# **Exception Reporting Using f4b**

Section1 of these notes apply to all users however you will need at least an Administrators Licence to access the setup features in Section2.

## Section1(All Users)

#### Purpose

- Exception reporting in f4b provides targeted reporting, optionally via emails that points users at specific issues that need attention.
- The reports are produced via the scheduler and are only populated/emailed when there are issues to be addressed.
- Minimalizing the quantity of reports produced and only producing summary information ensures that users are not swamped with lots of potentially confidential data.
- Viewing the reports via f4b enables the tools, forms and activities available to resolve issues to be launched directly from the exception report.

#### **Using Exception Reports**

f4b applications provide access to relevant exception reports via activities available from the navigation section of the File Menu Fig1

EVALUATION LICENCE: frontend4business (M	ultiStat (c) I	Multifreight 2013, MultiStoo	ck (c) AHS 2014)	\User = t	om\Form :	= SupplyC	ChainC(20 o	f Many)\F	age = 1	140 3			- 0 ×
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	Su	pply Chain -	M6 NUT F	0	0	0	PCS	P 1602	MF16038				Eltered Stock to Movement Basket
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Home Activity	TBA	AAFM0 P160201-2	M6 WASH	0	0	0	PCS	P1602	MF16038				Heiresh Supply Chain
Evenet Data	TBA	AAFM0 P160268-1	CABLE TI	0	0	0	PCS	P1602	MF16048				De Allocate Despatch Line
	TBA	AAFM0 P159813-14	M5 PLAIN	0	0	0	PCS	_					Clear my Baskets
Delete	TBA	AAFM0 CABLES 5	CABLES 5	0	0	0	PCS	PO N	PROJECT 1				Stock Out Report
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	TBA	AAFL02 P158470-2	EARTH S	1	0	0	PCS	P1584	MF16042		10/03/2017		
1\ SupplyChain(280/1)	TBA	AAFL02 P158470-6	carriageUs	1	0	0	PCS	P1584	MF16042		10/03/2017		
2\ SupplyChain FULL(27968)	TBA	CASC01		0	0	0	42' HC C			KKTU7896547			
3\ SupplyChain In Basket(27980)	TBA	CASC01		0	0	0	42' HC C			KKTU7896547			
4\ SupplyChain In Bond(28073)	TBA	AAFL02 P158713-1	7BECP84	2	0	0	PCS	P1587	MF16030				
5\ SupplyChain No Product Code(27979)	TBA	AAFL02 P158713-2	Doc Pack	1	0	0	PCS	P1587	MF16030				
Expected J00120663/1/1 TRAN01	TBA	AAFL02 P158713-1	7BECP84	2	0	0	PCS	P1587	MF16030				
Expected J00120663/1/2 TRAN01	TBA	AAFL02 P158713-2	Doc Pack	1	0	0	PCS	P1587	MF16030				
Expected J00120669/1/1 TRAN56	TBA	AMER02 2196998211	HYDROC	396	0	0	CTNS						
Expected J00120670/1/1 TRAN56	TBA	AMER02 2196998211	HYDROC	396	0	0	CTNS						

Fig1 Accessing application Exception reports

Opening the activity provides access to the Exceptions report Fig2.

The report produced could have a mixture of issues to be addressed. For example there may be 12 warehouse deliveries due today and you only have capacity to deal with 10 per day.

10 O.L.					1		
QueryNo	Name	Tab Name	Message	Exception Date	MaxCount	MinCount	ActualCou
27979	MultiStock	SupplyChain No Product Code	Supply chain products with no customer product code	16/01/2019 12:21	0	0	
28103	MultiStock	OverAllocated WHS Locators	Over allocated WHS Locators detected in [StockMovements].	16/01/2019 12:21	0	0	
28105	MultiStock	DuplicatedReceiptLocators	Duplicated Receipt Locators detected, Each Receipt to a location should have a unique [WHS Locator]	16/01/2019 12:21	0	0	
28170	MultiStock	Zero Onty per Pack etc	Product with zero in [Onty per Pack] or [Packs per Outer]	16/01/2019 12:22	0	0	

Fig2 This report is showing data cleaning issues that have been identified for attention but could show more. It is worth checking the favourites at the bottom of the File menu to see if you have access to other Exception reports

Selecting a line then using the Options in the Actions menu will launch the view(s) required to resolve the issue Fig3.

