TD/OMS V6 New and Noteworthy

▶ Hans Beverwijk

TD/OMS - Connected Development
Software Change Management
Powered by Remain

<1>

Introduction

- ❯ Hans Beverwijk – Customer Services
  - ❯ Activities
    - Implementation
    - Training
    - Upgrade
    - Support
  - ❯ Areas
    - Software Change Management: TD/OMS
    - Software Testing: Original Software Suite
      - TestBench
      - TestDrive
      - TestDrive-Assist
  - ❯ Contact
    - hans.beverwijk@remainsoftware.com

❯ Connected Development

Agenda

> Attention points TD/OMS V6.4

>> Required IBM i OS version

>> License keys

> New and Noteworthy V6

>> Communication

>> Deployment

>> Development

> Connected Development

IBM i OS 5.4 Required

> Issue
>> Some of the requested TD/OMS functionality can only be offered on IBM i OS 5.4 and higher

> Change
>> Upgrade to TD/OMS V6.4 saved for IBM i OS 5.4

> Connected Development

IBM i OS 5.4 Required

> **Impact**

> > Upgrade to TD/OMS V6 can only be done after upgrading to IBM i OS 5.4 or higher

- IBM supports IBM i OS 5.4 until September 2013 (extended support until September 2016)

- IBM i OS 5.4 requires PTF MF40520 or MF42655 to restore objects saved on IBM i OS 6.1

- Detailed information on the Remain Wiki

> Connected Development

TD/OMS License Code

> **Issue**

> > Requirement to introduce a more granular licensing structure to stay in line with the changing machine capabilities and IBM licensing structure

> **Change**

> > The processor feature code of the machine is included in the TD/OMS license algorithm

> Connected Development

TD/OMS License Code

> **Impact**
> > A new license key is NOT required when upgrading to TD/OMS V6
> > A new license key is required when a hardware upgrade changes the processor feature code
> > Additional information must be supplied when requesting a TD/OMS license transfer
> > > • TD/OMS version
> > > • Processor Feature code

> Connected Development

TD/OMS License Code

> License transfer form on the Remain extranet

> Connected Development

TD/OMS License Code

> No account for the Remain extranet yet ?

>> Select Register to request access

>> Connected Development

New and Noteworthy V6

> **Communication**
>> TD/OMS TCP Server
>> TD/OMS Services
>> TD/OMS Dispatcher Service
>> ZIP Service
>> GUI Dialog Service

> Connected Development

TD/OMS TCP Server

> Functionality

> > TCP/IP file queueing communication software that enables TD/OMS to distribute components via TCP/IP (as opposed to distribution via SNA)

> Connected Development

TD/OMS TCP Server

> Issues

> > No fully automated installation for standard setup
> > Insufficient support for non standard setup:
> > > • Different port number, owner, etc
> > > • Multiple installations on same machine/LPAR

> Change

> > Introduced flexible location for server information to support non standard setup.
> > Automated installation in case of standard setup

> Connected Development

TD/OMS TCP Server

> **Impact**

> > Less time required by Remain and its partners to implement standard and non standard configurations

> Connected Development

New and Noteworthy V6

> Communication
>> TD/OMS TCP Server
>> TD/OMS Services
>> TD/OMS Dispatcher Service
>> ZIP Service
>> GUI Dialog Service

> Connected Development

TD/OMS Services

> Functionality
>> Common/standardized way of managing the fast growing number of TD/OMS JAVA functions

> Connected Development

TD/OMS Services

> Issues

> > Difficult to manage the growing amount of functions

> > Lack of support for stopping/starting a individual function

> Change

> > Existing functions implemented as services:

- TCP Server Queue Manager
- TCP Server Transfer Server
- Remote Job Monitor
- Relations Monitor

