



## NCR Alerts

NCR Near Real Time Alerts.dnax  
DNAapp ID: 0981c8a9-4f27-4e0e-943f-ce48e29a024f

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**Overview:**

This application can provide user requested alerts within minutes of a transaction or balance update. This is done through processing files that contain updated account balances and new transaction history throughout the day. NCR generates a Request file that contains a list of accounts for which users have requested alerts, which this app will use as the input file. There are two output response files, one for updated account balances ("**Balance**" file) and one for new account transactions ("**Transaction**" file). The Request and Response files are exchanged between NCR and your Financial Institution using the NCR Secure FTP server.

For Fiserv Data Center clients, executing this app is approved with 1 daily file. Separate charges will occur for more frequent processing.

This application is in accordance with version 6.0 of the NRT Alert File Specs document.

**Key Benefits:**

This application can help easily track and maintain accounts that users have found to have consistent balance and transaction issues, or suspicious accounts for any of the following user requested alerts:

- High Balance
- Low Balance
- Large Withdrawal
- Large Deposit

**Processing:**

This report is processed as a standard batch job through the DNA Batch screens.

NCR generates a "**Request**" file that contains a list of accounts for which users have requested alerts. This application uses this as the input file, and will need the External File Path and External File Name parameters pointing to that file. The External File Name will accept wildcards, so for example "\*.csv" will search for any CSV file in the External File Path. However, this application only allows for one file to be processed at a time, so if there are multiple CSV files found in the file path this application will end and generate an error file in the External File Path folder explaining this.

It is important to note that the NCR request file normally includes a trailer record at the end of each request file with all 9's in the account number, number of records in the file and file generated timestamp in YYYYMMDDHHMISS.

<FIID>,9999999999,<Number\_of\_Records>,<File\_Generated\_Timestamp>

If this trailing record is not included, even if the file runs perfectly and all accounts are reported properly, the job will still say “All Records Not Read Successfully” since it looks for the <Number\_of\_Records> value to check against the final count of records ran successfully during execution.

It is important to note that the input request filename is used by the program in order to properly name the output balance and transaction files. It is therefore required that you do not modify the filename from the format provided to you by NCR in any way.

There are two types of response files, one for updated account balances (“**Balance**” file) and one for new account transactions (“**Transaction**” file). It is the responsibility of the Financial Institution to transfer the two Response Files back to NCR.

The Balance file should only contain records for accounts in the request file where the balance has changed for that account since the last Balance file was generated.

The Transaction file should only contain records for accounts in the request file with transactions that have occurred since the last Transaction file was generated.

Note that an account’s balance could have remained the same, but transactions could have occurred. Therefore it is possible that a balance change record is not created, but transaction records are.

If no balance changes or applicable transactions are found, empty output files with a size of 0 bytes will be created for processing.

These details can be viewed in an additional LIS file created by the app for use by the Financial Institution when the report parameter PrintDetailYN is set to ‘Y’. The LIS file would contain a list of all accounts whose balances were checked by the report, with an indicator for which balances have changed, and a list of any transactions that have occurred since the last time the report was run. If the PrintDetailYN parameter is set to ‘N’ the LIS file will contain the detail header but will have no individual records displayed. The LIS file will always display the number of accounts where the balance changed, the number of transactions that have occurred, and an indicator if all records from the input file have been read successfully.

The application will generate the “**Response**” files using the current system date.

In the event that the institution needs to make specific deposit transaction types display as withdrawals the Type 1 String parameter may be used, while the Type 2 String parameter can be used to denote specific withdrawal transaction types that should display as deposits.

The Originating Identifier parameter denotes the account User Field code used to store transaction numbers processed through the app, while the User Field Code parameter denotes the account User Field code used to store account balances processed through the app. The institution may choose any account type User Field codes with a data type of ‘NUM’ that exists in their system, but should note that changing these values after sending files to

NCR will result in duplicate reporting. If at all possible, once selected, these values should not change unless absolutely necessary.