Exception         Supply-Dain No Product Code         Land	Normer Type       WH Code       Customer Code       Mode Namber       Job H       Haulageline       Cargoline       Baskett       Product       WH code       Actor       Act		
Novement Type     WH Code     Cutoment Code     Number     Sold     And agaline     Cargoline     Basket     Poduct     Poduct     Poduct     Number     Number     Available     Available     Available       Novement Type     WH Code     Cutoment Code     Nomber     Stok     No     No     No     Alocat     Alo	Image: Second Decision         Image: Decision         Ima		
Movement Type       WH Code       Cutome Code       Job Number       Job did       Hadaga Line       Cargo Line       Basket User       Product Code       Product Desc       Product Desc       WH Code       WHS Sock       Allocat       Allocat       Allocat       Allocat       Availability         In Stock       1761/20       5704/200       5704/200       100       0.0 <t< th=""><th>Mevement Type         WH Code         Cutatomer Code         Job Number         job id         HaulageLine         CargoLine         Basket Litter         Product Code         Product Dec/ Dec/ TRAN004         WH Code         Actor         More Mark         Area         Available         France           In Stock         1044004         \$1004001         \$Xx0004         \$10010000         \$10010000         \$100100000         \$100100000         \$100100000         \$100100000         \$1002000         \$1001000000         \$1002000000000000         \$10010000000         \$10020000000000000000000000000000000000</th><th></th></t<>	Mevement Type         WH Code         Cutatomer Code         Job Number         job id         HaulageLine         CargoLine         Basket Litter         Product Code         Product Dec/ Dec/ TRAN004         WH Code         Actor         More Mark         Area         Available         France           In Stock         1044004         \$1004001         \$Xx0004         \$10010000         \$10010000         \$100100000         \$100100000         \$100100000         \$100100000         \$1002000         \$1001000000         \$1002000000000000         \$10010000000         \$10020000000000000000000000000000000000		
Movement Type     WH Code     Cutotine     John     John     Hadagaline     Backet     Product     Product     Module     WH Loc     Miles     Allost     Allost     Allost     Analy       In Stock     1761/20     176	Movement Type         WH Code         Caddee         Market         Poduct         Product         Product         Product         Multice	1	
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Fig3 The tab view/form required to resolve the selected issue, returning to the Exceptions report and repeating this process adds further tab views to the activity

Exception reports can be generated and automatically sent as emails to relevant parties prompting the recipients to take the necessary actions Fig4

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		Exceptions / Sheet1 / Sheet2	/ Sheet3 /						
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Fig4 Sample of what Exceptions report recipients receive via email

As issues are resolved the scheduled task that produces the report will remove resolved issues until no issues remain and no report is produced or emailed.

### Section2(Admin Users) Setting Up Exception Reports.

### Overview

Exception reporting comes down to record counting or more generally creating Views that produce/display the records requiring attention and setting limits as to when they trigger the exception, notes elsewhere in the documentation describe how to create new views.

Open the Exception Reporting activity from the Administrators Menu Fig5

Defeult	<new></new>					
Developers	Exceptions Reporting					
Managers	User Setup					
MultiStat	WorkSpace	lessage	Exception Date	MaxCount N	MinCount	ActualCount
MultiStat No Financial	<ul> <li>plyChain No Product Code</li> </ul>	Supply chain products with no customer product code	17/01/2019 10:13	0	0	
MultiStock	<ul> <li>erAllocated WHS Locators</li> </ul>	Over allocated WHS Locators detected in [Stock/Movements].	17/01/2019 10:15	0	0	454
SCS Admin	<ul> <li>plicatedReceiptLocators</li> </ul>	Duplicated Receipt Locators detected, Each Receipt to a location should have a unique [WHS Locator]	17/01/2019 10:15	0	0	
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Fig5 Accessing Exception Reporting setup

