Talend Exceptions

Exceptions are generated by Talend routines whenever unexpected conditions are encountered which result in the termination of the process. Details of these exceptions are stored in a log file but there are inherent difficulties with this mechanism:

Searchability	A log file is a large text file and information can easily be lost within it. If you know exactly what you are looking for then you may be able to find it but that's not always the case and the classification and searchability functions are limited.
Verbosity	A lot of information is written about each exception and whilst this is useful when you have found the correct place the physical amount can be overwhelming. The natural free format of the data also makes searching difficult.
Repetition	Near identical exceptions can occur within a short time period and each one will be fully written to the log. A good example is where an identification number is out of sequence when processing a large batch of files. They will all fail in turn each wring copious amounts of data to the log file.
Cycling	Log files are limited to 10 MB in size and once full will be archived and a new file started. Only 10 archives are allowed however and when they are all used the oldest is discarded. If you have a series of verbose exceptions occurring in rapid succession the logs can quickly fill their allocation and begin cycling so losing exception data before it has been analysed.
Free Format	Talend has 2 main types of process; data integration jobs and esb routes. They perform different functions and their error reporting is formatted differently. This again can lead to confusion when analysing the log.

A series of common components used in the Talend processes extracts any exception information and writes it to a central database in a common format. Each exception is checked on loading and is only recorded if a similar exception for the same process has not been received in the recent past, so removing the repetition issue. The use of a database alleviates all the issues highlighted above creating a permanent and searchable catalogue of issues,

A myriad of circumstances can generate exceptions and initially these won't be classified by the host system beyond a very high-level exception class. The core concept of the error framework is to allow this unclassified information to be worked with initially but to subsequently allow the enrichment of the data by classifying it and linking additional data relevant to the cause. Subsequent occurrences automatically link to the enriched data becoming known exceptions.

Both known and unknown exceptions can automatically pass through a process known as assignment which generates an e-mail containing the details of the exception and sends it to one or more addresses set up to receive the communication termed **operators** within the framework. The most important operator will be the fresh service e-mail that will then automatically produce a ticket on reception of the data.

Unknown exceptions will be handled via the default mechanism that will automatically send the data to fresh service. Once an exception is classified it can still be sent to the same address however it can also be routed elsewhere, and this will be the case with several internal exceptions that don't require a ticket to be raised – A temporary read fault in the e-mail process itself would be a good

example of this. It runs every minute throughout the day but we do get the odd error that is selfrectified with the next run so it would be over-kill to generate work tickets for each of these.

Viewing the Exceptions Table

From the main system menu click the Exceptions button.



This will call the Runtime Exceptions menu listing the exceptions and warnings captured from the 3 environments. From the exceptions row click on the View Talend Prod Exceptions option (or one of the other environments if you prefer.)

ESB Maintenand	ce Home About Contac	zt	
Runtime E	Exceptions		
	DEV	TEST	PROD
		Exception Data	
Exceptions	View Talend Dev Exceptions	View Talend Test Exceptions	View Talend Prod Exceptions
Knowledge Base	Dev Knowledge Base	Test Knowledge Base	Prod Knowledge Base
		Warnings Std and Critical	
Warnings	View Talend Dev Warnings	View Talend Test Warnings	View Talend Prod Warnings
Warning Master	View Dev Warning Master	View Test Warning Master	View Prod Warning Master
		ESB Processes and Resources	
ESB Processes	View Dev ESB Processes	View Test ESBProcesses	View Prod ESB Processes
Back to Main Menu			
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Find by	/ name:	Search				
D	Date	Message	Exception	Туре	Process	Status
3025	29/08/2019 11:34:46	Execution of Talend job 'steinhoff.sjob0	org.apache.camel.RuntimeCam elException	Route	SRTE0002_MONITOR_RunExc eptionMail	Assigned Update Details
3024	29/08/2019 11:34:46	java.io.FileNotFoundException:C:\temp\Ta	Java Exception	Job	SJOB0006_UTILITY_MailExce ptions	Assigned Update Details
3023	29/08/2019 11:05:00	Error during type conversion from type:	org.apache.camel.TypeConvers ionException	Route	SRTE0003_PRODUCT_AND_ MODEL_BensonsCodelistFeed	Assigned Update Details
3022	29/08/2019 10:35:00	Error during type conversion from type:	org.apache.camel.TypeConvers ionException	Route	SRTE0003_PRODUCT_AND_ MODEL_BensonsCodelistFeed	Assigned Update Details
3021	29/08/2019 10:05:00	Error during type conversion from type:	org.apache.camel.TypeConvers ionException	Route	SRTE0003_PRODUCT_AND_ MODEL_BensonsCodelistFeed	Assigned Update Details
3020	29/08/2019 03:03:52	Execution of Talend job 'steinhoff.sjob0	org.apache.camel.RuntimeCam elException	Route	SRTE0003_OLDESB_RunLead Time	Assigned Update Details
3019	29/08/2019 03:03:52	java.lang.RuntimeException:File or path	Java Exception	Job	SJOB0001_OLDESB_LEADTI ME_UpdateLeadtime	Assigned Update Details
3018	28/08/2019 11:34:01	Execution of Talend job 'steinhoff.sjob0	org.apache.camel.RuntimeCam elException	Route	SRTE0002_MONITOR_RunExc eptionMail	Assigned Update Details

The screen is a list of the exception data sent by Talend presented with a maximum of 8 exceptions per page. The paging control is at the bottom left-hand corner of the screen. The list information comprises: date of exception, the first 40 characters of the exception message, the system exception class, the Talend process type (job or route), the process that generated it, current status in the framework and 2 options to Update or show Details.

A system id number is generated for each exception but to classify the information as a known type, the first 20 characters of the exception message together with the process that created it is used. This will become clearer when the knowledge base is discussed later in this document.

To see the full details of the exception, select the details option on one of the items.

