

# Producing Reports in Batch

All of the above reports can also be run in batch. As noted above, no security or wildcard restrictions apply in batch.

Batch reports are printed on Natural printer 1, which must be allocated correctly in the job control. The Natural batch session must have the necessary LFILES (131 and 216) correctly set and should run in delimiter input mode (IM=D). The examples below assume that input delimiter is set to ,.

The batch reporting programs input their parameters in several steps. This is described separately for each program.

This subsection covers the following topics:

- Log Reports
  - Accounting Data
  - Network Information
  - Network Job Flow
  - Schedule of Jobs
  - Network Start Summary
  - Network Schedule Overview
  - Activation Overview
  - Extended Log Report
  - Report of Used JCL
- 

## Log Reports

Log reports (equivalent to online options 1, 2 and 3) are produced by program RE-LOG-P. It does 3 INPUTs:

1. Options
  - Report type
    - A** all events in log
    - B** abended jobs
    - T** terminated jobs
    - X** not started jobs
  - Count Jobs
    - Y** produce a count of jobs (Warning: this requires a rereading of the whole log and therefore will greatly increase the elapsed and cpu times and the number of Adabas calls for the batch job)
    - N** do not produce a count of jobs
2. Owner/Network/Job
  - Owner name. \*, > and < wildcards are allowed. Use \* for all owners.
  - Network name. \*, > and < wildcards are allowed. Use \* for all networks.
  - Job name. \*, > and < wildcards are allowed. Use \* for all jobs.
3. Date, time, run number ranges
  - From date (format YYYYMMDD)
  - From time (format HH:II:SS)
  - From run (maximum 999999999)
  - To date (format YYYYMMDD)
  - To time (format HH:II:SS)
  - To run (maximum 999999999)

## Examples

Below are examples of Natural CMSYNIN data for producing various log reports:

```
RE-LOG-P T,Y
```

```
EX*,E10>
```

```
20011101,,,20011130,23:59:59,999999999
```

will produce a report of all terminated jobs in networks with names greater than E10 under owners beginning EX, starting at 00:00:00 on 1st November 2001 and ending at 23:59:59 on 30th November 2001, for run numbers in the range 0 to 999999999. A count of jobs will be produced.

```
RE-LOG-P A,N
```

```
*,*,*
```

```
20011114,09:00:00,51,20011114,17:30:00,60
```

will produce a report of all events between 09:00:00 and 17:30:00 on 14th November 2001 for all owners, networks and jobs with run numbers between 51 and 60. A count of jobs will not be produced.

## Accounting Data

Accounting data (equivalent to online option 4) is produced by program RE-ACC-P. It does 2 INPUTs:

1. Owner/Network/Job
  - Owner name. \*, > and < wildcards are allowed. Use \* for all owners.
  - Network name. \*, > and < wildcards are allowed. Use \* for all networks.
  - Job name. \*, > and < wildcards are allowed. Use \* for all jobs.
2. Date, time, run number ranges
  - From date (format YYYYMMDD)
  - From time (format HH:II:SS)
  - From run (maximum 999999999)
  - To date (format YYYYMMDD)
  - To time (format HH:II:SS)
  - To run (maximum 999999999)

## Examples

Below are examples of Natural CMSYNIN data for producing various accounting reports:

```
RE-ACC-P
```

```
EXAMPLE,E01-CONTI
```

```
20011101,,,20011130,23:59:59,999999999
```

will produce accounting data for all jobs in network E01-CONTI under owner EXAMPLE, starting at 00:00:00 on 1st November 2001 and ending at 23:59:59 on 30th November 2001, for run numbers in the range 0 to 999999999.

```
RE-ACC-P
```

```
EXAMPLE,*,E10*
```

```
20011101,09:00:00,51,20011231,23:59:59,60
```

will produce accounting data for for all jobs beginning E10 in all networks under owner EXAMPLE, starting it 09:00:00 on 1st November 2001 ending at 23:59:59 on 31st December 2001, with run numbers between 51 and 60.

