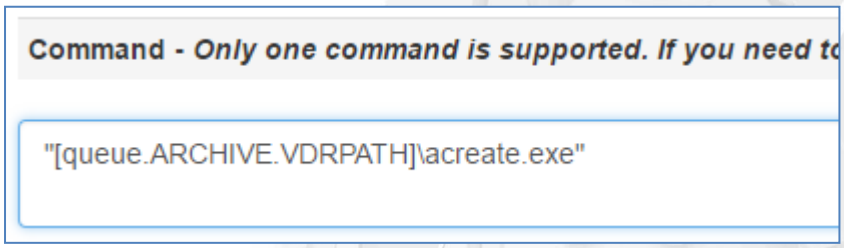
➔ The task name can contain any character (including spaces and special characters)

- Edit the new created task by hitting the "Edit" button before the taskname

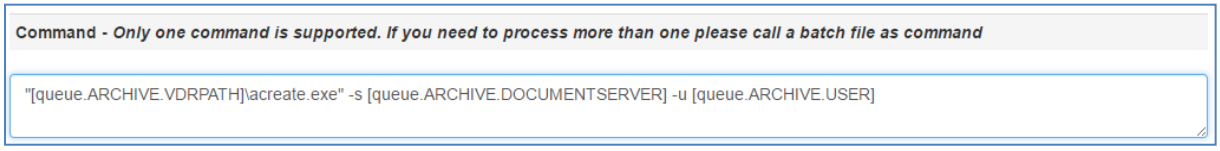
Enter the command as followed:

- Click on the tab "Available Macros"
- Click the "Add" button in the line [queue.archive.VDRPATH]
- Add the text "\acreate.exe" and put double quotes around the whole expression to ensure the command is working when the path contains space characters

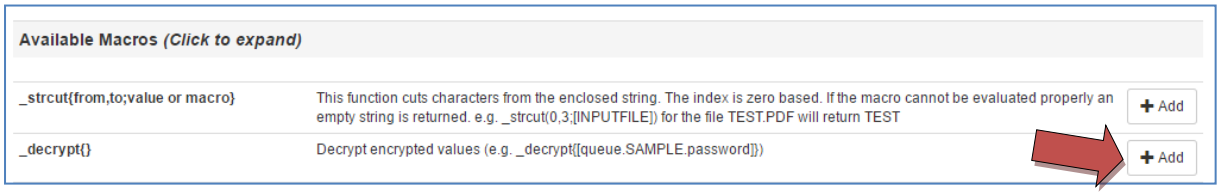




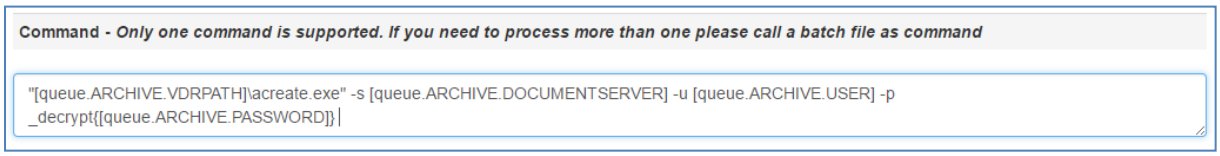
- Add the document server, the username using the attributes



- Add the macro _decrypt{} from the tab "Available Macros"

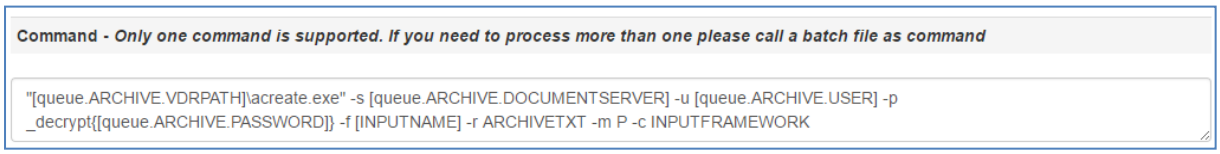


- Add the password attribute into the {} - brackets of the _decrypt macro



➔ The _decrypt macro must be used to decrypt encrypted attributes

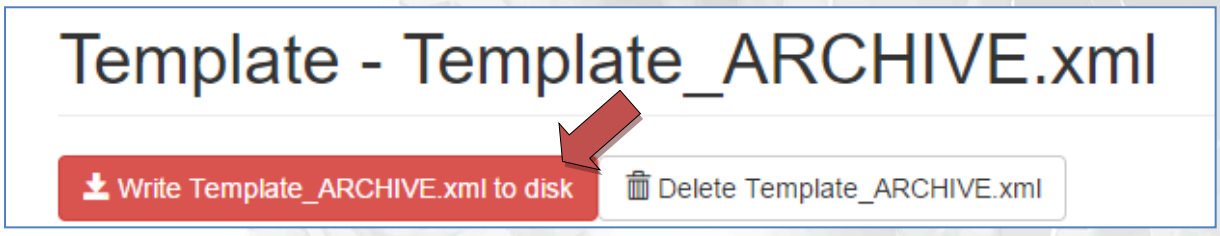
- Add the filename using the "Available Macros" tab
- Add the reportid, the archiving mode and a valid policy (e.g. -r ARCHIVETXT -m P -c INPUTFRAMEWORK)



Final command:

"[queue.ARCHIVE.VDRPATH]\acreate.exe" -s [queue.ARCHIVE.DOCUMENTSERVER] -u [queue.ARCHIVE.USER] -p _decrypt{[queue.ARCHIVE.PASSWORD]} -f [INPUTNAME] -r ARCHIVETXT -m P -c INPUTFRAMEWORK

