



# **DWC Monitoring dashboard**

## Goal

Use DWC monitoring tables to monitor runnings jobs on the DWC environment





# **DWC Monitoring dashboard**

#### Relevant DWC BC tables with statistics: (when monitoring is activated)

- TASK LOCKS V EXT
  - Table with unfinished tasks
- TASK LOG MESSAGES V EXT
  - Table with messages for each task
- TASK\_LOGS\_V\_EXT
  - Table with each task
- TASK\_SCHEDULES\_V\_EXT
  - Table with schedule for each application/space/object

https://help.sap.com/doc/653e215be007410e80e64dfc537ef2d0/cloud/en-US/SAP Data Warehouse Cloud Administrator Guide.pdf (starting page 264)

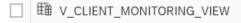




# **DWC Monitoring dashboard**

## Prerequisites for consuming SQL view in SAC build in DWC:

- Semantic Usage >> "Analytical Dataset"
- Expose for Consumption >> On (default setting)
- Status >> Deployed



V\_CLIENT\_MONITORING\_VIEW

View (Analytical Dataset)

(L) Deployed

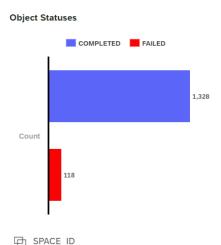


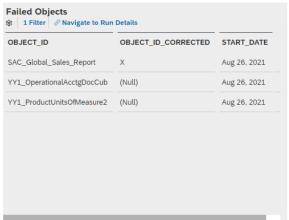


# **DWC Monitoring impression – Monitor page**

## **DWC Monitoring Dashboard**







M 2	Oct 27, 2021 8:06:04 PM		
		YY1_BillingDocumentHeader	201772
AM 2	Oct 31, 2021 12:00:19 AM	YY1_ProductionOrderItem	203324
M 2	Nov 2, 2021 10:15:03 AM	YY1_MaterialStock	204484
M	Nov 2, 2021 10:15:03 AM	YY1_MaterialStock	204484

Show Inactive Values

✓ All IGMPROD





# **DWC Monitoring impression – Run Details page**

#### **DWC Monitoring Dashboard**



Error Details  Navigate to Lock Details	11			
OBJECT_ID	TASK_LOG_ID	START_TIME	STATUS	
SAC_Global_Sales_Report	159067	Aug 26, 2021 12:00:08 AM	FAILED	2
	159097	Aug 26, 2021 1:00:06 AM	FAILED	2
	159128	Aug 26, 2021 2:00:09 AM	FAILED	2
	159159	Aug 26, 2021 3:00:05 AM	FAILED	2
	159190	Aug 26, 2021 4:00:06 AM	FAILED	2
	159221	Aug 26, 2021 5:00:09 AM	FAILED	2
	159246	Aug 26, 2021 6:00:24 AM	FAILED	2
	159268	Aug 26, 2021 7:00:16 AM	FAILED	2
	159299	Aug 26, 2021 8:00:07 AM	FAILED	2
	159330	Aug 26, 2021 9:00:06 AM	FAILED	2
	159361	Aug 26, 2021 10:00:05 AM	FAILED	2
	159392	Aug 26, 2021 11:00:06 AM	FAILED	2
	159423	Aug 26, 2021 12:00:07 PM	FAILED	2
	159436	Aug 26, 2021 12:25:46 PM	COMPLETED	2
	159456	Aug 26, 2021 1:00:05 PM	COMPLETED	2
	159487	Aug 26, 2021 2:00:05 PM	COMPLETED	2

			interdobs		
Task Message	es .				
TASK_LOG_ID	MESSAGE_NO	SEVERITY	TEXT	START_DATE	
159067	1	INFO	Task 159067 started.	Aug 26, 2021	2
	2	WARNING	Failed to takeover existing task.	Aug 26, 2021	2
	3	WARNING	Error checking for parallel executions. Another task is probably running and blocking this task.	Aug 26, 2021	2
	4	WARNING	A conflicting task is already running.	Aug 26, 2021	2





# **DWC Monitoring impression – Lock Details page**

### **DWC Monitoring Dashboard**

**Details locked objects** 



®			
OBJECT	START_TIME	TEXT	
YY1_BillingDocumentHeader	Oct 27, 2021 8:06:04 PM	Replicating data for YY1_BillingDocumentHeader in BATCH mode.	1
		Task 201772 started.	1
YY1_MaterialStock	Nov 2, 2021 10:15:03 AM	Replicating data for YY1_MaterialStock in BATCH mode.	1
		Task 204484 started.	1
YY1_ProductionOrderItem	Oct 31, 2021 12:00:16 AM	Replicating data for YY1_ProductionOrderItem in BATCH mode.	1
		Task 203324 started.	1

