IFS Aviation Maintenance JasperReports for Maintenix Guide Maintenix 8.3-SP12



Document Revision: 8.3-SP12-1 Publication Date: May 01, 2025

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1 Introduction

This document provides a step-by-step guide to using JasperReports to generate comprehensive reports using Maintenix as a data source.

The document covers:

- · Basics of form development
- Setting up a JasperReports project
- Navigating the Maintenix Database ERDs/Data Model to determine the report structure
- Using JasperServer to connect reports from JasperServer to Maintenix

2 Basics of form development

Determine the data fields required to create a report

A	В	С	D	E	F	G	н	1
2								
3								
4 Date:	9/19/2024	Model	\$4	Logbook Form		Work Package	TVE000M8N1	
A/C Reg:	IFSAD-1836	Serial:	007	ABC Aviation		Work Packager No	WO - 2652062	
6				XXX St		Location		
7				CA 95060		HOURS:	1.4	
B CYCLES:	1.0			EPUOT:	1.5	TRAN-T:	0.5	
ACOT:	1.5					TRANCT:	1	
Work Performe	d							
1 Requirements:								
2 FT-2735 (Burst Disc	s - Visual Check) [TVE	000M8N8]:	Remove	d and inspected the module and vent duct for FOD				
3 Performed ad hoc i	nspection (TVE000M8	(99): Perform	ned the	ad hoc inspection				
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3 Performed ad hoc i 4 Faults: 5 Replace burst disc 6 Faults: 7 Parts On/Off 8 Task 9 TVE000M8N8 1 Deferrals 2 Dent on nacelle 4 Lcertify the work 5 in Airworthy Conc 7 Inspector: 8 Inspector:	Inspection [TVE000M8 TVE000M8MD]: Instal Description Propelier (TVE000M8MV): ITVE000M8MV): Inspections of the Joby Av John Steker Jon Driscoll	99]: Perfor led Flight Te Deferred lescribed a isation, Mai Signatu Signatu	Remo QTY I IAW r IAW r I	ad hoc inspection mentation System for 80kt flight test wed p/N 3256 nanual 123. Deferral Authorization No: 1 ere performed in accordance with current FAA ce and inspection Plan JA54-1 & JA54-2 Rev 6 o	S/N AAAA-XXXX 00005 CFARs r later revision	Installed QTY and has been determine Cert Number/Type Cert Number/Type	P/N id to be	5/W 45466 AAAA-12345

1. Create a mock-up of the form.

2. Once the form fields and their data types are decided, generate functions/formulas to pull data into the form from their specific data sources. Refer the Maintenix Database ERDs/Data Model for this.



3. Make note of the tables and data fields that would be required to fill out information on the mock-up form)E.g.: EVT_EVENT table, SCHED_TASK table, TASK_TASK table, and other connected tables such as SCHED_WP table, etc.).



Note For steps 4-5, assume that the date information from the EVT_EVENT is used to populate the Date field under cell B14 in the above for

4. Search and navigate into the EVT_EVENT table to select the data parameters for the form.

IFS Aviation Maintenance 8.3-SP10		Tables	ERDs Change log	
ext.event			Q	
50 document(s) found for evt_event			Page 1/5	
EVI_LEVEN Event. This class enumerates all of the actions (i.e. data records, fault records, etc.) that are entered into the syste Tables/DD_EVI_EVENT.html	m against an inventory item. It is the found	dation for all recorded transactions	****	
L,	osment/MiddlessePublic/Maintenuk/6200.v/	Vainteno (62003-5910/Decomentation/	T%200perations/IFS%20Maintens/6200	ata/NEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	Bearch			<u>م</u>
	Home / Tables / EVI_EVENT			÷2
	EVT_EVENT Event. This class enumerates all of the actions: item. It is the foundation for all recorded transa nature, can be current or can be in the future. Ar records pending actions for PAA purposes e) re	(i.e. data records, fault records, etc.) that are e- ctions against assets and is driven in sequence nevent has a) a liferycle b) a duration of recor- cords technical log related information () recor	tered into the system against an inventory by time and usage. Events can be historical in a completed actions for FAA purposes 6) ts (ourney log related information	 Tables ACFT_CAP_LEVELS ACFT_BOULP_ASSIGNMENT AC_COND_SETTING
	Used In Diagrams			AEROBUY_INVOICE_INFO
	Eventinventory_Transfer EventTasksMeasurements Event_Shipments	C ₂		AEROBU/_INVOICE_TAXES AGQ_ADAFTER_DEST_LOOKUP AGQ_EXCEPTION_LOG AGQ_INEDUND LOG
	Purchase_Orders			ASB_NOTIFICATION_LOG
	Purchase_Orders_Involce			ASB_CUTBOUND_LOG ASB_REQUEST_LOG
	EventMaterial_Request			ASB_RESPONSE_LOG
	Event_DefinitionResourcesScheduling			ASB_TRANSACTION_LOG ASSMBL_CAP_LEVELS
	Event_DefinitionData			AUTO_RERV_QUEUE
	EventTasksDetails			BLT_REF_ERROR BLT_REF_ERROR TYPE
	Organizations_Licensing			BLT_REF_WF_CYCLE_STATUS
	Event_DefinitionTypes			BLT_REF_WF_LOG_STATUS
	Part_Request			BLT_MEP_WP_LOG_TYPE BLT_WF_CYCLE_LOG
	Columns			BLT_WF_ERROR_LOG
			Formula	BLT_WF_REC_LOG

5. Scroll down to the **Column Comments** section; observe the comments made against each Date parameter and select the most suitable option for the form.

No	Column Name	Description	Notes
1	EVENT_DB_ID	Identifies the creation database (MIM_LOCAL_DB) of the record and forms part of the record's primary key.	
2	EVENT_ID	Unique idenifier assigned from Sequence EVENT_ID_SEQ.	
3	EVENT_TYPE_DB_ID	FK to REF_EVENT_TYPE. Used to identify the subtype in the Gen-Spec Hierarchy.	
4	EVENT_TYPE_CD	FK to REF_EVENT_TYPE. Used to identify the subtype in the Gen-Spec Hierarchy.	
5	STAGE_REASON_DB_ID	FK to REF_STAGE_REASON	1
6	STAGE_REASON_CD	FK to REF_STAGE_REASON.	
7	EDITOR_HR_DB_ID	FK to ORG_HR. The current editor of the event record.	
8	EDITOR_HR_ID	FK to ORG_HR. The current editor of the event record.	
9	EVENT_STATUS_DB_JD	The last recorded status of the workflow. FK to REF_EVENT_STATUS	
10	EVENT STATUS CD	The last recorded status of the	

6. Similarly, navigate through other tables and locate data parameters as per the requirement (E.g.: SCHED_STASK table > SCHED_DB_ID, SCHED_ID paramters).

Note Some data fields on the form may require multiple data types from the ERD tables to be joined/concatenated for accurate results. In such cases:

- Follow steps 4-5 to locate the required tables and parameters.
- Scroll down to the Foreign Keys (referring to) and Foreign Keys (referring from) sections as indicated.