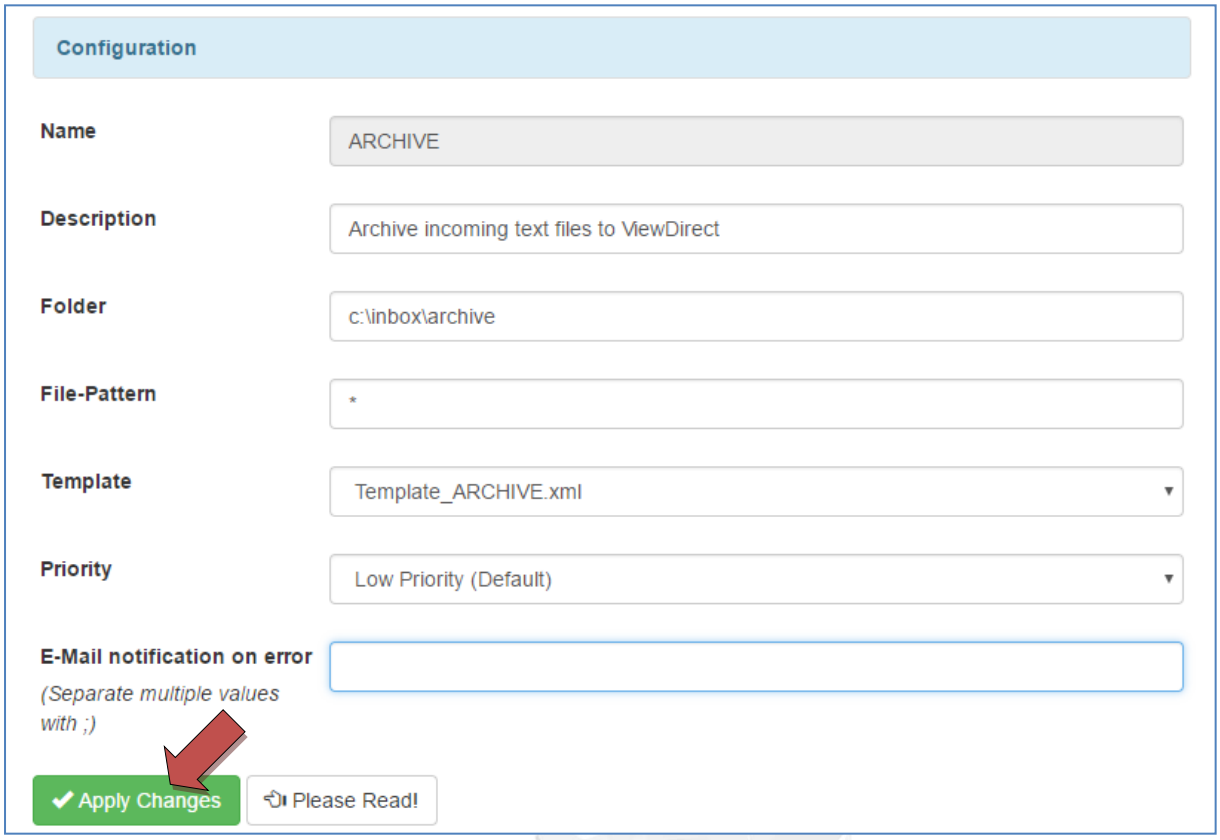
- Hit the button "Write Template_ARCHIVE.xml to disk" to save the configuration



Assign template to queue

To addthe template to the queue ARCHIVE perform the steps below:

- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Edit Queues"
- Select the queue ARCHIVE
- Select the template "Template_ARCHIVE.xml" in the drop-down list Template



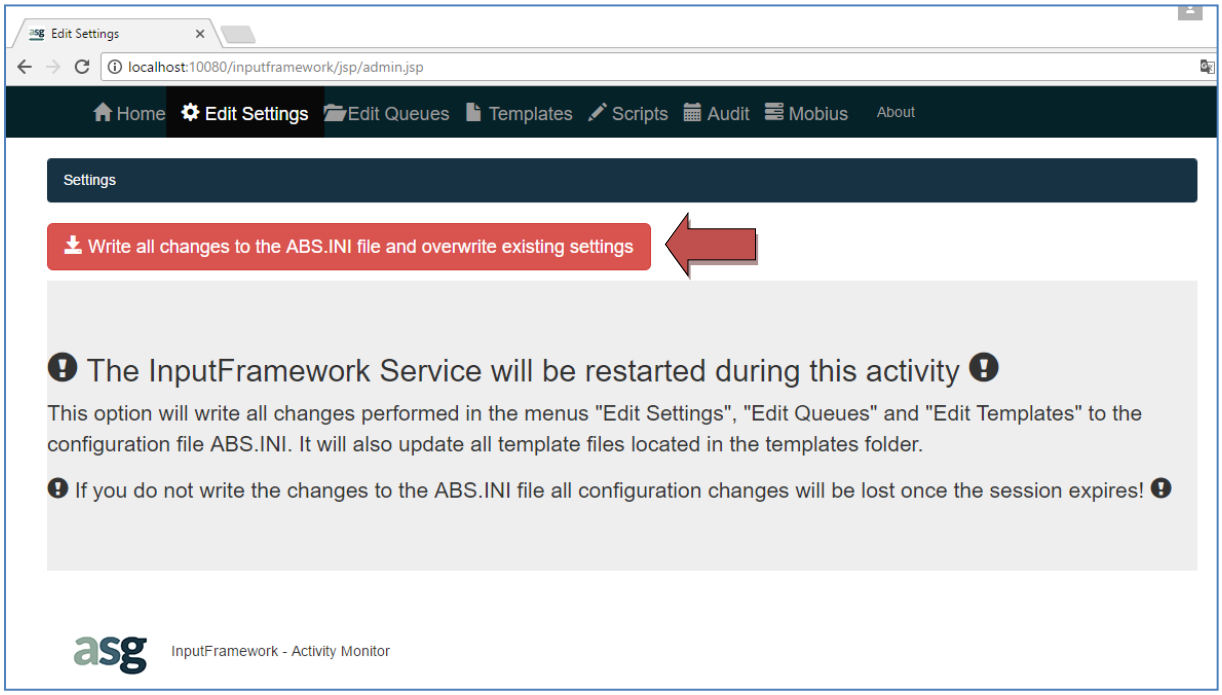
- Hit the button "Apply Changes"

Activate new configuration

To activate the new configuration perform the following steps:

