



Secure File Transfers

Data Transfer between similar and/or different platforms has become an everyday task in corporations as many different:

- Platforms, Operating Systems, are now used for day to day operations and data capture.
- REV DATAFLOW allows you to execute data transfers in a:
- Authenticated. Totally secure,
- Encrypted,

environment that does NOT use FTP.

Same model on all platforms

REV DATAFLOW runs natively on all platforms:

- iSeries
- œ

• LINUX















WINDOWS

You control the database locations

The ONLY platform that must have a Local database is iSeries as every i5OS • Fully Networked, installation has a DB2 instance.

On every other platform you are in total control of the database locations which can be:

• Remote. Local,

At RevSoft we do have a simple rule:

'A Mission Critical server should have a Local database.'

Same Data Transfer solution on all platforms

As REV DATAFLOW is exactly the same model on all platforms:

- The same Windows .net User Interfaces are used for all platforms:
 - Thost & The Enterprise Consoles to manage as well as see and hear all messages as they are being detected and processed.
 - The Engine to configure, add systems and migrate data.
- One education plan fits all.

Only install User Interfaces where required

As the User Interfaces are very specific as to their functions you only need to install them where they are required - instead of using one large cumbersome interface where only a small portion is required.

There is no security required for all the Windows .net User Interfaces.

30 long System Name

The iSeries System Name is up to 8 characters in length but in RevSoft you can use an Alias Name (on any platform) that can be up to 30 characters in length.

If a server has a System name of S1234567 it can be seen as (in RevSoft) as CUSTOMER NAME PROD or TAMPA QANDA RED HAT,

Major Features

- No FTP,
- File Types,
- Procedures supported,
- Execution methods.
- Unattended Transfers.
- RFRTVOBJ,
- RFSNDCMD,
- · RFSNDOBJ.
- RFSNDSPLF.
- Pre Scripts.
- Post Scripts,
- Encryption,
- Resend Interrupted.
- Compression,
- Options.
- Data Conversion,
- · Run as User,
- Concurrent Transfers,
- Configurable Sounds,
- Comma Separator Values,
- · Variables,
- Review Timings.
- Host Procedures.
- Enterprise Procedures.
- Job Queues,
- Job logs.





No FTP servers are used

REV DATAFLOW does not use FTP (File Transfer Protocol) servers.

All the transfers use REV DATAFLOW transfer mechanism.

File Types

There are 4 basic File types that REV DATAFLOW can transfer:

- Stream Files these are the standard files found on:
 - AS/400 IFS, UNIX,
 - LINUX,WINDOWS.
- C AS/400 Library files these are files that reside in AS/400 libraries,
- Solution AS/400 Spooled Files these are Spooled Files that reside on the AS/400,,
- MAS/400 Save Files - these are Tape image files similar to TAR (Tape ARchive format) files in UNIX..

Processes Supported

There are 4 processes that can be executed:

- RFSNDMCD -Send & Run command this will Send a command from the :
 - *SOURCE system and execute it on the **TARGET system,
- RFSNDOBJ Send Object this will send an object from the :
 - *SOURCE system to the \(\frac{1}{2}\) *TARGET system,
- RFRTVOBJ Retrieve Object this will retrieve an object from the :
 - *TARGET system to the **SOURCE system.
- RFSNDSPLF Send Spooled File this will send a Spooled File from an AS/400 (*SOURCE) system to the *TARGET system.

Process execution methods

The REV DATAFLOW processes can be executed from:

- The REV DATAFLOW Windows interface in the REV DATAFLOW Console.
- Command on AS/400.
- · Command line on AIX, LINUX, UNIX or WINDOWS.

Unattended Transfers

REV DATAFLOW can be run in unattended mode by inserting the commands into automation software such as REV SCHEDULER.





RFRTVOBJ - Retrieve Object

This procedure will Retrieve an Object:

- To the *SOURCE system.

The Object can be a:

- Stream File.
- 🕑 iSeries Library File, 🗐 iSeries Save File.

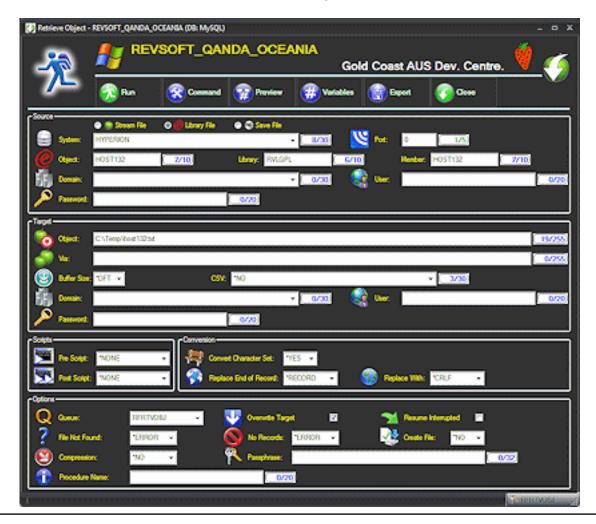
Scripts can be executed:

- Pre transfer on the *SOURCE and/or *TARGET systems,
- Post transfer on the *SOURCE and/or *TARGET systems.