Foreign Keys (referring to)												
Name	Refering To	Mandatory	Trans	sferable	In Arc	Column Name						
FK_MIMRSTAT_EVTEVENT	MIM_RSTAT	Y	Y			RSTAT_CD						
FK_ORGHR_EVTEVENT	ORG_HR		Y			HR_DB_ID						
						HR_ID						
FK_REFBITMAP_EVTEVENT	REF_BITMAP		Y			BITMAP_DB_ID						
						BITMAP_TAG						
FK_REFEVENTSTATUS_EVTEVENT	REF_EVENT_STATUS		Y	Foreign	Keys (referre	ed from)						
				Name			Referre	d From	Mandatory	Transferable	In Arc	Column Nam
FK_REFDATASOURCE_EVTEVENT	REF_DATA_SOURCE		Y	FK_EV	TATTACH_E	TEVNT	EVT_AT	ТАСН	Y	Y		EVENT_DB_ID
				-								EVENT_ID
				FK_EV	TEVENTINIT	INVXFER	INV_XF	ER		Y		EVENT_DB_ID
												EVENT_ID
				FK_EV	TEVENT_EQ	PPARTROTABLE	EQP_P	RT_ROTABLE_ADJUST		Y		EVENT_DB_ID
												EVENT_ID
				FK_EV	TEVENT_EV	TDEPT	EVT_DE	PT	Y	Y		EVENT_DB_ID
								and the second sec				EVENT_ID
				FK_EV	TEVENT_EV	TEVENT	EVT_EV	'ENT		Y		EVENT_DB_ID

 User the referrals displayed to formulate how the relevant parameters should be connected to display the required result on the form fields.

				EVENT_ID
FK_EVTEVENT_SCHEDSTASK	SCHED_STASK	Y	Y	EVENT_DB_ID
				EVENT_ID
FK_EVTEVENT_SDFAULT	SD_FAULT	Y	Y	EVENT_DB_ID
				EVENT_ID
EK EVTEVENT QUIDQUIDMENT	CUID CUIDMENT	v	v	EVENT DR ID

Create database connections to the form fields

- 1. Establish a connection to the relevant database from the development application (E.g.: PL/ SQL Developer).
- **2.** Writer the script/query to create connections between the Maintenix database and the previously created form:
 - a. The query should be scripted in the following format:



- **b.** Run the query to preview the data set that will be driving the form auto-population.
- 3. Similarly, write queries to populate the remaining sections of the form.

Building a report form with JasperReports

This chapter will cover the basic steps required to create a form using JasperReports, publishing the report to JasperServer, and connecting it from JasperServer to Maintenix.

Same steps can be used to develop the Excel form displayed under the *Determine the data fields required to create a report* section of this document.

	A	В	С	D	E	F	G	H	
-									
6	ate:	9/19/2024	Model	\$4	Logbook Form		Work Package	TVE000MSN1	
5 4	/C Reg:	IFSAD-1836	Serial:	007	ABC Aviation		Work Packager No	WO - 2652062	
6					XXX St		Location		
71					CA 95060		HOURS:	1.4	
C	YCLES:	1.0		-	EPUOT:	1.5	TRAN-T:	0.5	
A	COT:	1.5					TRANCT:	1	
V	Vork Performed	d			-		<u> </u>	·	
R	equirements:								
2 FT	T-2735 (Burst Discs	s - Visual Check) [TVE00	00M8N8]:	Remove	d and inspected the module and vent duct for FOD				
. 0									
3 14	erformed ad hoc in	hspection [TVE000M89	9]: Perform	ned the	ad hoc inspection				
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COT:	\$F{ACOT}			EPUOT:	SF{EPUOT}	TRANCT:	SF{TRANCT}
Vork Pe	erformed:						
-					Detail 1		
		-					
<u></u>					Dotail 3		
					Detail		
certify th	e work and/or	inspections	described	above were p	erformed in accordance with cu	rrent FAA CFARs	
nd applic	able sections o	of the Joby A	viation, Ma	aintenance an	d Inspection Plan JAS4-1 & JAS4	-2 Rev 6 or later revision an	d has been
etermine	a to be in Airw	orthy condi	tion.				

Define the required data set

- **1.** Identify the details required to build the required report. This example uses the following information:
 - a. Inventory Details
 - b. Serial Number
 - c. Aircraft Registration Code
 - d. Location
 - e. Status
- 2. Follow steps 2–3 under *Determine the data fields required to create a report* section of this document to locate the tables relevant to the above details from the Maintenix Database ERDs. This example uses the following data tables:
 - a. inv_ac_reg
 - **b.** inv_inv
 - c. inv_loc

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	Very CAMABLET CO. CONTENT ON P CONTENT NOOL 0 CONTENT NOOL 0	VACDAWC(8) NUMBER (15) VARCHARC (8) NUMBER (15) NUMBER (15)		Baseline_Task_Definition_Details Baseline_Task_Definition_Part_Namber_Based Baseline_Task_Definition_Phases
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	PH, NO, DP INV, ORER, CHANGE, I 10, CORR, CHANGE, CHAN	NANCHAR2 (40) MARCANAR2 (150) NUMBER (1) NUMBER (1)		Baseline_Task_Definition_Task_Steps Baseline_Zones_and_Panels
	 REAL CO OREATON OF REVERSING OF	DATE DATE		BlobSegregation Data_Warehouse_OI_Consumption
	Providence under Providence under Providence under	VRACHWAZ (50) NUMBER (10)		Data_WarehouseTasks_
	 LCDD Michael (MC) 	NAMBER (11) 0_08_0. INV_NO_00		Electronic_Signature Event Definition Data
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	FK LICIEFN INVACED	(UC_08_0.UC_0) 6 (851A7_0)		Event_DefinitionLife_Cycle

- **3.** Follow steps 4–6 under the *Determine the data fields required to create a report*of this document to locate the data fields from the selected ERD tables.
- **4.** Establish a connection to the relevant database from development application (E.g.: PL/SQL Developer).
- 5. Write the script/query for the form to be created in the indicated format.
- 6. Run the query to view the sample data set.

