

NVS Greenex

SAP Intermediate Monitoring

Documents (report Idoc2).

Table of Contents

Introduction.	3
Business task	4
Creating a background task.	5
Choosing an SAP system to test	10
Adding task parameters	12
Selecting message recipients	14
Start a background task and check the results of the work.	15
Conclusion.....	17

Introduction.

The SAP systems landscape is a complex space with active real-time data exchange and one type of exchange is IDOC transfer.

These interim documents are an important information carrier and their delay for various reasons can lead to negative consequences for business.

To inform responsible persons in a timely manner about problems with IDOC processing

The monitor type is MoniSapIdoc2.

The user sets a regular check of documents of a certain type (MESSAGE

TYPE) and a certain status, and if these documents are "delayed" in this status

for more than a specified time, an alert is generated and information about this is sent to the postal addresses of responsible employees to take measures to remedy the situation

Business task

Business task: it is necessary to intervene in time in the process of processing IDOC with names DESADV or INVOICE if they are in the status 30 or 15 or 29 for longer than 30 minutes.

Send emails with information about the occurrence of the event to 2 e-mail addresses

Creating a background task.

To regularly monitor the idoc situation, you need to create a background task in the NVS Greenex system. In transaction BJO1, create a new record:

For example: SAP Idocs DESADV and INVOICE in R9U.

Note: Choose a description with keywords that you can easily find when searching further. You can also change it at any time if necessary.

The screenshot shows the SAP BJO1 background jobs transaction. A table displays the last 30 check results for SAP IDOC2 data collection. A dialog box prompts for a parameter name, with 'SAP Idocs DESADV and INVOICE in R9U' entered. The 'Status Monitor for ALE Messages' window is open, showing a list of IDocs with their status and numbers.

ID	object	idobject	type	result	value
4462475	A	0.0	OK	found	0.18
4462476	A	0.0	OK	found	0.18
4462477	A	0.0	OK	found	0.18
4462478	A	0.0	OK	found	0.18
4462479	A	0.0	OK	found	0.18
4462480	A	0.0	OK	found	0.18
4462481	A	0.0	OK	found	0.18
4462482	A	0.0	OK	found	0.18
4462483	A	0.0	OK	found	0.18
4462484	A	0.0	OK	found	0.18
4462485	A	0.0	OK	found	0.18
4462486	A	0.0	OK	found	0.18
4462487	A	0.0	OK	found	0.18
4462488	A	0.0	OK	found	0.18
4462489	A	0.0	OK	found	0.18
4462490	A	0.0	OK	found	0.18
4462491	A	0.0	OK	found	0.18
4462492	A	0.0	OK	found	0.18
4462493	A	0.0	OK	found	0.18
4462494	A	0.0	OK	found	0.18
4462495	A	0.0	OK	found	0.18
4462496	A	0.0	OK	found	0.18
4462497	A	0.0	OK	found	0.18
4462498	A	0.0	OK	found	0.18
4462499	A	0.0	OK	found	0.18
4462500	A	0.0	OK	found	0.18

IDocs	IDoc Status	Number
RU PR R3 Client 103		44511
• IDocs in outbound processing		38041
• Interchange Acknowledgment negative	15	6
• Error in ALE service	29	62
• /R/INVT_LOIPRO		62
• IDoc ready for dispatch (ALE service)	38	3
• DESADV		1
• INVOICE		4
• Data passed to port OK	83	9283
• Translation OK	86	1087
• Dispatch OK	12	27986
• Interchange Acknowledgment positive	14	10
• IDoc in inbound processing		6470
• Application document not posted	51	51
• IDoc ready to be transferred to application	64	211
• IDoc is waiting for predecessor IDoc (serialization)	86	2
• Application document posted	53	6093
• Blocked	59	112
• Original of an IDoc which was edited	78	1

In your background tasks on the right, set the type of verification program:

checkSAP.monitoring.news.com .CheckSAPIdoc2.

