

# RestDDM



RestDDM Settings

# Input type – option: NCD Files (SYSOBJ, SYSTRANS)

Select folder containing NCD files downloaded from mainframe

Address: D:\Natural-Systrans-file\NCD-20030927

Name	Size	Type	Date Modified
CENS_OBJ	3 821 KB	NCD File	27.9.2003 21:14
CIOPTP_OBJ	9 110 KB	NCD File	27.9.2003 21:12
CNAG_OBJ	23 135 KB	NCD File	27.9.2003 21:12
CNFTBT_OBJ	484 KB	NCD File	27.9.2003 21:07
CNFTTP_OBJ	2 182 KB	NCD File	27.9.2003 21:07
CONTRAT_OBJ	204 KB	NCD File	27.9.2003 21:06
DDM_OBJ	2 641 KB	NCD File	27.9.2003 21:02
DEMINDIR_OBJ	193 KB	NCD File	27.9.2003 21:06
DEMIRIPBT_OBJ	26 228 KB	NCD File	27.9.2003 21:06
DEMRIPT2_OBJ	1 931 KB	NCD File	27.9.2003 21:06
DEMRIPT3_OBJ	227 KB	NCD File	27.9.2003 21:12
DEMRIPTP_OBJ	14 851 KB	NCD File	27.9.2003 21:04
DORBATCH_OBJ	2 782 KB	NCD File	27.9.2003 21:09
DOR-INT_OBJ	212 KB	NCD File	27.9.2003 21:13
DORMUSIC_OBJ	34 KB	NCD File	27.9.2003 21:13
DOR-OLD_OBJ	4 489 KB	NCD File	27.9.2003 21:09
ELEZIONI_OBJ	7 755 KB	NCD File	27.9.2003 21:14
IPITP_OBJ	1 580 KB	NCD File	27.9.2003 21:15
ISCPPTP_OBJ	2 504 KB	NCD File	27.9.2003 21:15
LIRICA_OBJ	5 112 KB	NCD File	27.9.2003 21:12

## Example of the NCD file format

```

H**ENAT3106200309272110030MVS/ESA                                OAE B
**C**
**D01NAT3103F CIOPTP APE-NS00 CIOPTP APE-NS00 ALOISI CXPRD 0018 F R
**D02 2000110709565562000110709565560000000926
**D03MVS/ESA CICS 3CXB
**D04
**S**0010INPUT +OPE-USER(A15) +OPE-LOGON(A8) +OPE-PRGM(A8)
**S**0020RESET +PARAMETRO(A250)
**S**0030*
**S**0040REDEFINE +PARAMETRO(A250)
**S**0050 (G-PGM-1 (A8)
**S**0060 G-PGM-2 (A8)
**S**0070 G-PGM-3 (A8)
**S**0080 G-PGM-4 (A8)
**S**0090 G-PGM-5 (A8)
**S**0100 G-MSG-MAP (A45)
**S**0110 G-COGN (A20)
**S**0120 G-NOME (A15)
**S**0130 G-POS (N9)
**S**0140 G-ISN (N8)
**S**0150 G-PAG-20 (N2)
**S**0160 G-CTR-IND (N1)
**S**0170 G-OPE-FLAG-EXIT(A01)
**S**0180 G-OPE-LOGON-EXIT(A08)
    
```

# Input Type – option: Natural Sources (FUSER, FNAT)

RestDDM

System name: SETE-1

Input directory

Input type

NCD (SYSOBJ)  Natural sources (ex. FUSER)  XGR proj. Browse...

Output directory

d:\MT Browse...

Exclude from Output

DDM Access

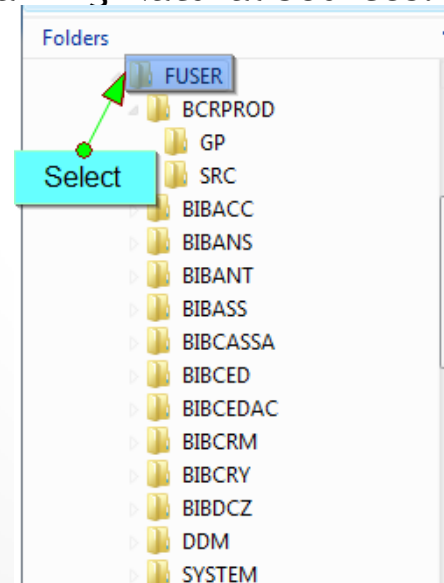
DDM Relation

Unused Objects

Duplicated Fields

Next -> About Help Cancel

Select FUSER, FNAT directory or folder containing Natural Sources:



Natural Source:

```
0010* -----
0020* NOME PROGRAMMA ..... CEPGX003
0030* AUTORE ..... I
0040* IN DATA ..... 05 OTTOBRE 2000
0050* MODIFICATO DA .....
0060* IN DATA .....
0070*
0080* CHIAMATO DA .....
0090*
0100*
0110* CONTRIBUZIONE MENSILE CRIF NISSAN - CREAZIONE WROKFILE/CANC. STORICO
0120* ..... DETTAGLIO
0130*
0140* -----
0150DEFINE DATA LOCAL
0160
01701 FI341CRSTO-VIEW VIEW OF FI341CRSTO
01802 FLAG-INVIO ..... /* A 1 N D
01902 Progr-INVIO ..... /* N 3,0 N D
02002 FINEMESE-ELAB ..... /* N 8,0 N D
02102 DATA-INVIO ..... /* N 8,0 N D
02202 NUM-ANA-R-1 ..... /* N 9,0 N
```

# Input Type – option: XGR proj.

The screenshot shows the RestDDM dialog box with the following configuration:

- System name: SETE-1
- Input directory: (empty)
- Input type:  XGR proj. (selected),  NCD (SYSOBJ),  Natural sources (ex. FUSER). A "Browse..." button is next to the radio buttons.
- Output directory: d:\MT. A "Browse..." button is next to the text field.
- Exclude from Output:
  - DDM Access
  - DDM Relation
  - Unused Objects
  - Duplicated Fields
- Buttons at the bottom: Next ->, About, Help, Cancel.

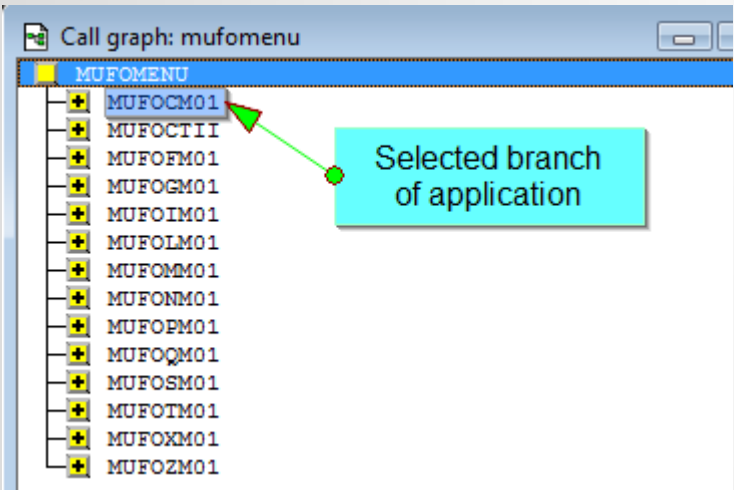
XGR is XML file containing the application structure (or part) created in RestNat.

Exclude from Output:  
To exclude from results DDM relation option.