> Connected Development

TD/OMS Services

> Impact

>> Less time required by Remain to introduce new JAVA functions

>> Support for Start/Stop of a individual Service via command or menu

> Connected Development

TD/OMS Services

```
                    Start TD/OMS Service (STROMSSRV)

Type choices, press Enter.

Service  . . . . . . . . . . . . . >  *REMOTEJOBMON
Enable Dispatcher Console  . . .     *NO            *YES, *NO




















                                                            Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

New and Noteworthy V6

> Communication

>> TD/OMS TCP Server

>> TD/OMS Services

>> TD/OMS Dispatcher Service

>> ZIP Service

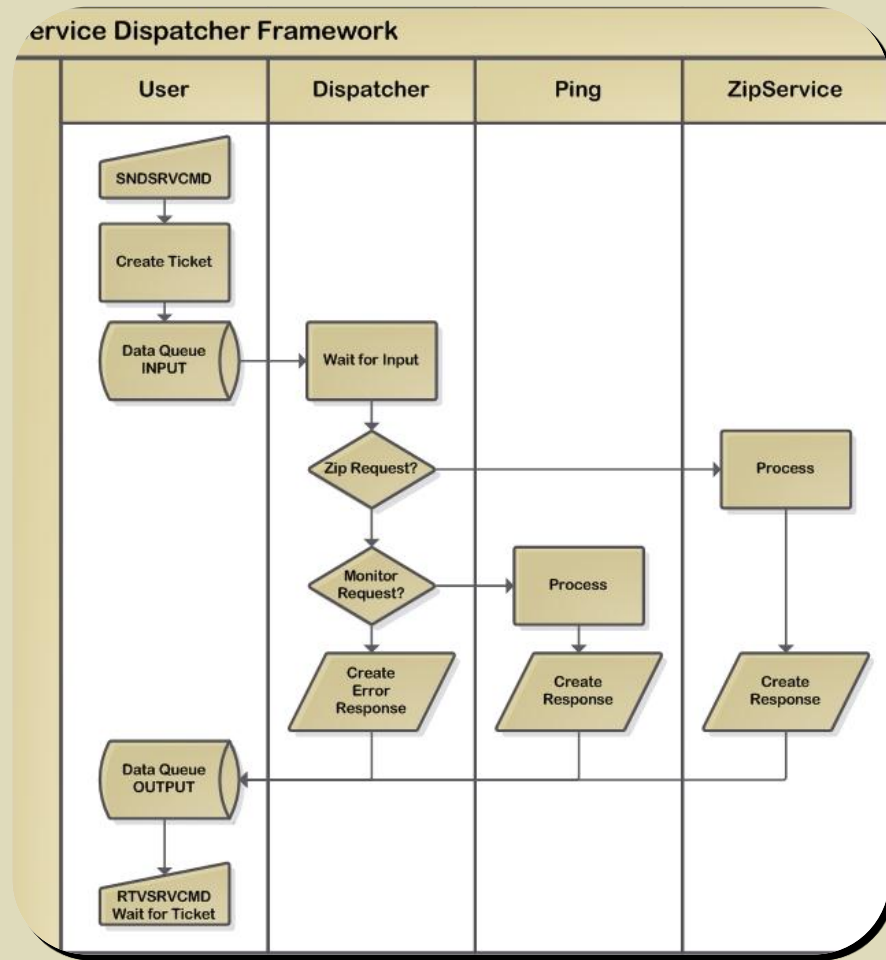>> GUI Dialog Service

> Connected Development

TD/OMS Dispatcher Service

> **Functionality**
>> Common way of using services, monitoring for a response of the services and communicating about the services

> Connected Development

TD/OMS Dispatcher Service

> Functionality

TD/OMS Dispatcher Service

> Issues
>> Lack of support for a standardised solution
> Change
>> Service functionality implemented
> Impact
>> Simplified method to enhance TD/OMS

> Connected Development

New and Noteworthy V6

> **Communication**
>> TD/OMS TCP Server
>> TD/OMS Services
>> TD/OMS Dispatcher Service
>> ZIP Service
>> GUI Dialog Service

> Connected Development

ZIP Service

> **Functionality**
>> Saves a IFS folder structure into the specified ZIP file

> Connected Development

ZIP Service

> **Issue**
>> Lack of a efficient way of distributing multiple objects to non IBM i locations

> **Change**
>> ZIP Service functionality implemented

> Connected Development

ZIP Service

> Impact
>> This function is not only available for TD/OMS distributions but can also be used by users for other purposes

> Connected Development

ZIP Service

```
                    Create a Zip File (CRTZIPF)

Type choices, press Enter.

