

# MDCMS SYNON 2E Interface Manual English v8.2

## MDCMS-SYNON/2E Interface Guide

### Overview

The primary objective of the SYNON/2E interface is to handle the post generation promotion and deployment between development, test and production environments of the objects and source. The interaction and control of the SYNON/2E models is around the selection and “soft” locking of the SYNON/2E model objects. Objects can be checked out of a given model by a specific user in MDCMS and these objects will then be added to that users’ SYNON/2E Model Object List in the same model. Once an object has been successfully promoted into the next level from the SYNON/2E Gen-Library, MDCMS removes the entry from that user’s Model Object List. “Soft” locking allows the functionality of SYNON-2E to be used unrestricted, but warns the developer when checking out an object, already checked out by another developer.

### Setup

The first step to setting up the 2E-MDCMS Interface is the *MDCMS Setup Menu*. This portion of MDCMS defines the application groups, environments, 2E models, object types and methods of source and object management. It is a mandatory process for using MDCMS.

The MDCMS menu is accessed by typing MDCMS from a command line. Press F4, if necessary, to select a product instance other than the default instance.

Select Option 1 to bring up the *MDCMS Setup Menu*.

```

CMSMJU2                COMPANY NAME                24.06.24
SCRN1                  MDCMS Setup Menu              09:38:17

  Opt  Description                Opt  Description
  1    Application Groups          11   System Settings
  2    Promotion Levels           12   Job Settings
  3    Attributes                 13   Service Jobs
  4    Commands/Scripts           14   Logging
  5    Templates                  15   User Groups
  6    IBMi Locations             16   Project Costs
  7    Distribution Levels

  8    Security Settings (MDSEC)  17   Push Settings Data to Locations
  9    License Keys               18   Send Settings to Remote System
 10   Interface Settings         19   Receive Settings from Remote System
                                   20   Create Config Deployment Settings
                                   21   MDCMS Configuration Report

```

```

Selection: __

F3=Exit   F6=Messages   F8=Submitted Jobs   F11=View Output   F21=Sys Command
    
```

## Application Groups

The Application Maintenance function defines application software into manageable groups for MDCMS.

From the *MDCMS Setup Menu*, select option 1 to bring up *Application Codes*

Press F6 to add a new Application Code.

```

MDCAPPL          COMPANY NAME          24.06.24
SCRN2            Add Application Code    09:42:20

Application Code . . . SQLS   DDL and RLA Synon Model

RFP Start Index . . . 80001   RFP Last Created:

Automatically Reapply:
  Constraints: Y Y/N   Journaling: Y   Y/N   Triggers: Y   Y/N

Allow RFP Compile Resume . . . . N   Y/N
Auto-Merge RFP in Send List . . . . O   O=Optional, Y=Yes, N=No
Auto-Merge Received RFP . . . . . N   Y/N
Auto-Delete LFs in Unmanaged Lib. N   Y/N

Update Object Description With:
  Attr / User Defined Attribute. . Y   Y/N
  RFP # 1 / Object Control Level . C   N=None, F=From, O=Origin, C=Current
  RFP # 2 / PTF . . . . . O   N=None, F=From, O=Origin, C=Current
  Appl, Level / APAR . . . . . Y   Y/N
  Proj, Task, Subtask / LICPGM . . Y   Y/N

Enter=Confirm   F12=Previous
    
```

Add a suitable application code and description and press Enter to confirm.

**SYNON-2E Note:** Typically, there will be one MDCMS application per SYNON/2E Model, though certain models may share the same runtime and therefore be managed in the same MDCMS application.

For additional settings on this screen please refer to the *MDCMS Manual* – in the *Application Groups* section

Press F3 to return to the *MDCMS Setup Menu*.

## Promotion Levels

Promotion Level Maintenance defines and sequences the specific environments for the installation of objects for an Application.

**SYNON-2E Note:** From a SYNON/2E perspective the first or lowest promotion level for an application group, is the library/s where any SYNON/2E generated object is promoted **to, from** the ModelGen library. Above this level, promotion levels represent different levels through a normal test or deployment flow/cycle for a given application group. The SYNON/2E ModelGen library is **NOT** considered a promotion level.