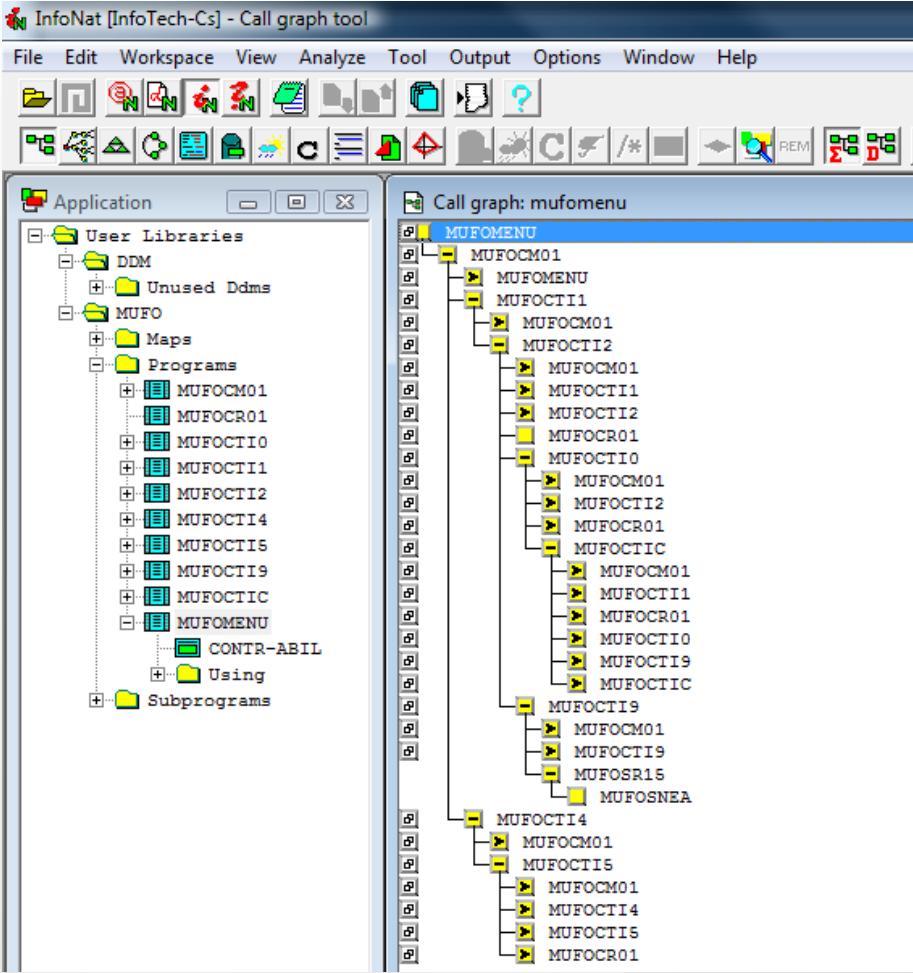
# RestNat - XGR

for more info: [isolate part of application \(video\)](#)