The 2<sup>nd</sup> tab provides an action to add a new Exception for your view. Fig6

le Edit	View F	ilter Tools	Actions Help Create Views Validate Views Validate Views Open View	MultiStock (c) AH	3 2014)\User = dennis\	<ul> <li>Edit ¥ 2</li> </ul>	5(20 of Many),Page		Σ			_ U _ ^
			Clear Users Views									
Qu	ueryNo ⊽	UserName	Developers Views to Default			FORM	DBNAME	PrimaryKey	UpdateTableName	LockedFields	GridColumnWidths	DefaultValue
	28170	MultiStock	Create a view for selected Que	v	tetc	Chargeable Stock	MULTIFRT	[WHSKU]	DBO.[WHStock]	•	59,79,99,111,85,	
	28169	SYSTEM	Drop the view for selected Que	v		SYSTEM	AHSUSER	[QueryNo]	dbo.[Exceptions]	[QueryNo],[DBNa	51,80,73,100,16	
	28168	Developers	Setup Update Tables	,		Diary	AHSUSER	[INTID]	PUB.[REPORTCACHE]	•	100,100,100,100	
	28166	MultiStat	Validate AnyRecordsin type Business Rules		ites	Exceptions	MULTIFRT		DBO.[PageCache]	•	100,100,100,100	
	28165	MultiStat	Compare Deployed Vrs Origina		tates	Exceptions	MULTIFRT		DBO.[PageCache]	•	100,100,100,100	
	28164	Administrators	Add exception for setected view	,	8	Exception Reports	AHSUSER	[QueryNo]	DBO.[ExceptionReports]	•	74,92,193,599,1	MultiStat
	28163	MultiStock			ons	Exception Reports	AHSUSER	[QueryNo]	DBO.[ExceptionReports]	•	74,92,193,599,1	[MultiStock]]]
	28162	SYSTEM	ActionQueryEDIT	ActionQueryEDIT		SYSTEM	AHSUSER	[ID]	DBO ActionQueries	[ID]	44,100,176,192,	
	28161	MultiStat	MultiStat	MStat Quotes Upd	ates	Exceptions	MULTIFRT		DBO.[PageCache]	•	100,100,100,100	
	28160	MultiStat	MultiStat	MStat SCS Job Up	dates	Exceptions	MULTIFRT		DBO.[PageCache]	•	100,100,100,100	
	28154	Default	ExceptionReports	Exceptions Report	3	Exception Reports	AHSUSER	[QueryNo]	DBO.[ExceptionReports]	-	74,92,193,599,1	
	28153	SYSTEM	ExceptionReports	Exception Reports		SYSTEM	AHSUSER		dbo.[Exceptions]		74,75,60,100,14	
	28152	Administrators	ExceptionsSetup	Exceptions Setup		ExceptionsSetup	AHSUSER	[ID]	DBO.[Exceptions]	[UserName],[Tab	57,102,79,159,1	1
	28151	SYSTEM	Exceptions	Exceptions		SYSTEM	AHSUSER		dbo.User_Queries		74,100,110,204,	
	28150	Developers	Jobs SCS	Jobs Test		jobjobhdr	MULTIFRT	[job-id]	DBO.[SCS JobsCACHE]	+	84,75,75,81,54,5	2017
	28142	Developers	AllocatedDespatches	AllocatedDespatch	es	SupplyChainC	MULTIFRT	[DespJobID]	DBO.[SupplyChainCACH	•	100,100,100,100	
	28141	SYSTEM	AllocatedDespatches	AllocatedDespatch	es	SYSTEM	MULTIFRT	[SROWID]	DBO.[SupplyChainCACH	•	65,93,67,47,53,1	
	28139	Administrators	Catalog Connections	Catalog Connection	ns	Connection Strings	AHSUSER	[ID]	DBO ActionQueries	[ID]	44,100,176,192,	ConnectionS
	28135	Managers	User Activities	User Activities Site		ManagerUser_Acti	AHSUSER	[ID]	DBO.[User_ActivitiesEDIT]	[ID],[DBName],[Q	85,83,100,51,82,	>=1000000
	28134	Developers	Addresses and SYSLIB	Addresses and SY	SLIB	EmailAddresses	MULTIFRT	[address code]	DBO.[SYSLIBnMFAddre	-	86,100,88,88,10	

Fig6 Having created your view select it and add an exception for it.