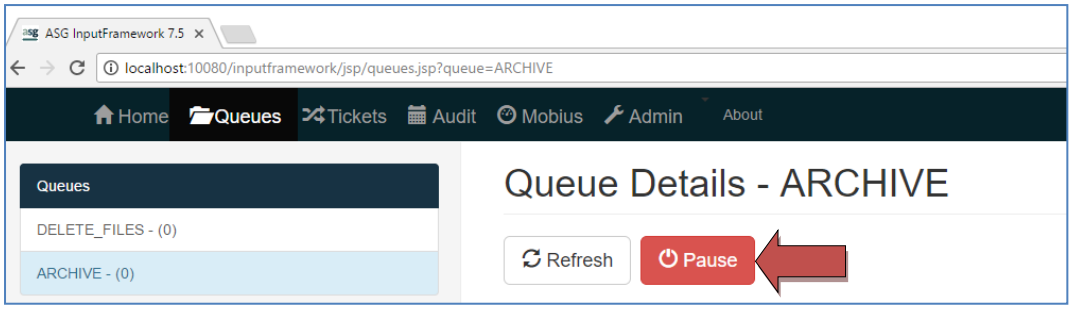
1. Navigate to the menu entry “Edit Settings”
2. Hit the button “Write all changes to the ABS:.NI file and overwrite existing settings”

➔ *This action will restart the InputFramework service which will cause a downtime for about 1-2 minutes.*

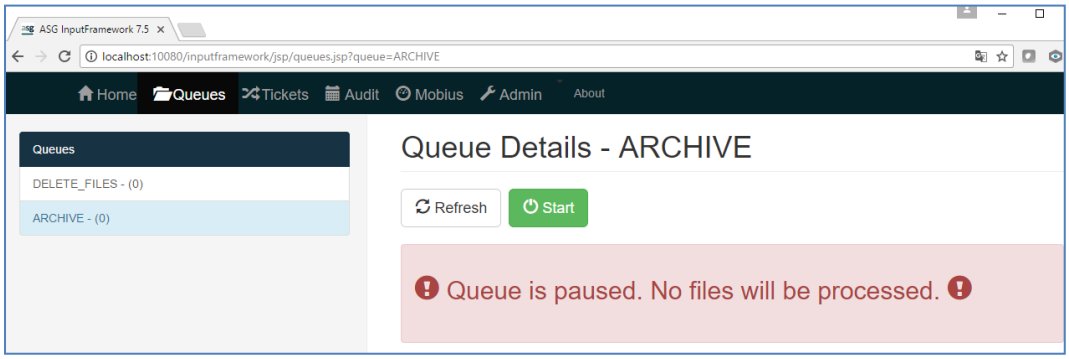


Test the new Configuration

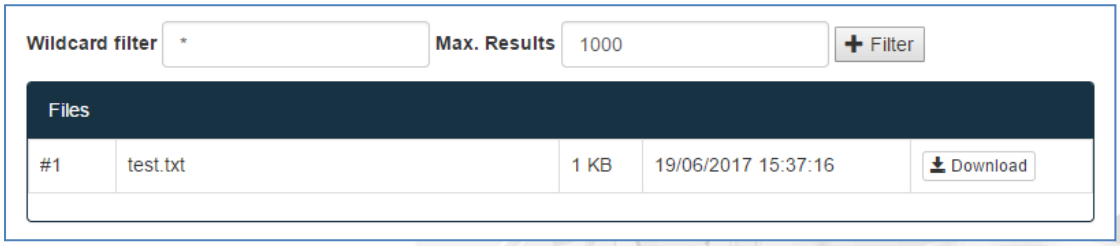
- Select the "Home" menu to leave the configuration area
- Select the "Queue" menu
- Select "ARCHIVE" in the queue list



- Hit the button "Pause" to stop the queue processing

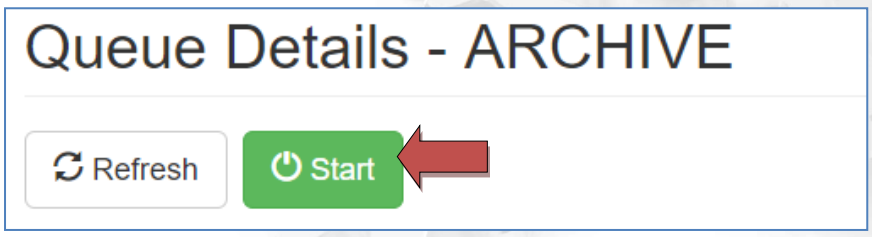


- Copy a sample file in the queue folder (e.g. c:\inbox\archive) and hit the refresh button



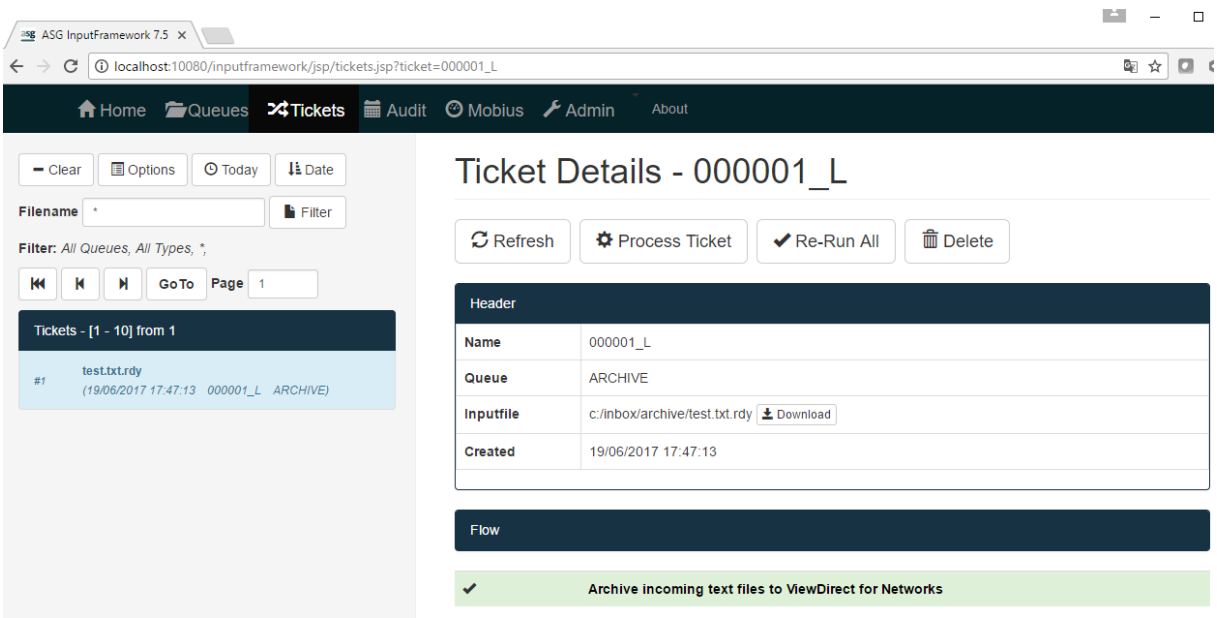
➔ *This sample file appears in the files list of the queue menu*

- Hit the button "Start" to enable queue processing



➔ The extention .rdy is added to the filename to indicate that the file is picked-up from the input framework.

