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

Default				1 🐮 🖃 🛤			Cure				<u> </u>			
MultiStat +	Receipt B	asket Move	Basket Allocati	on Basket Despa	itch Baske	t								
MultiStock	C	harges												
Reports +	N	ovement Ar	alysis		1				1			1		Action
Clear Filter	N	ultiFreight J	obs	Product Desc	pieces	Allocated	Available	Package Type	off	Comments	Container Number	Date	Basket User	Expected to Receipt Basket
Refresh Data	N	ultiStock Ex	eptions	CABLES 4	-10	0	10	PIECES	ref P1407		Hamber		dennis	Filtered Expected Receipts to Basket
Close Tab	S	tup		M6 NUT F	-10			PIECES	P 1407	MF16038			dennis	In Stock to Movement Basket
	S	pply Chain		M6 NUT F	0	0		PCS	P 1602	MF16038				Filtered Stock to Movement Basket
Save Filter As User View	W	arehouse Ar	alysis	M 10 x 25 M6 NUT F	0	0		PCS		MF16038 MF16038				Unallocated to Allocation Basket
Save Activity As	TBA	AAFM0.	P160201-1	M6 X 30m	0	0		PCS	P1602	MF16038			_	Allocated Despatch to Basket
Hotel/Last Activity	TBA	AAFMO	P160201-2	M6 WASH	0	0		PCS	P1602	MF16038				Refresh Supply Chain
Home Activity	TBA	AAFMO.	P160268-1	CABLE TI	0	0		PCS	P1602	MF16048				De Allocate Despatch Line
Export Data	TBA	AAFM0.	P159813-14	M5 PLAIN	0	0		PCS						Clear my Baskets
	TBA	AAFM0	CABLES 5	CABLES 5	0	0		PCS	PO N	PROJECT 1				Stock Out Report
Delete	TBA	AAFM0.	CABLES 5	CABLES 5	0	0		PCS	PO N	PROJECT 1				Stock Out Neport
Exit	TBA	AAFL02	P158470-2	EARTH S	1	0		PCS	P1584	MF16042		10/03/2017		
1\ SupplyChain(28071)	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						
Expedited Provide and the week	TBA	AMEDOO	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.

QueryNo	Exception Name	Tab Name	Message	Exception Date	MaxCount	MinCount	ActualCount
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	
	MultiStock	Duplicated Receipt Locators	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 [Qnty 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.

	Movement Type	WH Code	Customer Code	Job Number	job-id	HaulageLine	CargoLine	Basket User	Product Code	Product Desc	WHLoca In Stock	WHS Locator	Allocat	Area	Available	Action Expected to Receipt Basket
	In Stock	TRAN004	STOR001	UnKnown	0	0				GT60 28	8 SHED	1 17229	0	0.00		Filtered Expected Receipts to Baske
-	Unallocated Des	TRAN01			0						TBA	0 TBA	0			In Stock to Movement Basket
	Expected Receipt	TRAN01			122367						TBA	0 TBA	0			Filtered Stock to Movement Baskel
	Expected Recept	TRAN01			122368						TBA	0 TBA	0			Unallocated to Allocation Basket
															1	Allocated Despatch to Basket
																Refresh Supply Chain
																De Allocate Despatch Line
																Clear my Baskets
																Stock Out Report

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

Inbox - Microsoft Outlook	southern build	Statings III, Ballins	or left Holding . manifest	a - Constant No. of Street,	Page + L				- 0 %
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Mail		Look for:	- Search	h In - Inbox		Find Now Clear			Options • ×
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Gainbox Gaine For Follow Up Gaine Sent Items		! D g From	Subject	Re	eceived $ abla$	Sent	S Y _ ((IultiStock Exc Group Mailing	By:
All Mail Folders		Date: Today Opennis@Multifreight.com	MultiStock Exceptions (Group Mailin	na By:-frontend4business Th	nu 17/01/2019 10:20	Thu 17/01/2019 10:20		ennis@Multifre RDHyatt@BTInter	
Personal Folders		Sarah O'Connell	EORWARDER manazine and Ereich		17/01/2019 09:19	Thu 17/01/2019 09:13	4 22		ItiStock Exceptions
Deleted Items (62	2) MultiStock	Exceptions (Group Mailing By:-fr	ontend4business frontend4busine	ess EVALUATION SYSTEM) - I	Message (HTML)				
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Gillia Outbox		ennis@Multifreight.com DHyatt@BTInternet.com					Sen	t: Thu 17/01/2019 1	0:20
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	3 28103 MultiStoc 4 28105 MultiStoc			Locators detected in [Sto locators detected, Each R		should have a unique	17/01/2019 10:15		0 4
cucitu	5	Exceptions / Sheet1 / Sheet	1. 10 March						1 1
a Contacts	Ready	CALEPHONS A Sheet A Sheet	Z A Directo /			1.			
🏹 Tasks									
12120 Items									•