🗊 SEI	LECT * FROM inv_	inv JOIN 💙	<										
SQL	Output Statisti												
SELEC * FROM in JO	T v_inv IN inv_ac_r(inv_inv.: inv_inv.: IN inv_loc (inv_inv.: inv_inv.:	eg ON inv_no_id ; inv_no_db_; ON loc_id = in loc_id = in	= inv_ac_reg.i id = inv_ac_re nv_loc.loc_id = inv_loc.loc_	nv_no_id AND g.inv_no_db_ AND db_id	id								0
- 中	- 🕀 🕀 😣) 🕑 🕑 👫	⊘ 聞 ▽	- 48 18 ⊞• .] 13 ⊞	∇						
	NV_NO_DB_ID	INV_NO_ID	INV_CLASS_DB_ID	INV_CLASS_CD	BOM_PART_DB_ID	BOM_PART_ID	LOC_DB_ID	LOC_ID	PART_NO_DB_ID	PART_NO_ID	AUTHORITY_DB_ID	AUTHORITY_ID	H_INV_NO_DB_
▶ 1	1000	123651		0 ACFT	1000	104297	3700001	127554	1000	104697			
2	1000	123401		0 ACFT	3700001	104227	3700001	127554	1000	0 104697			
3	1000	123684		0 ACFT	1000	104297	.3700001	127554	1000	104697			

- **7.** Scroll across the preview data set to validate the availability of the required data fields that will auto populate the report.
- 8. Update the query to select the data fields from the above data set and run the query:



Establish Data Adapter connection via Jaspersoft Studio

- 1. Establish a connection to the relevant Data Adapter from the Jaspersoft Studio application.
- 2. Create new Data Adapter:
 - a. Right click on Data Adapter and select Create Data Adapter



b. On the Data Adapter Wizard window, select Database JDBC Connection. Click Next.

Data Adapters Use SQL queries to get data from a database CSV File Collection of JavaBeans			
Use SQL queries to get data from a database SCSV File Collection of JavaBeans			
CSV File Collection of JavaBeans			
💑 Collection of JavaBeans			
Custom implementation of JRDataSource			
Database JDBC Connection			
TIBQL Connection			
Empty rows			
Hibernate Session			
📮 Hibernate Session Loaded By Spring			
M JNDI Data Source			
🕐 JSON File			
JasperReports DataSource Provider class			
🔊 Jaspersoft Server			
Microsoft Excel (XLS, XLSX)			
Mondrian OLAP Connection			
ABack Next >	Finish	Cance	

- c. On the next window, fill in the following details and click Finish to set up the connection:
 - 1. Name: Provide a name for the Data Adapter
 - 2. JDBC Driver: Oracle (oracle.jdbc.driver.OracleDriver)
 - 3. JDBC URL: jdbc:oracle:thin:@localhost:1521:database

Note If the connection is a cloud instance JDBC URL should be in the format of: jdbc:oracle:thin:@<databasestring>:1521:<connectionname>

- Username: Username of the schema or the user accessing the database
- Password: Password of the schema or the user accessing the database

JDBC Driver	Oracle (oracle.jdbc.driver.OracleDriver)
JDBC Url	jdbc:oracle:thin:@databasestring:1521/connection1
Username	
Password	
	Attention! Passwords are saved in clear text
Database Lo	cation Connection Properties Driver Classpath
Database Lo	cation Connection Properties Driver Classpath

Create new report project

- 1. Navigate into the newly created Data Adapter.
- Right click anywhere on the Project Explorer pane and select New > Project to create a new project.

	New Go Into	>		Project Jasper Report	
	Show In	Alt+Shift+W >	×	Style Template File	
1111	Сору	Ctrl+C		Data Adapter	
	Copy Qualified Name			File	
(jin	Paste	Ctrl+V		Folder	
×	Delete	Delete		Other	Ctrl+N
	Build Path	>			
	Source	Alt+Shift+S >			
	Refactor	Alt+Shift+T >			
2	Import				
1	Export				

3. On the next window, select **JasperReports Project** from the provided folder structure and click **Next.**

9 New Project		×
Select a wizard Create a JasperReports project	Ţ	۶
Wizards:		
type filter text		
 Jaspersoft Studio JasperReports Project JasperReports Samples Java Plug-in Development SVN 		
Show All Wizards.		
? < Back <u>N</u> ext > Finish	Cance	

4. On the next window, provide a **Name** for the project and click **Finish**.

🔗 New Jasper Project Wizard			×
New JasperReports Project Create a new JasperReports project			
Name TestReport			
? < <u>B</u> ack Next >	<u> </u>	Cance	1

Note It is recommended that either underscores are used instead of spaces, or no spaces are used when naming projects, report files, etc. (E.g.: 'TestReport', or 'Test_Report' instead of 'Test Report').

- **5.** Locate the newly created JasperReports project from the navigation pane and create a new folder.
 - a. Right click on the project name and select **New > Folder**.



b. Provide a folder name and click Finish to create the folder.

🧭 New Folder			×
Folder Create a new folder resource.			-
Enter or select the parent folder: TestReport			
 Image: Second se			
2	Finish	Cancel	
	Finish	Cancel	

Create new report

1. On the navigation pane, right click on the newly created folder and select **New > Jasper Report.**



2. On the next window, select a report template and click Next.

💋 New Report Wizard			– O X
Report Templates Please select a report from a ter	nplate		
			Zoom:
Categories All Print Ready Reports Web Interactive Reports Format A4			
Format Landscape Report Books	Blank A4	Blank A4 Landscape	Blank Letter
	Blank Letter Landscape	Cheny	Cherry Landscape
0		< Back Next >	Finish Cancel

3. Provide a name for the report and click Next.

🔗 New Report Wizard			×
Report file			
Please select your reports file name with .jrxml extension.			
Enter or select the parent folder:			
TestReport/TestReport			
> 🛃 Fault Test Report			
> 🕍 Faults - Full Report			
S 😅 MRD Report			
> Z MyReports			
✓ TestReport			
😕 .settings			
TestReport			
bin 🔁			
File name: TestReport.jrxml			
? < Back	h	Cance	

4. On the next window, the created will attempt connecting to the previously created data adapter. Make sure the correct data adapter is selected.

9 New Report Wizard	D	×
Data Source		
Select a Data Source and design the query.		
Data Adapter BAE TyTAN - Database JDBC Connection BAE TyTAN - Database JDBC Connection ICAM Test - Database JDBC Connection	~	New
> Image: A ABC UAT - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection > Image: A AUDS MX_UPS_2600 - Database JDBC Connection		
>		
> = DIP > = DVF > = DVSS		
>		
>		
> = JS_KLM_AWACS = JS_KLM_AWACS_6442		
EBACSYS MDDATA Texts Outline Diagram		
? < <u>Back</u> <u>Next</u> > <u>Finish</u>	Can	cel

5. Copy and paste the complete query that was created under step 8 of *Define the required data set* section of this document on the next pane of the same window as indicated and click **Next**.



Note Make sure all semicolons are removed from the code to avoid parsing errors.

6. On the next window, use the >> button (include all) to add the selected the data set fields into the form and click **Next**.



7. On the next window, the selected data fields can be used to group as required. This can also be done further down the process. Therefore, this step can be skipped at this point.

Charles Description					_	~
🥙 New Report Wizard						×
Group By						
Dataset Fields		Fields				
INV_NO_SDESC						
SERIAL_NO_OEM						Down
AC_REG_CD						
LOC_CD						
INV_COND_CD						
		11 Mar	- 24 at		4	
Use the group fields as sort fields. Select this option if you want	t to aggregate a	ill the group fields	with the same va	lue and not only	the consecut	ive ones
0		< Back	Next >	Finish		ncel
		ack	JI <u></u>			

- 8. Click Next. This completes the data collection for the form to be generated.
- 9. On the next window, click Finish to generate the form.