ESB Maintenance	Home About	Contact	Hello blastrocker@hotn	
Details Exception (Prod)				
ExceptionSeq DateRaised ExceptionMessage	3023 29/08/2019 11:05:0 Error during type c org.xml.sax.SAXPa	0 onversion from type: java.lang. arseException: Premature end	String to the required type: org.w3c.dom.Document with value due of file.	
Exception Type Talend Type ProcessName FileName Stack Trace	org.apache.camel. Route SRTE0003_PRODI cvl_CoverColour_2 org.apache.camel. org.apache.camel. org.apache.camel. org.apache.camel. org.apache.camel. org.apache.camel. org.apache.camel. org.apache.camel.	TypeConversionException JCT_AND_MODEL_Bensons(0190829_110500_080854.xml impl.converter.BaseTypeConver- ter.com pl.converter.BaseTypeConverter.com builder.ml XPathBuilder.dolne builder.xml XPathBuilder.getDo builder.xml XPathBuilder.enato builder.xml XPathBuilder.match builder.xml XPathBuilder.match	CodelistFeed I erterRegistry.createTypeConversionException(BaseTypeConverterRegistry.java.610) erterRegistry.convertTo(BaseTypeConverter,Registry.java:137) convertTo(OsgiTypeConverter,java.108) stDocument(XPathBuilder.java:115) ocument(XPathBuilder.java:1094) EvaluateAs(XPathBuilder.java:886) iateAs(XPathBuilder.java:155)	^
Status LogRef OperatorAssigned ProcessKey KBISeq View KB Item Update Bar	Assigned 0 39 4 ck to List			

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On the details screen the full exception message can be seen rather than the truncated version and there is also an entry called **FileName** which will list the name of the data file being used when the exception occurred provided the process is a route. If the error occurred during a job the name of the Talend component on which the job failed is listed instead.

Stack Trace lists the steps the program went through from initialisation to the point of error. This can be quite long so is shown in a scrollable area within the form.

Status lists the current classification of the exception. Newly captured data will have the status of 'Raised' but this will quickly change to 'Assigned' once the auto assignment process has run. Other statuses could include 'Updated' and 'Completed'. This feature could be used as a workflow but exceptions are generally managed in Fresh Service instead so most records will have the value 'Assigned'. Log Ref is where the number of the support ticket raised from the exception data can optionally be entered to provide a link from the framework to the ticket. There is already a link the other way via the URL included in the exception e-mail data.

Operator Assigned will generally show a value of zero unless the default operator(s) (e-mail assignees) have been manually overridden in which case it will show the code of the operator selected.

Process Key is the id number within the framework of the process that generated the exception. Talend errors provide the name of the process but further enrichment of the data occurs within the framework. When a new interface process is deployed it must also be set up in the framework and this will be the responsibility of developers. Should the procedure not be completed there is a default process key of 0 termed 'UnKnown Process' that will allow things to complete as usual until this is rectified.

KBISeq displays the identity number of the knowledge base item (KBI) linked to this exception. The KBI is the template for the exception and all the enrichment and assignment processes link to it. Exceptions are linked to a KBI via a combination of the first 20 characters of the exception message and the process key. There is also a special KBI known as 'Unknown Exception' which has a key of -1 and any exceptions that do not match an existing KBI will be assigned to this. This concept is what allows the framework to initially work with unknown exceptions still forwarding them on to Fresh Service but later classify and enrich the data and fine tune the redirection information.

There are 3 options at the bottom left-hand corner of the screen. The First of these will vary depending on the value of the KBISeq field. A positive integer value indicating a knowledge base item exists for this exception will cause **View KB Item** to be displayed allowing the viewing and updating of the associated KBI. If the value is -1 showing that a link to the default unknown exception exists, the text will change to **Add to KB** which will allow you to add a new KBI that this and all subsequent occurrences of this exception will be linked to. The **Update** option allows the manual overriding of the assignment process and the addition of notes to the exception together with the option to set the status to Complete. The final option **Back To List** returns to the list of exceptions.

Each of these options will now be examined in turn.

Add to KB

This feature creates a new knowledge base item (KBI) for the exception. Once created all future exceptions of this type from the same process will automatically be linked to this KBI

ESB Maintenance	iome About Contact	Hello blastrocker@hotmail.com!
Create KBI (F	Prod)	
ProcessKey MessageStub Title	8 Java.lang.RuntimeExc	
Description		
LastModifiedDate LastModifiedBy		
Back to Exception	Create	

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On selecting the option, the screen appears with the process key and message stub (first 20 characters of the exception message) already completed. These are the link to the exception and cannot be modified.

Field Name	Details
Title	Enter a friendly description to describe the
	exception.
Description	Full details of what has occurred, and any steps
	required to rectify it. This is a scrollable area so
	if the description exceeds the space shown on
	the screen scroll bars will automatically appear
	allowing you to continue entering text and to
	move up and down the description as
	necessary.

Click on **Create** and the record will be written, and control returns to the exception details screen. Note that the options at the bottom left-hand side will have changed slightly to be:

View KB Item | Update | Back to List

Clicking View KB Item will take you into the details screen of the KBI which displays the details entered in the create screen as read only, with 4 options at the bottom: Edit, Add Resource. Assign Operators(s) and Back to Exception.

	STEINHC	OFF ERROR FRAMEWORK	
ESB Maintenance	Home About Contact		Hello blastrocker@hotmail.com! Log of
Details			
Knowledge Base Iten	n (Prod)		
Title Description LastModifiedDate LastModifiedBy ProcessName	Exception Mail Error The interface to send e-mails generated by the the previous instance that has not completed the mechanism by it's nature keeps a record of 24/07/2019 11:24:34 blastrocker@hotmail.com SRTE0002_MONITOR_RunExceptionMail	e exception mechanism runs every minute thro and raises an error itself. This is not something of these occurrences.	sughout the day. Occasionally this will error due to tripping over that a log needs to be raised for as it self rectifies however
Resources			
File Name	Туре	Description	Action
Edit Add Resource Assig	n Operator(s) Back to Exception		
© 2019 - Steinhoff UK Ltd			

To assign an operator to a KBI select the **Assign Operators** option. Note that the label for this option is data sensitive and if any operators are already assigned it will read **View Operators** instead. The functionality is not affected and these terms are inter changeable.

Assigning an Operator to a KBI

ESB	Maintenance	Home About	Contact	Hell	lo blastrocker@hotma
Kno	owledge	Base Iter	n Operator(s) (Pro	od)	
Title	- Exception Ma	ail Error			
Key	Operator		E-Mail		
1	John Tucker		john.tucker@SteinhoffRetail.co.uk	Delete Enabl	le-Mail
Assign	Operator Back to	KBI			
© 2019	9 - Steinhoff UK Ltd				

A list of the current operators assigned to the KBI is displayed these can't be edited but they can be deleted and there is an option at the right-hand end of each row which will do this subject to the usual confirmation.

To assign further operators to this master click the **Assign Operators** option at the bottom of the screen.

ESB Maintenance ⊢	Home About	Contact	
Assign KBI O Assign an operator to a	perator(s a Knowledge E	s) (Prod) Base Item	
KBISeq OperatorKey	2 JT Other		
	Assign		

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The KBI sequence has already been entered and cannot be changed. Select required operator from the drop-down list, confirm whether e-mail should be enabled for this operator and click on **Assign**. The operator is now linked to the KBI and if you repeat the actions from the previous section they will be displayed in the list.