From the *MDCMS Setup Menu*, select option 2 to bring up *Promotion Levels*.

Press F6 to add a new *Promotion Level*

```

CMC220                                COMPANY NAME                24.06.24
SCRN2                                 Add Level                    09:49:15

Application . . . . . SQLS
Install Level . . . . . 10
Description . . . . . Synon DDL/SQL Test
Job Description . . . . . SQLSJ0BD_
  Library . . . . . QGPL
Next Level . . . . . 20                Direct Migration . . . Y Y/N
Archive Generations . . . . . 20        Provide Indirect Src . . N Y/N
Based on Level . . . . . Exist Only. N Y/N Resolution Required . . N Y/N
Allow Checkout . . . . . Y Y/N          Allow Receipt . . . . . Y Y/N
Delta Object Level . . . . . N Y/N      Delta Source Level . . . N Y/N
Emergency Level . . . . . N Y/N         Limit Archived Source. Y Y/N
                                          Level Check Warnings . Y Y/N
Auto Receive . . . . . N Y/N            Target OS Release . . *DSTQ
Auto Submit . . . . . N Y=Yes, N=No, S=After PL Snd Cls, W=After PL WF Accp
Auto Approve . . . . . Y Y/N
Auto Launch MDRapid . . . . . Y Y/N
Auto Install . . . . . Y Y=Yes, N=No, R=No when MDRapid required
Auto Close Sent RFP . . . . . S N=No, S=Sent, R=Rcvd wo Warnings, I=Inst wo Warnings

Enter=Confirm  F4=Browse  F12=Previous
    
```

Add an Application Group code or press F4 to select from a list of available codes.

Add a suitable numeric **level** value and **description** for this level. A lower level value is used earlier in the migration path than a higher level value.

Add a **Job Description** that will be used during promotion to this level, or press F4 to select from a list of available IBM i job descriptions.

For additional settings on this screen please refer to the *MDCMS Manual* in the *Promotion Levels* section.

It is highly recommend to completely configure the lowest level, including all required attributes, and then copy that level to save significant time during the configuration of higher levels.

**Press enter** to confirm and return to the *Promotion Levels* screen. **Press enter** to return to the *MDCMS Setup Menu*.

## Attributes

MDCMS Attributes define target libraries and compile behaviour during the promotion process. Each destination for an Application/Level and Object (or source or message) type is uniquely identified by an Attribute. This attribute is then used for setting command definitions, object authority, etc...

**SYNON-2E Note:** Attributes for SQL Indexes, Tables and Views generated by Synon/2E require a special compiler used by 2E and special attributes. 2E SQL source cannot be run using RUNSQLSTM. **YEXCSQL** is the 2E command used to compile 2E SQL DB objects from 2E source and the 2E command will need to be in the Level job description library list for each level where such objects should be compiled (rather than simply moved).

SQLCBLLE or SQLRPGLE are used when FUN owner ACP is SQL view/table/table.

From the *MDCMS Setup Menu*, select option 3 to bring up *Attributes*.

Press **F9** to bring up the *Generate Standard Attributes* wizard.

```

MDCCMED                                COMPANY NAME                                24.06.24
SCRN1                                  Generate Standard Attributes                09:51:50

Application . . . . SQLS
Level . . . . . 10
Object Library . . MDSQLSTST      Name, *NONE
Authority Template. *DFT400      Name
Source Library/Dir. MDSQLSTST
                                   Name, *NONE, *TEMPIFS, *TEMPMBR

Attribute Prefix . *NONE          Prefix, *NONE
      or Suffix . *NONE          Suffix, *NONE

Check/Select Usage. N            N=No, S=Yes via Sys Catalog, X=Yes via MDXREF
Update Existing . . N            Y/N

Filter by:
  Object Category . _____  1=Database, 2=Non-Database, 3=Interface
  Object Type . . . _____
  Sytem Attribute . _____

Enter=Continue  F3=Exit  F4=Browse

```

The purpose of this wizard is to build a set of attributes automatically for a specific *Application Group/Promotion Level* combination.

Add an **Application Group** code or press F4 to select from a list of available codes.

Add a **Promotion Level** code or press F4 to select from a list of available codes.