🥬 New Report Wizard					×
Finish					
We are ready to create your report					
					_
Congratulations!					
All the information to create your new report have been successfully acquired.					
Press Finish to generate the report.					
0	< <u>B</u> ack	Next >	Einish	Cancel	
		*			

10. This will redirect into the form layout view.

🔗 Jaspersoft® Studio Professional			
Ele Edit View Navigate Project Window Help			
📑 🖩 🖬 🔮 🦉 🗄 🕺 💺 🌽 🛃 🖓	· (予生) 中 ·] 王 ·] 专 ·]		
🚈 Repository Explorer 🚹 Project Explorer 🗙 🖳 🗆	TestReport.journl ×	Palette ×	
	🕞 Main Report	Basic Elements	
> 🚰 Faults - Full Report	0 1	Note Note	
> pr Fault lest Report		Text Field	
> 🛃 MRD Report WP	P	abel Static Text	
> 🛃 MyReports		📰 Image	_
V P TestReport	1 De	Composite Elements	
A JasperReports Library	1	# Page Number	
> 🛃 JasperReports Pro Library	Page Header	Total Pages	1
> A Jaspersoft Server Library		[11] Current Date	
TestReport TestReport TestReport	Column Header	📴 Time	
		Components Pro	
		HTML5 Charts	
		HTML5 Maps	
	Detail 1	🕙 Ad Hoc	
		S Maps Pro	
		🔲 Properties 🗙 📘 Problems	
	Column Footer	TestReport.jrxml - TestRe	port/T
	Page Footer	Resource Property V Info	
V TetReport		editable	
/ Styles	Summary		
> Parameters			
> En Fields		location	
> Variables			
> 😋 Scriptlets	2		
at an a factor			
 New Contraction 	Design Source Preview Edge browser engine is not setup. HTML and JRIO Preview will not work fine JasperReports Library		
En ann Innen	Econo State V		
Last Page Footer	Course France Statistics		
No Data			

Modify form layout

- 1. From the generated form layout, remove the bands that are not required for the form.
 - a. To remove a band, right click on the band to be removed and click **Delete**.



2. Drag and drop the required elements from the **Palette** pane on the right edge of the window, on to the form layout (E.g.: Static Text, Subreport, Frame, Border, etc.).



3. Use the provided editing functions to generate the required form UI.

	Jen	10 A	* B I E E E		* `	
*TestReport.jrxml ×		10				
Main Report		11			a	Q Q 100
01123	1 4 1 5	14		9		
Tract R	and a	16 18				
100 IV	Title	20				
		·				
	Column He	eader				
	Detail	1				

4. Further, use the **Properties** pane located on the bottom right of the window to modify the property settings of all elements that are added on to the form layout.

	Properties X Problems StaticText: Test Report Search Property	
	Appearance 🔳 Konders 🗤 Static Text 🦹 Inheritance 🦷 Advanced	
orary	E Location	1
	x 190 px y 10 px Position Type Fix Relative To Top	
	w 401 px h 61 px Stretch Type No Stretch	
Ą	Forecolor Backcolor	

- 5. To add data set fields to the form:
 - a. Locate the data fields from the **Outline** pane on the bottom left edge of the screen.



b. Select the required data field and drag-drop same on to the **Detail** band of the layout view. This will also add an equivalent static text of the data field on the **Column Header** band.

	Test Report
INV_NO_SDESC	
Ĵ.	Column Header
SF(INV_NO_SDESC)	Detail 1

- c. Use the **Properties** pane to modify the data field properties as required.
- **6.** Drag and drop the remaining data fields from the **Outline** pane on to the layout and repeat step 5 as required.

	+111112+				1111
			.		
			lest	кероп	
INV NO PDEPC	CEDIAL NO. OFM	AC REC CD	100.00	INV COND. C	
NV_NO_SDESC	SERVAL_NO_OEM	AC_REG_CO	Column	Hpader	
\$F{INV_NO_SDESC}	SERIAL NO OFMI	\$F{AC_REG_CD}	\$F{LOC_CD}	SF	

7. Upon completion, switch the layout view from **Design** to **Preview** to view the report format.

	TestReport.jrxm	l X								- 6
8		► 1	ava 🕨	← Page 1 of 1	→ →	🔍 100% 🗸 🗖				6
$\left \right $						Tes	t Report			
		IN	V_NO_SDESC	SERIAL_NO_OEM	AC_REG_CD	LOC_CD	INV_COND_C			
		S4	2.1A - N541JX	006	IFSAD-1835	OAR	INREP			
		84	2.1A - N5421A	005	IFSAD-1835	OAR	INREP			
		S4	2.1A - N542JX	007	IFSAD-1835	OAR	INREP			
Þ										
										· · · · · ·
Desi	gn Source Pr	eview					Edge browser eng	ine is not setup. HTML and	I JRIO Preview will not work fin	e JasperReports Library
L.	eport State $ imes$									- 8
		Statistic								
	Compilation Tir	ne	0.393 sec							
	Filling Time		1.44 sec							
1	Report Executio	in Time	2.058 sec							
	Export Time		0 sec							
	Total Pages		1 page							
			0 byte							
	Data Queried At		Tue Nov 0	5 13:44:02 EST 202	4					
	Ised Data From	Snancho	at No							

- 8. Switch back to the **Design** view to make any layout changes as required.
- Once all changes are made and finalized, Save and Build the report. This will create a
 *.jasper file of the report within the folder.



Publishing report to JasperServer UAT environment

1. Navigate to **jasperserver-pro** view (http://servername/jasperserver-pro/login.html) within the Maintenix UAT environment. Provide login credentials if prompted.



2. From the View tab, navigate to the Repository view.



3. Locate the Materials folder from the navigation pane.



4. Right click on the **Materials** folder and select **Add Resource > JasperReport** to add a new report.



5. On the next window, navigate to the Locate JRXML File section and select Upload a Local File.

Set Up the Report			
Set the required values for the report, then, optionally, proceed to other pages in the flow.			
Name:	 		
Resource ID (required):			
Landau and the fordau and the			
Description:			
Locate the 19XML File			
Upload a Local File			
		B	Browse
O Select a JRXML from the Repository			
O Use a blank JRXML			Browse

6. Click **Browse** to attach the previously created **TestReport.jrxml** file from the local machine.

🧿 Open					
$\leftarrow \rightarrow \checkmark \uparrow$	> JaspersoftWorkspace	ce > TestReport > TestReport		С	
Organise 🔻 New fo	older				
A Home	Name	Date modified	Туре	Size	
Gallery	TestReport.jasper	2024-11-05 1:45 PM	Jasper source file	2	1 KB
	TestReport.jrxml	2024-11-05 1:44 PM	Jrxml source file		7 KB
- IFS	×				

- **7.** Provide a **Name**, and a **Description** for the report. The provided name will automatically duplicate into the **Resource ID (required)** field.
- 8. Click Submit to finish setting up the report.
- 9. On the same window, navigate to the **Data Source** tab.