Directory to zip . . . . . . . .    _____
_____
Zip file . . . . . . . . . . . .    _____
_____









                                                                     Bottom
F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel    F13=How to use this display
F24=More keys
```

New and Noteworthy V6

> **Communication**

>> TD/OMS TCP Server

>> TD/OMS Services

>> TD/OMS Dispatcher Service

>> ZIP Service

>> GUI Dialog Service

> Connected Development

GUI Dialog Service

> **Functionality**

> > Enable a TD/OMS server process to request for user intervention from a TD/OMS client

> Connected Development

GUI Dialog Service

- **Issue**
  - Some TD/OMS customers have implemented a dialog in the pre-processing part of the transfer in the green screen and were unable to switch to the TD/OMS client as this functionality was not available
- **Change**
  - GUI Dialog Service functionality implemented

> Connected Development

GUI Dialog Service

> **Impact**
>> Involved customers can now use the TD/OMS client (after implementing the GUI Dialog Service and modification of the user programs)
>> All other users can start using this functionality

> Connected Development

GUI Dialog Service

> Requires Dispatcher service to be active
> SNDGUIDOMS to construct dialog
>> Text
>> Label
>> Button
>> Dropdown
> RTVGUIDOMS to receive return value
> Example in QUSRSRC

> Connected Development

GUI Dialog Service

> Example 1 → Pre-processing exception

```
                    OMS - Send GUI Dialog (SNDGUIDOMS)

Type choices, press Enter.


Label   . . . . . . . . . . . . . .   _____
IP . . . . . . . . . . . . . . . . > *REQUESTER_____
Panel header . . . . . . . . . . . > 'Transfer target release check'
_____
Error indicator  . . . . . . . . > *YES_____   *YES, *NO
Closable indicator . . . . . . .   *YES_____   *YES, *NO
Message  . . . . . . . . . . . . > 'Target release must be V5R4M0'
_____
_____
_____