BJO1 background jobs

45 SAP Idocs DESADV and INVOIC in R9U

sys_bkg_jobs:

column name	column value
id	45
task_name	SAP Idocs DESADV and INVOIC in R9U
program_name	
scheduled_at	null
period_sec	60
task_status	I
user_name	ADMINISTRATOR
disable_email	
created_at	2024-09-30 09:00:43.335199
keep_days	30

Input parameter:

Id Save

- checkSapAbap.monitoring2.nvs.com.CheckSapAbapId...
- checkSAP.monitoring.nvs.com.CheckSAPIdoc2
- checkSAP.monitoring.nvs.com.SapIdocHelper

Set the start time of the program.

The screenshot displays a web application interface for managing background jobs. The main content area shows a table with the following data:

column name	column value
id	45
task_name	SAP Idocs DESADV and INVOIC in R9U
program_name	checkSAP.monitoring.nvs.com_CheckSAPIdoc2
scheduled_at	null
period_sec	60
task_status	?
user_name	ADMINISTRATOR
disable_email	
created_at	2024-09-30 09:00:43.335199
keep_days	30

An 'Input parameter' dialog box is open, showing a date picker for '09. 09. 2024 09:02'. The date picker is set to September 2024, and the day '08' is selected. A red arrow points to the '08' in the date picker, and another red arrow points to the 'scheduled_at' field in the table above.

And the frequency of repetition, for example, 15 minutes

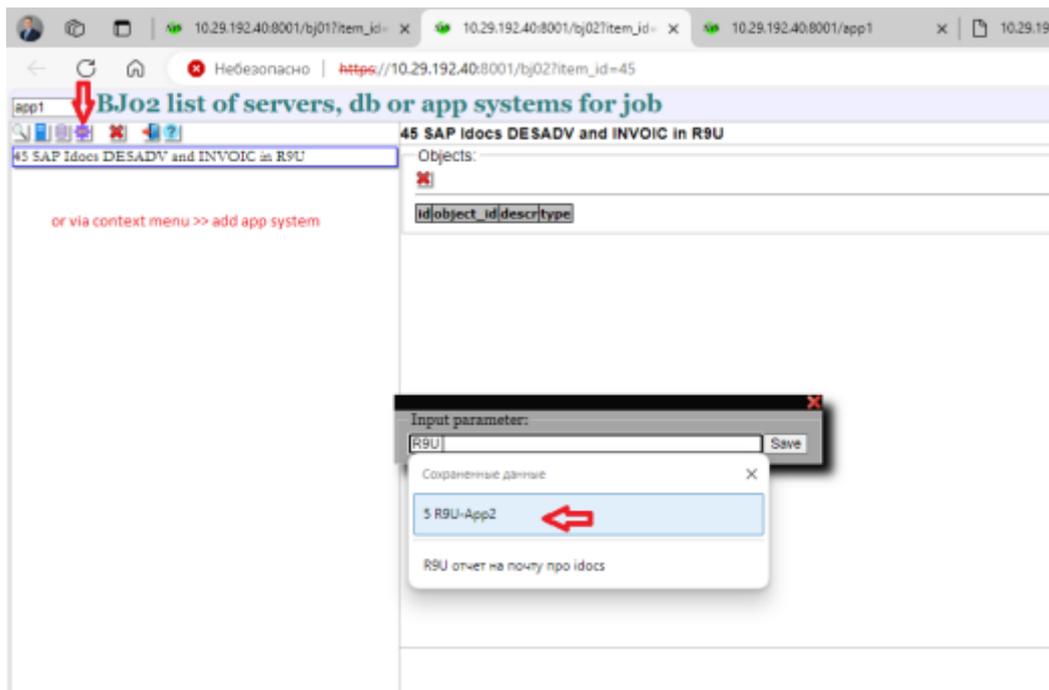
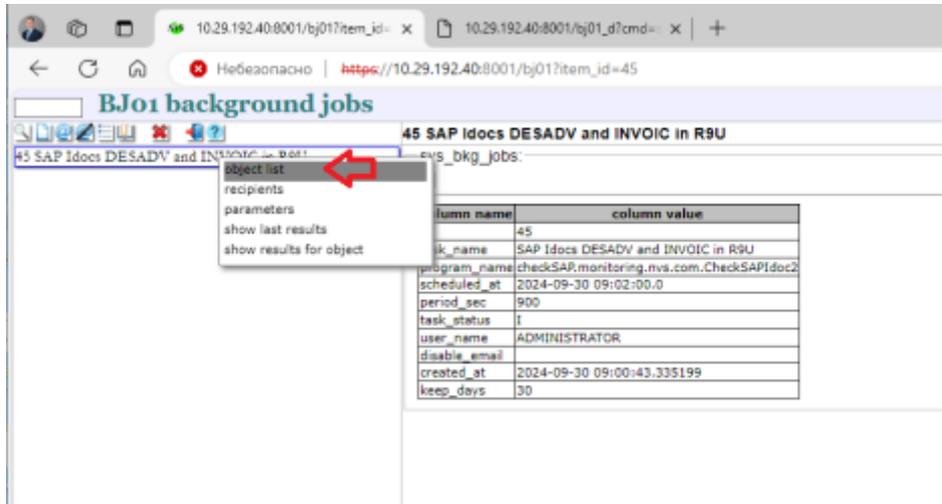
The screenshot shows a web interface for managing background jobs. The main content area displays a table with the following data:

column name	column value
id	45
task_name	SAP Idocs DESADV and INVOIC in R9U
program_name	checkSAP.monitoring.nvs.com_CheckSAPIdoc2
scheduled_at	2024-09-30 09:02:00.0
period_sec	60
task_status	3
user_name	ADMINISTRATOR
disable_email	
created_at	2024-09-30 09:00:43.335199
keep_days	30

A modal dialog titled "Period of job:" is open, showing input fields for HH:0, MM:15, and SS:0, with a "Save" button. A red arrow points to the "period_sec" value in the table above the dialog.

Choosing an SAP system to test

Use the context menu to go to the BJ02 transaction and add the SAP system in which the checks will take place. The example assumes that this system is already exists in the APP1 transaction.



As a result, the result will look something like this:

app1

BJo2 list of servers, db or app systems for job

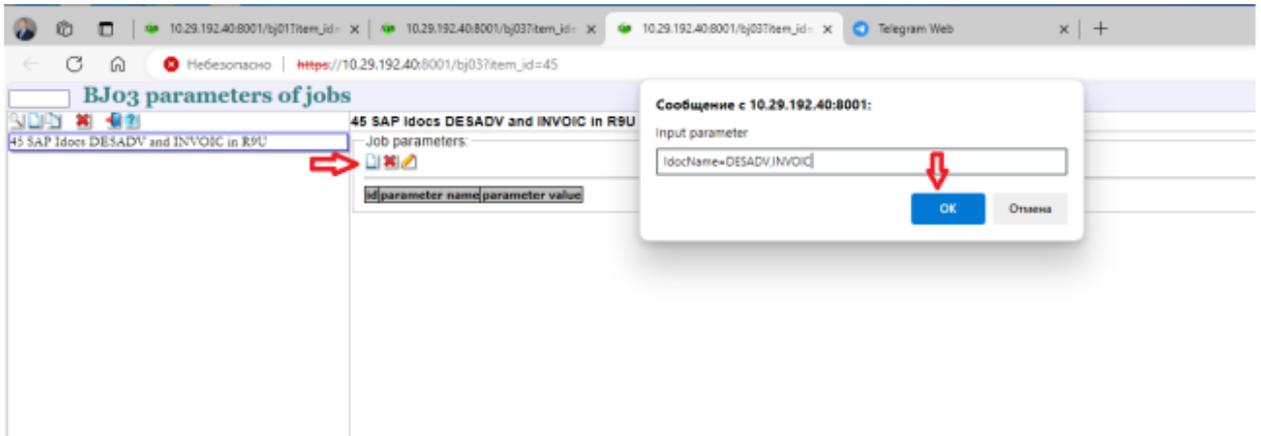
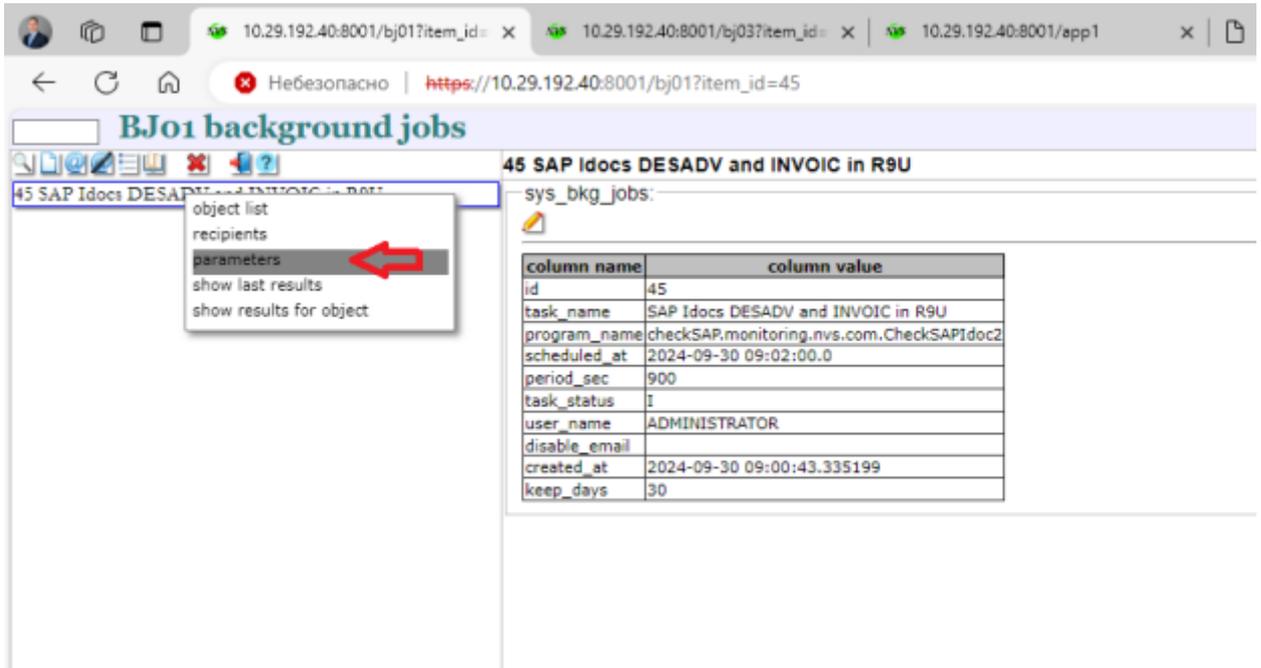
45 SAP Idocs DESADV and INVOIC in R9U

Objects:

id	object_id	descr	type
715	R9U-App2	A	

Adding task parameters

When you return to the BJ01 transaction again, add the required parameters for verification



The parameter table.

The required parameters are marked in bold.

Parameter names and their values are case-sensitive! Lowercase and uppercase characters are different. Docname is not equal to DOCNAME. If the parameter needs to be temporarily deactivated, just rename it by changing 1 character.

Parameter name	Description	Example	Details
IdocName	Message names (separated by commas)	DESADV,INVOIC	DESA* - asterisk is not supported.
IdocStatus	Digital status values (separated by commas)	30,15,29	* - asterisk is not supported.
DurationStateMin	The duration since the last change	15	By default, 30 minutes
Sender	Sender's name	PR1CLNT001	PR1* is acceptable. Separated by commas , no. If there is no filtering parameter for it , there is no filter
Recipient	Recipient's name	DE1CLNT100	DE1* is acceptable. Separated by commas , no. If there is no filtering parameter for it , there is no filter

Selecting message recipients

To determine the recipients of notifications (alerts) for this verification in the AS 12 transaction select the current e-mail addresses. Use the context menu to add a link

to the previously created background task to the address. The search is based on the description. You can

add multiple recipients of a message in this way. If the desired address is not in the list, add it using the green plus button. You can view all available addresses using the open book button on the left panel.