Only operators that have previously been recorded on the system can be assigned to the master. If the operator doesn't exist use the following instruction to create them

Click on the ESB Maintenance option in the top left-hand corner of the screen. This is a shortcut that will take you straight back to the main menu.



From the main menu select the Configuration option which will call the config menu

	STEINHOFF ER	ROR FRAMEWORK	
ESB Maintenance Ho	me About Contact		
Configuration	Menu		
0	DEV	TEST	PROD
		General System Set Up	
Framework Master Process Early Life	Dev Framework Master Dev Process Early Life	Test Framework Master Test Process Early Life	Prod Framework Master Prod Process Early Life
		Alerting and Assignment Set Up	
Alert Type Setup Alert Recipients Alerts Config	Dev Alert Type Dev Alert Recipients Dev Alerts	Test Alert Type Test Alert Recipients Test Alerts	Prod Alert Type Prod Alert Recipients Prod Alerts
Assignment Operators	Dev Operators	Test Operators	Prod Operators
Back to Main Menu			
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From the assignment operators row select the action appropriate to the environment you are using. In this case click on Dev Operators.

ESB Maintenance	Home About Contact		Hello blastrocker@hotmail
Operator (De Create New	ev)		
OperatorName	EMailAddress	OperatorGroup	
Auto Assign	Not Applicable	AA	Edit Details Delete
John Tucker	john.tucker@SteinhoffRetail.co.uk	ТА	Edit Details Delete
JT Other	blastrocker@hotmail.com	HOME	Edit Details Delete
Back to Menu			
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A list of the operators currently set up for the Dev system is shown. Click on Create New to add a new one. This will call the operator creation screen. Add the operator name which is a friendly label together with the e mail address. The operator group field is not currently used but may be in future versions I just use the default TA for now.

	STE	INHOFF EI	RROR FRAMEWORK
ESB Maintenance	Home	About	Contact
Create Operator (Dev)			
OperatorName			
EMailAddress			
OperatorGroup			
	Cre	eate	
Back to List			
© 2019 - Steinhoff UK Ltd			

Click create and the operator will now appear in the list and can be assigned to warning masters or the exception equivalent.

Change Mail Status of KBI Operators

In the list of operators for the KBI you will notice an option at the left-hand end of each row to enable or disable mail depending on the current status. Clicking this option will call the following screen which allows changes to be made to the e-mail status of the KBI operator. This is the only change allowed once an operator has been assigned.

ESB Maintenance	Home About Contact
Edit KBI Oper Assign an operator to a	rator(s) Mail Enabled Status (Prod)
KBISeq	2
OperatorKey	1
EMailEnabled	Not Set \checkmark
	Assign
Back to KBI	
© 2019 - Steinhoff UK Ltd	

STEINHOFF ERROR FRAMEWORK

When a notification of an exception is sent the first part of the e-mail includes a list of all operators assigned to the warning master. This is useful when being sent to fresh service to show who the automatically raised ticket should be assigned to. Normally the system would also send notifications to all the operators specified however this may not be desired as the problem should be managed only through fresh service. Disabling the e-mail prevents these direct notifications being sent but keeps the operator in the list of assignees. Any combination of notifications can be modelled through this process.

Optionally add resources to the KBI

A resource is an external document that can be used to add additional background information to the circumstances surrounding a warning or exception. Typical examples may be a concept diagram or a specification. The documents can be uploaded and automatically associated with the KBI. Subsequent viewing of the KBI record allows the resources to be downloaded and viewed.

To add a resource to a KBI first select an item from the list of warnings and click on details which will bring up the details screen.

ESB Maintenance	Home About	Contact		Hello blastrocker@hotmail.com! Log @
Details Knowledge Base Iten	n (Prod)			
Title Description	Exception Mail Error The interface to se the previous instan	or nd e-mails generated by ce that has not complet	y the exception mechanism runs every minute thro led and raises an error itself. This is not something	bughout the day. Occasionally this will error due to tripping over g that a log needs to be raised for as it self rectifies however
LastModifiedDate LastModifiedBy ProcessName	24/07/2019 11:24: blastrocker@hotma SRTE0002_MONIT	ail.com GR_RunExceptionMail	ra of these occurrences.	
Resources				
File Name		Туре	Description	Action
Edit Add Resource Assig	n Operator(s) Back	to Exception		
© 2019 - Steinhoff UK Ltd				

From the options at the bottom left-hand corner select **Add Resource**. The add resource screen will be called with the KBI sequence already entered. From the drop-down list select the type of document for the resource.

Note this isn't verified so if you select the wrong type of document the resource will still be uploaded regardless. It's not critical data just a visual aid to easily see what resources are available.

	STEINHOFF ERROR FRAMEWORK
ESB Maintenance He	ome About Contact
Add Resource	eource Document (Prod)
KBISeq	2
ResourceTypeKey	HTML Document
ResourceDescription	
Document	Browse

|--|

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Having selected the type a suitable description should be entered outlining what the resource provides and finally the document itself is selected by clicking the browse button and moving around the folder structure to find the required document.

Add

Click on Add when complete and control returns to the KBI detail screen, the added resource can now be seen.

ESB Maintenance	Home About	Contact		Hello blastrock	ker@hotmail.com! Log off
Details Knowledge Base Iter	n (Prod)				
Title Description LastModifiedDate LastModifiedBy Brooschlama	Exception Mail Err The interface to se the previous instai the mechanism by 24/07/2019 11:24: blastrocker@hotm SETEO002_MONL	or end e-mails generated by the exce toe that has not completed and ra it's nature keeps a record of thes 34 all.com TOP. Pure scention tail	eption mechanism runs every minute ises an error itself. This is not some e occurrences.	throughout the day. Occasionally this withing that a log needs to be raised for as	ill error due to tripping over it self rectifies however
Resources	SRTE0002_MONI	TOR_RUNEXCEPTIONMAIL			
File Name		Туре	Description		Action
Error Framework Alerting	and Assignment Sys	stem.docx Word Document	A detailed description o	utlining the purpose of the resource	Edit Download Delete
Edit Add Resource Assig	jn Operator(s) Bacl	to Exception			
© 2019 - Steinhoff UK Ltd					

At the right-hand end of each resource line there are options to edit, download or delete the resource.

Editing a Resource

Once a resource has been added the only modification allowed is to the description. If you wish to change the document type or the document itself the resource must be deleted and recreated.