Add an **Object library**. This is the destination library for the promotion of objects from the Model Gen library. This object library will be used for all of the MDCMS Attributes created during this wizard, for this *Application Group/Promotion Level* combination. This can be edited later for specific MDCMS Attributes from attribute maintenance screens.

Add a source library to the **Source Library/Dir.** field. This will be the library MDCMS uses to copy the source from the Model-Gen library during the promotion to this level.

The **Check/Select Usage.** options help refine which MDCMS Attributes are preselected on the next screen of the wizard. This flag checks the library specified in *Object library* above to see which objects in the library that match the pre-supplied MDCMS Attributes. If matches are found, then these MDCMS Attributes are pre-selected in the next screen of the wizard. The search can use the i OS System Catalogue for that library, or the MDXREF repository can be used to search for matches.

The **Update Existing** flag determines whether the wizard will update any pre-existing *MDCMS Attributes* allocated to this *Application Group/Promotion Level* combination

**Press Enter** to continue with the wizard.

```

MDCMED                      COMPANY NAME                24.06.24
SCRN2                        Generate Standard Attributes          09:57:37

Appl: SYNON  Lvl: 100 Object Lib: MDSQLTST  Source Lib: *NONE

Type options, press Enter.
 1=Select  W=Work with Objects

  Object  System
Opt Type  Attribute  Description
*DATA    DATA      Data Records in a Table
*DTAARA  DTAARA      Data Area
*DTAQ    DTAQ        Data Queue
*FILE    LF         DDS Logical File
*FILE    LFSQL     SQL Index/View using System Naming
*FILE    PF         DDS Physical File
*FILE    PFREF    DDS Reference File
*FILE    PFSQL     SQL Table using System Naming
*SQLALS  SQLALS     SQL Alias
*SQLIDX  SQLIDX     SQL Index
*SQLSEQ  SQLSEQ     SQL Data Area

More...

Enter=Continue  F5=Refresh  F12=Back

```

Use 1 to select all of the relevant MDCMS Attributes that will be needed for this \*Application Group.

\*These will include:

- DATA if configuration data should be migrated to other environments without changing the file format
- the PF and LF attributes, if DDS is used
- DSPF attribute and potentially the PRTF attribute
- The \*PGM attributes for the languages used
- All attributes starting with S2E

**Press enter** to continue with the wizard to the confirmation screen.

## SYNON/2E Models

MDCMS requires the 2E Model libraries and their respective GENLIB's to be registered in order to map model components to the appropriate 2E and system attributes.

Select Option 10 to bring up *MDCMS Interface Settings*.

```

MDLISET                      COMPANY NAME                24.06.24
SCRN1                        MDCMS Interface Settings  09:59:59

      Opt  Description
      1    Jira
      2    ServiceNow
      3    Synon/2E

      9    MDCMS REST API and Diagramming Server

Selection:

F3=Exit  F6=Messages  F8=Submitted Jobs  F11=View Output  F21=Sys Command

```

Select Option 3 to bring up *Synon/2E Model Libraries*

```

MDC2EML                      COMPANY NAME                24.06.24
SCRN1                        Synon/2E Model Libraries  10:03:09
Filter by
Model Lib:                   Desc:                           Gen Lib:

Type options, press Enter.
 2=Edit  3=Copy  4=Delete  5=Display  A=Attributes  J=JOBBD

Opt Model Lib  Description                               Dft GenLib Job Desc  Dft
MDSQLMDL  MD Demo Synon/2E Model  MDSQLGEN  SQLJOBBD  Y
HCSTU1MDL
MDEMFMMDL  MD Demo Function model  MDEMFMGEN  SQLJOBBD

Bottom

F3=Exit  F5=Refresh  F6=Add  F21=Sys Command

```

### Filters

Filters allow a user to restrict the view according to the 2E Model-Library, a description, and GEN-Library.

**MDCMS Filters:** MDCMS filters use a fuzzy match algorithm. The case is not sensitive, and the entry made by the user will be used to match any part of the given field with a “like” match.