For verification, you can send a test email to the recipient using the item the context menu

AS12 email list for alert sending

12 evgenii.nevtis@ru.nestle.com
13 rusapbati@internal.nestle.com
14 Dmitriy.Bonstov@ru.nestle.com
16 enevtis@gmail.com

toggle status
add job
add project
add all
send test email

12 evgenii.nevtis@ru.nestle.com

Details:

id	email	disabled
12	evgenii.nevtis@ru.nestle.com	

Emails relations:

id	object_type	description	object_id
34	All events	All letters	0
35	Job	SAP IDOC2 сбор данных	44

Input parameter:

DESA Save

45 SAP Idocs DESADV and INVOIC in R9U

Start a background task and check the results of the work.

The last step in setting up a task is to release the task by setting its task_status parameter in the BJO1 transaction.

Change the value of the field to active, after which the task will start working according to the schedule.

Accordingly, you can turn off the task by setting the status as deactivated (D)

The screenshot shows the SAP BJO1 background jobs transaction. The main table displays the configuration for a task with ID 45. The task status is currently set to 'I'. An input parameter dialog is open, showing the status is being changed to 'A Active (ready to schedule)'. Red arrows point to the 'task_status' field in the table and the 'A Active (ready to schedule)' option in the dialog.

column name	column value
id	45
task_name	SAP Idocs DESADV and INVOIC in R9U
program_name	checkSAP.monitoring.nvs.com.CheckSAPIdoc2
scheduled_at	2024-09-30 09:02:00,0
period_sec	900
task_status	I
user_name	ADMINISTRATOR
disable_email	
created_at	2024-09-30 09:00:43.335199
keep_days	30

Input parameter:
A Active (ready to schedule) Save

After some time has elapsed, due to the start time and the repetition period you can see the log of the background task, where the results of the checks will be reflected. If there is an X in the alert field, the system will send an alert by mail.

The list of idoc documents found can be seen by clicking on the id field.

The screenshot shows a web browser window with the URL https://10.29.192.40:8001/tj01?item_id=45. The page title is "J01 background jobs". The main content area displays "45 SAP Idocs DESADV and INVOIC in R9U" and "Last 30 check results:". Below this is a table with the following data:

id	object_id	object_type	result_value	result_msg	is_alert	checked_at	past_min
466302		A	0.0	OK: found 0 Idocs		2024-09-30 09:31:39.0	7 minutes

Below the table is a "Status Monitor for ALE Messages" window. It has a menu bar with "IDoc Selection", "Edit", "Goto", "Settings", "System", and "Help". The main area shows a tree view of IDoc selection criteria and a table of IDoc status and counts.

IDocs	IDoc Status	Number
IDoc selection		
Changed on is in the range 09/30/2024 to 09/30/2024		
RU PR RS Client 103		46672
IDocs in outbound processing		39263
Interchange Acknowledgement negative	15	7
/ EUR/WRU_MERCURY_GN		7
Functional Acknowledgement negative	17	1
/ EUR/WRU_MERCURY_GN		1
Error in ALE service	20	75
/ GLB/RGT_LOPRO		75
Data passed to port OK	03	10424
Translation OK	06	1156
Dispatch OK	12	27586
Interchange Acknowledgement positive	14	14
IDoc in inbound processing		7400
Application document not posted	51	57
IDoc ready to be transferred to application	64	50
Application document posted	53	7172
Blocked	59	125
Error - no further processing	68	1
Original of an IDoc which was edited	70	4

Conclusion

This report can filter different types of messages (Docname) in combination with

Sender and Recipient, which allows, if necessary , to configure different areas of responsibility between consultants in the case of a complex data flow

—