When running under Automatic in a data center environment and the executing node has not been configured in the ntwknode table, and one has not been provided as an input parameter, and an AssignedNtwkNodeNbr is not assigned to the queue; this code will attempt to locate the lowest numbered network node available in the database and use that network node number to allow the job to execute. This will reflect in the activity tables, where the listed network node will not necessarily be the actual executing node.

A file is generated called "selected\_ntwknode.txt" that contains information on the network node being used as well as how the network node was found (whether it be through the "Input Parameter", "Sqr-Hostname", "Auto-Detection" code, or "AssignedNtwkNodeNbr" of the queue).

Additional report parameters allow for further customization.

Refer to the Scheduling and Re-Run Information section for further details.

Application	Parameter Description	Required	Parameter
NCR Near Real ...	External File Name	Yes	
	External File Path	Yes	
	Print Detail YN	Yes	Y
	Type 1 String	No	
	Type 2 String	No	
	Available Funds Method Code	Yes	GPND
	Originating Identifier	Yes	
	User Field Code	Yes	
	Number Parallel Threads	No	

### Parameters:

Parameter	Code	Description (how used)	Required	Default
External File Path	EXFP	Complete path name where the input file is located. Note the trailing backslash (ex. "C:\TEMP\").	Y	

Parameter	Code	Description (how used)	Required	Default
External File Name	EXFN	<p>Name of input file.</p> <p>The default file name format is:</p> <p>FI&lt;5-digit-fiid&gt;_ada_rqst-&lt;YYYYMMDDHHMMSS&gt;.csv</p> <p>Where YYYYMMDDHHMMSS is the date this input file was generated</p> <p>Note the inclusion of the file type extension .csv</p> <p>This parameter also allows for wildcard usage (Example: FI&lt;5-digit-fiid&gt;_ada_rqst-*.csv)</p> <p>See wildcard usage below for details</p>	Y	
Print Detail YN	PDYN	<p>Determines whether to print additional details in the LIS output file:</p> <p>Account</p> <p>Avail Balance</p> <p>Balance Changed</p> <p>If transactions occurred the following information is provided</p> <p>Transaction Type</p> <p>Transaction Amount</p> <p>Transaction Date</p> <p>Transaction Description</p> <p>Y for Yes, N for No.</p>	Y	Y
Type 1 String	TYP1	<p>List of RTXNTYPECD(s) of type Deposit that should be treated as a Withdrawal.</p> <p>Separate multiple codes by a comma: CCCD,WTH</p>	N	
Type 2 String	TYP2	<p>List of RTXNTYPECD(s) of type Withdrawal that should be treated as a Deposit.</p> <p>Separate multiple codes by a comma: CCCC,XDEP</p>	N	

Parameter	Code	Description (how used)	Required	Default
Available Funds Method Code	AMTH	Used to change the available funds calculation method used to determine available account balance.  See system tables - availability methods	Y	GPND
Originating Identifier	OGID	Account User Field Code used to identify the Last Account Transactions sent to NCR	Y	
User Field Code	UFCD	Account User Field Code used to identify the Last Account Balances sent to NCR	Y	
Number Parallel Threads	4NPT	Used to specify a Network Node Number for the current run of the program	N	

### Wildcard Usage:

When using wildcards in the EXFN parameter the application will mimic the DOS wildcard matching syntax.

The program will search in the External File Path folder (EXFP) for all files matching the wildcard file name (EXFN). Examples:

```
FI12345_ada_rqst-*.csv
FI?????_ada_rqst-*.csv
*.csv
```

Depending on the number of files found the following results will occur:

0 Files – Program ends with return code 0, no output files are generated. The LIS file indicates no files were found.

1 File – Program runs and processes. Generates output files as per this document. LIS file indicates any issues, as well as details regarding the output files as per the PrintDetailYN flag.

2 or more Files – Program ends with return code 12, an error file is generated reporting 'Too many files match External File Name <EXFN> in folder, should only be one'. Refer to filesprocessed.txt in the output folder to see which files matched the wildcard.

### Scheduling and re-run information:

As stated in the overview, for Fiserv Data Center clients, executing this app is approved with 1 daily file. Separate charges will occur for more frequent processing.

