

Base

SFM Data Flow

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Document Summary					
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Products Affected	Exaquantum/SFM				
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Function Affected	SIFs				
Available Resolution	N/A				
Audience	System Integrator, Administrators, Engineer, Users				
Summary	How SIFs are displayed in SFM				
Review Date	Document to be reviewed before Jan 2022				



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Chapter 1 Introduction

This document will describe the data flow that users can follow to investigate why SIFs are not being displayed on the SFM website.

1.1 Audience

This guide is intended for System Integrators, Administrators, Engineers and Users.

Chapter 2 SIF Flow Diagram

2.1 SIF Flow Diagram

If the required SIF is not displayed on the SFM Website follow the below diagram to figure out where in the flow of data the issue has occurred.



2.1.1 SFM Update Job

1. Open the SQL Server Management studio and find the SFM Update under the SQL Server Agent Jobs folder.



- 2. The SFM Update job may be disabled.
- To check this right click on the SFM Update and check to see if Enable is greyed out (this indicated the job is Enabled).
- The SFM Update job could be failing, to check the status of the job right click on the SFM Update and select View History, the pop up will clearly display if the job was successful.
- If the SFM Update job is failing review the message, if required please contact <u>support@ymx.yokogawa.com</u> for further help. The below screen shot is an example of a successful job, if the job has failed the green tick will be replaced with a red cross.

Object Explorer	- # ×								
Connect • 🛃 🛃 🗉 🍸 💈] 🎿	Log File Viewer - MRH2016R320				-			
MRH2016R320 (SQL Sen	ver 12.0.6214.1 - MRH2016R3		📴 Load Log 👩 Export 👩 Refresh 🍸 Filter 🔍 Search						
Security Server Objects		Contrasti Contrasti ArA Lubate SrA Lubate SrM Lubate SrM Lubate SrM Lubate Sold. Server Agent Sold. Server Agent Database Mall	Log file s Date 💎	summary: No filter applied	Step ID	Server	Job Name		
 Replication AlwaysOn High Ava Management Integration Services SQL Server Agent Jobs ARA Set Pend 	ilability Catalogs Jing Build Backup			8/26/2021 3:29:00 PM 8/26/2021 3:28:00 PM 8/26/2021 3:27:00 PM 8/26/2021 3:26:00 PM 8/26/2021 3:26:00 PM 8/26/2021 3:26:00 PM 8/26/2021 3:24:00 PM 8/26/2021 3:23:00 PM		MRH2016R320 MRH2016R320 MRH2016R320 MRH2016R320 MRH2016R320 MRH2016R320 MRH2016R320	SFM Update SFM Update SFM Update SFM Update SFM Update SFM Update SFM Update		
ARA Update AFM Set Full Pr Fit A Update Symbolicy Sympolicy Tob Activity N Activity N Activity N Operators Provide Fror Logs	Process New Job Start Job at Step			8/26/2021 3:22:01 PM 8/26/2021 3:21:00 PM 8/26/2021 3:20:00 PM 8/26/2021 3:18:00 PM		MRH2016R320 MRH2016R320 MRH2016R320 MRH2016R320	SFM Update SFM Update SFM Update SFM Update		
	N Stop Job Script Job as View History Enable Disable	Last Refresh: 8/26/2021 3:30:21 PM Filter: None							
		Y View filter settings	< Selected Date	f row details: 8/26/2021 3:2	9:00 PM		>		
	Start PowerShell Reports	Done (11 records).	Log Step ID Server Job Nam	Ţ					
	Rename Delete						Close		
<	Refresh Properties								

2.1.2 SIF Configured in the LOPA

Open the LOPA file that has been created in Excel and check the SIF has been correctly configured and assigned a related SER trip.

Under the SIFs worksheet tab find the SIF that is missing from the website.

Make sure there is a Trip Name associated with the SIF in the Coolum that is highlighted below.