### Options

The standard Edit, Copy, Delete and Display options

A=Attributes – manage the mapping of Synon/2E object types to MDCMS attributes

J=JOBBD – edit the job description defined for the model entry to configure the library list to be used for that model

Press F6 to setup a SYNON/2E model library in the interface

```

MDC2EML                COMPANY NAME                24.06.24
SCRN2                  Add Synon/2E Model Entry      10:04:36

Model Library . . . . MDSQLMDLS
Description . . . . . Stu's Model with SQL only
Dft Gen Library . . . MDSQLGENS
Job Description . . . SQLSJ0BD
  Library . . . . . QGPL
Default Model . . . . Y   Y
Enter=Confirm  F3=Exit  F4=Browse  F21=Sys Command

```

#### Model Library

The library containing the Synon/2E model to be managed

#### Description

A free text description of the model

#### Dft Gen Library

The default library that attributes will use as the generation library to migrate objects from. This library can be overridden for specific attributes.

#### Job Description

The name and library of the job description containing the library list to be used within the Object Manager to list/select Synon/2E components to be migrated.

#### Default Model

A model can be designated the default model. When a developer doesn't specify the model name in the object manager, the default model will automatically be used.

Press *Enter* to confirm this addition

## SYNON/2E Model Attribute Mapping

The Synon/2E model objects that are to be deployed to target environments must be mapped to MDCMS attributes per model.

To do this, use option A=Attributes for a defined Model Library in the SYNON/2E Models settings (see prior section of this document).

```

MDC2EOA                COMPANY NAME                24.06.24
SCRN1                  Synon/2E Model Attribute Mapping 10:06:52

```

```

Model: MDSQLMDL

Type options, press Enter.
 2=Edit  5=Display

Flt:
-----
Opt 2E Type  MD Type  Std Attr  Description  MDCMS Attr
-----
_   ACP  *FILE  LF      DDS Logical File  LF
_   ACP  *FILE  PF      DDS Physical File  PF
_   ACP  *SQLIDX S2EIDX  SQL Index        S2EIDX
_   ACP  *SQLTAB S2ETAB  SQL Table        S2ETAB
_   ACP  *SQLVW  S2EVW   SQL View         S2EVW
_   ARR  *DUMMY S2EARR  Synon/2E Array   S2EARR
_   CND  *DUMMY S2ECND  Synon/2E Field Condition S2ECND
_   FIL  *DUMMY S2ESTR  Structure File   S2ESTR
_   FLD  *DUMMY S2EFLD  Synon/2E Field   S2EFLD
_   FUN  *DUMMY S2EIFUN Synon/2E Internal Function S2EIFUN
_   FUN  *FILE  DSPF    Function Display File DSPF
_   FUN  *FILE  PRTF    Function Printer File PRTF
                                     More...

F3=Exit  F5=Refresh  F21=Sys Command

```

## Filters

Filters allow a user to restrict the view according to the various column values

## Options

2=Edit – change the mapping attribute or generation libraries

5=Display – view the entry details

## MDCMS Attribute

The attribute to map an object request to when a model object of the corresponding Synon/2E Type/MDCMS Object Type and Standard Attribute is selected.

Use F4 to browse/manage the list of attributes

## Object Gen Library

\*DFT – the object is generated into the default gen library for the model. Otherwise, the name of the generation library. Use F4 to browse the list of libraries.

## Source Gen Library

\*DFT – the source member is generated into the default gen library for the model  
Otherwise, the name of the generation library. Use F4 to browse the list of libraries

# Object Manager

## Overview

The MDCMS menu option 2 is a multi-function display that controls the processes required for making and installing modifications of objects.



The Object Manager is used for:

- Source/Object request and retrieval.
- Reserving Object names for new objects.
- Grouping objects for installs.
- Identifying modification requests
- Requesting the installation of objects into application environments
- Selecting SYNON/2E Objects from a given 2E Model-Library model for modification

For additional settings on the MDCMS Object Manager please refer to the *MDCMS Manual* – in the *Object Manager* section

