

DvSum SAP Connector Setup Guide

Version 3.0

1





Table of Contents

Table of Contents	2
Introduction	3
Support	3
DvSum Gateway Components	4
Installation – Dynamic Read	6
User Profile & Authorization – Non-Dialog User	10
Installation – Material Master Write-back	11
Installation – Customer Master Write-back	15
User Profile & Authorizations – Dialog Users	19
DvSum User Configuration	21



Introduction

SAP is a transactional system. DvSum is an external application that reads and writes into SAP. DvSum does bulk read queries to SAP and can do mass update (write-back) operations. DvSum connector includes all the drivers required to make connections to different data sources like RDBMS, Excel Files, Flat Files, REST services. For making connections to SAP ECC, DvSum provides an RFC-enabled BAPI that is optimized to handle data query type of requests utilized in DvSum. This follows SAP's recommendation for how external connections should be made to ECC. Additional details below.



1.1 Data Flow

- Connector requests and receives instructions from Cloud
- Connector calls RFC-enabled Function Module on SAP using JCO
- Connector processes results and passes to DvSum Cloud

Support

For any questions regarding Account Information, Technical Support or inquire about our additional services, you can contact us 24x7 on the following channels.

Self-service Help Desk	https://dvsum.zendesk.com/hc OR Click on Help on the left navigation in the UI
Email support (fastest response)	support@dvsum.com
Phone	1.844.855.3282



DvSum Gateway Components

2 Components

2.1 DvSum Connector

DvSum Connector is a light-weight J2EE compliant service that makes connections to the data sources and generates information used in the DvSum processes. The connector is a unified service that encapsulates native data connection drivers (e.g. JDBC, ODBC, SAP JCo, etc.), scheduler, connection routing, security, and server that handles requests. A single connector is required across the entire enterprise with ability to service multiple data sources and users. DvSum connector can also be integrated to ESB middleware to make connections to underlying data sources. (E.g. TIBCO EMS, WebMethods, IBM MQ, Oracle Fusion, Mulesoft, etc.)

2.2 SAP Function Module

For making connections to SAP ECC, DvSum provides an RFC-enabled BAPI that is optimized to handle data query type of requests utilized in DvSum.

1. Dynamic Query Objects

Package: ZDVSUM Function Group: ZDVSUM_FUNCTION_GROUP Function Module: ZDVSUM_DYNAMIC_QUERY Structure: ZSSDYNA_QUERY

2. Product Write back API Objects

Package: ZDVSUM_CUSTOM Function Group: ZDVSUM_PRODUCT Function Module: ZDVSUM DYNAMIC PRODUCT SAVE

3. Custom Table Write back API Objects

Package: ZDVSUM_CUSTOM Function Group: ZDVSUM_CUSTOM Function Module: ZDVSUM_DYNAMIC_CUSTOM_SAVE Structure: ZDVSUM_CUSTOM_TABLE_HEADER ZDVSUM_CUSTOM_TABLE_RETURN ZDVSUM_CUSTOM_TABLE_VALUE

Table: ZDVSUM_CUST_LOG



DvSum Gateway Components

Below is the snapshot of the Function Modules that are installed inside SAP for DvSum to perform its actions with SAP.

- 🖾 Modifiable				
□ I53K900234 IS	RUSER9 DvSum	m API : Dynamic	Query / Product	/ Custom - 16102019
C Object List of	Request			
Function Mo	dule			
ZDVSUM_ ZDVSUM_ ZDVSUM_	DYNAMIC_CUSTOM_S DYNAMIC_PRODUCT_ DYNAMIC_QUERY	AVE SAVE		
- @ Report Sour	ce Code			
				-
ZDVS0M_	CUSTOM			L
- 🖻 Data Elemer - 🗁 Function Gr	it coup			
ZDVSUM_ ZDVSUM_ ZDVSUM_	CUSTOM FUNCTION_GROUP PRODUCT			
- Table				
ZDVSUM ZDVSUM ZDVSUM ZDVSUM ZDVSUM ZSSDYNA	CUSTOM_TABLE_HEA CUSTOM_TABLE_RET CUSTOM_TABLE_VAL CUST_LOG LOG A_QUERY	DER URN UE		