	Link a Data Source to the Report
	Optionally, link a data source to the report. You can
Set Up	O Do not link a data source
Controls & Resources	O Click here to create a new data source
Data Source	Select data source from repository
Query	
Customization	

- **10.**Of the provided options, select **Select data source from repository** and click **Browse** to link a data repository to the report.
- **11.**Expand the folder hierarchy on the data source selection pop-up window to locate **MaintenixDS.** Click **Select** to set the data source.

Select Data Source from	Repository	
🔻 🚞 root		
🔻 🚞 Organizatio	ons	
👻 🚞 Mainter	nix	
> 🚞 Ad	Hoc Components	
> 🚞 Dor	mains	
> 🚞 Per	formance	
🔻 🚞 Sha	aredResources	
- 🖿	Datasources	
	MaintenixDS	
🕨 🚞 Public	ſ	•
Select Cancel		h.

12.Click **Submit** to finish setting up the data source. The newly created JasperReport will now appear in the repository.

									Test_Report added to /organizations/Maintenix/Reports/Operator/Materials close		
Repository											
< Folders	Run	Ed	it Op	pen	Сору	Cut	Paste	Delete			
🕶 🚞 root	O	N	ame						Description	Туре	Created Dat
Organizations Folder Template		1	est Rep	port						Report	Today

13.Open the new Test_Report file to run the report.

Library View Manage Create						Release: 9.0.0.3	ifsadmin	Help L	og Out
Test_Report Data refreshed 2024-11-05 at 18:49:56									
X 🔄 - E - 4> O + + + P								-	+ 100% -
				Test	t Report				
	INV_NO_SDESC	SERIAL_NO_O	MAC_REG_CD	LDC_CD	INV_COND_CD				
	\$42.1A-N\$41JX	000	IFSAD-1835	OAR	INREP				
	\$42.1A - N5421A	005	IFSAD-1835	CAR	INREP				
	94 2.1A - N542JX	007 Da	IFSAD-1836	CAR	INREP				

Connecting JasperReport from JasperServer UAT to Maintenix

1. Obtain the report path from the **Test_Report** on the JasperServer environment. Right click on the report title and select **Properties** for this.

Name: Test_Report Description: Path: Path: Yorganizations/Maintenix/Reports/Operator/Materials/Test Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Test_Report Description: Path: /organizations/Maintenix/Reports/Operator/Materials/Test Resource ID: Test_Report Type: Report Created Date: Today User Access; Modify, Delete, Administrate	
Description: Path: /organizations/Maintenix/Reports/Operator/Materials/Test Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Path: /organizations/Maintenix/Reports/Operator/Materials/Test Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Path: /organizations/Maintenix/Reports/Operator/Materials/Test Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Path: /organizations/Maintenix/Reports/Operator/Materials/Test Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
/organizations/Maintenix/Reports/Operator/Materials/Test_ Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Resource ID: Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	Report
Test_Report Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Type: Report Created Date: Today User Access: Modify, Delete, Administrate	
Report Created Date: Today User Access: Modify, Delete, Administrate	
Created Date: Today User Access; Modify, Delete, Administrate	
Today User Access: Modify, Delete, Administrate	
User Access: Modify, Delete, Administrate	
User Access; Modify, Delete, Administrate	
Modify, Delete, Administrate	
Submit Cancel	

- 2. Navigate to the Maintenix environment.
- 3. Expand the main menu and select Administrator > Report Configuration.

IFS 🕚	w	ork Package Details				
Home						
Administrator	>	To Do List (Administrator)	-			
Administrator Search	>	Alert Setup	- 01			
Line Maintenance		Database Rule Checker	r			
Technician	>	Jobs	H			
Line Planner	>	Manage Skills	.01			
References	>	Report Configuration				
Options	>	Role Permis n Editor	in			
Log Out	siyii	Work Item Admin Console	Jrl			

4. On the next window, use the path obtained in step 1 to either create new report configuration or edit an existing report configuration by clicking the respective buttons as indicated.

	IFS • Report Co	onfigu	ration >	Engine and Path Mapping
Creat	te Report Configuration Edit	Report C	onfiguration	Delete Report Configuration
4				
	Template Name+	System	Report Engine	Jasper Report Path
0	esignature.SignatureCorrection	1	JASPER_REST	/organizations/Maintenix/Reports/Core/esignature/SignatureCorrection
0	fault.DraftRegulatoryReport		JASPER_SSO	/organizations/Maintenix/Reports/Core/fault/DraftRegulatoryReport
0	inventory.CondemnedPartTag	~	JASPER_REST	/organizations/Maintenix/Repoins/Core/inventory/CondemnedPartTag
0	inventory.DetailInvFncLog		JASPER_SSO	/organizations/Maintenix/Reports/Core/inventory/DetailedFinancialLog
0	inventory.InspReqServiceablePartTag		JASPER_REST	/organizations/Maintenix/Reports/Core/inventory/InspReqServiceablePartTag
0	inventory.IssuedCsgnInventory		JASPER_REST	/organizations/Maintenix/Reports/Core/inventory/IssuedCsgnInventory
0	inventory.KitAssemblyTicket		JASPER_REST	/organizations/Maintenix/Reports/Core/inventory/KitAssemblyTicket
0	inventory.NoInspReqServiceablePartTag		JASPER_REST	/organizations/Maintenix/Reports/Core/inventory/NoInspReqServiceablePartTi

4 Building a sub report form

This chapter will cover the steps required to create a sub report form using JasperReports, and connecting same to the main report created as per the previous chapter which is now on Maintenix.

Create a sub report

1. Identify the details required to build the report. This example uses the indicate information:

To Do List > Administrator			
Create User User Search Create Location Location Search Create Role Role Search	Authority Search Create Authority	Manage Skills Refresh Configuration Pa	rameters
Fleet List Assembly List			
Create Flight Raise Logbook Fault Create Task Create Work Package Create Usage Record			
🔠 🛄 Filter this list			
Aircraft Serial No Aircraft Registration Fin No Current HOURS Operating Capability Loc	atio	Next Work Package	
Status Status	Name	Start Date End Date	Work Location Work Type(s) Class - Subclass
	in another second		OUTOX

- 2. Follow steps 2-3 under *Determine the data fields required to create a report* section of this document to locate the tables relevant to the above details from the Maintenix database ERDs. This example uses the following data tables:
 - a. EVT_EVENT
 - **b.** SCHED_STASK
 - c. EVT_LOC
- **3.** Writer the script/query to create connections between the Maintenix database on the development application (E.g.: PL/SQL Developer):
 - a. The query should be scripted in the following format:



- **b.** Run the query to preview the data set.
- **4.** Navigate to JasperSoft Studio. Follow the steps under the *Create new report* section of this document to design the report layout.
- 5. Drag and drop the **Subreport** element from the **Palette** to the form layout view. This will open the sub report window.