### Adding SYNON/2E Object Requests (Checking out objects from SYNON/2E)

```

CMC100                COMPANY NAME                24.06.24
Filters/Defaults      Object Manager              10:12:48
Programmer: STUART                               Cmd/Script:  /      Y/N
Appl Group: STU      RFP Number :                Attribute :      *gen*
Project ..: SYNON    Promo Lvl .: 100            Object ...:      *gen*
Task/STsk.:         Status ....:                Assign RFP:
 
Opt Object      Attribute  Appl Lvl Project      RFP Sts  CS From Lib
- - - - -
- - - - -
- - - - -
- - - - -
- - - - -
- - - - -
- - - - -
- - - - -
 
More...
F2=Full Name      F4=Browse        F5=Refresh       F6=Messages     F7=Submit RFP
F8=Submitted Jobs F9=RFP Manager   F10=Assign RFP   F11=Output      F24=More Keys
    
```

To streamline a new object request, first add the Programmer, Application Group, Project, Task/Subtask and RFP (RFP will need to be created first) in the appropriate header fields. These fields can all be prompted using an F4.

To add SYNON/2E objects to an object request in MDCMS, use Option Y against a blank line. In the object column add the SYNON/2E Model-Library or leave it blank to use the default SYNON/2E Model-Library defined in the MDCMS setup process. Press Enter.

```

MDR2E0B                COMPANY NAME                13/07/20
STUART                Synon/2E Objects Maintenance  08:35:45

Synon Model: MDSQLMDLS  Gen Library: MDSQLGENS      Appl/Level: STU  10
RFP Number :           Project. . : SYNON-1
                        Pos To Name: _____

Type options, press Enter
    
```

```

1=Select 8=Details

Flt: _____
Opt Long Name          ImpTyp Attr Fun Type  Object
-   *                  CND  VAL
-   **No                CND  VAL
-   **Yes                CND  VAL
-   *'ADD' mode         CND  VAL
-   *Absolute day       FLD  NBR          DAB
-   *ABSOLUTE DAY       CND  VAL
-   *Accelerator key error MSG  ERR  SNDERRMSG Y2U0029
-   *Access path file/format FLD  VNM          ACP
-   *Action Bar API error  MSG  ERR  SNDERRMSG Y2U0027
-   *ACTION BAR CHOICE AREA FLD  NAR          ABC
                                     More.
F3=Exit  F5=Refresh  F8=Toggle  F10=Validate Selection  F21=Sys Command
    
```

The SYNON/2E Objects Maintenance screen gives a list of 2E Model objects available to be checked out with an MDCMS object request for the Model-Library specified in the screen field "Synon Model".

Pos To Name

Enter any value for an object name you wish to position the list to. The filter entry box is not case sensitive, converts all entries into Upper case, but searches and positions to an object with the same name of any case

```

Synon Model: MDSQLMDLS      Gen Library: MDSQLGENS      Appl/Level: STU 10
RFP Number :                Project. . : SYNON-1
                             Pos To Name: RACE_____

Type options, press Enter
1=Select 8=Details

Flt: _____
Opt Long Name          ImpTyp Attr Fun Type  Object
-   Race                FIL  CPT          AD
-   Race                 EX  MSG  ERR  SNDERRMSG USR0071
-   Race                 NF  MSG  ERR  SNDERRMSG USR0070
-   RAcE by Name         ACP  RTV          UUADCPL2
-   Race date            FLD  DT#          ABDZ
-   Race Entry           FIL  CPT          AE
    
```

Filters

Filter the list using the SYNON/2E objects name, ImpTyp (SYNON/2E Object Type), Attr (SYNON/2E Attribute), Fun Type (SYNON/2E Function Type), Object (SYNON/2E Implementation Name).

F8-Toggle

This switches the "Object" column to "Object Owner(SYNON/2E Object owner in the YMDLOBJRFP Model file)" and allows filtering on this value.

Option 1

Select multiple objects to be added to the MDCMS Object Request. Press enter to add an object or multiple objects to the list of objects that will be validated later using the F10 command key.

MDCMS automatically adds related objects to special object types. For example, if selecting an external function "Edit Horse EDTFIL" it will add the UIM and DSPF objects to the objects selected to the MDCMS Object Request.

Option 8

Option 8 displays the details of any object in the list. The *Display model objects* display that appears is slightly different depending on which object type is selected.