## Network Information

Network reports (equivalent to online options 5, 6 and 7) are produced by program RE-NET-P. It does 2 INPUTS:

1. Report type
  - **S** summary
  - **D** detailed
  - **J** detailed, with JCL
2. Owner/Network
  - Owner name. \*,> and < wildcards are allowed. Use \* for all owners.
  - Network name. \*,> and < wildcards are allowed. Use \* for all networks.

## Examples

Below are examples of Natural CMSYNIN data for producing various network reports:

```
RE-NET-P S
```

```
*,*
```

will produce a summary report for all networks.

```
RE-NET-P J
```

```
SYS*,W>
```

will produce a detailed report, including JCL for all networks with names greater than W in owners beginning SYS.

## Network Job Flow

Network job flow (equivalent to online option 8) is produced by program RE-FLW-P. It does 1 INPUT:

1. Owner/Network
  - Owner name. \*,> and < wildcards are allowed. Use \* for all owners.
  - Network name. \*,> and < wildcards are allowed. Use \* for all networks.

## Examples

Below are examples of Natural CMSYNIN data for producing various network job flow reports:

```
RE-FLW-P
```

```
EXAMPLE,E60-FLOW
```

will produce a report for E60-FLOW in owner EXAMPLE.

```
RE-FLW-P
```

```
SYS*,W>
```

will produce a report for all networks with names greater than W in owners beginning SYS.

## Schedule of Jobs

Job schedules (equivalent to online option 9) are produced by program RE-JSC-P. It does 2 INPUTs:

1. Owner/Network
  - Owner name. \*,> and < wildcards are allowed. Use \* for all owners.
  - Network name. \*,> and < wildcards are allowed. Use \* for all networks.
2. Date range
  - From date (format YYYYMMDD)
  - To date (format YYYYMMDD)

## Examples

Below are examples of Natural CMSYNIN data for producing various job schedule reports:

```
RE-JSC-P
EXAMPLE, E01-CONTI
20011101, 20011130
```

will produce a schedule of jobs in network E01-CONTI under owner EXAMPLE, between 1st and 30th November 2001.

```
RE-JSC-P
*, *
20011101, 20011231
```

will produce a schedule of all jobs, between 1st and 30th November 2001.

## Network Start Summary

The network start summary (equivalent to online option 10) is produced by program RE-ACT-P. It does 2 INPUTs:

1. Owner/Network
  - Owner name. \*,> and < wildcards are allowed. Use \* for all owners.
  - Network name. \*,> and < wildcards are allowed. Use \* for all networks.
2. Date range
  - From date (format YYYYMMDD)
  - To date (format YYYYMMDD)

## Examples

Below are examples of Natural CMSYNIN data for producing various network start summary reports:

```
RE-ACT-P
EXAMPLE, *
20011101, 20011130
```

will produce a summary of all networks under owner EXAMPLE, between 1st and 30th November 2001.

```
RE-ACT-P
E*, M<
20011101, 20011231
```

will produce a summary of all networks with names less than M under owners beginning with E between 1st November and 31st December 2001.

## Network Schedule Overview

The network schedule overview (equivalent to online option 11) is produced by program RE-NSC-P. It does 3 INPUTS:

1. Report Type
  - **A** with schedule.
  - **B** to activate, sorted by network.
  - **C** to activate, sorted by time.
2. Owner/Network
  - Owner name. \*,> and < wildcards are allowed. Use \* for all owners.
  - Network name. \*,> and < wildcards are allowed. Use \* for all networks.
3. Date range
  - From date (format YYYYMMDD).
  - To date (format YYYYMMDD).

### Examples

Below are examples of Natural CMSYNIN data for producing various schedule overview reports:

```
RE-NSC-P A
EXAMPLE, *
20011101, 20011130
```

will produce an overview of all networks under owner EXAMPLE, scheduled to run between 1st and 30th November 2001.

```
RE-NSC-P B
E*, M<
20011101, 20011231
```

will produce an overview of schedule extractions (activations) of all networks with names less than M under owners beginning with E between 1st November and 31st December 2001.