- Select the menu "Tickets" to check the ticket processing



➔ A new ticket should appear and the green background color indicates the successful processing. For each processed file a new ticket is created with a ascending number (1,2,3 ... n). The suffix and the background color indicate the status of the ticket as shown in the table below.

Suffix	Color	Description
_W	White	The file is waiting to be processed
_P	Yellow	The file is currently processed
_L	Green	The file is already successfully processed.
_E	Red	The file is processed but one step returned an error

The audit section of the ticket shows the output of the command. It contains the STDOUT, STDERR and the return code.

Audit

AuditEntry #0

Taskname	Archive incoming text files to ViewDirect for Networks
Message	Successfully completed
Starttime	19/06/2017 17:47:14
Stoptime	19/06/2017 17:47:15
Cmd	`"E:\ASG\ASG-ViewDirect for Networks\acreate.exe" -s InputFramework -u InputFramework -p mobius -f c:\inbox\archive\test.txt.rdy -r ARCHIVETXT -m P -c INPUTFRAMEWORK`
Stdout *(max 4.000 Chars)*	`ViewDirect for Networks Archive Creator for Windows` `Copyright (C) 2000-2016, Allen Systems Group, Inc. All Rights Reserved.`

Stderr *(max 4.000 Chars)*	`Mon Jun 19 17:47:15 2017 - N065I- Archive creation processing log:`
	`e:\DAFS\inputframework\log\20170619174715000.log`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Processing`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Reading input file`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Sorting index entries`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Moving entries to archive`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Sorting index entries`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Moving entries to archive`
	`Mon Jun 19 17:47:15 2017 - N379I- Phase: Committing topics to database`
	`Mon Jun 19 17:47:15 2017 - N384I- Archive creation completed`

Return Code	`0`

Create Hyperlink in STDOUT and STDERR

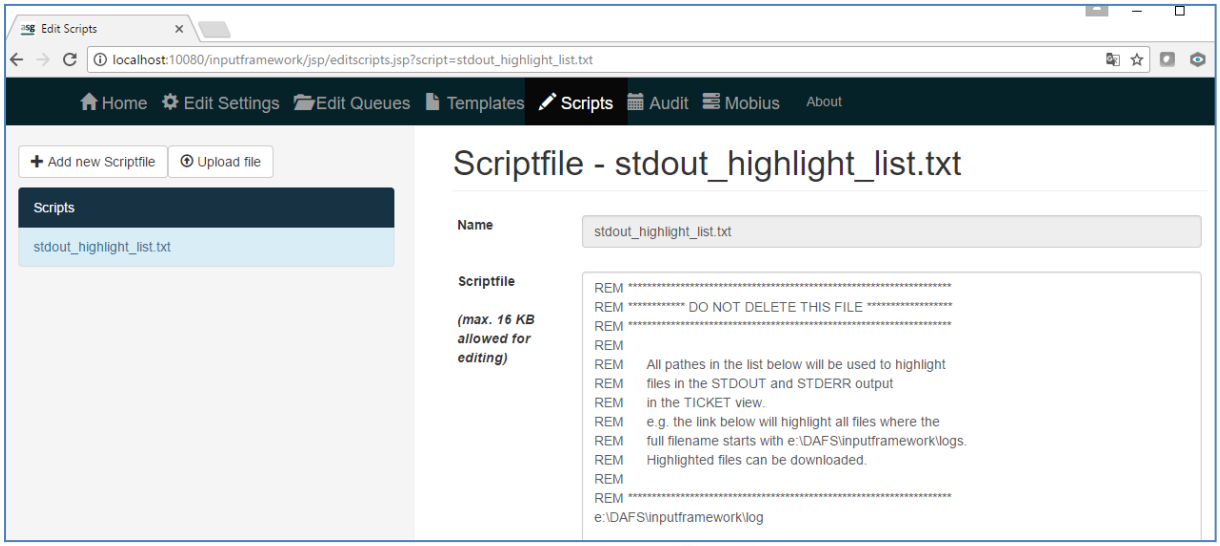
If configured in ViewDirect for Networks (please refer to the ViewDirect for Networks documentation) the STDERR stream of the acreate.exe module contains the full qualified filename to the archive log file.

In the case of an archiving error this file contains valuable information.

Therefore the input framework provides the functionality to create a hyperlink to open the logfile from the Web-Interface.

To create a hyperlink perform the following steps:

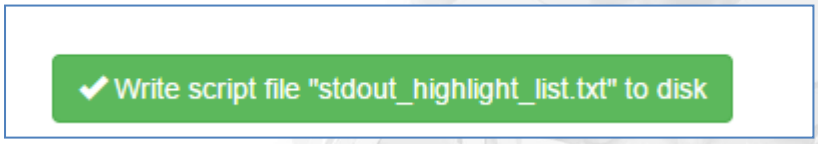
- Navigate to the menu entry "Admin"
- Select the menu entry "Configuration"
- Navigate to the menu entry "Scripts"
- Select the default script "stdout_highlight_list.txt"



- Add the path to the logfile location as configured in ViewDirect for Networks (e.g. e:\DAFS\inputframework\log)

➔ You can add multiple path values but only one per line.