Click on edit to call the resource editor.

ESB Maintenance	lome About Contact	Hello blastrocker@hotmail.com!
Edit KBI Reso	purce (Prod)	
KBISeq	2	
ResourceType	Word Document	
	w	
ResourceLocation	Error Framework Alerting and Assignment System.doc>	
ResurceURL	http://evdcstemdb02/DBTableMaintenance/resources/E	
ResourceDescription	A detailed description outlining the purpose of the resource	
	Save	
Back to Details		

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Modify the description as required and click the save button and control returns to the detail screen where the modified description will be visible.

Deleting A Resource

Selecting the delete option on resource line will ask for confirmation of the intention to delete as below:



Selecting **Delete** will remove the resource or **Back to KBI** will cancel the operation. In either case control will return to the details screen where if the deletion was confirmed, the resource will no longer be shown.

Note that deleting a resource removes the reference to the file in the database but doesn't physically remove the file which will still be present in the central file system. Periodic maintenance will manually clean down unused resource files.

Download A Resource

Selecting the download option for a resource will cause the following dialog box to appear at the bottom of the screen.



Selecting **Open** will display a copy of the document in its native application. In this case it was a word file, so it opened in MS Word.



Clicking **Save** will save a copy of the file to your local download folder or alternatively you can select **Save As** and place the copy in a location of your own choice. These are all standard mechanisms that have been hooked into the application.

Process Resources

An ESB process may generate different exceptions each with their own KBI. Some common information can be included as a resource but rather than duplicating, it can be stored at process level. This is termed a Process Resource within the framework.

Any process resources will be displayed on the exception detail screen in a similar way to KBI resources but in a distinct area to differentiate between types.

Return to the Runtime Exceptions menu and from the ESB Processes line select **View Prod ESB Processes** (or whichever environment is appropriate).

ESB Maintenand	ce Home About Contac	t	
Runtime E	Exceptions		
	DEV	TEST	PROD
		Exception Data	
Exceptions	View Talend Dev Exceptions	View Talend Test Exceptions	View Talend Prod Exceptions
Knowledge Base	Dev Knowledge Base	Test Knowledge Base	Prod Knowledge Base
		Warnings Std and Critical	
Warnings	View Talend Dev Warnings	View Talend Test Warnings	View Talend Prod Warnings
Warning Master	View Dev Warning Master	View Test Warning Master	View Prod Warning Master
		ESB Processes and Resources	
ESB Processes	View Dev ESB Processes	View Test ESBProcesses	View Prod ESB Processes
Back to Main Menu			
© 2019 - Steinhoff U	K Ltd		

A paged list of the processes known to the framework is displayed containing: Process Key, Name, Description and Type. Each item has the options for Edit, Details and Delete, the only exception being UNKNOWN PROCESS which doesn't allow editing or deletion.

ESB Maintenance Home About Contact		Hello blastrocker@hotmail.cor	n! Log
ESB Processes (Prod)			
Find by name: Search			
Create New			
Key Process	Description	Type Action	_
0 UNKNOWN PROCESS	UNKNOWN PROCESS	NONE Details	
1 Enactor_DeliveryScheduling	Enactor_DeliveryScheduling	SERVICE Edit Details	Delete
2 Paragon_DeliveryScheduling	Paragon_DeliveryScheduling	SERVICE Edit Details	Delete
3 PARAGON_HDS_1_1_0	PARAGON_HDS_1_1_0	SERVICE Edit Details	Delete
4 SJOB0001_MASTEROFFICE_BensonsMasterOfficeProduct	SJOB0001_MASTEROFFICE_BensonsMasterOffic	GENERIC Edit Details	Delete
5 SJOB0001_MASTEROFFICE_HarveysMasterOfficeProduct	SJOB0001_MASTEROFFICE_HarveysMasterOffic	GENERIC Edit Details	Delete
6 SJOB0001_MONITOR_SYNCH_UpdateProcessedFiles	SJOB0001_MONITOR_SYNCH_UpdateProcessedFi	GENERIC Edit Details	Delete
7 SJOB0001_OLDESB_INTERFACE_AlphaCover	SJOB0001_OLDESB_INTERFACE_AlphaCover	GENERIC Edit Details	Delete
Page 1 Of 7			
1 2 3 4 5 6 7 »			

Back to Menu

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A word about the Unknown Process

When a new ESB process is deployed to any of the runtimes however this may be delayed or overlooked for some reason. In the interim any exception raised still need to be handled and this will

result in them being assigned to the unknown process by default. Once the process has been set up correctly all subsequent exceptions of that type will be assigned to it rather than the unknown value.

The unknown process is also used by the Unknown Exception KBI to handle unknown exceptions. The importance of the unknown process value is why the restrictions on editing and deleting are applied to this special case.

Edit Process

Select the Edit option from the right-hand end of a row to call the edit process screen.

ESB Maintenance	Home About	Contact
Edit ESB Process (Prod)		
ProcessName	SDTE0002	
FIOCESSName	SRTE0002_W	
Description	SRTE0002_MC	NITOR_RunExceptionMail
ProcessTypeKey	ROUTE	
LastModifiedDate	23/07/2019 20	0:17:27
LastModifiedBy	SYSTEM	
	Save	
Back to List		

The main purpose would be to make changes to the description however this could also be used if the interface name was changed in Talend in which case the process name should be changed to reflect this. Care must be taken however to ensure the name is not changed if it hasn't been altered in the ESB otherwise the process will no longer match with incoming exceptions and the unknown process will be used instead.

Details

The details option displays the process information in read-only format, but it also has the option to add resources to the process. Resource types are the same as for KBI resources and the actual documents are stored in the same physical location but are displayed in a different area.

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	STEINHOFF	ERROR FRAMEWORK	
ESB Maintenance	Home About Contact		Hello blastrocker@hotmail.com!
Details ESB Process (Prod)			
ProcessName Description LastModifiedDate LastModifiedBy TypeName	SRTE0002_MONITOR_RunExceptionMa SRTE0002_MONITOR_RunExceptionMa 23/07/2019 20:17:27 SYSTEM ROUTE	ail ail	
Resources	Type	Description	Action
Edit Add Resource Back	to List	2000	
© 2019 - Steinhoff UK Ltd			

Click on the Add Resource option

ESB Maintenance	lome About Contact	Hello
Add Process	Resource (PROD)	
ProcessLey	32	
ResourceTypeKey	Powerpoint Presentation	
ResourceDescription	A Microsoft PowerPoint presentation added as an example process resource	
Document	C:\Users\Administrator\O Browse	
	Add	
Back to Process		

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The process key is already entered, select the resource type from the list, add a description and select the document by pressing the **Browse** button. Click **Add** when complete to add the resource.