Installation – Dynamic Read

3 Instructions

3.1 Download the Zip file

Download the following transports from this location

https://dvsum.zendesk.com/hc/en-us/articles/360043550373

1-DvSum-SAP-Transport-Read.zip (50 KB)

2-DvSum-SAP-Transport-MM-Write.zip (40 KB)

3-DvSum-SAP-Transport-Custom-Table.zip (20 KB)

4-DvSum-SAP Transport-Cust-Write1.zip (30 KB)

5-DvSum-SAP-Transport-Cust-Write2.zip (20 KB)

3.2 Logon on SAP and run the Transaction Code: CG3Z

3.2.1 Upload Co-Files

- Specify the relevant Co-File (e.g. K900234.I53) in Source File
 - Target file https://www.sapmnt.trans.cofiles/ K900234.I53

🕞 Upload File: Parameters	×
Source file on front end	
C:\Users\Bhasin\Desktop\DvSum Dynamic Query V1.1\K900572.EH6	D
Target file on application server	
\\bpcserver\sapmnt\trans\cofiles\K900572.EH6	
Transfer format for data BIN Overwrite file	

3.2.2 Upload Data File

- Specify the Data File (e.g.R900234.I53) in Source File
- Target file <u>\\<servername>\sapmnt\trans\data</u>\ **R900234.I53**



🕞 Upload File: Parameters	×
Source file on front end	
C:\Users\Bhasin\Desktop\DvSum Dynamic Query V1.1\R900572.EH6	ð
Target file on application server	
\\bpcserver\sapmnt\trans\data\R900572.EH6	
Transfer format for data BIN Overwrite file	_

3.3 Run Transaction Code: STMS

3.3.1 Click on Import Overview



3.3.2 Click on Import Queue Based on Target System

Impor	t Overview: Domain DOMAIN_EH6
🔁 ᡝ &	r ቿ 🋲 🚾 🖉 📰 🔝
具 Numbe:	r of import queues: 1
Queue	Description
EH6	System EH6



3.3.3 Click on Extras > Other Request>Add

t	Extr <u>a</u> s En <u>v</u> ironment	S <u>v</u> stem <u>H</u> elp		
3	<u>L</u> egend P <u>e</u> rsonal Settings	Ctrl+Shift+F4 Ctrl+Shift+F12	💭 🗖 😨 🖳	
El	Other Requests	•	<u>A</u> dd	
₽	Activate Inactive Rec	luests	Find in Other Groups	
_	Delete <u>I</u> mported Req	uests		
			-	

3.3.4 Add the Transport Request I53K900234 and Click Ok

🔄 Add Transport Re	quest to Import	Queue	×
Transp. Request	153K900234	þ	
Import Queue	153	System I53	
Import Again			

3.3.5 The Transport I53K900234 is now part of Import Queue

- 3.3.6 Import the Transport by Clicking on Import Request
- 3.3.7 Below are the objects Part of Transport





- 🖻 Modifiable				
□ I53K900234 I	SRUSER9 DvSumm API	: Dynamic Query /	/ Product / Custom -	16102019
C Object List of	Request			
G Function M	odule			
ZDVSUM ZDVSUM ZDVSUM	_DYNAMIC_CUSTOM_SAVE _DYNAMIC_PRODUCT_SAVE _DYNAMIC_QUERY			
- @ Report Sou - @ Package	rce Code			
	_CUSTOM			3
🗗 Data Eleme 🕞 Function G	nt roup			
ZDVSUM ZDVSUM ZDVSUM	_CUSTOM _FUNCTION_GROUP _PRODUCT			
L_C Table				
ZDVSUM ZDVSUM ZDVSUM ZDVSUM ZDVSUM ZDVSUM ZSSDYN	_CUSTOM_TABLE_HEADER _CUSTOM_TABLE_RETURN _CUST_LOG _LOG A_QUERY			

User Profile & Authorization – Non-Dialog User

4 Non-dialog user

A non-dialog user needs to be created in SAP in order to execute the ZDVSUM_DYNAMIC* functions to perform read operations on SAP. DvSum does not use individual user's profile and authorizations for read operations.