- Save the configuration using the button "Write script file "stdout_highlight_list.txt" to disk



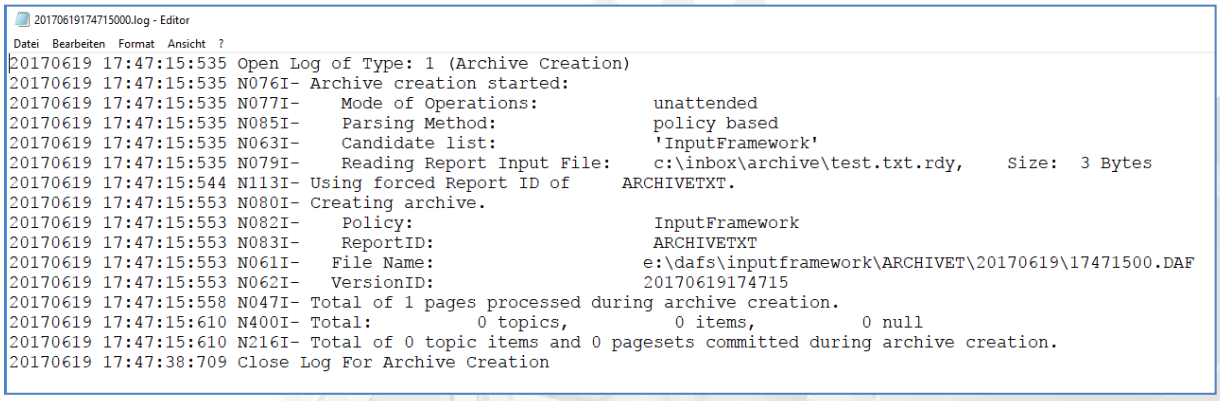
Audit

AuditEntry #0

Taskname	Archive incoming text files to ViewDirect for Networks
Message	Successfully completed
Starttime	19/06/2017 17:47:14
Stoptime	19/06/2017 17:47:15
Cmd	"E:\ASG\ASG-ViewDirect for Networks\acreate.exe" -s InputFramework -u InputFramework -p mobius -f c:\inbox\archive\test.txt.rdy -r ARCHIVETXT -m P -c INPUTFRAMEWORK
Stdout *(max 4.000 Chars)*	ViewDirect for Networks Archive Creator for Windows Copyright (C) 2000-2016, Allen Systems Group, Inc. All Rights Reserved.
Stderr *(max 4.000 Chars)*	Mon Jun 19 17:47:15 2017 - N065I- Archive creation processing log: e:\DAFS\inputframework\log\20170619174715000.log Mon Jun 19 17:47:15 2017 - N379I- Phase: Processing Mon Jun 19 17:47:15 2017 - N379I- Phase: Reading input file Mon Jun 19 17:47:15 2017 - N379I- Phase: Sorting index entries Mon Jun 19 17:47:15 2017 - N379I- Phase: Moving entries to archive Mon Jun 19 17:47:15 2017 - N379I- Phase: Sorting index entries Mon Jun 19 17:47:15 2017 - N379I- Phase: Moving entries to archive Mon Jun 19 17:47:15 2017 - N379I- Phase: Committing topics to database Mon Jun 19 17:47:15 2017 - N384I- Archive creation completed
Return Code	0

Every file in STDOUT or STDERR starting with one of the path values defined in the file stdout_highlight_list.txt will be highlighted.

If the user clicks on the link the file will be downloaded and presented inside the browser.



20170619174715000.log - Editor

Datei Bearbeiten Format Ansicht ?

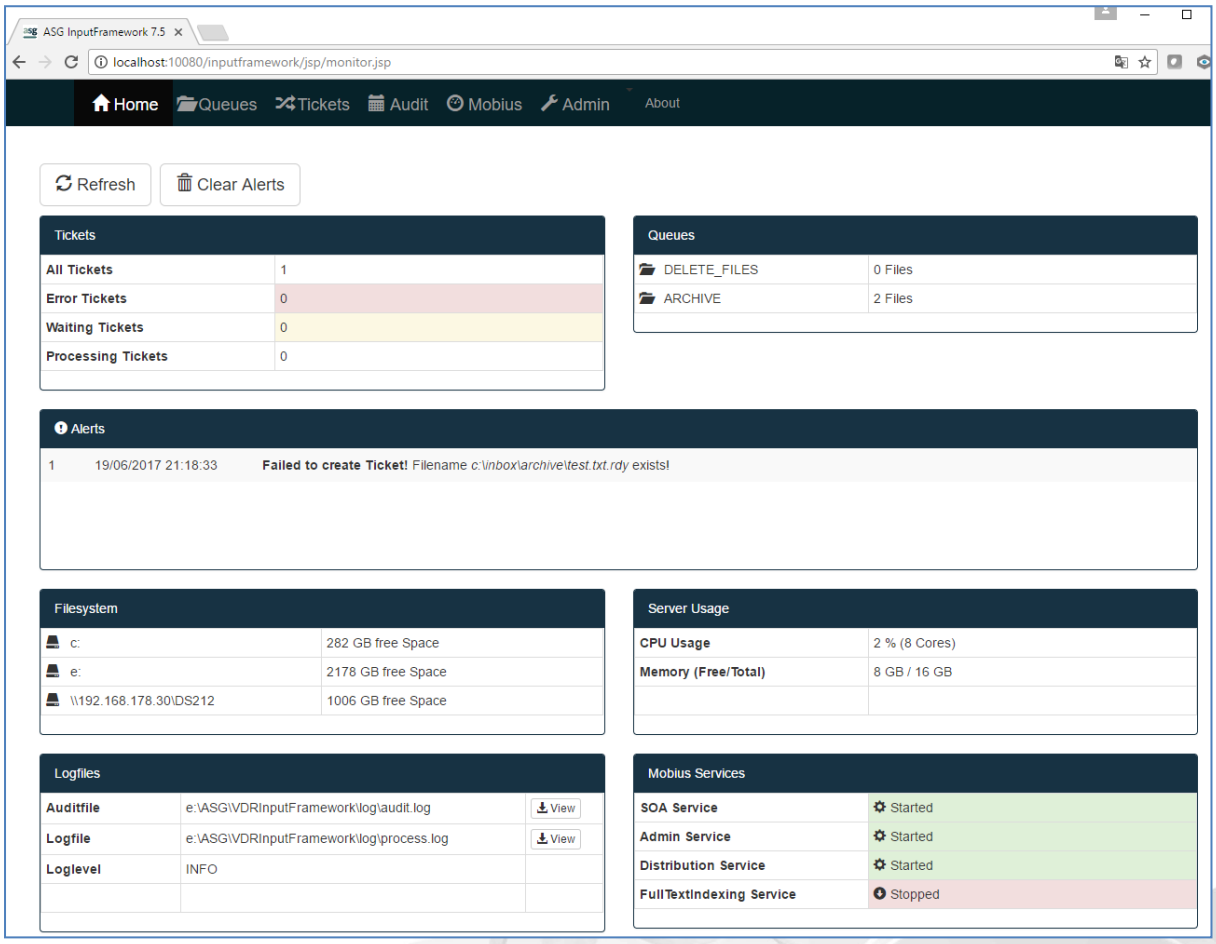
```
20170619 17:47:15:535 Open Log of Type: 1 (Archive Creation)
20170619 17:47:15:535 N076I- Archive creation started:
20170619 17:47:15:535 N077I-    Mode of Operations:          unattended
20170619 17:47:15:535 N085I-    Parsing Method:              policy based
20170619 17:47:15:535 N063I-    Candidate list:              'InputFramework'
20170619 17:47:15:535 N079I-    Reading Report Input File:   c:\inbox\archive\test.txt.rdy,    Size:  3 Bytes
20170619 17:47:15:544 N113I- Using forced Report ID of     ARCHIVETXT.
20170619 17:47:15:553 N080I- Creating archive.
20170619 17:47:15:553 N082I-    Policy:                      InputFramework
20170619 17:47:15:553 N083I-    ReportID:                    ARCHIVETXT
20170619 17:47:15:553 N061I-   File Name:                   e:\dafs\inputframework\ARCHIVET\20170619\17471500.DAF
20170619 17:47:15:553 N062I-   VersionID:                   20170619174715
20170619 17:47:15:558 N047I- Total of 1 pages processed during archive creation.
20170619 17:47:15:610 N400I- Total:         0 topics,         0 items,         0 null
20170619 17:47:15:610 N216I- Total of 0 topic items and 0 pagesets committed during archive creation.
20170619 17:47:38:709 Close Log For Archive Creation
```