Control returns to the process details screen, but the newly added resource is now displayed in the resources section.

	STEINHOFF ERROR FRAMEWORK					
ESB Maintenance	Home About Contact		Hello blastro	cker@hotmail.com!	Log off	
Details ESB Process (Prod)						
ProcessName Description LastModifiedDate LastModifiedBy TypeName	ProcessName SRTE0002_MONITOR_RunExceptionMail Description SRTE0002_MONITOR_RunExceptionMail LastModifiedDate 23/07/2019 20:17:27 LastModifiedDate SYSTEM TypeName ROUTE					
Resources						
File Name Error Framework Overview	Type w.pptx Powerpoint Presentation		escription Microsoft PowerPoint presentation added as an example process resource	Action Edit Download De	lete	
Edit Add Resource Back	to List					
© 2019 - Steinhoff UK Ltd						

The options at the right-hand end of the resource line work in the same way as KBI resources so refer to the previous section items 'Deleting a Resource', 'Editing a Resource' and 'Downloading a Resource' for more information.

If any process resources exist for an exception, they will be displayed in the details screen of the exception following any KBI resources.

ESB Maintenance	Home About Contac	t		Hello blastrocker@hotmail.com! Log
Details Knowledge Base Iter	n (Prod)			
Title Description LastModifiedDate LastModifiedBy ProcessName	Exception Mail Error The interface to send e-ma the previous instance that it the mechanism by it's natur 24/07/2019 11:24:34 blastrocker@hotmail.com SRTE0002_MONITOR_RU	is generated by the exco as not completed and ra e keeps a record of thes nExceptionMail	eption mechanism runs every minute aises an error itself. This is not somet se occurrences.	throughout the day. Occasionally this will error due to tripping ove hing that a log needs to be raised for as it self rectifies however
KBI Resources				
File Name		Туре	Description	Action
Error Framework Alerting	and Assignment System.doc:	Word Document	A detailed description ou	tining the purpose of the resource Edit Download Delete
Process Resources				
File Name	Туре		Description	Action
Error Framework Overview	w.pptx Powerpoint Pres	entation	A Microsoft PowerPoint presentatio	n added as an example process resource Download
Edit Add KBI Resource \	/iew Operator(s) Back to Ex	ception		
© 2019 - Steinhoff UK Ltd				

The only option for a process resource through this screen is to download it. To modify or delete it you will need to go through the process menu as described previously.

Update Exception

The other option at the base of the exception details screen is Update. The exception data as supplied from the application is not intended to be modified but some enriched values and attachments can be changed.

ESB Maintenance	iome About Contact	Hello blastrocker@hotmail.com!
Update Exception (Dev)	otion (Prod)	
Exception Seq	3025	
ExceptionMessage	Execution of Talend job 'steinhoff.sjob0006_utility_mailexceptions_0_1.SJOB0006_UTILITY_MailE failed, see stderr for details	exceptions' with args: [context=Prod]*
OperatorAssigned	Auto Assign Reassign	
Notes		
Add Note		
Mark As Complete		
Back To List Exception Deta	lils	
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Operator Assignment

Assigning operators against a KBI has previously been documented and the settings will apply for all future occurrences. There is also a manual assignment option which allows a single operator to be assigned to an instance of an exception. Once complete the assignment mailing process will pick up the assignee details and send an e-mail in the same format to that used for auto assignment. The process is only for this exception and will not apply to future occurrences.

The main purpose of this function is to send exception details to an individual and is most likely to be used in testing or early life support scenarios. Use of this option won't affect or override the automatic assignment process.

To manually assign select the Reassign option



Select the operator from the list and click **Assign**. This will generate an e-mail with the exception details to the operator selected.

Add Note

Adding a note against an individual exception is another data capture mechanism that is available. As with manual assignment the main use for this facility is expected to be in the debugging and early life phases where data may not yet be in a format suitable for a resource or a KBI description but should be kept for later compilation. Effectively a series of notes hence the terminology.

Click the Add Note button

ESB Maintenance	me About Contact	Hello blastrocker@hotmail.com!
Add Exception Add A Note To An Exc	Note (Prod)	
Exception Seq	3025	
Description	This is a note added to the exception that I will come back to for reference late	ır
	Save Note	
Back to Update		

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Enter text into the description area and click Save Note. Control will return to the update exception screen and the note will be displayed.

ESB Maintenance	Home About Contact		Hello blastrocker@hotmail.com!	Log of
Update Exce Exception (Dev)	ption (Prod)			
ExceptionSeq	3025		sl with area: f_controut=Dred!	
ExceptionMessage	failed, see stderr for details	entron.sjobooo6_uunity_manexceptions_0_1.SJOBooo6_011L111_Manexceptions S	s with args. [context=Prou]	
OperatorAssigned	Auto Assign	Reassign		
Add Note				
02/09/2019 13:09:43	blastrocker@hotmail.com	This is a note added to the exception that I will come back to for reference late	r Edit Details Delete	е
Mark As Complete				
Back To List Exception De	tails			
© 2019 - Steinhoff UK Ltd				

Against each note there is the option to edit, show full details or delete the note. These are selfexplanatory and will not be analysed in detail.

STEINHOFF ERROR FRAMEWORK

Viewing Notes from An Exception

Having added a note to an exception if the details screen is accessed it can be noticed that a new option **View Notes** has appeared at the bottom of the screen.

View KB Item | Update | View Notes | Back to List

Click on the View Notes option and a list of notes for that exception is displayed

ESB Maintenance Home About Contact		Hello blastrocker@hotma	ail.com! Log c
Exception Notes (Prod)			
Description	LastUpdated Time	LastModifiedBy	
This is a note added to the exception that I will come back to for reference later	02/09/2019 13:09:43	blastrocker@hotmail.com	Details
Back to Exception			
© 2010. Stainbaff II/ I tri			

Click on **Details** to display the full note.

ESB Maintenance	Home About Contact	Hello blastrocker@hotmail.com!
Details Exception Note Detai	ls (Prod)	
Exception Seq LastModifiedBy LastUpdatedTime Description	3025 blastrocker@hotmail.com 02/09/2019 13:09:43 This is a note added to the exception that I will come back to for reference later	
Back to Note List		

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Updating Exception Status

When an exception is initially loaded the status is set to **Raised**. The auto assignment process quickly picks this up and after processing resets it to **Assigned**. Exceptions with this status can be updated via the processes listed in this section which includes the option to Mark as Complete.