🍪 Palette 🗙	
Basic Elements	
1 Generic	
Frame	
E Subreport	
IIII Barcode	
∃ List	
Composite Elements	
# Page Number	
Σ Total Pages	
31 Current Date	
31 Time	
% Percentage	
Components Pro	
HTML5 Charts	
HTML5 Maps	
🐼 Ad Hoc	
S Maps Pro	
Charts Pro	

6. Mark the Create New Report radio button and click Next.

50 Subreport			\times
Subreport Please specify a report to be used as subreport, or just press finish to c subreport element.	reate an	empty	
• Create a new report			Ĩ
Select an existing report			_
	Select a	report fi	le
 Just create the subreport element 			
? < Back <u>Next</u> > Finish		Cancel	

- 7. Follow steps 2-4 under the *Create new report* section of this document to start setting up the sub report.
- **8.** Copy and paste the complete query created under step 3.A of the current section of this document on the text pane of the same window as indicated and click **Next**.





Note Make sure to omit any parameters that are to be parsed from the query at this stage as this would prompt an error message indicating that the parameter does not exist.

- **9.** Follow steps 6-9 under the *Create new report* section of this document to finish setting up the sub report.
- **10.**This will open the newly created sub report layout in a new tab on the design view as indicated.

Title	
Page Header	
Column Header 🛛 🗟	
Detail 1	
Column Footer	
Page Footer	
Summary	

11.Follow steps 1-7 under the *Modify form layout* section of this document to add new data fields to the sub report, modify the report layout as required, and to preview the sub report.

	ABC_Logbook.jrxml	🚡 *TestReport.jrxml	🎴 *TestSubreport.jrxml 🗦	<				
	Joby UAT 🕨 🕨	Java 🔶 🌪 Pag	relof1 → → 🔍 🤇	100% ~ 🎦 🗋 🖻	• н			*
Γ		SCHED_START_DT	SCHED_END_DT	EVENT_SDESC	TASK_CLASS_CD	LOC_CD		
		2024-09-19, 4:26 p.m.	2024-09-19, 4:26 p.m.	Temp sensor failure	CHECK	OAR/LINE		
		null	null	ordering a part	CHECK	null		
		nuli	null	Fix faults	CHECK	null		
		2024-10-31, 1:16 p.m.	2024-10-31, 1:16 p.m.	General October Inspection and Maintenance	CHECK	OAR/LINE		
		لمح 2024-09-26, 3:38 p.m.	2024-09-26, 3:38 p.m.	Testing Work Package	CHECK	OAR/HGR/BAY		
		2024-09-25, 11:11 p.m.	2024-09-25, 11:11 p.m.	regsfdgrsegreg	CHECK	null		
1								
Des	ign Source Preview			Edge browse	r engine is not setup. H	ITML and JRIO Preview will n	ot work fine JasperReports Lil	orary

Pass parameters to the sub query/sub report

1. Open the Dataset and Query Dialog window by clicking the indicated button.

ABC_Logbook.jnxml	🛓 *TestReport.jrxml	📓 *TestSubreport.jrxml 🗙				- 8
📓 Main Report				1	🖌 🔍 🔍 100%	✓ Settings
01	2	4	 9		1 ••• • ••• •12 ••• •	• • • • 13 • • • 1 • • • • 1

2. Directly introduce the parameters into the sub query.



- 3. Simultaneously, add the new parameters from the **Parameters** section of the same window.
 - a. Locate the Parameters tab and click Add.

N							
Parameter Name	Is For Prompt	Class Type	Description	Default Value Exp	Evaluation Time	Properties	Add
REPORT_CLASS REPORT_TEMPL SORT_FIELDS FILTER REPORT_VIRTUA IS_IGNORE_PAG		java.lang.Class java.util.Collec java.util.List net.sf.jasperre net.sf.jasperre java.lang.Bool					Edit Delete
Fields Parameters	Sorting Filter Exp	ression Data preview	N				
0						ок	Cancel

b. This will introduce a default parameter **Parameter 1** into the table. Modify the parameter name on the Parameter 1 pop-up window that appears next and click **OK**.

nunna leal									Dend
guage sq		Ø Parameter				- 1	л х		Read
	No Metadat Double click to r	Parameter Name Is For Prompt Class Type Nested Type Name Description Default Value Expre Evaluation Time	ssion	main_inv_r true V java.lang.S	no_id			ent.event_id AMD t_event.event_db_id vent_id AMD c_event_db_id AMD t_db_id ICK' AMD TT' IN WORK') AM	1
*		Properties			₽ ĸ)	Cancel	{main_inv_no_id} = \$P{imain_inv_no_o	1967) db_id}
arameter Name Is	For Prompt	Class Type	Descri	ption	Default Valu	ie Exp	Evaluation Ti	me Properties	Ad
REPORT_CLA REPORT_TE SORT_FIELDS FILTER		java.lang.Class java.util.Collec java.util.List net.sf.jasperre net.sf.jasperre							Ed
REPORT_VIRT									

- **c.** Repeat the above steps for any new parameters that are added into the query and click **OK** to finish adding parameters.
- d. As such, all new parameters that are added into the sub query will be displayed as follows:



- 4. Navigate back to the main report tab (TestReport.jrxml).
- 5. Open the **Dataset and Query Dialog** window and pull the new parameters from the sub report into the main report as indicated.

ABC_Logbook.jrxml	📓 "TestReport.jrxn	nl 🗙 🤰 "Te	stSubreport.jrxm	1						- 0
Main Report							=	n 💀 🔍	Q 100%	✓ Settings
011		3 1 4	4 · · · · 1 · · · · 5 ·		7	.89	10	1111.		13
	🧭 Dataset and Quer	y Dialog							o x	
	ABC UAT									
INV_NO_SDESC	Query Java Bean									
SF(INV_NO_SDESC	Language sql			-		I			Read Fields	
	A ANORYMOUS A ANORYMOUS A ANORYMOUS A ANORYMOUS A ANORYMOUS A ANORYMOUS CERESAND. CERESAND. CERESAND. CERESAND. BOATASYNC DIDESFWUSER DIDESFWUSER	s MIN Is SCAN_ADMIN SCAN_ADMIN IGN_USER INTERNAL R			Texts Outline	ny no sdesc, serial_no_oem, reg.ac.reg.cd, loc_cd, inv_no.id, inv_no_id, inv_	v_ac_reg.inv_no_ii = inv_ac_reg.inv_n sc.loc_id JMP v_loc.loc_db_id SP(tail_no)	d Mats o_db_id		
Design Source Preview	Field Name Cla INV_NO_SDESC jav SERIAL_NO_O jav AC_REG_CD jav LOC_CD jav INV_COND_CD jav	ess Type va.lang.Stri va.lang.Stri va.lang.Stri va.lang.Stri	Description	Time zone	Column name	Column label	Column index	Properties 2 Properties 2 Properties 2 Properties 2 Properties 2 Properties	Add Edit Delete Up Down	
Compilation Time	Fields Parameters \$	orting Filter	Expression Data	a preview						
Filling Time Report Execution Tin Export Time	Ø							ок	Cancel	
Total Pages	1 pages									

6. Click on **Read Fields.** Once completed, make sure that the new fields are now displayed on the **Parameters** table.