7. Activity Monitor User Menus

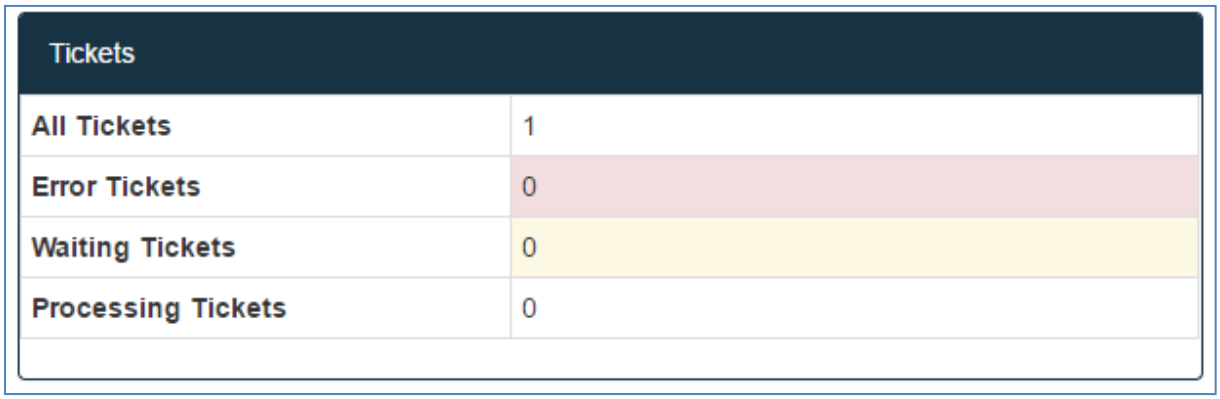
Home

The home screen status information about input framework like number of files in the defined queues or ticket status information.

It also provides information about the server running the input framework like CPU utilization or free disk space for configured file systems.

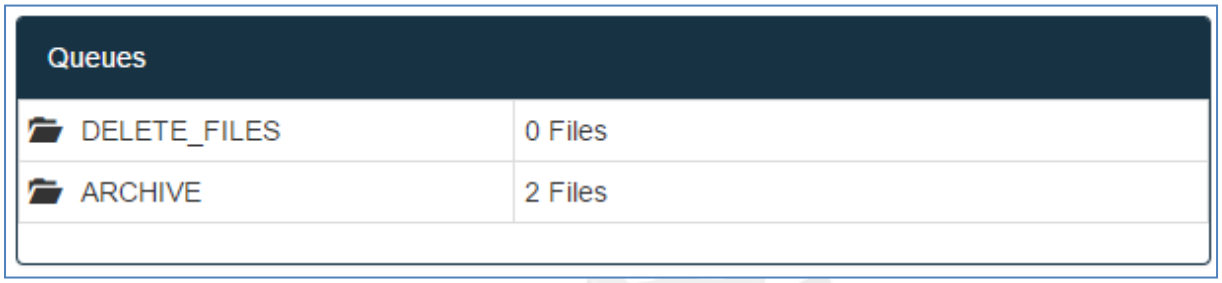


Ticket screen



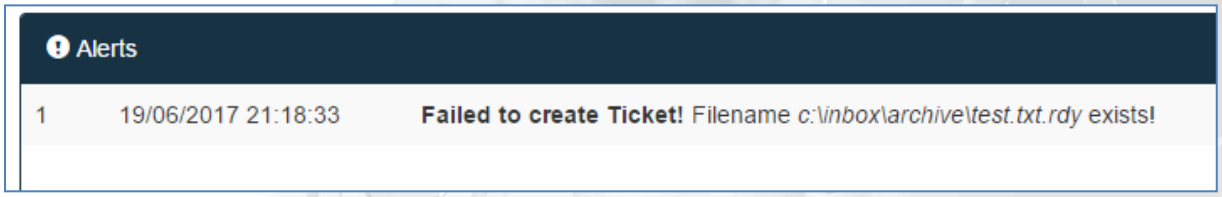
All Tickets	Number of tickets in the ticket system. This includes every possible status like Finished, Error, Waiting or Processing
Error Tickets	Number of error tickets which require administrator attention
Waiting Tickets	Number of tickets which have not been processed yet
Processing Tickets	Number of tickets which are currently processed