Selecting this option will set the status to **Completed** at which point it can no longer be updated and effectively becomes read only. It's not necessary for an exception to go through this stage but it is an option if required.

Select the Mark as Complete option

Control returns to the list of exceptions and notice the status of complete and that the Update option is no longer present on that line.

ESB Maintenance Home About Contact Hello blastrocker@hotmail.com						Log off	
Pro	Prod Exceptions						
Find by	y name:	Search					
ID	Date	Message	Exception	Туре	Process	Status	
3026	29/08/2019 18:35:00	java.io.FileNotFoundException:C:\temp\Ta	Java Exception	Job	SJOB0006_UTILITY_MailExce ptions	Assigned	Update Details
3025	29/08/2019 11:34:46	Execution of Talend job 'steinhoff.sjob0	org.apache.camel.RuntimeCam elException	Route	SRTE0002_MONITOR_RunExc eptionMail	Complete	Details
3024	29/08/2019 11:34:46	java.io.FileNotFoundException:C:\temp\Ta	Java Exception	Job	SJOB0006_UTILITY_MailExce ptions	Assigned	Update Details

Selecting the Details option calls the usual screen but the options at the base no longer include Update.

View KB Item | View Notes | Back to List

Configuration

The configuration menu lists the various system wide set up options within the framework. From the main menu click on the **Configuration** button.

ESB Maintenance Ho	ome About Contact			Hello blastrocker@hotmail.com!	Log off				
Configuration Menu									
0	DEV	TEST	PROD						
		General System Set Up							
Framework Master Process Early Life	Dev Framework Master Dev Process Early Life	Test Framework Master Test Process Early Life	Prod Framework Master Prod Process Early Life	ı					
		Alerting and Assignment Set Up)						
Alert Type Setup Alert Recipients Alerts Config	Dev Alert Type Dev Alert Recipients Dev Alerts	Test Alert Type Test Alert Recipients Test Alerts	Prod Alert Type Prod Alert Recipients Prod Alerts						
Assignment Operators	Dev Operators	Test Operators	Prod Operators						
Security									
Register New User Reset Password									
Back to Main Menu									
© 2019 - Steinhoff UK Ltd									

The menu is currently divided into 3 sections: General System Setup, Alerting and Assignment Setup and Security. Each section will be examined in turn.

General System Setup

Framework Master

The framework master stores the configurable parameters used by the framework to locate items. It's not something that is likely to change on a regular basis but the settings are explained for clarity.

ESB Maintenance H	ome About Contact	Hello blastrocker@hotmail.com!	Log off
View\Update Framework Master Cor	fig (Prod)		
ExceptionFolder	tbExceptionsPROD		
WarningFolder	WarningProd		
HostName	EVDCSTEMDB02		
HostiP	10.167.195.31		
KBIThreshold	-1		
(Threshold Values	0 Don't Send Unknown Exception E-Mails -1 Send Unknown Exception E-Mails)		
	Save		
Back to Menu			

Click on the Prod Framework Master option.

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Working through the fields on the screen.

Exception Folder

This is the name of the file system folder on the web server where the exception information is held for the environment. The screenshot below shows the folder in place on the server.

🕌 tbExcepti	ionsPROD	+	10.167.195.31			X
()-	🍌 🔹 Computer 🔹 Data (D:) 🔹 DBTableMaintenance 🔹 Views 👻 tbExceptionsPROD					👻 🔄 Search tbExceptionsPROD
Organize -	Open New folder					H • 🔳 🖗
	AuthError	Name *	Date modified	Type	Size	
	Config	Banka mar		1.000		
	DevSynchReportData	Addinoce.voncmi	23/07/2019 22:44	VBHTML HIE	2 KB	
	EnactorPermissions	Create.vbhtml	08/04/2019 21:05	VBHTML File	5 KB	
	EnactorPermissionsProd	Delete.vbhtml	23/07/2019 22:18	VBHTML File	3 KB	
	EnactorPermissionsTest	DeleteNote.vbhtml	23/07/2019 22:46	V8HTML File	2 KB	
	FrameworkMasterDev	Details.vbhtml	23/07/2019 22:23	VBHTML File	4 KB	
	FrameworkMasterProd	DetailsNote.vbhtml			2 KB	
	FrameworkMasterTest	Edit.vbhtml	23/07/2019 22:26	V8HTML File	3 KB	
	Gauge	EditNote.vbhtml	23/07/2019 22:51	VBHTML File	2 KB	
	Home	Index.vbhtml	29/08/2019 17:29	VBHTML File	3 KB	
	KnowledgeBaseDev	Update.vbhtml	23/07/2019 22:53	V8HTML File	4 KB	
	KnowledgeBaseProd	ViewNotes.vbhtml	23/07/2019 22:56	VBHTML File	1 KB	
	KnowledgeBaseTest					
	Maintenance					
	manage	1				
	Promitor .					
	OperatorDev					
	OperatorText					
	ProcessFailul ifeDev					
	ProcessEarly ifeProd					
	ProcessEarly ifeTest					
	ProdSynchReportData					
	Reporting					
	RTError					
	Shared					
	Synchro					
i i	TalendFolders					
i i	TalendQueueDev					
	tbAlerts					
	tbExceptions					
	tbExceptionsPROD					
	tbExceptionsTest					
	The state of the second s	1				
	DefailsNote-Vontmi State: Shared Date created: 23/0 VBHTML File Date modified: 02/09/2019 13:30 Shared with: All do Size: 1.15 KB	//2019/23:39 main users; svdEVDCSTEMDB02_SQL				
[] Start	3 2 😭 🔍 🖳 🏉 📼					* 😼 🐑 🕼 😼 16:11

The files that can be seen in the folder are view files that are templates for the browser content displayed by the application.

Warning Folder

Similar to previous item but showing the location for the view files used to generate the Warning screens.

Host Name

Machine name of the web server.

Host IP

IP Address of the web server

KBI Threshold

This refers to the sequence number of the KBI. These are system assigned positive integers except for the 'Unassigned Process' KBI that has a sequence of -1. This parameter indicates the threshold above which KBI's are used to route automatic assignment e-mails. If the threshold is set to -1 which is the unassigned value, then that will be included if it's set to zero then only user defined KBI's will be used. In normal use this value should be set to -1.

In the event of making any changes select **Save** to retain the settings.

Process Early Life

When a new process is deployed to the ESB runtime(s) there may be an initial period of settling down where it's being monitored closely by developers and the generation of fresh service tickets for teething errors is not required. The process early life option is designed to specify a period for a process during which alerts will not be raised. Exception will still be recorded as but no e-mail notification will be sent. Although termed process early life this option can be applied to a process at any time in the life cycle.