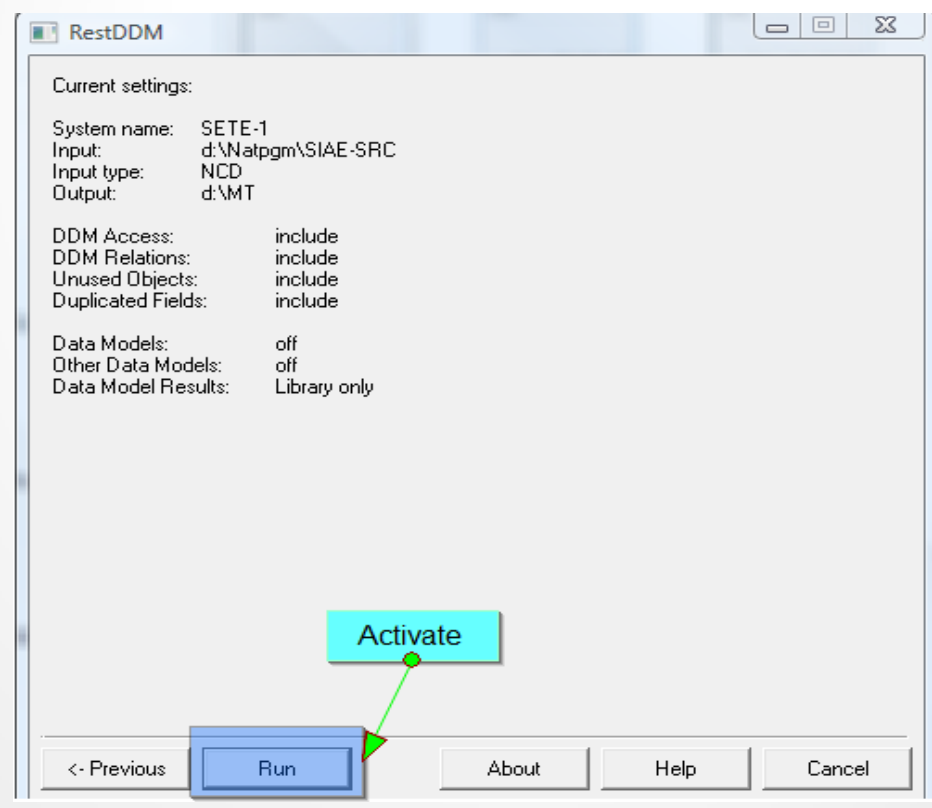
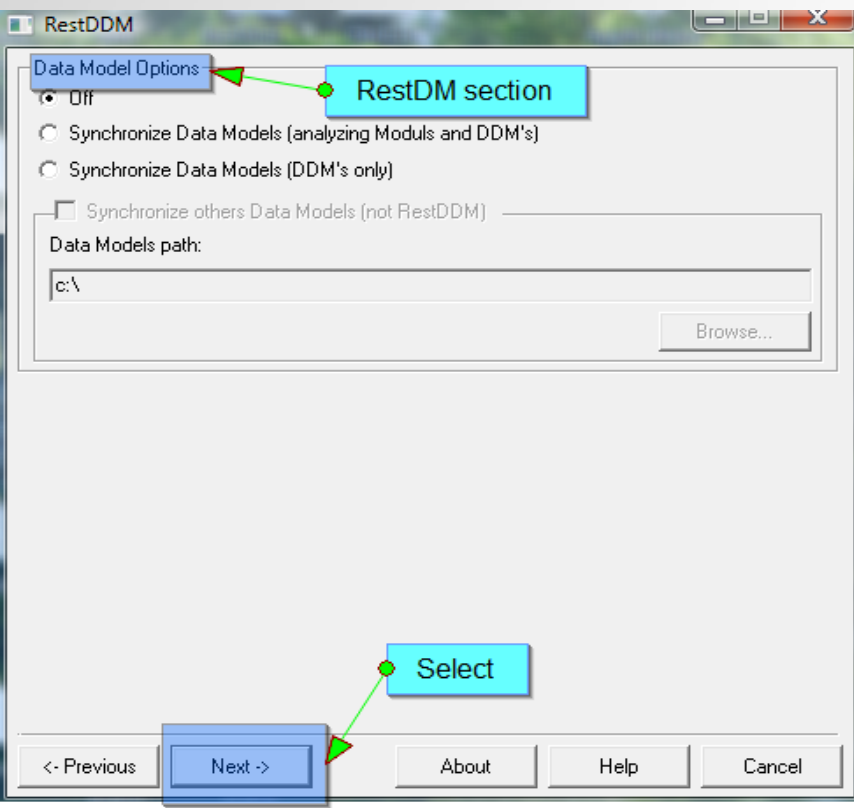
Original MUFOMENU Call Graph(complex)



Selected (Isolated) part of application(root MUFOCM01)



# Output options – Data Model (RestDM license required)



# Settings – Run, System and Steplib Library

The image shows the RestDDM software interface with three overlapping windows:

- RestDDM Settings Window:** Displays current settings for system name (SETE-1), input type (Natural source), output type (Run objects only), and system libraries (BIBASS). It also includes options for DDM usage, data models, and output recreation.
- Input System Tree Window:** A hierarchical tree view showing folders like BCRPROD, BIBANS, BIBANT, BIBASS, BIBCASSA, BIBCED, BIBCEDAC, BIBCRM, BIBCRY, and BIBDCZ. A callout box labeled "Select to exclude from analysis" points to the BIBACC folder.
- Select to start analysis Dialog:** A list of system names with callout boxes: "Select to start analysis" pointing to BIBANT, "Select Steplibs" pointing to BIBCED, and "Select" pointing to the Run button in the RestDDM window.

# RestDDM Results

RestDDM is launched (Select Run) in last RestDDM Settings step, generated results are published in tree structure bellow.

To update RestDDM results simply run again RestDDM. This activity can be scheduled (daily, weekly etc) and synchronize with NCD files downloads (mainframe).