4.1 Authorization Controls

DvSum Data Management application Reads data through SAP function module (ZDVSUM_DYNAMIC_QUERY) via transaction code SE11.

Non-dialog user must have authorization object '**S_RFC**' with authorization value is '**ZDVSUM_FUNCTION_GROUP**', which is required to connect DvSum to SAP.

User must have relevant authorizations to read data from SAP.

Security	The non-dialog and dialog user running the API should have access to below SAP Transaction codes
	- SE37 /SE11

5 Instructions

5.1 Download the Zip file

Download the following transports from this location

https://dvsum.zendesk.com/hc/en-us/articles/360043550373

DvSum SAP Connector Installation Instructions v2.0.pdf (400 KB) 1-DvSum-SAP-Transport-Read.zip (50 KB) 2-DvSum-SAP-Transport-MM-Write.zip (40 KB) 3-DvSum-SAP-Transport-Custom-Table.zip (20 KB) 4-DvSum-SAP_Transport-Cust-Write1.zip (30 KB) 5-DvSum-SAP-Transport-Cust-Write2.zip (20 KB)

Please note, to execute these transports, you should have already executed the 1-DvSum-SAP-Transport-Read.zip. Below Steps should be executed for each of the 2 transports.

5.2 Logon on SAP and run the Transaction Code: CG3Z

5.2.1 Upload Co-Files

- Specify the relevant Co-File (e.g. K900234.I53) in Source File
- Target file https://www.sapmnt/trans/cofiles/ K900234.I53

🔄 Upload File: Parameters			×
Source file on front end			
C:\Users\Bhasin\Desktop\DvSum [Dynamic Qu	ery V1.1\K900572.EH6	٥
Target file on application server			_
\\bpcserver\sapmnt\trans\co	ofiles\K90	00572.EH6	
Transfer format for data	BIN	Overwrite file	

11



Installation – Material Master Write-back

5.2.2 Upload Data File

- Specify the Data File (e.g.R900234.I53) in Source File
- Target file <u>\\<servername>\sapmnt\trans\data</u>\ **R900234.I53**

🔄 Upload File: Parameters	×
Source file on front end	
C:\Users\Bhasin\Desktop\DvSum Dynamic Query V1.1\R900572.EH6	٥
Target file on application server	
\\bpcserver\sapmnt\trans\data\R900572.EH6	
Transfer format for data BIN Overwrite file	_

5.3 Run Transaction Code: STMS

5.3.1 Click on Import Overview

Transport Management System			
🔜 这 👌 🕹 🕾 📣 🕮 🖪			
Import Overview (F5)			
System	ЕН6	System EH6	
Transp. Domain	DOMAIN_EH6	Transport domain EH6	



Installation – Material Master Write-back

5.3.2 Click on Import Queue Based on Target System

Import Overview: Domain DOMAIN_EH6			
🔁 ᡝ &	🚱 🆆 🗞 🚍 🛲 宽 🛃 📰 😰		
具 Numbe:	r of import queues: 1		
0	Beneviction		
Queue	Description		
EH6	System EH6		

5.3.3 Click on Extras > Other Request>Add

t	Extr <u>a</u> s	En <u>v</u> ironment	S <u>v</u> stem	<u>H</u> elp	-	
3	<u>L</u> ege P <u>e</u> rs	end onal Settings	Ctrl+Shif Ctrl+Shift	t+F4 +F12	💭 🗾 🕜 🖳	
Eł	<u>O</u> the	er Requests		•	<u>A</u> dd	
B	Acti	/ate I <u>n</u> active Rec	uests		Find in Other Groups	
	Dele	te <u>I</u> mported Req	uests			_
					-	

5.3.4 Add the Transport Request I53K900234 and Click Ok

🖻 Add Transport Request to Import Queue 🛛 🗙		
Transp. Request	I53K900234	
Import Queue	153	System I53
Import Again		