7. Click OK.

- 8. To pass new parameters:
 - **a.** Navigate to the main report tab and click on the **Details** band this holds the sub report element.

011	2		4 · · · · I · · · · 5 · · ·	6
			Test	Report
INV_NO_SDESC	SERIAL_NO_OEM	AC_REG_CD	LOC_CD Column	INV_COND_CD Headler
\$F{INV_NO_SDESC}	SF	\$F{AC_REG_CD}	\$F{LOC_CD}	SF MALCOND_CD
			Deta	il 1

b. On the Properties pane, click on the Subreport tab.



c. Locate and click the Edit Parameters button to open the Parameter Properties window.

	Properties		- 0 X
Edit Baturn Values	Subreport Param Subreport Parameter	eters rs Map.	
	Name	Expression	Add Edit Delete Up Down Copy From Master Import from Subreport
	0		Einish Cancel

- d. Click on Add to add and configure the new parameters that were introduced to the report.
- e. On the next pop-up window, provide the parameter name under **Parameter Name**, and the field name under **Parameter Expression** as indicated.

5	Pro	operties		
s	ubre	port Parameters		
	Subre	port Parameters Map.		
_				
	Nam	e	Expression	Add
	main	_inv_no_id	SF{INV_NO_ID}	Edit
				<u>D</u> elete
				Цр
				Down
		Configure the Para	ameter	×
		Parameter Config	uration Dialog	port
		 In this dialog you on the fields below 	an define the attribute of a Parameter (using
	1	Parameter Name	main_inv_no_db_id	×
		Parameter Expression	\$F{INV_NO_DB_ID}	
				I
		0	ОК	Cancel
_	_			
	0		<u>F</u> inist	Cancel

Note Parameter Expression entry is case sensitive. Make sure to use lowercase/ uppercase characters appropriately when adding the field names.

- f. Click **OK** to finish parameter configuration.
- g. Repeat the above steps for all newly introduced parameters. Once completed, click Finish.

🧭 Properties – 🗆 🗙							
Subreport Parameters							
Subreport Parameters Map.							
Name	Expression	<u>A</u> dd					
main_inv_no_id main_inv_no_db_id	SF{INV_NO_ID} SF{INV_NO_DB_ID}	Edit					
		Delete					
		Up					
		Down					
		Copy From Master					
		Import from Subreport					
0	E	sh Cancel					

Note Click on **Copy From Master** if the same parameter is to be used to drive both the main report and the sub report. This will automatically pull the parameter details on to the **Parameter Properties** window.

Properties		– o x
Subreport Parameters Subreport Parameters Map.		
Name tail_no	Expression \$P{tail_no}	Add Edit Delete Up Down Copy From Master Import from Subreport
0		<u>F</u> inish Cancel

- 9. Compile, save, and rin the report.
- **10.**Navigate to the **Preview** tab. To view the complete preview of the report, enter an input parameter value and click **Reset.**

Com Com Priver unis insu	ABC_Logbook.jrxm1	🛓 TestReport.jnxml 🗶 🍃 TestSubreport.jnxml	° 0
Aircraft- Serial No Aircraft Registration Fin I	abc UAT	Java 🖌 🔶 Page 1 of 1 🔿 🌖 🔍 🔍	R 1005 - E E E - E - E
O 10 S4 2.1A - IFSAD- 006 IFSAD-1836	Input Parameters	a 見 中 回 🦯 🖬	
	tail_no		
			▶
			The report requires that you specify the value for
			some parameters before running #.
		► Reset	

11.Report preview will now be displayed as indicated.



Note The information to be displayed on the report can be modified by making changes to the main report query and/or sub report query through the **Dataset and Query Dialog** window. For example:

a. Remove parameter from the main report query from the WHERE clause.



b. Set the Is For Prompt value on the properties pop-up as False.

1 B								🕬 Parameter		
^D arameter Name	Is For Prompt	Class Type	Description	Default Value Exp	Evaluation Time	Properties	Add			
REPORT_TE		java.util.Collec					Edit.	Parameter Name	tail_no	
SORT_FIELDS		java.util.List						Is For Prompt	true 🗸	
REPORT_VIRT.		net.sf.jasperre					Delete	Class Type	true false	
10 IONOICE_F										
tail_no		java.lang.String						Nested Type Name		
tail_no Ids Parameters	Sorting Filter Exp	java.lang.String	w					Nested Type Name Description Default Value Expression		
tail_no Ids Parameters	Sorting Filter Exp	java.lang.String	w					Nested Type Name Description Default Value Expression Evaluation Time		
tail_no Hds Parameters	Sorting Filter Exp	java.lang.String ression Data previe	w					Nested Type Name Description Default Value Expression Evaluation Time Properties		

c. Compile and Preview report.

ABC Logbook jrxml	Java ke ke Page 1	■ TestSubreport.jrxml of 1 → → ○ ○ [100% 🗸 📑 📘		н		
			Test	Report			
	NV_NO_SDESC SERIAL_N	O_OEM AC_REG_CD	LOC_CD	INV_COND_	CD		
	\$4 2.1A -IFSAD-1836 006	IF5AD-1836	OAR	REPREQ			
	SCHED_START_DT	SCHED_END_DT	EVENT_SDESC		TASK_CLASS_CD	LOC_CD	
	2024-09-26, 3:38 p.m.	2024-09-26, 3:38 p.m.	Testing Work Pag	kage	CHECK	OARHOR/BAY	
	2024-09-25, 11:11 p.m.	2024-09-25, 11:11 p.m.	regsfdgrsegreg		CHECK	null	
	54 2.1A - IFSAD-1843 005	IF5AD-1843	OAR	INREP			
>	SCHED_START_DT	SCHED_END_DT	EVENT_SDESC		TASK_CLASS_CD	LOC_CD	
·	Tull	null	ordering a part		CHECK	null	
1	2024-10-31, 1:16 p.m.	2024-10-31, 1:16 p.m.	General October Maintenance	Inspection and	CHECK	OARAINE	
	54 2.1A -IFSAD-1729 007	IFBAD-1729	OAR	INREP			
	SCHED_START_DT	SCHED_END_DT	EVENT_SDESC		TASK_CLASS_CD	LOC_CD	
	2024-09-19, 4:26 p.m.	2024-09-19, 4:26 p.m.	Temp sensor faile	re	CHECK	OAR/LINE	
· · · · ·	IUI	nul	Fix faults		CHECK	null	
►							
Design Source Preview				Edge browser	r engine is not setup. F	ITML and JRIO Preview will not we	ork fine JasperReports Librar

- 12. Once all changes are made and finalized, Save and Build report.
- **13.**Upon completion, the report can be published on JasperServer, and then to Maintenix by following the steps under *Publishing report to JasperServer UAT environment* and *Connecting JasperReport from JasperServer UAT to Maintenix* sections of this document.

Connecting sub report from JasperServer to Maintenix

1. Locate the Expressions field under Properties > Subreport tab.



- 2. Click on the file browser option. This will open the Select a subreport window.
- **3.** Mark the radio button to select the **Workspace resource (an element inside the workplace)** option.