The screenshot shows the RestDDM software interface. On the left is a tree view with the following structure:

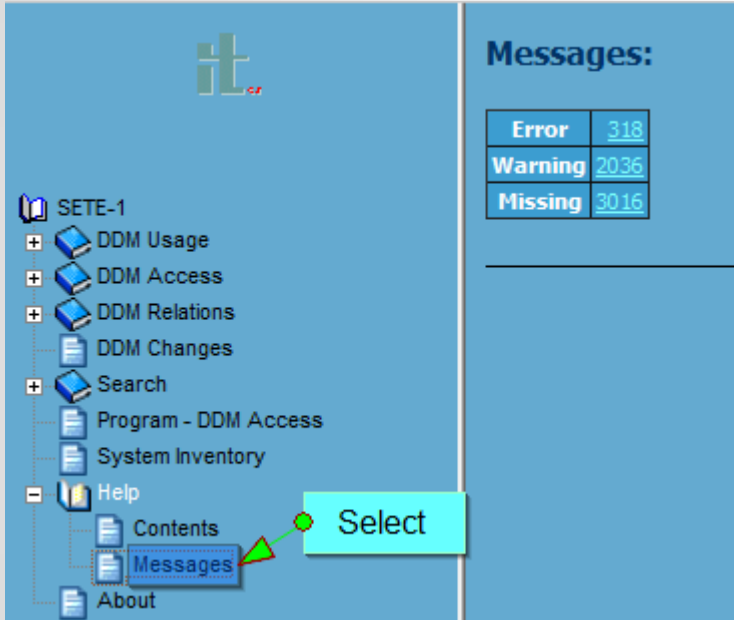
- SETE-1
  - DDM Usage
    - System
      - All DDM
      - Used DDM
      - Unused DDM
      - Unused Fields
      - Duplicated Fields
    - Library
      - Used DDM
  - DDM Access
  - DDM Relations
  - DDM Changes
  - Search
    - Field
    - DDM
    - Program
  - Program - DDM Access
  - System Inventory
  - Help
  - About

On the right is a table titled "DDM - Used DDM (313/533)". The table has columns: DB, FILE, L, P, and a text column. The data rows are as follows:

DB	FILE	L	P	
1	5098	6	312	AGENZIE
1	7798	1	4	AIR-FILM
1	7788	2	9	AIR-HDR
1	1188	1	8	AMIV-CONT-RIEP
1	938	7	138	AMIV-MOD501221
1	5808	1	1	AMRA-RIEP-VERS
1	5308	11	479	ANAG-DRMI
1	5048	7	138	AVENTI-DIR-NEW
1	7758	1	6	AVR-ARN
1	7768	2	7	AVR-FILM-OPE-DETT
1	7748	2	10	AVR-FILM
1	7738	2	11	AVR-HDR
1	6058	3	10	CAE-GLOBALE
1	2748	1	5	CIEC-REND-CONF
1	838	2	27	CIOP-BOLL-IMMAGINI
1	438	1	14	CIOP-FILM-RIPAR-STORICO
1	408	10	177	CIOP-FILM-RIPAR
1	398	1	2	CIOP-PIANI-RIPARTO
1	328	2	17	CIOP-RIP-01
1	1438	2	38	CIOP-RIP-CLASSIFICHE
1	7778	4	6	CIOP-RIP-UTIL
1	378	5	150	CIOP-UTIL177A



# RestDDM Messages



Messages file are located on Xml folder in Output Directory

RestDDM results are sensitive on setting System and Steplib.

Example of the Error file:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <ERROR>
- <MSG STAMP="20120309095353">
  <![CDATA[ 0013 [CIOPTP\GS-QB16 .NSP:00081,0250] incorrect structure before / in END_FIND >>#0250
  ]]>
</MSG>
- <MSG STAMP="20120309095353">
  <![CDATA[ 0013 [CIOPTP\GS-QB16 .NSP:00083,0260] incorrect structure before / in END_SUBROUTINE >>#0260
  ]]>
</MSG>
- <MSG STAMP="20120309095817">
  <![CDATA[ 0013 [CNAG\FLA .NSP:00073,0160] unaccessible statement No.:0010 in LOOP >>#0160
  ]]>
</MSG>
- <MSG STAMP="20120309100224">
  <![CDATA[ 0013 [CNFTBT\GS-1 .NSP:00035,0050] incorrect structure before / in DOEND >>#0050
  ]]>
```

RestDDM downloads:

[Results presentation](#)

RestDDM Related topics:

[Reverse Data Modelling](#)

[Reverse Data Modelling - Work Flow](#)

Thank you for your attention

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