5.3.5 The Transport I53K900234 is now part of Import Queue



5.3.6 Import the Transport by Clicking on Import Request

5.3.7 Below are the objects Part of Transport

-0	Modifiable	
L	IS3K900234 ISRUSER9 DvSumm API : Dynamic Query / Product / Custom - 16102019	
	Dbject List of Request	
	- E Function Module	
	ZDVSUM_DYNAMIC_CUSTOM_SAVE ZDVSUM_DYNAMIC_PRODUCT_SAVE ZDVSUM_DYNAMIC_QUERY	
	- @ Report Source Code	
	- C Package	
	Data Element Function Group	
	ZDVSUM CUSTOM	
	ZDVSUM_FUNCTION_GROUP	
	ZDVSUM_PRODUCT	
	Table	
	ZDVSUM_CUSTOM_TABLE_HEADER	
	ZDVSUM_CUSTOM_TABLE_RETURN	
	ZDVSUM_CUST_LOG	
	ZDVSUM_LOG	
	ZSSDYNA_QUERY	



Installation – Customer Master Write-back

5.4 Download the Zip file(s)

Download the following transports from this location

https://dvsum.zendesk.com/hc/en-us/articles/360043550373

DvSum SAP Connector Installation Instructions v2.0.pdf (400 KB) 1-DvSum-SAP-Transport-Read.zip (50 KB) 2-DvSum-SAP-Transport-MM-Write.zip (40 KB) 3-DvSum-SAP-Transport-Custom-Table.zip (20 KB) 4-DvSum-SAP_Transport-Cust-Write1.zip (30 KB) 5-DvSum-SAP-Transport-Cust-Write2.zip (20 KB)

Please note, to execute these transports, you should have already executed the previous 3 transports.

Below Steps should be executed for each of the 2 transports.

5.5 Logon on SAP and run the Transaction Code: CG3Z

5.5.1 Upload Co-Files

- Specify the Co-File (e.g. K900368.I53) in Source File
- Target file \\<servername>\sapmnt\trans\cofiles\ K900368.I53

Note: Given the sample screen below, path and file name will be changed as per the environment.

🔄 Upload File: Parameters	×
Source file on front end	
C:\Users\Bhasin\Desktop\DvSum Dynamic Query V1.1\K900572.EH6	D
Target file on application server	-
\\bpcserver\sapmnt\trans\cofiles\K900572.EH6	
Transfer format for data BIN Overwrite file	

5.5.2 Upload Data File

- Specify the Data File (e.g. R900368.I53) in Source File



- Target file <u>\\<servername>\sapmnt\trans\data</u>\ **R900368.I53**

Note: Given the sample screen below, path and file name will be changed as per the environment.

🕞 Upload File: Parameters	×
Source file on front end	
C:\Users\Bhasin\Desktop\DvSum Dynamic Query V1.1\R900572.EH6	đ
Target file on application server	
\\bpcserver\sapmnt\trans\data\R900572.EH6	
Transfer format for data BIN Overwrite file	_

5.6 Run Transaction Code: STMS

5.6.1 Click on Import Overview

Transport Management System			
🔜 ሯ 🕥 🖧 🔊 📣 🕮 🖪			
Import Overview (F5)			
System	ЕН6	System EH6	
Transp. Domain	DOMAIN_EH6	Transport domain EH6	

5.6.2 Click on Import Queue Based on Target System

Impor	Import Overview: Domain DOMAIN_EH6			
🔁 ᡝ &	🚱 🆆 🎸 🚍 🋲 🚾 🗸 📰 🔝			
具 Numbe:	r of import queues: 1			
Queue	Description			
EH6	System EH6			



Installation – Customer Master Write-back

5.6.3 Click on Extras > Other Request>Add

t	Extr <u>a</u> s En <u>v</u> ironment	S <u>v</u> stem	<u>H</u> elp		
2	<u>L</u> egend P <u>e</u> rsonal Settings	Ctrl+Shift+ Ctrl+Shift+F	+F4 -12	두 🗾 🕜 🖳	
El	Other Requests		•	<u>A</u> dd	
B	Activate Inactive Rec	quests		Find in Other Groups	
	Delete <u>I</u> mported Rec	luests			·
				,	

5.6.4 Add the Transport Request I53K900368 and Click Ok

Note: Given the sample screen below, transport request will be changed as per the environment.