                                                         More...
F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel    F13=How to use this display
F24=More keys
```

GUI Dialog Service

> Example 1 → Pre-processing exception

>> User must take action when target release exceeds V5R4M0

Transfer target release check

Target release must be V5R4M0

Program CL00014 in library OMSOP1D is compiled for target release: V6R1M0

Would you like to cancel the transfer ?   YES

OK
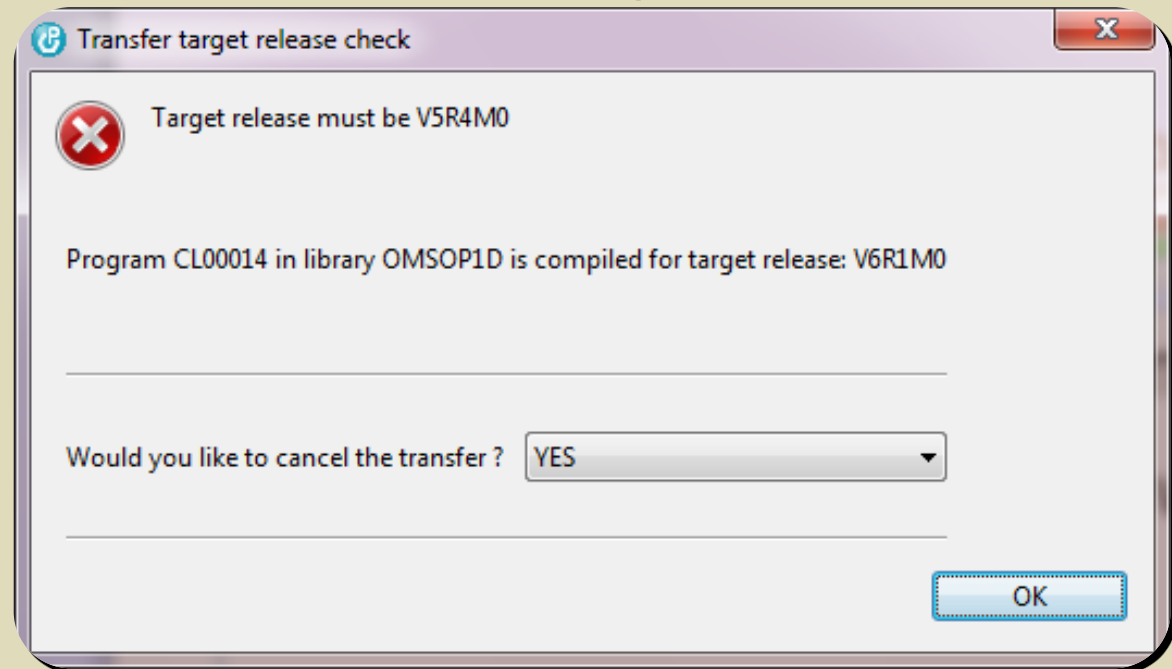
GUI Dialog Service

> ## Example 2 → Command from command line
> > ### Ask if user wants a drink
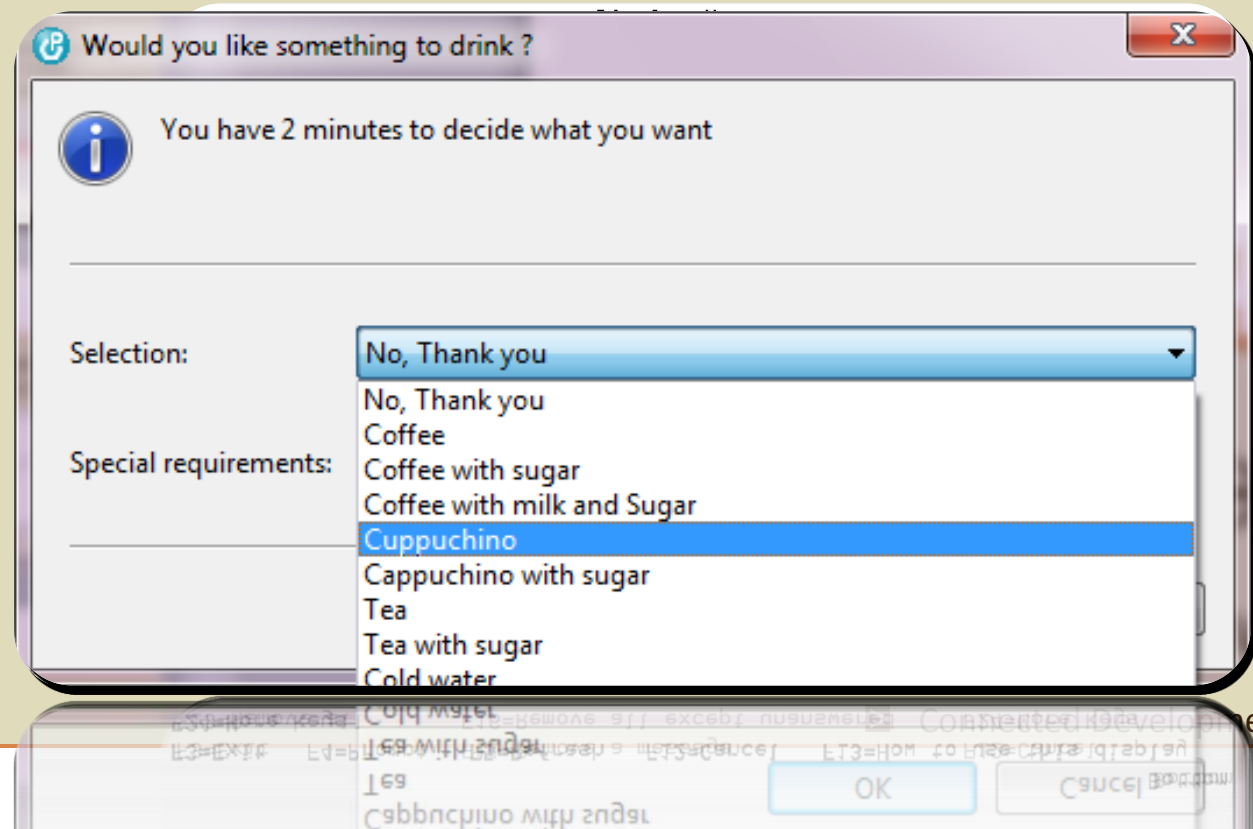
New and Noteworthy V6

> Deployment

> > Install WAS Application

> > Non IBM i Distribution

> > Distribution Registration

> Connected Development

Install WAS Application

> **Functionality**

> > A one step approach to perform the required activities to implement a WAR file into a Websphere Application Server

> Connected Development

Install WAS Application

> **Issue**

>> Implementing a WAR file requires (several) manual steps and thus human intervention

>> TD/OMS can not handle the entire process of implementing a change into a Websphere Application Server

> **Change**

>> Introduced the INSWAPPOMS command

> Connected Development

Install WAS Application

> **Impact**

> > Entire process can now be automated by executing the INSWAPPOMS command at a user exit point during the transfer

> > No human intervention required during/after TD/OMS transfer

> Connected Development

Install WAS Application

> ## Documentation on the Remain Wiki

```
            Install WAS Application (INSWAPPOMS)

Type choices, press Enter.