## Activation Overview

The activation overview (equivalent to online option 12) is produced by program RE-ACO-P. It does 3 INPUTS:

1. Activation Types to be included in report
  - \* all network activations
  - **A** networks activated via NOPUAC4N API
  - **M** networks activated manually
  - **O** networks activated as a result of EOJ checking
  - **R** networks activated as part of recovery processing for an abended job
  - **S** networks activated according to schedule

You can either specify \* or any combination of **A, M, O, R, S**
2. Owner/Network
  - Owner name. \*,> and < wildcards are allowed. Use \* for all owners.
  - Network name. \*,> and < wildcards are allowed. Use \* for all networks.
3. Date, time, run number ranges
  - From date (format YYYYMMDD)
  - From time (format HH:II:SS)
  - From run (maximum 999999999)
  - To date (format YYYYMMDD)

- To time (format HH:II:SS)
- To run (maximum 999999999)

## Examples

Below are examples of Natural CMSYNIN data for producing various activation overview reports:

```
RE-ACO-P AM
EXAMPLE, *
20011101,,,20011130 (equivalent to 20011101,00:00:00,1,20011130,23:59:59,999999999)
```

will produce an overview of all networks under owner EXAMPLE, activated manually or by API between 1st and 30th November 2001.

```
RE-ACO-P *
*, *
20011115,14:00:00,71,20011115,22:00:00,99
```

will produce an overview of all activations between 14:00:00 and 22:00:00 on 15th November 2001, with run numbers between 71 and 99.

## Extended Log Report

This report is only available in batch and can be used to print the following:

- log records
- job output written to the log
- active JCL changes written to the log
- active JCL

The report program is NOPLP01P and it does one input to receive these parameters:

Parameter	Explanation		
FROM-DATE-TIME	Format YYYYMMDDHHIISS, starting time for log report.		
THRU-DATE-TIME	Format YYYYMMDDHHIISS, ending time for log report.		
LANG	Language in which log records will be printed, either 1 for English (the default) or 2 for German.		
OWNER	Owner(s) to be included in the report. The wildcards *, > and < are allowed.		
NETWORK	Network(s) to be included in the report. The wildcards *, > and < are allowed.		
DBENV	Reserved for future use. Do not specify this parameter.		
RUN-FROM	Starting run number.		
RUN-THRU	Ending run number.		
JOB	Job(s) to be included in the report. The wildcards *, > and < are allowed.		
ACTJCL	<b>Y or N.</b> If Y, any active JCL for jobs matching the owner/network/job/run criteria is printed after the log information.		
SYSOUT	<b>Y or N.</b> If Y, any logged sysout for jobs matching the owner/network/run/job/date/time criteria is printed.		
CHGJCL	<b>Y or N.</b> If Y, any active JCL modifications for jobs matching the owner/network/run/job/date/time criteria are printed.	EXTLOG	<b>Y or N.</b> Specify a default value for ACTJCL, SYSOUT and CHGJCL.

Because of the large number of parameters, you are recommended to use keyword mode for specifying them. NOPLP01P can be executed in a standard batch Natural, with LFILES 131 and 216 set. The output is written to the Natural system print dataset (CMPRINT).

The following example assumes the Natural parameters IM=D,IA==,CF=%.

```
NOPLP01P
```

```
FROM-DATE-TIME=20011101000000%
THRU-DATE-TIME=20011115163000%
RUN-FROM=1%
RUN-THRU=999%
OWNER=UKSJ*%
NETWORK=TEST-2>%
JOB=L<%
LANG=2%
EXTLOG=Y
```

This example will print all log records as well as logged sysout, logged active JCL modifications and active JCL for jobs with names less than L in networks with names greater than TEST-2 under owners beginning with UKSJ, with run numbers in the range 1 to 999 between 00:00 on 1st November 2001 and 16:30 on 15th November 2001. The log records will be printed in German.

**Note:**

The date/time range has no influence on printing of active JCL.

## Report of Used JCL

The report of used JCL is produced by the program RJCLOC-P. It does 2 INPUTs:

- **Owner**  
Wildcard may be used.
- **Network**  
Wildcard may be used.

Below are examples of Natural CMSYNIN data for producing JCL usage reports:

- RJCLOC-P EXAMPLE NET-01  
List used JCL of network EXAMPLE / NET-01.
- RJCLOC-P TEST\* \*  
List used JCL of all networks of owners with have ‡TESTŸ as begin of their names.