**Type FUN:**

```

STUART                COMPANY NAME                13/07/20
MDR2EOBS              Display model objects          09:45:41

Object . . . . . : UUAFSRR      Long Name. . . . : Select Course
Type . . . . .   : FUN          Attribute . . . . : RP4  Surrogate : 1100072
Copy name. . . . : Select Course
Create date. . . : 16/06/2020   Version type . . : DEV
Create time. . . : 10:54:17     Current object . : Y
Change date. . . : 11/07/2020  Change type. . . :
Change time. . . : 12:13:44    Change user. . . : MMORGAN
Comp chg date. . : 11/07/2020  Comp chg time. . : 12:13:44

Object   Attr  Text
UUAFSRR  RP4   Select Course
UUAFSRRD DSP   Select Course          Select record
UUAFSRRH PNL   Select Course          Select record

Bottom

F3=Exit
    
```

**Type FIL:**

```

STUART                COMPANY NAME                13/07/20
MDR2EOBS              Display model objects          09:52:08

Object . . . . . : AP          Long Name. . . . : MDL table with long name
Type . . . . .   : FIL        Attribute . . . . : REF  Surrogate : 1163
Copy name. . . . : MDL table with long name
Create date. . . : 09/07/2020  Version type . . : DEV
Create time. . . : 17:26:24    Current object . : Y
Change date. . . : 09/07/2020  Change type. . . :
Change time. . . : 17:26:24    Change user. . . : DVERMA
Comp chg date. . : 09/07/2020  Comp chg time. . : 17:26:24

Typ  Access path      Source mbr  Key
PHY  Physical file    UUAPREP     None
RTV  Retrieval index  UUAPREL1   Retrieval index
UPD  Update index     UUAPREL0   Update index
    
```

F10

After selecting the required objects and pressing Enter, press F10 to validate the objects selected.



```

MDR2EOB2          COMPANY NAME          13/07/20
STUART           Display model objects   10:01:31

Synon Model: MDSQLMDLS   Gen Library: MDSQLGENS   Appl/Level: STU 10
RFP Number :           Project. . : SYNON-1
Errors . . :           3       Warnings . :           Valid Req :           2
Type options, press enter
4=Remove

Opt Sev 2E Object Name/Message   Sys Object  Type   Std Attr/Own  MD Attr
_  30  Physical file              COURSE      *SQLTAB S2ETAB       S2ETAB
      MDCMS Attribute not defined for 2E element   Course
_  30  Retrieval index            UUACREL1    *SQLIDX S2EIDX       S2EIDX
      MDCMS Attribute not defined for 2E element   Course
_  30  Update index              UUACREL0    *SQLIDX S2EIDX       S2EIDX
      MDCMS Attribute not defined for 2E element   Course
_  10  Change Course              *DUMMY     S2EIFUN     S2EIFUN
      Validation OK
_  10  Course                      *DUMMY     S2ESTR      S2ESTR
      Validation OK

                                           Bottom

Enter=Confirm   F3=Exit   F8=Hide Msg   F21=Sys Command

```

In the validation screen a list of objects and the results of the validation process for each is displayed.

#### Errors (Severity 30).

Total number of errors found while validating the list.

#### Warnings (Severity 20).

Total number of warning messages while validating the list.

#### Valid Req (Severity 10).

Total number of Valid Requests from the objects selected by the user in the previous screen

#### Option 4 - Remove

Use this option to remove any objects from the validated list. Select 4 against object/s and press enter to remove from the list.

#### Severity

10=Validated and OK to be requested

20=Validated with a warning and can be requested

30=Failed validation and cannot be added to the request

#### 2E Object Name/Message

The validated object name on the first line and the validation message for that object on the second line.

#### Sys Object Type

This shows the IBM i OS object name and then the MDCSM Object Type, both on the first line

Std Attr/Own

This shows the standard MDCMS Attribute on the first line, and the SYNON/2E Object owner on the second line.

MD Attr

This shows the MDCMS Attribute used for this object in this application Code/Level combination that will be used to promote/install the object

F8

This toggles hiding or displaying the second line in the subfile display of validated objects.