Your new exception will have been added to the Exception Setup Tab, double clicking on the exception will allow you to edit the record Fig7.

s Setup User Vi	ews   Excep	otions Reports	1					
ID	V Query!	lo Exception Name	User	Name	TabName	DBNAME	Message	
	11 281	70 <exception name<="" td=""><td>e Needed&gt; MultiS</td><td>Stock</td><td>Zero Qnty per Pack etc</td><td>MULTIFRT</td><td><please enter="" exception="" is="" message="" required="" the="" this="" violated="" when=""></please></td><td></td></exception>	e Needed> MultiS	Stock	Zero Qnty per Pack etc	MULTIFRT	<please enter="" exception="" is="" message="" required="" the="" this="" violated="" when=""></please>	
	10 281	60 MultiStat	MultiS	Stat	MStat SCS Job Updates	MULTIFRT	Daily update is seeing a great many SCS Jobs [REPORTCACHE] updates, have a look	at MultiFreight DBO.[PageCach
	9 2	ExceptionsSetur	0	-	Name and Address of the Owner, where the			Nook at MultiFreight DBO.[Pa
	8 2	10		-	Statement in the local division of the local	Contraction of the local division of the loc		ultiFreight DBO.[PageCache]
	7 2	ID	1	1				MultiFreight DBO.[PageCache]
	6 2	QueryNo	28170					Controlled by MultiFreight,
	2 4 C	Exception Name	Exception Name	Needed>	-			DA/LIC Langebral
-	4 4	UserName	Int. Action and					Inversible cocatory
	2 2		Mulastock					-
0		TabName	Zero Qnty per Paci	k etc				
		DBNAME	MULTIFRT					
		Message	<please enter="" td="" the<=""><td>message re</td><td>quired when this exception is vi</td><td>olated&gt;</td><td></td><td></td></please>	message re	quired when this exception is vi	olated>		
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		SQL	SELECT [WHSKU [StorageRateID].[C [AllocMethod].[Sup [Packages Per Out	I],[Custome Cube],[Han oplier Code ter]=0 Of	r Code].[Product Code].[Descrip ding].[Inspection].[Default Local [.[Customs Code].[Dept].[Track I RDER BY [Packages Per Outer]	tion],[Package Type ion],[Bonded],[Haza oy Serial Number],[Ke	I[ONTY Per Package][Otter Package Type][Packages Per Outer][Value per], rdous][L][W][H][VAT Code][Orange Type][MR Stock][Reoder Quantity] eep Unique Lots] FROM DBO.[WHStock] WHERE [QNTY Per Package]=0 OR *	
							New Delete Copy Save Cancel	

Fig7 Editing your exception

Creating a set of records with the same 'Exception Name' will result in all of them being evaluated when the report is populated, you can test it from here as shown in Fig8

Setup Us	ser Views   Exception	Open Vi	ew ,					
QueryNo	Exception	UserName	TabName	DBNAME	Message	Min	Max	SQL
28160	MultiStat	MultiStat	MStat SCS Job Updates	MULTIFRT	Daily update is seeing a great many SCS Jobs [REPORTCACHE] updates, have a look at MultiFreight DBO.[PageCach		0	2000 SELE
28166	Multi Stat	MultiStat	MStat POrder Updates	MULTIFRT	Daily update is seeing a great many Purchase Orders [REPORTCACHE] updates, have a look at MultiFreight DBO.[Pa		0	2000 SELE
28170	MultiStock	MultiStock	Zero Qrity per Pack etc	MULTIFRT	THIS IS YOUR NEW EXCEPTION		0	0 SELE
28161	MultiStock	MultiStat	MStat Quotes Updates	MULTIFRT	Daily update is seeing a great many Quotes [REPORTCACHE] updates, have a look at MultiFreight DBO.[PageCache]		0 3	2000 SELE
28165	MultiStock	MultiStat	MStat Haulage Updates	MULTIFRT	Daily update is seeing a great many Haulage [REPORTCACHE] updates, have a look at MultiFreight DBO.[PageCache]	0	0	2000 SELE
28109	MultiStock	Administrators	Duplicted RecConts	MULTIFRT	Duplicated [RecCont] records detected, this will result in failure to update HaulageCache, Controlled by MultiFreight,		0	0 SELE
28108	MultiStock	Administrators	MF Stock Pick Users	MULTIFRT	More Users of Stock pick function suspected, ie more users than MultiStock Licences.		0	0 SELE
28105	MultiStock	Administrators	Duplicated Receipt Locators	MULTIFRT	Duplicated Receipt Locators detected, Each Receipt to a location should have a unique [WHS Locator]		0	0 SELE
28103	MultiStock	Administrators	OverAllocated WHS Locators	MULTIFRT	Over allocated WHS Locators detected in [StockMovements].		0	0 SELE
27979	MultiStock	ALL	SupplyChain No Product Code	MULTIFRT	Supply chain products with no customer product code		0	0 SELE