Queue Screen



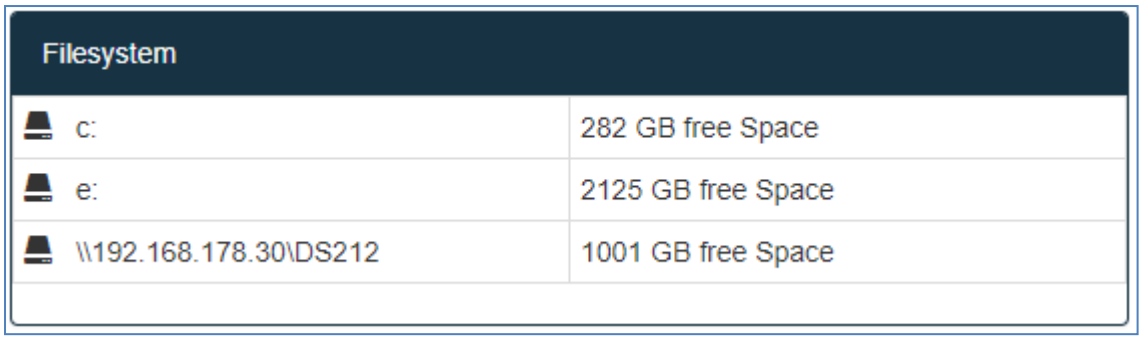
The queue screen lists the number of files in the queue folder.

Alert Screen



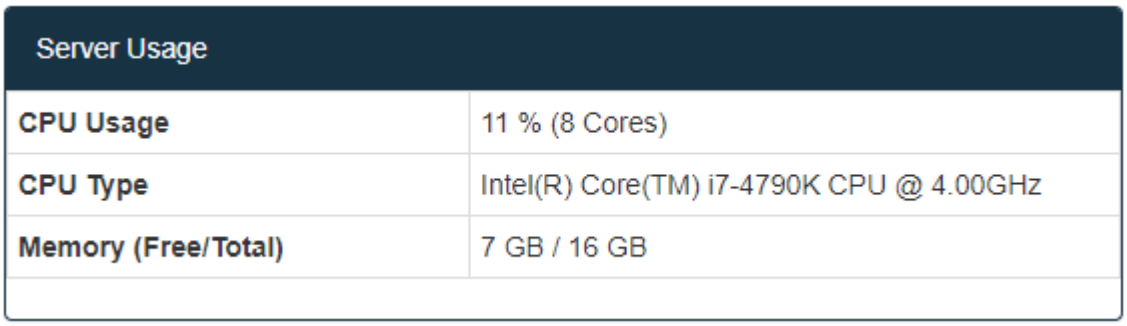
The alert screen will show critical system events.

Filesystem



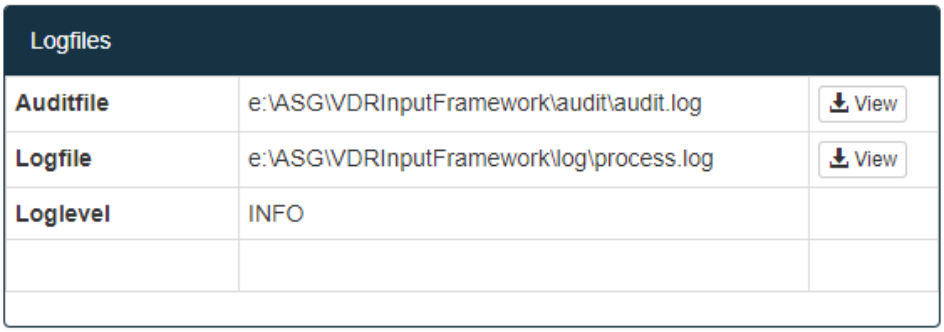
The files ystem screen shows the free capacity of the watched file systems. If there are less than 10 GB free the entry is highlighted in red.

Server usage



The server usage screen provides the information about the CPU (type and number of cores) and the memory on the server running the input framework. It also provides the information about the current memory usage and the CPU utilization.

Logfiles



The logfiles screen shows the current log level and provides access to the audit and the process log. The process log contains information regarding the input framework application while the audit log shows information about the usage (incoming documents).