Latest job details (relate	ed to locked objects)		
OBJECT	LOG_START_TIME	MSG_TEXT	
/Y1_BillingDocumentHeader	Nov 4, 2021 1:06:07 PM	A conflicting task is already running.	1
		Error checking for parallel executions. Another task is probably running and blocking this task.	1
		Task 205524 started.	1
		Task REMOTE_TABLES/REPLICATE/IGMPROD/YY1_BillingDocumentHeader failed to take existing lock WRITE/REMOTE_TABLES/IGMPROD/YY1_BillingDocumentHeader	1





## **DWC Monitoring views**

#### We have used views have been build for the DWC Monitoring dashboard:

- 1. V\_CLIENT\_MONITORING\_VIEW; View that combines the relevant monitoring tables with measures like "Duration" and different counters (see link on bottom of this slide for more details about this view)
- 2. V\_TASK\_LOG\_MESSAGES\_V\_EXT; View that contains the tasks and the related messages
- 3. MON\_LOCK\_TASK\_DETAILS; View looks at the tasks that are running in the system (thus lock objects) and collects the corresponding messages
- 4. MON\_LOCK\_LOG\_TASK\_DETAILS; View looks at the tasks that are causing locks in the system and collects the messages of the latest failed task related to the same application/space/object combination in DWC

https://blogs.sap.com/2021/10/12/sap-data-warehouse-cloud-data-integration-monitoring-sample-content-for-reporting/





## **DWC Monitoring objects (with linked views)**

#### **Page: Monitor**

- 1. Graph "Object Statuses" uses view V\_CLIENT\_MONITORING\_VIEW1
- 2. Table "Failed Objects" uses view V CLIENT MONITORING VIEW1
- 3. Table "Locked Objects" uses view MON\_LOCK\_TASK\_DETAILS

#### **Page: Run Details**

- 1. Table "Error Details" uses view V\_CLIENT\_MONITORING\_VIEW1
- 2. Table "Task Messages" uses view V\_TASK\_LOG\_MESSAGES\_V\_EXT2

#### **Page Lock Details**

- 1. Table "Details locked objects" uses view MON\_LOCK\_TASK\_DETAILS
- 2. Table "Latest job details (related to locked objects)" uses view MON\_LOCK\_FAILED\_TASK\_DETAILS





# **V\_CLIENT\_MONITORING\_VIEW**

View following hyperlink for SQL view details:

https://blogs.sap.com/2021/10/12/sap-data-warehouse-cloud-data-integration-monitoring-sample-content-for-reporting/





# V\_TASK\_LOG\_MESSAGES\_V\_EXT

```
SELECT 1 as counter,
base."TASK_LOG_ID",
"MESSAGE_NO",
"SEVERITY",
"TEXT",
"DETAILS",
"SPACE ID",
"APPLICATION ID",
"OBJECT ID",
"ACTIVITY",
"STATUS",
to_date(base."START_DATE") "START_DATE"
FROM "TASK_LOGS_V_EXT" as base
LEFT outer JOIN "TASK LOG MESSAGES V EXT" as log
ON base."TASK LOG ID" = log."TASK LOG ID"
```





## MON\_LOCK\_LOG\_TASK\_DETAILS

SELECT "LOCK"."APPLICATION ID" AS "APPLICATION", "LOCK"."SPACE ID" as "SPACE", "LOCK"."OBJECT ID" as "OBJECT", "LOCK"."TASK LOG ID" AS "LOCK TASK ID", 7"LOCK". "CREATION TIME" AS "LOCK CREATION TIME",

"LOGS"."TASK LOG ID" AS "LOG TASK ID","LOGS"."START TIME" AS "LOG START TIME",

"MSG"."MESSAGE NO" AS "LOG MESSAGE NO","MSG"."SEVERITY" AS "MSG SEVERITY","MSG"."TEXT" AS "MSG TEXT","MSG"."DETAILS" AS "MSG DETAILS",

1 AS "COUNTER"

from "TASK LOCKS V EXT" as "LOCK"

left outer join "TASK\_LOGS\_V\_EXT" AS "LOGS" ON

"LOCK"."APPLICATION ID" = "LOGS"."APPLICATION ID" AND

"LOCK". "SPACE ID" = "LOGS". "SPACE ID" AND

"LOCK"."OBJECT ID" = "LOGS"."OBJECT ID"

left outer join "TASK LOG MESSAGES V EXT" AS "MSG" ON

"LOGS"."TASK LOG ID" = "MSG"."TASK LOG ID"

WHERE "LOGS". "STATUS" = 'FAILED'

AND "LOGS". "TASK LOG ID" = (

select MAX("LOGS MAX"."TASK LOG ID")a

from "TASK LOGS V EXT" as "LOGS MAX" WHERE

"LOGS MAX"."STATUS" = 'FAILED' AND

"LOCK"."APPLICATION ID" = "LOGS MAX"."APPLICATION ID" AND

"LOCK". "SPACE ID" = "LOGS MAX". "SPACE ID" AND

"LOCK"."OBJECT ID" = "LOGS MAX"."OBJECT ID")

group by "LOCK"."APPLICATION ID", "LOCK". "SPACE ID", "LOCK". "OBJECT ID", "LOCK". "TASK LOG ID", "LOCK". "CREATION TIME",