	A	В	C	D	E	F	G	H	1 I I	J	K	L	M	N	0
1	LOCAL REF	NAME	TRIP NAME 💌	ASSOCIATED TAGS 🛛 🔻	VERSION 💌	IL 🔻	FE/YR 🔻	PFDAvg 🔻	RPU 🔻	SITE 🔻	FACILITY 🔻	AREA 🔻	SYSTEM 🔻	OFFLINE TRIP	ONLINE TRIP 💌
2	1	YMX-001 Feed Gas KO drum Overfilling Protection	SIF-7-1	001OP001	1	1	4.38E-03	0.02283105	STN001	Plant1	Gas	Gas	3231	GAS TR1 OFFLINE	GAS TR1 ONLINE
3	:	2 YMX-002 Feed Gas KO drum Overfilling Protection	SIF-7-2	001OP008	1	1	4.38E-03	0.02283105	STN001	Plant1	Gas	Gas	3232	GAS TR1 OFFLINE	GAS TR1 ONLINE
4		YMX-001 Gas Blowby Protection for Feed Gas KO Drum	SIE-8-1	001OP002	1	а	6.00E-05	0.166666667	STN001	Plant1	Gas	Gas	3231	GAS TR1 OFFLINE	GAS TR1 ONLINE

2.1.3 SER Trip Configured in the LOPA visible on the SFM Website

Open the SER Website and make sure the SER Trip configured for the SIF is showing on the website.

This will be on the Trips page, use the Filter please refer to the SER User Manual Chapter 5.3 Common Components and Functionality.

Exaquantum/SER -	Trips	Sequence of Even	ts		± RD	S-P\Quantumu:	ser *
Trips from 23/02	2/2015	00:00:00 to 24/0	2/2015 23:59:59 ((102 Trips)		▼ Filter •	••
Date/Time ↓		Trip Name	OPC Server	Source	Message		
24 Feb 2015 08:20:44.000)	SIF-7-1	CAMS	2FIC1103	2FIC1103 Flow Lower LineB UnitC PV = 50.0 KM3/H LO Recover		
24 Feb 2015 08:20:44.000)	SIF-7-2	CAMS	2FIC1102	2FIC1102 Flow Lower LineB UnitC PV = 50.0 KM3/H LO Recover		

2.1.4 SER Trip Correctly Configured

Open the SER configurator and check the trip is correctly configured, check the attributes match the alarm coming in from the DCS.

F	Exaquantum/SER X						J	
E <mark>xa</mark> qua	a 1	itum <mark>.</mark>	SER	Trip Configurat	ion			
vent Source								
CAMSHIS •	Order	Trip Name	Descript	ion	R	un Mode		
uppt Calappru	1	SIF-7-1	tewt			Enabled		
Engineering Maintenance Mode/Status Change			Tri	p Report Conditio	on Defin	ition		
Operation Guidance Message		Event Source	Event Category					
Process Alarm		CAMSHIS	Process Alarm					
Sequence Message								
System Alarm		Trip Name	De	scription				
		SIF-7-1	te	vt				
		Trip Report Details						
		Pre Trip Span	Post Tr	p Span				
		0 - Seconda	0	- Seconda				
		P _ Securios	*					
			Y	Depart Ta	ac	Υ Y	Report Even	
		Conditi	ons	report ra	90		Report Eren	t Details
		Conditions	ons	Report 1a	90		Report Even	t Details
	4	Conditions	ons [_	Report Ta	-9*		https://www.	t Details
< III >		Conditions	Tag	Report Ta	OPE.	Value		And/Or
< III >	_	Conditions Conditions Attribute/1 Message	Tag (String)	Repuirt in	OPE.	Value "Lower"	report even	And/Or
< <u>m</u> >	_	Conditions	ons _ [5g	Report 1 a	OPE	Value "Lower"		And/Or
< <u>III</u> >		Conditions	rag (String) +) →)	NG NG	0PE.	Value *Lower*		And/Or Simulation

This will be on the Sequence of Events page on the SER website, use the Filter to find the Alarm that should cause the Trip to do this please refer to the SER User Manual Chapter 5.3 Common Components and Functionality.

Chapter 3 Further Investigation

For further investigations please contact Yokogawa Customer Support

Customer.services@ymx.yokogawa.com

Please raise a call and fill in the Customer Support Initial Call Logging Sheet.

Chapter 4 Further Reading

For more information on SFM please review the following documents:

- IM 36J40B21-01EN SFM User Manual
- IM 36J40B25-01EN SFM Engineering Guide

If you require further information, please contact Yokogawa Customer Support

Customer.services@ymx.yokogawa.com

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Highlights

The Highlights section gives details of the changes made since the previous issue of this document.

Summary of Changes

This is Issue 1.0 of the document related to Product Library version 1.0.

Detail of Changes

The changes are as follows:

Chapter/Section/Page	Change