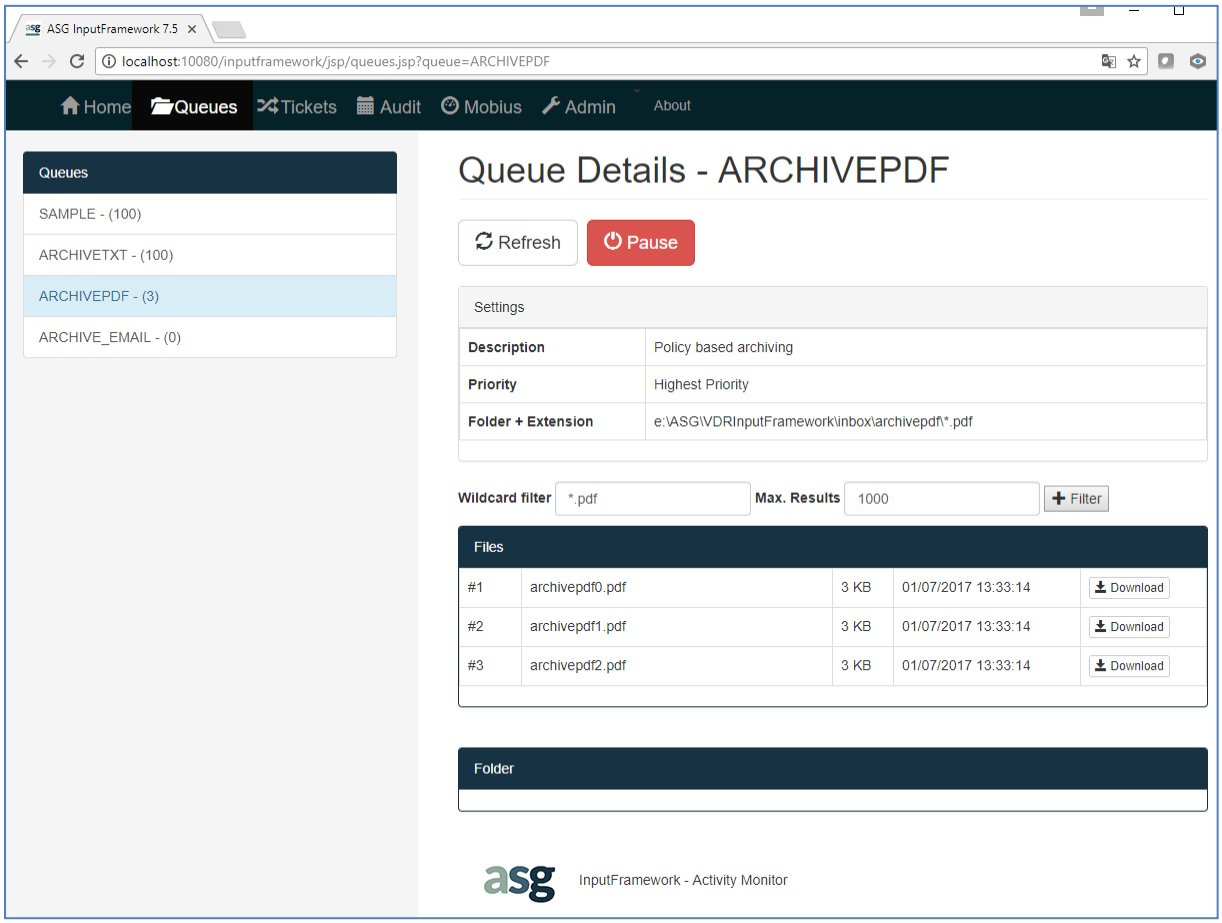
Mobius Services

Mobius Services	
SOA Service	Started
Admin Service	Started
Distribution Service	Started
FullTextIndexing Service	Stopped

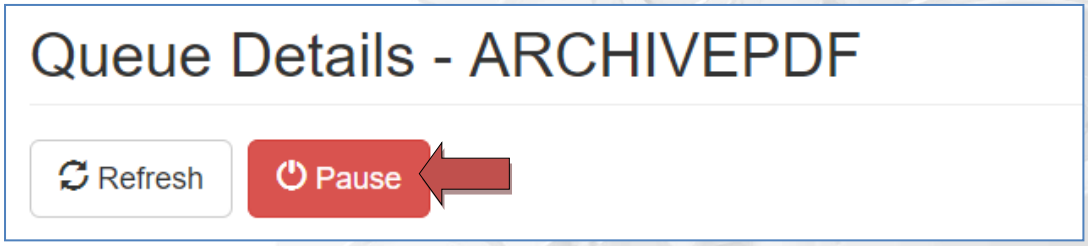
The mobius services screen provides the information about the services status of the ViewDirect for Networks instance running on the input framework server.

Queues

The queues menu shows the content of the defined input folder. It is possible to query for documents in the folder and to download the documents for review.



Pause queue



The button "Pause" stops the processing of incoming files in this queue until the button "Start" is pressed.

8. User Roles

Viewer

The viewer role is intended to watch the system and the resources. A user of the viewer role does not have any permission to modify the configuration or to influence the processing of incoming files.

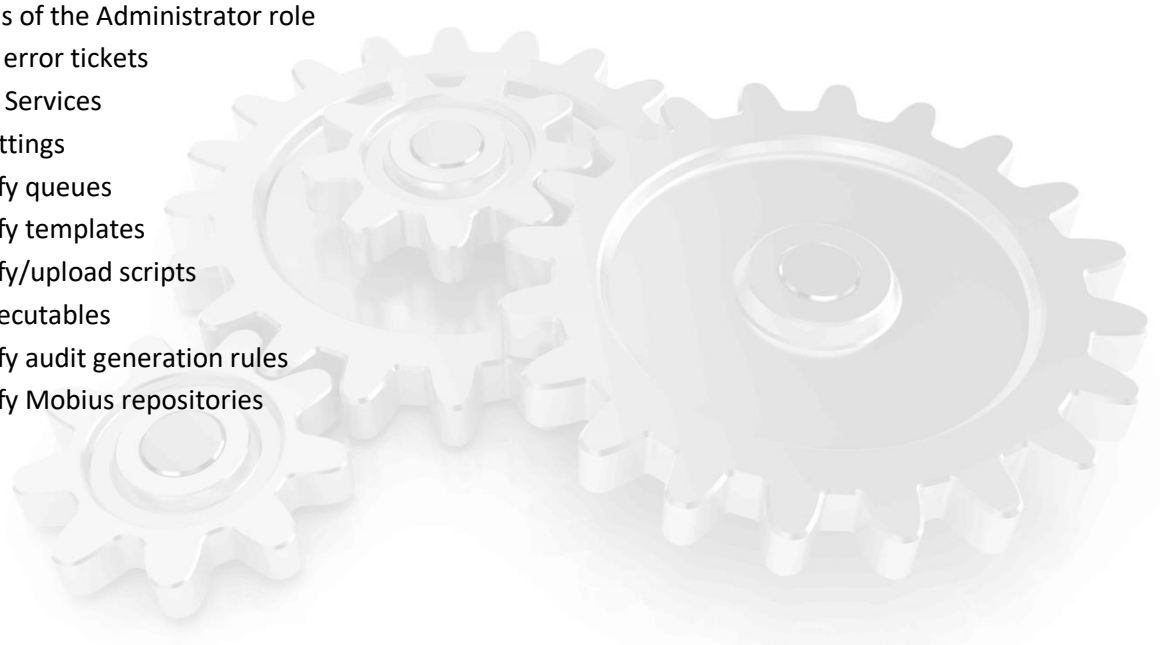
- View Home Screen
- View Queues
- View and search tickets
- View and search audit information
- View and search Mobius repositories

Administrator

The administrator provides access to all features to control incoming files in the input queues. The includes:

- All features of the Viewer role
- Start/Stop queues
- Re-Run a single processing ticket
- Delete a processing ticket

System administrator

The system administrator has full access to the system and all resources.

- All features of the Administrator role
- Re-Run all error tickets
- Start/Stop Services
- Change settings
- Add/modify queues
- Add/modify templates
- Add/modify/upload scripts
- Upload executables
- Add/modify audit generation rules
- Add/modify Mobius repositories