Data can be converted as well as End of Record markers added, removed or changed.

If an iSeries Library file is being used Comma Separator Values (CSV) can be used and can be:

- *NO this will send as fixed length fields,
- *YES comma's will separate the field values.
- User entered separator value up to 30 characters in length.







RFSNDMCD -Send & Run command
This procedure will Send a command from the:

- SOURCE system,

Scripts can be executed:

- Pre transfer on the *SOURCE and/or *TARGET systems,
- Post transfer on the *SOURCE and/or *TARGET systems.



Any output or data from the execution of this command or command line will be displayed in the Log and the job log.





RFSNDOBJ - Send Object

This procedure will Send an Object:

- From the **SOURCE system,

The Object can be a:

- Stream File.
- 🥙 iSeries Library File, 🗐 iSeries Save File.

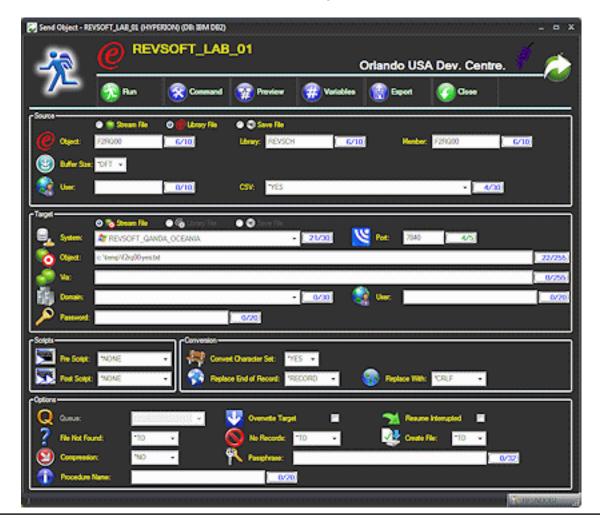
Scripts can be executed:

- Pre transfer on the *SOURCE and/or *TARGET systems,
- Post transfer on the *SOURCE and/or *TARGET systems.

Data can be converted as well as End of Record markers added, removed or changed.

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- *NO this will send as fixed length fields,
- *YES comma's will separate the field values.
- User entered separator value up to 30 characters in length.







RFSNDSPLF - Send Spooled File

This procedure will send a Spooled File:

- From an AS/400 (*SOURCE) system,

Scripts can be executed:

- Pre transfer on the *SOURCE and/or *TARGET systems,
- Post transfer on the *SOURCE and/or *TARGET systems.

Data can be converted as well as End of Record markers added, removed or changed.

If the *TARGET server is a WINDOWS server a .pdf file can also be created during this procedure.







Pre Scripts

Pre Scripts are a list of pre defined Scripts that can be executed on the:

- *SOURCE.
- *TARGET.

systems.

Any messages that are detected during the Pre Script process are sent back to the Source system and can be viewed in the Log.

Post Scripts

Post Scripts are a list of pre defined Scripts that can be executed on the:

- *SOURCE.
- *TARGET,

systems.

Any messages that are detected during the Post Script process are sent back to the Source system and can be viewed in the Log.

Encryption

To further enhance the security of the transfer REV DATAFLOW uses AES (Advanced Encryption Standard) for every data transfer.

The encryption pass phrase is only partially entered by the user and as such the entire pass phrase cannot be viewed in any place.

Resend Interrupted

If a transfer is interrupted and fails (at any point) the process can be restarted at the point where it failed.

The REV DATAFLOW software will detect the actual data bytes sent and restart the transfer process from that point.

Compression

To effectively utilize the band width REV DATAFLOW can compress the data and maximize the data in each transmission, between the two servers.

The compression used is standard GZip and the space savings will vary depending upon the amount of actual data that can be compressed.

Options

Some of the Transfer options can be manually selected or reference the Tailoring Options to allow for more generic transfers:

• File Not Found - File is not found (*ERROR, *OK, *TO),

No Records - No records to be sent (*ERROR, *OK, *TO)

Create File - Create Target file if no records to send (*NO, *YES, *TO),





Data Conversion

As part of the Transfer process REV DATAFLOW can convert data.



The conversions can be from and to ASCII and EBCDIC.

Carriage Returns (CR) and/or Line Feeds (LF) can also be added or stripped from the data as 🔽 End of Record can be 🖤 Replaced with other characters/markers.

Data from UNIX and WINDOWS can also be treated as a record by record when sending to or from an AS/400.