Application Directory  . . . . .  _____
_____

File . . . . . . . . . . . . . .  _____
_____

Profile Home . . . . . . . . . .  _____
_____

WAS Installation . . . . . . . .  _____
_____

Uninstall existing . . . . . . .  *YES          *YES, *NO
Application name . . . . . . . .  *GEN _____
                                  _____

Stop Application . . . . . . . .  *YES          *YES, *NO
Start application  . . . . . . .  *YES          *YES, *NO
Fail on Error  . . . . . . . . .  *YES          *YES, *NO
Connection Type  . . . . . . . .  *SOAP _____
Port . . . . . . . . . . . . . .  8880          *DFT, port
                                                        More...
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

New and Noteworthy V6

> Deployment

>> Install WAS Application

>> Non IBM i Distribution

>> Distribution Registration

Non IBM i Distribution

> **Functionality**

>> Distribution to a non IBM i by means of the Remain file queuing communication software

> Connected Development

Non IBM i Distribution

> **Issue**

>> Remote Job Monitor messages were not returned

>> Only one script containing all the logic

>> No fall-back support

>> No default scripts supplied

> **Change**

>> Several enhancements to the Remain communication software

> Connected Development

Non IBM i Distribution

> **Impact**
>> Sending system is aware of transfer status for IBM i and non IBM i systems so user only has to check in 1 location
>> Reduced implementation time due to example scripts

> Connected Development

Non IBM i Distribution

> **Define Remote Location**
>> **Select correct platform (WIN/UNIX)**

```
                              Remote Location Maintenance
OMD00103                          Maintain Remote Location

ADD

Address . . . . . . . . . .    HANSPC
Address description . . .      Distribution to windows
Type  . . . . . . . . . . .    WIN          OS400, WIN, UNIX, ..
Device  . . . . . . . . . .    *TCP         *SNADS, *TCP, device-code

Distribute definition . .      1            0=No, 1=Yes, 2=When changed
Distribute exceptions . .      0            0=No, 1=Yes, 2=When changed
Process source  . . . . . .    0            0=No, 1=Yes
Monitor remote jobs . . .      1            0=No, 1=Yes
Distribution registration      0            0=No, 1=Yes




                                                               Bottom

F3=Exit   F5=Refresh   F12=Cancel
```

Connected Development

Non IBM i Distribution

▶ **Environment Maintenance**

```
OMA002                          Environment Maintenance
OMA00203                        Work with Library Lists
_____

Application code .......: OMS01 TD/OMS training student 1
Environment code .......: PRD    Production

Position to ............:      0

2=Change  3=Copy  4=Delete  6=Print  8=Distribution lists ...
     Seq.# Description                              D Lvl Sav Rst Typ
__       10 Local                                   0  4   2   1   0
 8       20 To Windows PC                           0  4   1   1   2




                                                              Bottom
F3=Exit  F4=Prompt Copy  F5=Refresh  F6=Add  F12=Cancel  F23=More options
```

Connected Development

Non IBM i Distribution

> ## Environment Maintenance
> > ### Add Remote Location

```
JMA002                      Environment Maintenance
OMA00208                    Maintain Distribution Entry


CHANGE
Application code .......: OMS01 TD/OMS training student 1
Environment code .......: PRD    Production
Library list description: To Windows PC

From Environment code ..: *ANY
Address ................: HANSPC      Distribution to windows

Distribute objects .....: 1             0=No, 1=Yes
Distribute sources .....: *   (0)       0=No, 1=Yes, *=Default
Distribute definition ..: *   (1)       0=No, 1=Yes, 2=When changed, *=Default
Distribute exceptions ..: *   (0)       0=No, 1=Yes, 2=When changed, *=Default
Monitor remote jobs ....: *   (1)       0=No, 1=Yes, *=Default

Normal job description .: *_____   ()          *=Default
Library ................:   _____  ()
Fast job description ...: *_____   ()          *=Default
Library ................:   _____  ()

F3=Exit  F5=Refresh  F14=Retrieve Defaults  F12=Cancel
Values taken from the system address definition, application address created
```