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

Administrators	<new></new>					
Default	 Exceptions Reporting 			_	_	
Developers	Health Check					
Managers MultiStat	User Setup WorkSpace	lessage	Exception Date	MaxCount	MinCount	ActualCount
MultiStat No Financial	plyChain No Product Code	Supply chain products with no customer product code	17/01/2019 10:13	0	0	4
MultiStock	Allocated WHS Locators	Over allocated WHS Locators detected in [StockMovements].	17/01/2019 10:15	0	0	4548
SCS Admin	 blicatedReceiptLocators 	Duplicated Receipt Locators detected, Each Receipt to a location should have a unique [WHS Locator]	17/01/2019 10:15	0	0	4
Close Tab						
Clear Filter Refresh Data						
Save Filter As User View Save Activity As						
Save Filter As User View	-					
Save Filter As User View Save Activity As Hotel/Last Activity						
Save Filter As User View Save Activity As Hotel/Last Activity Home Activity))					
Save Filter As User View Save Activity As Hotel/Last Activity Home Activity Export Data	• •					
Save Filter As User View Save Activity As Hotel/Last Activity Home Activity Export Data Import Data	• • •					
Save Filter As User View Save Activity As Hotel/Last Activity Home Activity Export Data Import Data Query Type	• • •					
Save Filter As User View Save Activity As Hotel/Last Activity Home Activity Export Data Import Data Query Type Delete						

Fig5 Accessing Exception Reporting setup

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

eptions	Setup User	Views Exception	Create Views Validate Primary Keys Validate Views		9 🙀 🛃 🤫 🔘 ·	+ Edit X 2			Σ			
			Open View									
	0	UserName	Clear Users Views			FORM	DBNAME	PrimaryKey	Update Table Name	LockedFields	GridColumnWidths	Defendation
-		MultiStock	Developers Views to Default		etc	ChargeableStock	MULTIFRT	[WHSKU]	DBO.[WHStock]	-	59,79,99,111,85,	
		SYSTEM	Create a view for selected Que	у		SYSTEM	AHSUSER	[QueryNo]	dbo.[Exceptions]	[QueryNo],[DBNa	51.80.73.100.16	
		Developers	Drop the view for selected Que	у		Diary	AHSUSER	[INTID]	PUB.[REPORTCACHE]	*	100,100,100,100	
		MultiStat	Setup Update Tables		ites	Exceptions	MULTIFRT	[intrib]	DBO.[PageCache]	•	100,100,100,100,100	
		MultiStat	Validate AnyRecordsin type Bus	iness Rules	ates	Exceptions	MULTIFRT		DBO.[PageCache]	*	100,100,100,100,100	
		Administrators	Compare Deployed Vrs Original		ales	ExceptionReports	AHSUSER	[QueryNo]	DBO.[ExceptionReports]	•	74.92.193.599.1	MultiStatili
		MultiStock	Add exception for setected view	(5	Exception Reports	AHSUSER	[QueryNo]	DBO.[ExceptionReports]		74,92,193,599,1	MultiStatili
		SYSTEM	ActionQueryEDIT	ActionQuervEDIT	ans	SYSTEM	AHSUSER	[Uueryivo]	DBO.[ExceptionReports]	[ID]	44.100.176.192	[MultiStock]]
		MultiStat	MultiStat		Later -		MULTIFRT	נוטן	DBO.[PageCache]	[ID] •	44,100,176,192,	
				MStat Quotes Upo		Exceptions		-				
		MultiStat	MultiStat	MStat SCS Job Up		Exceptions	MULTIFRT		DBO.[PageCache]	-	100,100,100,100	
		Default	ExceptionReports	Exceptions Report	3	ExceptionReports	AHSUSER	[QueryNo]	DBO.[ExceptionReports]	-	74,92,193,599,1	
		SYSTEM	ExceptionReports	Exception Reports		SYSTEM	AHSUSER		dbo.[Exceptions]		74,75,60,100,14	
		Administrators	ExceptionsSetup	Exceptions Setup		ExceptionsSetup	AHSUSER	[ID]	DBO.[Exceptions]	[UserName],[Tab	57,102,79,159,1	1
		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	nes	SupplyChainC	MULTIFRT	[DespJobID]	DBO.[SupplyChainCACH	•	100,100,100,100	
	28141	SYSTEM	AllocatedDespatches	AllocatedDespatcl	nes	SYSTEM	MULTIFRT	[SROWID]	DBO.[SupplyChainCACH	•	65,93,67,47,53,1	
	28139	Administrators	Catalog Connections	Catalog Connectio	ns	Connection Strings	AHSUSER	[ID]	DBO.ActionQueries	[ID]	44,100,176,192,	Connection
		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.