Run as User

Sor correct authentication each process can be provided with a:

- User Profile name if AS/400.
- · User Name on AIX, LINUX and UNIX,
- Domain, User and Password on WINDOWS.

Fully Networked

REV DATAFLOW can be fully networked (via REV VIEW) to allow for multiple Focal Points ion your network.

From a Focal Point all REV DATAFLOW procedures can be:

- Controlled.
- Managed,
- Viewed.

Multiple Concurrent Transfers

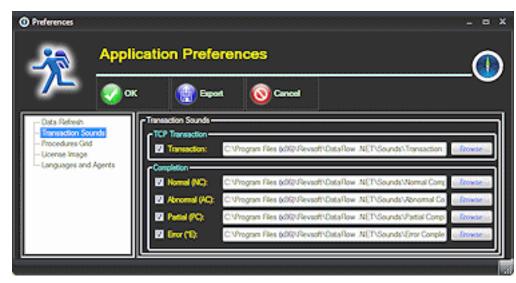
Multiple REV DATAFLOW transfers can be executed concurrently.

Configurable Sounds

The Host and Enterprise Procedures can be configured for sounds to be played based on the detection of status changes of Procedures.

The Procedures can be configured so they:

- Automatically update.
- Play sounds,
- · Change colors. whenever a REV DATAFLOW procedure is being executed in your network.







Comma Separator Values

If an iSeries Library file is being used Comma Separator Values (CSV) can be used and can be:

- *NO this will send as fixed length fields,
- *YES comma's will separate the field values,
- User entered separator value up to 30 characters in length.

Variables

The variables that can be used in REV DATAFLOW fall into 2 areas:

- Procedure variables.
- System variables.

₩ When variables are used there is also a Preview that allows you to view the:

Defined value:

SNDMSG MSG('Starting #PRCCMD which is #PRCNAME ID - #PRCINTID from Server #PRCSOURCE') TOUSR(*SYSOPR).

Execution value:

SNDMSG MSG('Starting RFSNDOBJ which is SEND_EDI_ORDERS - 201217100000019 from Server WIN_EDI_SERVERS_01') TOUSR(*SYSOPR).

The variables can be used in the:

Pre Scripts,
 Transfer object names,
 Post Scripts.

All variables (Procedure and System) can all be identified by the # character.

Some of the System shipped variables are as follows:

- End Date. • #PRCENDD • #PRCCMD - Command Name. #PRCENDT - End Time, • #PRCNAME - Procedure Name, • #PRCSTRD - Start Date. • #PRCSOURCE - Source Machine, • #PRCSTRT - Start Time. • #PRCTARGET - Target Machine. #PRCOBJ - From Object, - To Object. #PRCTOBJ #PRCVOBJ Via Object, • #PRCCOMP - Compression, - Pre Script Name, - Post SCript Name. #PRCPOST #PRCPRE • #PRCCRT - Create File, #PRCFNF - File Not Found, • #PRCCSV - No Records. - Comma Separator Value, #PRCNOR

• #SYSDATE - 6 long date in System Format,

• #SYSDOW3 - Day of week - MON, TUE etc.,

#SYSJOBNAM - i5OS Job Name,
 #SYSUSRNAM - i5OS User Name,
 #USER - User Account,

• #SYSNB - i5OS Job Number,

• #SYSJOB28 - Job/User/Number,

• #SYSMTH3 - Short month name - JAN, FEB etc.,

#SYSTEM - System Name,#SYSNAME - Alias Name.





Review Timings

As a REV DATAFLOW procedure is running all the timings for sub processes are registered and can be reviewed and reported.

Live Timings can be reviewed as the process is executing and updated automatically.

Progress Bars show the current status of the transfer.



If a Resend of an Interrupted transfer occurs the original data is also visible.

Compression statistics are also displayed.

All Transfer options are clearly visible.

In this example the previous transfer had sent 2,384,976 of the total object size of 14,386,944.

When the Resend Interrupted is initiated REV DATAFLOW will detect the actual data bytes sent and restart the transfer process from that point onwards.

In this example the remaining 12,001,968 bytes were sent to complete the transfer.

The compression rate was 65.92% as the total bytes sent was 4,091,083.





Procedures Panels

When REV DATAFLOW Procedures are executing (or have been executed) you need to have a mechanism to control and manage them - this is performed by the Procedures Panels.

This will show all the Procedures that have been executed or are being executed on a date or the date range.

As jobs are running they will:

 Change colors, · Play Sounds,

to reflect the current status of the REV DATAFLOW Procedures.

From the Procedures Panel you can:

• Re Send. Re Send Interrupted, Investigate and Manage,

REV DATAFLOW Procedures.

The Procedures Panel will be the panel most used by the operations personnel within your corporation to control the Transfers executed by REV DATAFLOW.