"LOGS"."TASK LOG ID","LOGS"."START TIME",

"MSG"."MESSAGE NO","MSG"."SEVERITY","MSG"."TEXT","MSG"."DETAILS"

order by "LOCK"."APPLICATION ID", "LOCK". "SPACE ID", "LOCK". "OBJECT ID", "LOCK". "TASK LOG ID", "LOCK". "CREATION TIME",

"LOGS"."TASK LOG ID","LOGS"."START TIME",

"MSG"."MESSAGE\_NO","MSG"."SEVERITY","MSG"."TEXT","MSG"."DETAILS"





## MON\_LOCK\_TASK\_DETAILS

"MSG"."MESSAGE NO", "MSG". "SEVERITY", "MSG". "TEXT", "MSG". "DETAILS"

```
SELECT "LOCK". "APPLICATION ID" AS "APPLICATION", "LOCK". "SPACE ID" as "SPACE", "LOCK". "OBJECT ID" as "OBJECT", "LOCK". "TASK LOG ID" AS
"LOCK TASK ID", "LOCK". "CREATION TIME" AS "LOCK CREATION TIME",
"LOGS"."TASK LOG ID" AS "LOG TASK ID","LOGS"."START TIME" AS "LOG START TIME",
"MSG"."MESSAGE NO" AS " LOG MESSAGE NO","MSG"."SEVERITY" AS "MSG SEVERITY","MSG"."TEXT" AS "MSG TEXT","MSG"."DETAILS",
1 AS "COUNTER"
from "TASK LOCKS V EXT" as "LOCK"
left outer join "TASK LOGS V EXT" AS "LOGS" ON
"LOCK"."TASK LOG ID" = "LOGS"."TASK LOG ID"
left outer join "TASK LOG MESSAGES V EXT" AS "MSG" ON
"LOCK"."TASK LOG ID" = "MSG"."TASK LOG ID"
group by "LOCK"."APPLICATION ID", "LOCK"."SPACE ID", "LOCK"."OBJECT ID", "LOCK"."TASK LOG ID", "LOCK"."CREATION TIME",
"LOGS"."TASK LOG ID","LOGS"."START TIME",
"MSG"."MESSAGE NO", "MSG". "SEVERITY", "MSG". "TEXT", "MSG". "DETAILS"
order by "LOCK"."APPLICATION ID", "LOCK"."SPACE ID", "LOCK"."OBJECT ID", "LOCK"."TASK LOG ID", "LOCK". "CREATION TIME",
"LOGS". "TASK LOG ID", "LOGS". "START TIME",
```







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Filter				
Model		Dimension	Value	
V_CLIENT_MONIT	ORING_VIEW1	START_DATE	Aug 26, 2021	
odel Links				
	V CLIENT MONITORING VIEW1	- V TASK LOG MESS	ACES V EVTS	
Model Dimension	TASK LOG ID	- TASK LOG ID		
	START DATE	- START DATE		
Dimension	MON LOCK TASK DETAILS	- MON LOCK FAILED TASK DETAILS		
		- MON_LOCK_FAILED_TASK_DETAILS - OBJECT		
Dimension	OBJECT	- OBJECT		
onitor				
ige Filter				
Model Model		Dimension	Value	
	ODING MEWA	SPACE ID	(All)	
V_CLIENT_MONITORING_VIEW1		SFACE_ID	(All)	
V CLIENT MONITOR	RING VIEW			
Model	-	Dimension	Value	
V_CLIENT_MONIT	ORING VIEW	Measures	Count Completed	
Failed Objects				
Model		Dimension	Value	
V_CLIENT_MONIT	ORING VIEW1	Measures	Count	
V_CLIENT_MONIT		STATUS	FAILED	
Locked Objects	01010_1011	10111100	1110000	
Model		Dimension	Value	
MON_LOCK_TASK	PETALIS	Measures	COUNTER	
MON_EOGN_TAGE	CDETALO	motoures	COUNTER	
ın Details				
Error Details				
Model		Dimension	Value	
V_CLIENT_MONIT	ORING_VIEW1	Measures	Count	
Task Messages				
Model		Dimension	Value	
V_TASK_LOG_ME	SSAGES_V_EXT2	Measures	counter	
	<u> </u>			
ck Details				
Latest job details (rela	stad to lanked objects)			
Model Model	ited to locked objects)	Dimension	Value	
	ED TAOK DETAILO	Dimension Measures	COUNTER	
	ED_TASK_DETAILS	Measures	COUNTER	
Details locked objects		I	I	
Model		Dimension	Value	
MON_LOCK_TASK		Measures		

# Interdobs

Reitscheweg 47 5232 BX Den Bosch

Tel: +31 85 484 1984

Email: info@interdobs.nl

Web: www.interdobs.nl

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