Opt	Sev	2E Object Name	Object	Type	Std Attr	MD Attr
30		Physical file	COURSE	*SQLTAB	S2ETAB	S2ETAB
30		Retrieval index	UUACREL1	*SQLIDX	S2EIDX	S2EIDX
30		Update index	UUACREL0	*SQLIDX	S2EIDX	S2EIDX
10		Change Course		*DUMMY	S2EIFUN	S2EIFUN
10		Course		*DUMMY	S2ESTR	S2ESTR

Any records in error must be removed to continue

Enter

Press enter to add the validated object (and related objects such as UIM and DSPF's) to the object request. MDCMS also adds these objects to the programmers MDLST in the SYNON/2E Model-Library used for the object request. All the records are processed and the user is returned to the Object Manager screen with the new objects added to the display.

```

CMC100                COMPANY NAME                13/07/20
Filters/Defaults      Object Manager                10:26:49
Programmer: STUART                               Cmd/Script: /      Y/N
Appl Group: STU      RFP Number :                Attribute :      *gen*
Project ..: SYNON    Promo Lvl .: 10             Object ...:      *gen*
Task/STsk.:         1      Status ....:        Assign RFP:

```

Opt	Object	Attribute	Appl	Lvl	Project	RFP	Sts	C/S	From Lib
_	Change C >	S2EIFUN	STU	10	SYNON-1		00		MDSQLGENS
_	Course	S2ESTR	STU	10	SYNON-1		00		MDSQLGENS
									More...

```

F2=Full Name      F4=Browse      F5=Refresh      F6=Messages      F7=Submit RFP
F8=Submitted Jobs F9=RFP Manager F10=Assign RFP  F11=Output       F24=More Keys

```

Anywhere in MDCMS when seeing a > at the right end any column or display field, move the cursor over this field and press F2. This will display the Name Display screen which will show long name in full.

```

MDCFNAM          COMPANY NAME          13/07/20
SCRN1            Name Display           10:33:32

Object Name
Change Course

F12=Previous

```

## SYNON/2E Specific Functions from MDCMS Object Manager

### Option Y

When selecting option “Y” against any object checked out from a SYNON/2E Model, the user will be taken into the model object list for the user that requested the object for deployment. If the request user is the same as the user signed into MDCMS, the model object list will be in edit mode. Otherwise, the model object list will be in read-only mode.

Edit Model Object List **STUART** in SYNON/2E:

```

Edit Model Object List

Model . . : MDSQLMDLS
List . . . STUART      List STUART in MDSTUMDL created by user STUART.

Type options, press Enter.
1=Select      2=Edit      3=Copy      4=Delete entry
5=Display     8=Details    9=Deselect  10=Action diagram
11=Add to alternate list  13=Parameters  14=GEN batch

Opt   Object              Type  Atr  Owner
      Change Course      FUN   DBF  Course

```

Display Model Object List **MMORGAN** in SYNON/2E:

```

Display Model List

Model . . : MDSTUMDL
List . . . MMORGAN     List MMORGAN in MDSTUMDL created by user MMORGAN.

Type options, press Enter.
5=Display  8=Details

Opt   Object              Type  Atr  Owner
**   No entries   **

```

### Option 5

Option 5 selected against an object whose origin is SYNON/2E displays the *Object Request Detail* screen. In addition to standard MDCMS details, it shows the original SYNON/2E Model and GEN Libraries.

```

CMC110          MD T 8.2 dev (Redbourn)          13/07/20
SCRN1           Object Request Detail           10:53:56

Application/Level . . STU 10          Synon DDS/RLA Test
Object Name . . . . . UUAGEFR          Edit Course          Edit file
MDCMS Attribute . . . RPGLSTU          Type *PGM
Programmer . . . . . MMORGAN          Michael Morgan
Request Date . . . . 11/07/20 12:47  Req Sts 00 Object Requested
                                           Crt Sts E  Error      Res Sts

Object Library . . . MDSTUTST
Source Library . . . MDSTUTST          File  QRPGLSRC  Member UUAGEFR
From Object Library . MDSTUGEN          From Source Library MDSTUGEN
Synon/2E Model . . . MDSTUMDL          2E Obj Edit Course / Course

```

### Option 8

Option 8 selected against an object whose origin is SYNON/2E compiles the object in the SYNON/2E GEN-Library based on the compile commands defined for the object's attribute.

## Handling SQL Views with Embedded CREATE INDEX Statement

When SYNON creates an SQL view, by default it embeds an SQL index in the same generated source member.

The developer must split these into two separate source members, and check out the manually created index source member separately for subsequent promotion.