🧭 Select a subreport	×
Subreport selection mode Workspace resource (an element inside the workspace) Absolute Path in the filesystem (use only for quick the URL (a remote URL referring to a subreport, will be the Select a resource from JasperReports Server Custom expression (enter an expression for the sub- No subreport (no subreport reference will be set)	re) sting, never use in real reports) re expression value) eport using the expression editor)
Options — Select a resource from the workspace	Browse OK Cancel

- 4. On the same window, locate the Options section and click Browse.
- 5. Select the correct sub report from the list of resources on the **Open Resource** window and click **OK**.



6. Click OK on the Select a subreport window to confirm selection.

6 Select a subreport	×
 Subreport selection mode Workspace resource (an element inside the workspace) Absolute Path in the filesystem (use only for quick testing, never use in real reports) URL (a remote URL referring to a subreport, will be the expression value) Select a resource from JasperReports Server Custom expression (enter an expression for the subreport using the expression editor No subreport (no subreport reference will be set) 	r)
Options Select a resource from the workspace TestSubreport.jmml OK Cancel	

- 7. The Expression field will now display the new path as 'TestSubreport.jrxml'. Update the field as 'repo:TestSubreport.jrxml'.
- 8. Compile and Save the report.
- 9. Navigate to the JasperServer repository view.
- **10.**Locate the **Maintenix > Reports > Operator > Maintenance** folder form the navigation pane. Right click and select **Add Resource > JasperReport** to set up the report.



- **11.**Follow steps 5-8 under the *Publishing report to JasperServer UAT environment* section of this document to finish the report set up.
- **12.**Navigate to the **Controls & Resources** tab on the same window. The **TestSubreport.jrxml** file will be displayed under the **Resources** section.

Set Up Controls & Resources	Controls & Resources Locate the controls and resources used by your report.	
Data Source	Resources	
Query	TestSubreport.jrxml	
Customization	Add Resource	
	Input Controls Add Input Control. Input Control Options Display Mode: Pop-up window Always prompt Optional JSP Location:	
	(within /WEB-1NF/jsp)	

13.Click Add Now to add the sub report as a resource.

14.Mark the radio button to select the **Select a resource from the Repository** option and click **Browse.**

Locate File Resource	
O Upland a Legal File	
Choose file No file chosen	
Select a resource from the Repository	
N	
	Opioad a Local File Choose file No file chosen Select a resource from the Repository

15.Expand the folder hierarchy on the selection pop-up window to locate Organization > Maintenix > Templates > Operator > Maintenance > TestSubreport.jrxml. Click Select to set the data source.

Select Resource From Repository	
🔻 💳 Mainten	ance
ABC	_Aviation_Logo.png
ABO	_Logbook_Deferr
ABC	_Logbook_Parts.j
ABG	_Logbook_Signat
ABO	_Logbook_WorkP
ABG	_Logbook_WorkP
Test	Subreport_jrxml
🕨 🚞 Themes	
Public	
Thomas Im	•
Ũ	
Select Cancel	4

Note The TestSubreport.jrxml fiel should be uploaded to the indicated location in the repository before step 15. To upload the file:

- a. Locate Organization > Maintenix > Templates > Operator > Maintenance folder on the navigation pane.
- **b.** Right click and select **Add Resource > File > JRXML** and select the sub report file.



- **16.**Follow steps 9-12 under the *Publishing report to JasperServer UAT environment* section of this document to set up the data source.
- **17.**The newly created JasperReport which includes the new sub report will now appear in the repository.



18.Run the report to view the form.

Repository

5

Export report to the JasperServer production environment

This chapter will cover the steps to be followed in order to export a report from JsaperServer UAT environment to the JasperServer production environment.

1. On the UAT environment, right click on the newly created report and click **Export**.

_	
	Run
	Run in New Tab
	Run in Background
	Schedule
	Edit
	Open in Editor
	Add to Favorites
	Сору
	Cut
	Delete
	Permissions
	Properties
	Export
-	0

2. On the Export Resources window, rename the default Export File Data Name and check all criteria under the Export Options section.

xport Resources
Export Data File Name (required):
ABC_Logbook.zip
Exported file will contain an encryption key. Refer to the JasperReports Server Security Guide for more information
Import-Export Key:
Server Key
For your JasperReports Server only.
🔿 Legacy Key
For all JasperReports Servers.
Export Options:
Include report jobs
Include alerts
Include repository permissions
Include dependencies
Include full resource path
Export Cancel

- 3. Click **Export** to download the zip file.
- **4.** Navigate to the production environment and open the **Server Settings** view from the **Manage** menu.



5. Select **Import** from the settings menu and click **Choose File** to import the downloaded zip folder.

Settings	
General Log Settings Log Collectors Ad Hoc Settings Ad Hoc Cache OLAP Settings	Import Import data file: Choose file No file chosen Import-Export Key: Server Key For your JasperReports Server only. C Legacy Key
Server Attributes Restore Defaults Import Export	For all JasperReports Servers. Key Value: Stored Key: Browse

6. On the same window, make sure to uncheck the **Update** option from the **Import Options** section.

Import		
Import data file:		
Choose file ABC _Logbook.zip		
Import-Export Key:		
Server Key		
For your JasperReports Server only.		
O Legacy Key		
For all JasperReports Servers.		
O Key Value:		
O Stored Key:		
		Browse
Import options:	1	
Update		
Skip user updates		
Include audit events		
✓ Include access events		
Include alerts		
Include monitoring events		
 Include monitoring events Include server settings (settings take effect immediately) 		

7. Click Import to import the report zip folder into the production environment.

Note To validate that the URL on the imported file point to the production environment:

Folders	Run	Edit	Open	Сору	Cut
🗸 🚞 root	O	Name	2		
🔻 🚞 Organizations	☆	Maint	tenixDS	ĸ	
Folder Template				3	
🕶 🚞 Maintenix					
Ad Hoc Components					
Dashboards					
Domains					
Organizations					
Performance					
Reports					
🕨 🚞 Core					
🗸 🚞 Operator					
Finance					
Maintenance					
Materials					
Planning					
- E SharedResources					
🔻 📩 Datasources					
Datatupor					

a. Locate the Maintenix DS folder on the production environment repository as indicated.

- b. Right click on Maintenix DS and select Edit.
- **c.** On the **Edit Data Source Properties** view, validate that the URL field points to the production environment and that the password is accurate (if the UAT and production environments have their unique passwords).

Edit Data Source Properties
Type: JDBC
JDBC Driver:
Oracle (oracle.jdbc.OracleDriver)
Host (required):
Port (required):
Service (required):
URL (required):
jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL
Hint: jdbc:postgresql://localhost:5432/mydb
User Name:
maintenix
Password:
·
Time Zone:
Use database setting
Hint: Do not change the time zone setting unless you know the database timestamp data is incorrect.

d. If any changes were made, click Save.

6 References

1. Knowledge Base - Jaspersoft Community: https://community.jaspersoft.com/knowledgebase/

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