Fig8 Testing your Exception Report

The result of running the report is available on the Exception Reports tab Fig9. Filter for

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	Tools Act	tions Help					
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ins Setup   User Views	Exception	s Reports	Get Route				
	M. M.Charde						-
	=MultiStock				ļ. 1		
QueryNo	Exception Name	Tab Name	A Message	Exception Date	MaxCount	MinCount	Actual
28105	MultiStock	Duplicated Receipt Locators	Duplicated Receipt Locators detected, Each Receipt to a location should have a unique [WHS Locator]	17/01/2019 11:31	0	0	
28103	MultiStock	OverAllocated WHS Locators	Over allocated WHS Locators detected in [StockMovements].	17/01/2019 11:31	0	0	
27979	MultiStock	SupplyChain No Product Code	Supply chain products with no customer product code	17/01/2019 11:29	0	0	
	MultiStock						

Fig9 Effect of running this particular report. By default the result of all failing exceptions is displayed on this tab hence filter.

(Note the result of this particular run would also be available to Basic users of MultiStock exceptions as per Fig2)

If you are creating a new report you should save a view of it remembering to decide which users or groups will have access to it Fig10(At the current time it is required that the filter here results in the WHERE clause shown on the save filter as view form has a simple [Exception Name] = `<exception name>)

	A Save Filter as Liser View	×
QueryNo Exception Name	Format Dialect Remove Actions	MinCou
28105 NEW EXCEPTIONS	Cond/B Debug	
28103 NEW EXCEPTIONS		
27979 NEW EXCEPTIONS	S Details SQL Heids XML	1
28170 NEW EXCEPTIONS	Owner UpdateTable DBO.[ExceptionReports]	
	Form Concurrent/MultiStock	
	Edit Mode Developers	
	Managers Mobie	
	MultiStat MultiStat No Financial	
	Save Uptions MultiStock	
	Save To User Queries	
	Description	
	-1	Clear B T F
	Where [Exception Name] = 'NEW EXCEPTIONS'	
		Current on December 2

Fig10 Saving a new exception report

To schedule the running and emailing of your exception report use the email button on the tool bar, select Scheduled, SpreadSheet and how often you want it to run Fig11

QueryNo	Exception Name		Exception Date	MaxCount	MinCount
	28105 NEW EXCEPTIONS	WHS Locator]	17/01/2019 11:31	0	0
	28103 NEW EXCEPTIONS	Address List 14b Email List 🔽 🔽 Email whole list 🗌 Individual Emails 🔽 Schedule	17/01/2019 11:31	0	0
	27979 NEW EXCEPTIONS	Erron Dennis@Multifreight.com	17/01/2019 11:29	0	0
	28170 NEW EXCEPTIONS		17/01/2019 11:34	0	0
		ill@Multfreight.com			
		Subject Our Warehouse too husy to deal with all these receipts despatches and moves today			
		Message Co. 1			
		Sony			
		Attachmente			
		Use Template			
		Schedule Details			
		Next Run   29/09/2014 09:00:00 + Periods 1 DAYS - Suspend			
		Cancel Save			

Fig11 Scheduling the emailing of an Expectations report.

Remember the email will only go out if there are failing exceptions.