🔄 Add Transport Request to Import Queue			
Transp. Request	153K900234		
Import Queue	I53 System	153	
Import Again			

- 5.6.5 The Transport I53K900368 is now part of Import Queue
- 5.6.6 Import the Transport by Clicking on Import Request
- 5.6.7 Below are the objects Part of Transport



- E Transport of copies Transport of copies
-> I53 System I53
E Released
□ I53K900368 - ISR8 TOC: DvSum API : Customer Master Data update Development !
Comment: Object List Included 153K900348 20210907 173104 ISR8 C Function Group 2DVSUM_CUSTOMER
Table ZDVSUM_CUSTOMER ZDVSUM_CUSTOMER_CENTRAL_DATA ZDVSUM_CUSTOMER_COMPANY ZDVSUM_CUSTOMER_MASTER_LICENSE ZDVSUM_CUSTOMER_SALES ZDVSUM_CUSTOMER_TAX_INDICATOR

1. Customer Master Data Write back API Objects

Function Group: ZDVSUM_CUSTOMER Function Module: ZDVSUM_DYNAMIC_CUSTOMER_SAVE Structure: ZDVSUM_CUSTOMER ZDVSUM_CUSTOMER_CENTRAL_DATA ZDVSUM_CUSTOMER_COMPANY ZDVSUM_CUSTOMER_MASTER_LICENSE ZDVSUM_CUSTOMER_SALES ZDVSUM_CUSTOMER_TAX_INDICATOR

5.7 DvSum Customer Master Write-back Authorization Controls

To write back into the SAP, we have list down following authorization needs to be in place in SAP -

1. User must have authorization object '**S_RFC**' with authorization value is '**ZDVSUM_CUSTOMER**', which is required to connect DvSum to SAP.

2. User must have relevant Organization levels authorization in place, i.e., Company Code, Sales Organization, Distribution Channel, Division etc.

3. User must have relevant authorizations to change in the Customer Master data in SAP.

6 Dialog Users

When data update (write-back) operations are to be performed for cleansing the data and writing it back into SAP, DvSum uses the specific user's credentials and profile to execute the write-back. This is to ensure that correct audit trail information is generated.

DvSum Administrator(s) of the Client should contact their SAP BASIS team to create the appropriate profile and authorize users on those profiles. An example is shown below.