Click on the Prod Process Early Life option.

ESB Maintenance		About			Hello blastrocker@hotmail.com! I
Index Process Early Life (F Create New	Prod)				
ProcessKey			StartDate	EndDate	
Back to Menu					
© 2019 - Steinhoff UK Ltd					

Any early life records will be shown here. Click on the **Create New** option.

ESB Maintenance	ome About Contact	Hello blastrocker@hotmail.com!
Create Process Early Life (Pro	d)	
ProcessKey	SRTE0002_MONITOR_RunExceptionMail	~
StartDate	02-09-2019	
EndDate		
	Create	
Back to List		
© 2019 - Steinhoff UK Ltd		

Select the process from the list and enter a start date in the format "dd-mm-yyyy". An end date can optionally be entered to automatically close the period after that date. If an end date is not supplied the early life condition will remain in place indefinitely until it is either modified with an end date or deleted. Click Create to save the record and return to the list which will display the saved data and present the usual edit, details and delete options. Use these to maintain the record in the usual way.

ESB Maintenance Home	About Contact		Hello blastrocker@hotmail.com! Log off	
Index Process Early Life (Prod) Create New				
ProcessKey	StartDate	EndDate		
32	02/09/2019 00:00:00		Edit Details Delete	
Back to Menu				
© 2019 - Steinhoff UK Ltd				

Alerting and Assignment Setup

As with the framework master these alert setup configurations are unlikely to change on a regular basis but their function will be described for reference.

Alert Type Setup

The alert types refer to the classification of errors that the system can handle. The initial focus is on exceptions and warnings generated by the Talend ESB but the framework is designed to process other failure type and these may be incorporated at a later date.

Click on the **Prod Alert Type** option.

ESB Maintenand	Ce Home About Contact	Hello blastrocker@hotmail.com! Log off
	e (Prod)	
TypeName	TypeDescription	Classification
CountExists	Identifies where an error has occurred by looking for a non zero number in a column. Applicable to items such as file checking where a folder should be empty	Edit Details Delete
CountMissing	Looks for zero values in a specified column. Useful with items such as drive or queue status checks	Edit Details Delete
CountThreshold	Check if specified column value exceeds a nominated threshold. Useful for space monitoring etc.	Edit Details Delete
ExceptionFound	Raise alert based on items in the exceptions table.	Edit Details Delete
Back to Menu		

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This lists the current alert types of which we will currently focus solely on ExceptionFound.

The usual modification and deletion options are available for each record.

Alert Recipients

This is an option used for monitoring purposes to e-mail a list of exceptions that have recently arrived to defined recipients. An alert recipient in this case is analogous to a KBI operator.

Select the Prod Alert Recipients option.

Index			
Create New			
EMailAddress	Enabled	SubjectText	
john.tucker@steinhoffretail.co.uk	True 🗸	ExceptionFound	Edit Details Delete
blastrocker@hotmail.com	True \vee	ExceptionFound	Edit Details Delete
john.tucker@steinhoffretail.co.uk	True 🗸	Unknown ExceptionFound	Edit Details Delete
Back to Menu			

A list of the current recipients set up is presented showing the e-mail address, enabled status and the alert they are set up to receive. Multiple recipients can be set up for each alert.

To add a new recipient, click on the **Create New** option.

STEINHOFF ERROR FRAMEWORK

ESB Maintenance	Home About Contact	Hello blastrocker@hotmail.com! Log	off
Create tbAlertRecipient			
AlertiD EMailAddress	ExceptionFound	~	
Enabled	Not Set V		
Back to List			

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Select the Alert from the list. The next section on alerts config describes where this list comes from. Add the e-mail address (this is an entirely different list from the operators and is entered manually) and select the enabled status from the options. Click on **Create** to save the record.

The saved record will now appear in the list. When any exceptions of an alert type are received by the system an e-mail listing them will be sent to the defined recipients. No information about the exception is contained other than its id and very brief summary line of the message.

The recipients can be edited or deleted as required.

In practice this facility is little used, but the option is there if required.

Alerts Config

Another setup that is generally static but shown for reference. In this section alert templates of the types defined in the section before last are set up. The information is used by both the alerting and more importantly the assignment processes.

Click on the **Prod Alerts** option.

ES Al Crea	B Maintenance ert (Prod) ate New	Home About Contact				Hello blastrocker	@hotmail.com! Log
ID	SubjectText	MessageText	SelectID	SelectColumns	TableName	ColumnName	
2	Folder Missing	The following folder(s) appear to be missing from the file structure	FolderID	FolderName	[dbApplicationIntegratio n].[dbo].[tbFolder]	[FolderStatus]	Edit Details Delete
4	ExceptionFound	The following exception(s) have been raised in Talend	ExceptionSeq	ExceptionTitle,Process Name	[dbApplicationIntegratio n].[dbo]. [vExceptionsRaised]	[ExceptionTitle]	Edit Details Delete
4	Unknown ExceptionFound	The following unknown exception(s) have been raised in Talend	ExceptionSeq	ExceptionTitle,Process Name	[dbApplicationIntegratio n].[dbo]. [vExceptionsRaisedUnk nown]	[ExceptionTitle]	Edit Details Delete
Bac	k to Menu						
© 20)19 - Steinhoff UK Ltd						

ID

Focussing on the 2nd and 3rd lines these are both exceptions of type 4, 'ExceptionFound' as defined in the alert types section.

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Subject Text

The subject of e-mail message generated by an occurrence of this alert.

Message Text

The message body of an e-mail generated by an occurrence of this alert.

The remaining fields are data information fields that are picked up and used by dynamic SQL queries with SQL stored procedures. These procedures generate the test for the e-mails that are sent out when exceptions are automatically assigned.

Assignment Operators

The creation and maintenance of operators for the assignment process has already been covered in the section on KBI operators earlier in this document. Please refer back to it for further information.

Security

The framework uses standard asp security to generate and maintain users. The option to register a user and to request a password change have been moved from the start-up screen to the configuration menu where only registered users with admin access are allowed.

Register New User

Click on the Register New User link.

ESB Maintenance H	ome About	Contact	н
Register. Create a new account.			
Email			
Password			
Confirm password			
	Register		
Back to Menu			
© 2019 - Steinhoff UK Ltd			

The E Mail address also forms the user name for access to the framework. Enter and confirm the password and click **Register**. Provided the e-mail doesn't already exist and the password and confirmation match, the user will be created.