## Report(s):

## Output File 1 – Successful Report with Data

Bank: [REDACTED]  
Report: NCR\_ProcessRTAFile

NCR Near Real Time Alerts

Run Date: 04-08-2021  
Post Date: 04-08-2021

Queue Number : 336397  
Application Number: 529285  
Queue Sub Number : 2

Run Time: 16:03:48  
Cash Box:

SCHEMA  
OSIBANK

DATABASE NAME  
TSTMAG.WORLD

RELEASE  
DNA 4.6.2.1

04-08-2021 04:00:35 PM 266688 N:\OSI\BANK\SQL\4621\BAT\_EXE\EXTNS\

REPORT PARAMETERS

Available Funds Method Code: GPND  
External File Path: C:\TEMP\  
Print Detail YN: Y  
Type 2 String:

External File Name: [REDACTED]\_LADA\_RQST-20210119220002.CSV  
Originating Identifier: 8MAR  
Type 1 String:  
User Field Code: 8DLU

Bank: [REDACTED]  
Report: NCR\_ProcessRTAFile

NCR Near Real Time Alerts

Run Date: 04-08-2021  
Post Date: 04-08-2021  
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Account	Avail Balance	Balance Changed	Rtxn Type	Amount	Date	RTXN Description	Exception
[REDACTED]	0.00	Y					
[REDACTED]	375.82	Y					
[REDACTED]	5.52	Y					
[REDACTED]	64.61	Y					
[REDACTED]			DEPOSIT	350.00	04-08-2021		
[REDACTED]			DEPOSIT	35.00	04-08-2021	description	
[REDACTED]			DEPOSIT	10.00	04-08-2021		
[REDACTED]			DEPOSIT	30.00	04-08-2021		
[REDACTED]	60.11	Y					
[REDACTED]	17,863.57	Y					Acctnbr does not exist
[REDACTED]	83.49	Y					
[REDACTED]	1,395.31	Y					
[REDACTED]	17,250.56	Y					
[REDACTED]	2,344.56	Y					
[REDACTED]	8,227.92	Y					Acctnbr does not exist
[REDACTED]	2,493.95	Y					
[REDACTED]	122.75	Y					
[REDACTED]	143.25	Y					
[REDACTED]	3,416.64	Y					

## Output File 2 – Report with no Input File Found

Bank: [REDACTED]	NCR Near Real Time Alerts	Run Date: 09-23-2021					
Report: NCR_ProcessRTAFile		Post Date: 09-23-2021					
Queue Number : 368000		Run Time: 16:22:16					
Application Number: 529460		Cash Box:					
Queue Sub Number : 2							
SCHEMA OSIBANK							
DATABASE NAME TSTMAG.WORLD							
RELEASE DNA 4.6.2.1							
09-23-2021 04:06:56 PM 274657 N:\OSI\BANK\SQL\4621\BAT_EXE\EXTNS\							
REPORT PARAMETERS							
Available Funds Method Code: GPND	External File Name: *.CSV						
External File Path: C:\TEST\NCR FAILURES\	Originating Identifier: RESV						
Print Detail YN: Y	Type 1 String: DEP						
Type 2 String: WTH	User Field Code: SBAL						
Bank: [REDACTED]	NCR Near Real Time Alerts	Run Date: 09-23-2021					
Report: NCR_ProcessRTAFile		Post Date: 09-23-2021					
		Page: 1 of 1					
Account	Avail Balance	Balance Changed	Rtxn Type	Amount	Date	RTXN Description	Exception
No files matched External File Name *.CSV to process in folder							