Display of Entries Found								
🔁 🏗								
Table to be searched	AGR_1251	Authorization	data for the activity gr	roup				
Number of hits	2.955							
Runtime	0	Maximum no.	of hits					
	ID Authorization object		Variant Field name	Authorization value	and Object stat	ID whether object is deleted ID whether object is conj	ID whather object is new	ID
7P2CPCUCOO ALL LICEPC DACIC		7825801150000	PEC NAME	75C LOCON SYNC	und object stor	To whether object is deleted to whether object is cop	O WINCONCI ODJECE IS THEM	6
7R3SBCUSOD_ALL_USERS_BASIS	60 S REC	7R3SBCUS0000	REC NAME	7PRREO	0		0	6
ZR3SBCUSIO_ALL_USERS_BASIS	SQ S REC	ZR35BCU50000	REC NAME	7DR IDMS	0		0	6
7P35BCU500_ALL_05ER5_BASIS	59 5_RFC	2R33BC030000	REC NAME	ZPODADI	0		0	6
ZR35BCU500_ALL_05ER5_BASIS	62 S REC	ZR35BCU50000	REC NAME	7HR WERDAN	0		0	6
7P35BCU500_ALL_05ER5_BASIS	62 S_RFC	2R33BC030000	REC NAME		0		0	6
ZR3SBC0300_ALL_03LR3_BASIS	234 S REC	ZR38MMU507	REC NAME	7DVSUM*	6		0	0
ZP2PMMUS07_PURCH_PARTS_BUT	200 S REC	20200000000000000000000000000000000000	REC NAME	ZOVSUM PRODUCT			ő	0
ZR3RMMUS07_PURCH_PARTS_BUT	289 S. REC	ZR3RMMUS07	REC NAME	ZDVSUM_FUNCTION_GROUP	6		0	0
ZR3RMMUS07_PURCH_PARTS_BUY	288 S REC	ZR3RMMUS07	REC NAME	ZDVSUM_CUSTOM	6		0	0
78358CUS00 ALL USERS RASIS	64 S REC	ZR358(1150000	REC NAME	SYSII			0	6
ZR3SBCUS00 ALL USERS BASIS	65 S REC	7R35BCU50000	REC NAME	SYST			0	6
ZR35BCUS00_ALL_USERS_BASIS	66 S REC	ZR35BCU50000	REC NAME	SWRC	Ű		0	6
ZR3SBCUS00 ALL USERS BASIS	67 S RFC	ZR3SBCUS0000	REC NAME	SWOR	Ŭ		0	6
ZR35BCUS00_ALL_USERS_BASIS	68 S REC	ZR35BCU50000	REC NAME	SWK1	Ű		0	6
ZR3SBCUS00 ALL USERS BASIS	69 S RFC	ZR3SBCUS0000	RFC NAME	SWF VMD READ	Ŭ		0	6
ZR3SBCUS00 ALL USERS BASIS	71 S RFC	ZR3SBCUS0000	RFC NAME	SUSW	U		0	6
ZR35BCUS00 ALL USERS BASIS	54 S RFC	ZR3SBCUS0000	REC NAME	SUSO	Ű		0	6
ZR3SBCUS00 ALL USERS BASIS	37 S RFC	ZR3SBCUS0000	RFC NAME	SURL	U		0	6
ZR35BCUS00 ALL USERS BASIS	70 S RFC	ZR3SBCUS0000	REC NAME	SU USER	Ű		0	6
ZR35BCUS00 ALL USERS BASIS	38 S RFC	ZR3SBCUS0000	RFC NAME	STFC	U		0	6
ZR35BCUS00 ALL USERS BASIS	39 S RFC	ZR3SBCUS0000	REC NAME	SSCV	U		0	6
ZR35BCU500 ALL USERS BASIS	40 S RFC	ZR3SBCUS0000	RFC NAME	SRFC	U		0	6
ZR3SBCUS00 ALL USERS BASIS	41 S_RFC	ZR3SBCUS0000	RFC_NAME	SPRT	U		0	6
ZR3SBCUS00_ALL_USERS_BASIS	42 S_RFC	ZR3SBCUS0000	RFC_NAME	SPR4	U		0	6
ZR3SBCUS00 ALL USERS BASIS	43 S RFC	ZR3SBCUS0000	RFC NAME	SPOF	U		0	6
ZR35BCUS00_ALL_USERS_BASIS	44 S_RFC	ZR3SBCUS0000	RFC_NAME	SM02	U		0	6
ZR3SBCUS00_ALL_USERS_BASIS	45 S_RFC	ZR3SBCUS0000	RFC_NAME	SLST	U		0	6
ZR3SBCUS00_ALL_USERS_BASIS	46 S_RFC	ZR3SBCUS0000	RFC_NAME	SKBW	U		0	6
TRACE AND	47 0 000	700000000000	DEC MANE	C15D			0	-

6.1 Material Master Writeback

Security	The user running the API should have access to below SAP Transaction codes
	 MM01/ MM02 MM41/MM42 SE37 /SE11

6.1.1 Authorization Controls:

DvSum Data Management application allow changes to be written back into SAP through the function module (ZDVSUM_DYNAMIC_PRODUCT_SAVE) that we have created to change the existing data in the Material Master Data via transaction code MM02, MM42.

To writeback into the SAP, we have list down following authorization needs to be in place in SAP -



- 1. User must have authorization object '**S_RFC**' with authorization value is '**ZDVSUM_PRODUCT**', which is required to connect DvSum to SAP.
- 2. User must have relevant Organization levels authorization in place, i.e., Materials Data, Plants, Sales Organization, Distribution Channel, Product Hierarchy etc.
- 3. User must have relevant authorizations to change in the Material Master data in SAP.

6.2 Customer Master Writeback

DvSum Data Management application allow changes to be written back into SAP through the function module (ZDVSUM_DYNAMIC_CUSTOMER_SAVE) that we have created to change the existing data in the Customer Master Data via transaction code XD02.

Security	The user running the API should have access to below SAP Transaction code
	- XD01/ XD02 - SE37 /SE11

6.2.1 Authorization Controls:

DvSum Data Management application allow changes to be written back into SAP through the function module (ZDVSUM_DYNAMIC_CUSTOMER_SAVE) that we have created to change the existing data in the Customer Master Data via transaction code XD02.