Reset Password

To reset a pass word, click on the **Reset Password** option.

ESB Maintenance H	ome About Contact	Hello blastrocker@hotmail.com!
Forgot your pa	assword?.	
Email		
	Email Link	
Back to Menu		
© 2019 - Steinhoff UK I td		

Enter the e mail for the user that needs to be changed and click on **Email Link**. The confirmation screen below will appear. Note that where it says to check your e-mail you will not receive anything unless you are changing your own password. The link is sent directly to the user.

ESB Maintenance Home About Contact	Hello blastrocker@hotmail.com! Lo	og off
Forgot Password Confirmation. Please check your email to reset your password.		
© 2019 - Steinhoff UK Ltd		

An e-mail similar the sample shown below will be sent to the users e-mail account containing a link for them to click on.

	Outlook	🔎 Search S 🔅
=	+ New message	5 Reply $ \vee$ in Delete \Box Archive \bigcirc Spam \vee \checkmark Sweep $$ Move to \vee \oslash Categorise \vee \cdots \land \checkmark \vee \times
\sim	Folders	Reset Password
	Inbox 13678	① Be careful. This message looks like a phishing scam. Learn more about phishing
\odot	Junk Email 47	ESBAlertProd <esbalertprod@steinhoffretail.co.uk> $5 \ll \rightarrow \cdots$</esbalertprod@steinhoffretail.co.uk>
Ø	Drafts 40	You V
⊳	Sent Items	Please reset your password by clicking <a href="<u>http://10.167.195.31/DBTableMaintenance/Account/ResetPassword?</u>
userId=53c06b73-4993-41dd-a37c-</td></tr><tr><td>(</td><td>Scheduled</td><td>db76b3e03699&code=NTMxxfh2TJEMVGsfEmPfkRlsLUUP2pGYETm7O6cnJqWbcZNNCtLpClZ1hORNxa%2BYS74PC2FcOhzhK5gWx
aOQ%2FNjF9ralWeociXwMpggE92iKJLo%2BCmQdaB9Q2200qWSuDclWFtrnOCPG3O5eaKZPw5eQCoL7xluwOUE7doClCEph6nac4</td></tr><tr><td>Ŵ</td><td>Deleted Items</td><td><u>gRt40RThXEePnft88tE4gjNNCUyUxi8XeSWQ%3D%3D">here
T	Archive	

On clicking the link, the reset password screen will be shown which is very similar to the register user screen and is completed the same way but by the user themselves rather than IT support.

ESB Maintenance H	ome About Contact	Hello blastrocker@hotmail.com!	Log off
Reset passwo Reset your password.	rd.		
Email			
Password			
Confirm password			
	Reset		

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Synchronisation

Another feature of the framework is a check of the full processing cycle to ensure that the data processed in the client system fully represents what was sent from the host. This is termed synchronisation.

It's only a suitable metric for systems that produce output in a 1:1 ratio with the host and currently has only been set up for some of the files transferring data from the product information manager (PIM) to the MasterOffice ERP.

Click on the **Synchronisation** button.

Although set up for all 3 environments this process relies on throughput of data so aside from testing only the production version gives meaningful results daily.

ESB Maint	ESB Maintenance Home About Contact Hello blastrocker@hotmail.com! Log of							
Index Create New	Index Create New							
Date	Туре	In Count	Failed	Elapsed (Sec)	Size (KB)	Rate (KB/Sec)		
20190902	Bensons MasterOffice Product	38	0	1.25	14.95	11.96	Details	
20190902	Bensons MasterOffice Package	1	0	1.07	50.00	46.73	Details	
20190831	Harveys MasterOffice Product	16	0	2.08	36.81	17.70	Details	
20190831	Harveys MasterOffice Package	1	0	0.02	4.00	200.00	Details	
20190830	Harveys MasterOffice Product	66	0	10.66	39.32	3.69	Details	
20190830	Harveys MasterOffice Model	3	0	-0.27	8.00	-29.63	Details	
20190830	Bensons MasterOffice Product	282	0	159.02	67.69	0.43	Details	
20190830	Bensons MasterOffice Package	79	0	385.83	549.92	1.43	Details	
Page 1 Of 3								

Select the File Synchronisation Report option for the PROD environment.

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A list of the data files in and a processing analysis is shown which includes a count of any failures. Only files that have been produced that day are added to the list as not every type of file is processed every day.

Selecting the details option on a row will show the full figures behind it.

STEINHOFF ERROR FRAMEWORK

ESB Maintenance Home About Conta

Details

tbProcessedFilesReportData

Date	20190902
Description	Bensons MasterOffice Product
InputCount	38
ProcessedCount	38
OutputCount	38
FailedCount	0
AvgElapsedTime	1.25
MaxElapsedTime	3.45
MinElapsedTime	-0.12
AvgProcessTime	0.10
MaxProcessTime	3.22
MinProcessTime	-0.31
AverageFileSize	14.95
MaxFileSize	77.00
AverageElapsedRate	11.96
AverageProcessRate	152.85

Back to List

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Maintenance

The maintenance menu allows tables used by systems that interact with the ESB to be maintained in a single place.

Click on the **Maintenance** button in the main menu.

ESB Maintenance Ho	ome About	Contact		
Maintenance N	Menu			
		DEV	TEST	PROD
			Enactor Tables	
Enactor User Permissions	Dev l	Jser Permissions	Test User Permissions	Prod User Permissions
Back to Main Menu				
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Currently only the Enactor User Permissions table is managed from here but other will be added including the files sequence number maintenance for the Enactor imports that currently sit in their own application.

ESB Maintenance Home	About Contact	Hello blastrocker@hotmail.com!	Log of
Index Create New			
sJobReference	sPermissionProfile		
ASMAN	POS_MANAGER	Edit Details Delete	
SALEF	POS_OPERATOR	Edit Details Delete	
SENSA	POS_OPERATOR	Edit Details Delete	
STORM	POS_MANAGER	Edit Details Delete	
ADMIN	POS_OPERATOR	Edit Details Delete	
ADMSTR	POS_OPERATOR	Edit Details Delete	
DESMA	POS_MANAGER	Edit Details Delete	
MOBSAL	POS_OPERATOR	Edit Details Delete	
XTEMP	POS_OPERATOR	Edit Details Delete	
Back to Menu			
© 2019 - Steinhoff UK I td			

Select the Prod User Permissions option.

o zono "otomion ortzta

A screen displaying the records in the user permissions table that forms part of the Enactor user interface is shown. These can be edited, displayed or deleted via the usual options on each record.

Any new table added to this area will be maintained in a similar way.