**Output File 3 – Report with too many Input File Options Found**

```

Bank: ██████████ NCR Near Real Time Alerts Run Date: 09-23-2021
Report: NCR_ProcessRTAFile Post Date: 09-23-2021

Queue Number : 368001 Run Time: 16:26:02
Application Number: 529460 Cash Box:
Queue Sub Number : 2

SCHEMA
OSIBANK

DATABASE NAME
TSTMAG.WORLD

RELEASE
DNA 4.6.2.1

09-23-2021 04:06:56 PM 274657 N:\OSI\BANK\SQL\4621\BAT_EXE\EXTNS\

REPORT PARAMETERS

Available Funds Method Code: GPND External File Name: *.CSV
External File Path: C:\TEST\NCR FAILURES\ Originating Identifier: RESV
Print Detail YN: Y Type 1 String: DEP
Type 2 String: WTH User Field Code: SBAL

Bank: ██████████ NCR Near Real Time Alerts Run Date: 09-23-2021
Report: NCR_ProcessRTAFile Post Date: 09-23-2021
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Account Avail Balance Balance Changed Rtxn Type Amount Date RTXN Description Exception
-----
Too many files match External File Name *.CSV in folder, should only be one

```

**Output File 4 – filesprocessed.txt – Too many files match EXFN**

```

FI_ada_rqst-20210119220002.csv
FI_ada_rqst-2021011922000289.csv

```

**Output File 5 – selected\_ntwknnode.txt**

```

The NetworkNode 168 is the selected node from $SQR-HostName.

```

**File Layouts:****Input File Layout – Comma Separated**

Example

Field	Format	Description
FIID Number	99999	FIID Number
Account Number	99999999999	Account Number
Account Type	Single Character	Account Type
Account Type Description	String	Account Type Description

```

████, █████, D, CHECKING
████, █████, D, CHECKING
████, █████, D, SAVINGS
████, █████, D, SAVINGS
████, █████, D, SAVINGS

```

### Output File 1 Layout – Comma Separated

Example

Field	Format	Description
FIID Number	99999	FIID Number
Account Number	99999999999	Account Number
Account Type	Single Character	Account Type
Account Type Description	String	Account Type Description
Available Balance	9999999v99	Available Balance

```

████, █████, D, CHECKING, 83.49
████, █████, D, CHECKING, 0.00
████, █████, D, CHECKING, 10116.25
████, █████, D, CHECKING, -55.00
████, █████, D, CHECKING, 2252.73

```

### Output File 2 Layout – Comma Separated

Example

Field	Format	Description
FIID	4 Numeric	DI assigned FI identifier
Account Number	17 Alphanumeric	Core account number
Account Type	1 Alpha	D = Deposit Account L = Loan Account
DI Account Description	50 Alphanumeric	This is the DI digital banking mapped description for the account, e.g. CHECKING.
Unique Transaction ID	50 Alphanumeric	The value in this field must be qualified within double quotes e.g. "91238238" This field uniquely identifies a transaction, i.e. a given value can only be used for a single transaction. It is created by appending the transaction number to the account number.

Field	Format	Description
Transaction Type	10 Alpha	Must be one of these two values: DEPOSIT WITHDRAWAL
Transaction Amount	10 Float	The transaction amount should contain numeric digits and a decimal point only, no other characters.
Check Number	10 Numeric	Check Number
Transaction Date	8 Numeric	Must be in YYYYMMDD format
Transaction Description	10 Alpha	The value in this field must be qualified within double quotes e.g. "ATM #823 cash withdrawal"

```

[REDACTED],D,CHECKING,"[REDACTED]",DEPOSIT,350.00,,20210408,""
[REDACTED],D,CHECKING,"[REDACTED]",DEPOSIT,35.00,,20210408,"description"
[REDACTED],D,CHECKING,"[REDACTED]",DEPOSIT,10.00,,20210408,""
[REDACTED],D,CHECKING,"[REDACTED]",DEPOSIT,30.00,,20210408,""

```

**Activity:**

This application updates activity, using the Activity Category "Account Maintenance" and the Activity Type "Account".

Activity Category	Code	Activity Type	Code	Activity Subject
Account Maintenance	AMNT	Account	ACCT	Account

**Configuration:**

Item	Test Environment	Production Environment
Parameters		

**Revisions:**

Date	App Version #	Change
11/2021	1.0.0.2	Added parameter to specify the network node if needed. Another file is now generated logging network node information. Fixed documentation errors.
09/2021	1.0.0.1	Added auto-detection of network node to find network node number
06/2021	1.0.0.0	Documentation updates for clarity
04/2021	1.0.0.0	Application Created