To writeback into the SAP, we have list down following authorization needs to be in place in SAP -

- 1. User must have authorization object '**S_RFC**' with authorization value is '**ZDVSUM_CUSTOMER**', which is required to connect DvSum to SAP.
- 2. User must have relevant Organization levels authorization in place, i.e., Company Code, Sales Organization, Distribution Channel, Division etc.

User must have relevant authorizations to change in the Customer Master data in SAP.

7 Application Roles

Each user in DvSum is assigned a role which controls the level of access they have in the application. Elevated roles are given only to limited users to perform operations that can impact performance when accessing SAP through DvSum

Role	Functions	Type users
Owner	Manage Account and Manage Source	Controlled by IT / DvSum
	Connections, Manage Users	
Admin	Manage Source connections, Manage Users	Designated IT/ functional
		administrators
Users	Profile Data, Create and Execute rules. View	Advanced trained users on
	and edit other user rules	DvSum, Data Stewards
User	Profile Data, Create and Execute rules. Only	End Users
	access to their own created or assigned rules	

Manage Users			
DvSum External	Add User		×
Add User 🥒 Edit User Manage Access More A	* First Name		
First Name Last Name Description	* Last Name		Date
Aashish Singhvi	* Email Address		20 05:3
	External UserId		
	* User Group(s)	User Groups	
	* User Role	Select 🔹	
	* Start Date	Select	
	Expiry Date	User Super User	
		Admin Save C	ancel

7.1 Activity Controls

For Super User and User roles, activities that can be performed can be further controlled at SAP instance or fine-grain control at Object level

21



Access Level	Level of access		
View	Only view profiling results or exception reports. No operations allowed		
Default	Execute profiling of objects, ability to create, delete rules		
Write	Perform write operations of cleansed data to source		
Configuration	Change configuration of SAP catalog inside DvSum. Hide / Show		
	columns, flag fields for analysis, set and unset fields that can be		
	performance write-back operations on		

Automatic	0		
Table level role	Default		
	Default		Authorized Tables
	View Only		Empty list
	Write		Filter
	Configure		÷+
	DV_ARTICLE_SITE_VIEW DV_BOMHEADER_VIEW DV_CUST_SALESAREA_VIEW DV_MATPLANT_MRP_VIEW EINA_PURCH_INFORECORD_GENERAL	•	

8 Write-Back Controls

Write-back operation calls SAP BAPI to execute update operations into SAP. Since changes are being made into SAP, following controls are provided to manage write-back into SAP

8.1 Allowing Write-Back

Allowing write-back can be controlled at SAP Client level, object, or field level. Write-back to a field can only happen if client level control is Yes and Table level writeback is Yes. By default, Client level is set to No Write-Back, Table level is Yes and Field level is Yes. (for fields that are supported by SAP Update BAPI)

	Write-Back Parameters		
Allow Write-Back			
Enable User based Write-Back	✓ i		
Schedule Write-Back at Specific Time	✓ i		
For Group	Select Group 🔹 08:15 PM 🥥	Daily -	Add
Writeback Batch Size	10		



Configuration							
Com Saration							
			* Nan	me MARA_ARTICLE_	GENERAL		
			Subject Are	ea Material (Item, P	roducts)		Ŧ
			,				
				Limi	t Records		
		Reco	ords updated since last au	dit			Ŧ
			Identified I	oy			
		Field(s) that	can uniquely identify a da reco	rd MATNR_ARTICLE	×		*
			Filter Conditio	on 🍸			
			Exception Records Lin	nit 10000			
				Write-Ba	ck Parameters		
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	String	10					
BBTYP ASTMT LIST TYPE	String	13					
BRAND_ID_BRAND	String	5					_
BREIT_WIDTH	Number	49					
BRGEW_GROSS_WEIGHT	Number	94		×			
BSTAT_CREATION_STATUS	String	2					
BSTME_ORDER_UNIT	String	8					
BWSCL_SUPPLY_SOURCE	String	4					2