)	View Setup Us		Q	. 3	Not		64		ła 🍓	a 🕸 🐮 🖃 📬 🖬 🧐	🕽 🌒 🔸 🛛 Edit	× 20 ∢ ∢ ▶ ⊨ jiŭ [3] Σ		
	D	_	10.00		peption Na			UserN		TabName	DBNAME	Message		
		11			ception N	lame N	eeded>	MultiSte MultiSte		Zero Onty per Pack etc	MULTIFRT	<please enter="" exception="" is="" message="" required="" td="" the="" this="" violate<="" when=""><td></td><td></td></please>		
		10	2816	0 Mu	ti Stat	_		MultiSta	t	MStat SCS Job Updates	MULTIFRT	Daily update is seeing a great many SCS Jobs [REPORTCACHE]		
		8	2 8	6 Exc	eptionsS	etup								ultiFreight DBO.[PageCache]
		7	2	ID		Г		11						MultiFreight DBO.[PageCache]
		6	2	Quer	No	Г	2817	5						Controlled by MultiFreight,
		5	2		tion Nam				-	_				
		4	2					n Name N	eded>					[WHS Locator]
_		3	2	Userl	lame	0	Aulti Stock							-
		2	2	TabN	ame	Z	ero Qnty	per Pack	etc	_				
				DBN/	ME	N	ULTIFF	T	1					
				Mess	age	L	Please e	nter the m	ssage r	equired when this exception i	s violated>			
				Min C	ount			0						
				Max (ount	I.		0						
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												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

ons Setup U	ser Views Exception	Onen Vi	e Selected Exception Name Rep ew	port 🔄 📜	20 19 0 + Edit X 20 4 4 > > 20 Ω Σ			
QueryNo	Exception _	UserName	TabName	DBNAME	Message	Min Count	Max Count	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	(2000	SELECT
28166	MultiStat	MultiStat	MStat POrder Updates	MULTIFRT	Daily update is seeing a great many Purchase Orders [REPORTCACHE] updates, have a look at MultiFreight DBO.[Pa	(2000	SELECT
	MultiStock	MultiStock						
28161	MultiStock	MultiStat	MStat Quotes Updates	MULTIFRT	Daily update is seeing a great many Quotes [REPORTCACHE] updates, have a look at MultiFreight DBO.[PageCache]	(2000	SELECT
28165	MultiStock	MultiStat	MStat Haulage Updates	MULTIFRT	Daily update is seeing a great many Haulage [REPORTCACHE] updates, have a look at MultiFreight DBO.[PageCache]	(2000	SELECT
28109	MultiStock	Administrators	Duplicted RecConts	MULTIFRT	Duplicated [RecCont] records detected, this will result in failure to update HaulageCache, Controlled by MultiFreight,	(0 0	SELECT
28108	MultiStock	Administrators	MF Stock Pick Users	MULTIFRT	More Users of Stock pick function suspected, ie more users than MultiStock Licences.	() 0	SELECT
28105	MultiStock	Administrators	DuplicatedReceiptLocators	MULTIFRT	Duplicated Receipt Locators detected, Each Receipt to a location should have a unique [WHS Locator]	(0 0	SELECT
28103	MultiStock	Administrators	OverAllocated WHS Locators	MULTIFRT	Over allocated WHS Locators detected in [StockMovements].	(0 0	SELECT
27979	MultiStock	ALL	SupplyChain No Product Code	MULTIFRT	Supply chain products with no customer product code	(0 0	SELECT

Fig8 Testing your Exception Report

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

a porop 00	er Views	Exception	s Reports	Get Route				
		=MultiStock						
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>)

=NEW EXCEPTIONS	(d) from Edward Hand Hand	
QueryNo Exception Name	Ab Save Filter as User View	MinCou
28105 NEW EXCEPTIONS	Format Dialect Remove Actions	
28103 NEW EXCEPTIONS	CopyVB Debug	
27979 NEW EXCEPTIONS	S Details SQL Fields XML	
28170 NEW EXCEPTIONS	Owner UpdateTable DBO.[ExceptionReports]	
	Form Concurrent MultiStock	
	Development	
	Managers L	
	Action Type MultiStat	
	Save Options MultiStat No Financial	
	Save To User Queries	
	Description	
	-1	Clear B T F
	Where [Exception Name] = 'NEW EXCEPTIONS'	
	milere [Exception name] - NEW EXCER TIONS	
	Save Duration Test View Name	ExceptionReports

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	A EMail	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	From Dennis@Multifreight.com	17/01/2019 11:29	0	0
	28170 NEW EXCEPTIONS		17/01/2019 11:34	0	0
		To ill@Multifreight.com			
		Subject Our Warehouse too busy to deal with all these receipts, despatches and moves today			
		Message Sony!			
		Sony			
		_ Attachments			
		Report Type Spreadsheet User Query Name NEW EXCEPTIONS(28172)			
		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.