Host Procedures



An Host Procedures Panel to allow you to control and manage Procedures on a Server.

Enterprise Procedures

7 An Enterprise Procedures Panel to allow you to control and manage Procedures on all networked Servers.







Job Queues (LINUX, UNIX & WINDOWS only)

igcap Q Jobs Queues allow you to control the streaming of the execution of Data Transfers.

A single streamed Job Queue will only allow 1 Data Transfer to be executed at a time.

	Queue Name	Size	Procedures	Hold	Description
				[M]	
	RFRTVOBJ	5	0	83	Default queue for RFRTVOBJ.
2	RESNOCMO	5	0	83	Default queue for RESNDCMD.
	RESNOOBJ	1	0	83	Default queue for RFSNDOBJ.
	WIN_HIGH	5	0	83	High priority queue to AMERICAS.
,	WIN_LOW	- 5	0	E3	Low priority queue to AMERICAS.

All Job Queues are user defined and controlled where you can:

- · Define new Job Queues,
- Define and update the depth of the Job Queue.
- · Hold and Release the Job Queue,
- · Work with the Data Transfers on the Job Queue.

Job logs (LINUX, UNIX & WINDOWS only)

All Data Transfers executed create a job log and this shows complete details of the execution of the Procedure.

The header of the job log contains:

- Version and Build of the Engine.
- · Details of the:
 - System name,
 - · Alias name,
 - · Platform.
 - · Type,
 - · DB location,
 - · Process Id,
- Command Line Name,
- Run Id.

Job logs can be exported as:

- · .pdf,
- .txt.

files.

```
Tue 19-Jun-12 00:05:04
Tue 19-Jun-12 00:05:04
Tue 19-Jun-12 00:05:04 Log for RFRTVOBJ
Tue 19 Jun 12 00:05:04
Tue 19-Jun-12 00 05 04 Version - ENT-10 2 1243
 Tue 19-Jun-12 00:05:04 REVSOFT
Tue 19-Jun-12 00.05.04 User - huyt
Tue 19-Jun-12 00.05.04 System - OCEANIA
Tue 19-Jun-12 00.05.04 Alias - REVSOFT_QANDA_OCEANIA
Tue 19-Jun-12 00.05.04 Platform - WINDOWS
Tue 19-Jun-12 00.05.04 Type - WINDOWS
Tue 19-Jun-12 00.05.04 DSN - Rev-REVSOFT_QANDA_OCEANIA.FLW
Tue 19-Jun-12 00:05:04 DB Host = (refer the DSN)
Tue 19-Jun-12 00 05 04 PID
Tue 19-Jun-12 00 05 04
                                             -43504
Tue 19-Jun-12 00:05:04
Tue 19-Jun-12 00:05:04
Tue 19-Jun-12 00:05:04 Sending FLW/STATUS/ADD to REVSOFT_LAB_01 via View
Tue 19 Jun 12 00 05 04 Sending FLW/FRC_UPD/ADD to Control Center on REVSOFT_QANDA_OCEANIA
Tue 19 Jun-12 00 05 04 Sending FLW/FRC_UPD/ADD to REVSOFT_LAB_01 via View
Tue 19-Jun-12 00:05:04 New job created, ID = 201217100000019
Tue 19-Jun-12 00:05:04 Procedure 201217100000019 starting on REVSOFT_QANDA_OCEANIA
Tue 19-Jun-12 00:05:04 Sending FLW/JOB_LOG/ADD to REVSOFT_LAB_01 via View
Tue 19 Jun 12 00 05 08 Ready for next job in queue (size-5, active-0)
Tue: 19-Jun-12:00:05:08 Job is ready to go...
Tue: 19-Jun-12:00:05:08 Sending FLW/CMD_UPD/ADD to REVSOFT_LAB_01 via View
Tue: 19-Jun-12:00:05:08 Sending FLW/STATUS/ADD to REVSOFT_LAB_01 via View
Tue 19-Jun-12 00.05 08 Sending FLW/PRC_UPD/ADD to Control Center on REVSOFT_QANDA_OCEANIA
Tue 19-Jun-12 00.05 09 Sending FLW/PRC_UPD/ADD to REVSOFT_LAB_01 via View
Tue 19-Jun-12-00-05-09 Opening C\Temp\host132.td
Tue 19-Jun-12-00-05-09 Warning object already exists (overwriting) C\Temp\host132.td
Tue 19-Jun-12-00-05-09 Locking object C\Temp\host132.td
Tue 19-Jun-12-00.05-09 Sending retrieve object request to HYPERION
Tue 19-Jun-12-00.05-09 Source name = /03YS.LIB/RVI.GPL.LIB/HOST132.FILE/HOST132.MBR
Tue 19-Jun-12-00.05-09 Local name = /03Yesubboxt132.html
```