8.2 User SAP Credentials for Write-Back

Read connections to SAP are done using a generic non-dialog user. Write-operations by default are configured to use the user specific SAP credentials. User SAP profile needs to have appropriate T-code access to be able to perform write-back operations. (e.g. MM02 or MM42 for executing Material BAPI)



	Write-Back Parameters			
Allew Write Back]		
Enable User based Write-Back	✓ i			
Schedule Write-Back at Specific Time	⊻ i	1		
For Group	Select Group	08:15 PM 🛛 🕑	Daily -	Add
Writeback Batch Size	10			

8.3 Batch Scheduling / Queuing Write-Back Operations

Write-Back operations are always run as a batch between DvSum and SAP, even if it is a single record update. SAP Client connection can be set to only performance write-back operations at a certain time of the day. When this is set, all changes made by users are queued to run at the defined time. This can be used to for example, perform update operations during off-hours.

	Write-Back Parameters
Allow Write-Back	
Enable User based Write-Back	✓ i
Schedule Write-Back at Specific Time	✓ i
For Group	Select Group 🔹 08:15 PM 🥑 Daily 🕶 Add
Writeback Batch Size	10

8.4 Batch Size to control number of records

Batch size allows controlling how many records can be updated within a single job. If the number of updates submitted by users exceed the batch size, the updates are split into multiple job schedules and they are scheduled to run sequentially one after the after.



Allow Write-Back Enable User based Write-Back Schedule Write-Back at Specific Time For Group Select Group 08:15 PM Daily Add Writeback Batch Size 10		Write-Back Parameters
Enable User based Write-Back <table-cell></table-cell>	Allow Write-Back	
Schedule Write-Back at Specific Time 🗹 i For Group Select Group V 08:15 PM O Daily V Add Writeback Batch Size 10	Enable User based Write-Back	✓ i
For Group Select Group Image: Organization of the select Group Oom Om Add Writeback Batch Size 10 Image: Organization of the select Group Image: Org	Schedule Write-Back at Specific Time	✓ i
Writeback Batch Size 10	For Group	Select Group • 08:15 PM ② Daily • Add
	Writeback Batch Size	10

8.5 Canceling Write-Back Jobs (already sent to SAP)

Once a write-back job is in Running state, (which means, it has already been submitted to SAP) and if user or SAP Administration wants to cancel it, the cancellation has to be performed inside SAP. Once canceled within SAP, the DvSum connector will receive interrupt signal and it will update with the appropriate error code in the DvSum job and communicated to the user. When this interrupt signal is received on DvSum side, all batches scheduled for write-back on this SAP client are put on hold automatically. They have to removed from hold status to continue executing them.

8.6 Canceling or putting on Hold Write-Back Jobs (not sent to SAP)

Write-back jobs in Scheduled / Stand By state can be put on hold or Canceled by user directly in DvSum using the Scheduler page

🖀 Home > Schedu	ıler				
Scheduler					
		Today • From Date 02/20/2020	To Date 02/20/2020	Apply Filter	
🛗 New Schedule 🗴 Run Now 🖋 Edit Schedule 🗎 Delete Schedule 🕫 Refresh Now			All Users	Search	
Job Name		Description	Start Time	End Time	Status
JB-000024	WRB 🚀	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:30 AM	02/20/2020 05:30 AM	Completed
JB-000024	WRB 🚀	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:29 AM	02/20/2020 05:29 AM	Completed
JB-000024	WRB 🚀	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:28 AM	02/20/2020 05:28 AM	Completed
JB-000023	WRB 🖪	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:17 AM		StandBy (Deleted)
JB-000022	WRB 🚀	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:11 AM	02/20/2020 05:12 AM	Completed
■ JB-000022	WRB 🚀	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:10 AM	02/20/2020 05:11 AM	Completed
JB-000022	WRB 🚀	On Demand for Write Back Exception Fixes DQ-0000004	02/20/2020 05:09 AM	02/20/2020 05:10 AM	Completed

8.7 Governed Write-Back

When Governed Write-Back is flagged for an SAP object in DvSum, then DvSum will enforce following additional controls for write-back

• Write-back operation can only be performed with a workflow

Workflow will require separate "Fixer" and "Approver" users