51

Non IBM i Distribution

> TD/OMS communication software must be running on receiving system

>> After performing the standard activities the software will execute a application specific or a general user script

>> Several user script templates are included

- Components to directory
- Tomcat app install
- WAS app install

>> User scripts can be enhanced (or created from scratch) to meet specific requirements

> Connected Development

Non IBM i Distribution

> Remote job monitor shows progress

New and Noteworthy V6

> **Deployment**
>> **Install WAS Application**
>> **Non IBM i Distribution**
>> **Distribution Registration**

> Connected Development

Distribution Registration

> **Functionality**

>> De-centralised control with respect to the time and sequence in which received transfers are processed on the receiving system

> Connected Development

55

Distribution Registration

> **Issue**

>> It is impossible to determine on the receiving system if processing transfers in non sequential order will cause problems

> **Change**

>> The Distribution Registration mechanism will ensure the correct processing sequence based on calculated and manual dependencies

> Connected Development

Distribution Registration

> **Impact**
>> Transfers can be processed in non sequential order
>> ALL transfers of this type require manual intervention

Distribution Registration

> **Remote Location Maintenance**
>> **One simple flag**


```
                          Remote Location Maintenance
OMD00103                   Maintain Remote Location

CHANGE

Distribute definition . .   1       0=No, 1=Yes, 2=When changed
Distribute exceptions . .   1       0=No, 1=Yes, 2=When changed
Process source  . . . . .   1       0=No, 1=Yes
Monitor remote jobs . . .   0       0=No, 1=Yes
Distribution registration   1       0=No, 1=Yes




                                                           Bottom

F3=Exit    F5=Refresh    F12=Cancel
```

> Connected Development

58

Distribution Registration

▶ Request /Fix Maintenance

▶ Connected Development

Distribution Registration

> Maintain Distribution Registration
> > Option 12 to Work with Dependencies

Connected Development

Distribution Registration

> Distribution Dependencies

> > Add Manual Dependencies

Distribution Registration

> Distribution Dependencies

> Type/status identify Dependencies:

- Manual

- Version


```
OMD021                  Maintain Distribution Registration
OMD02101                Work with Distribution Dependencies
CHANGE
Application        EXMP    general Example APPC
Distribution         23      EDR0015    A    *ACT      16-05-12
                             Distribution Registration fix.06

1=Add    4=Remove
         Dep.Distrib Tp. Appl    Req/Rls     Stat     Str.dt    D-Tp. D-Sts
    __    _____ 22   A   EXMP    EDR0017     *ACT     15-05-12   V      *CALC




                                                                      Bottom
F3=Exit   F5=Refresh   F12=Cancel
```

Distribution Registration

> Registered Distributions on receiving
>> Distributions are waiting to be processed

```
                        Work with Libraries Using PDM

List type  . . . . . . .    *ALL_____       Position to . . . . .    _____

Type options, press Enter.
  2=Change            3=Copy                     4=Delete        5=Display
  7=Rename            8=Display description       9=Save          10=Restore ...
                                  ASP
Opt   Library       Type         Device      Text
___   DR002234      *PROD                    OMS Registered Distrib.libr.  temporar
___   DR002235      *PROD                    OMS Registered Distrib.libr.  temporar
___   DR002237      *PROD                    OMS Registered Distrib.libr.  temporar
___   DR002240      *PROD                    OMS Registered Distrib.libr.  temporar
___   DR002241      *PROD                    OMS Registered Distrib.libr.  temporar
___   DR002242      *PROD                    OMS Registered Distrib.libr.  temporar


                                                                          Bottom
Parameters or command
===> _____
F3=Exit             F4=Prompt           F5=Refresh          F6=Create
F9=Retrieve         F10=Command entry   F23=More options    F24=More keys
```

> Connected Development

Distribution Registration

> Installation through TD/OMS client
>> TD/OMS Remote Location perspective
>> Connect with TD/OMS receiving installation
>> Status
- Blocked
- Waiting
- Completed
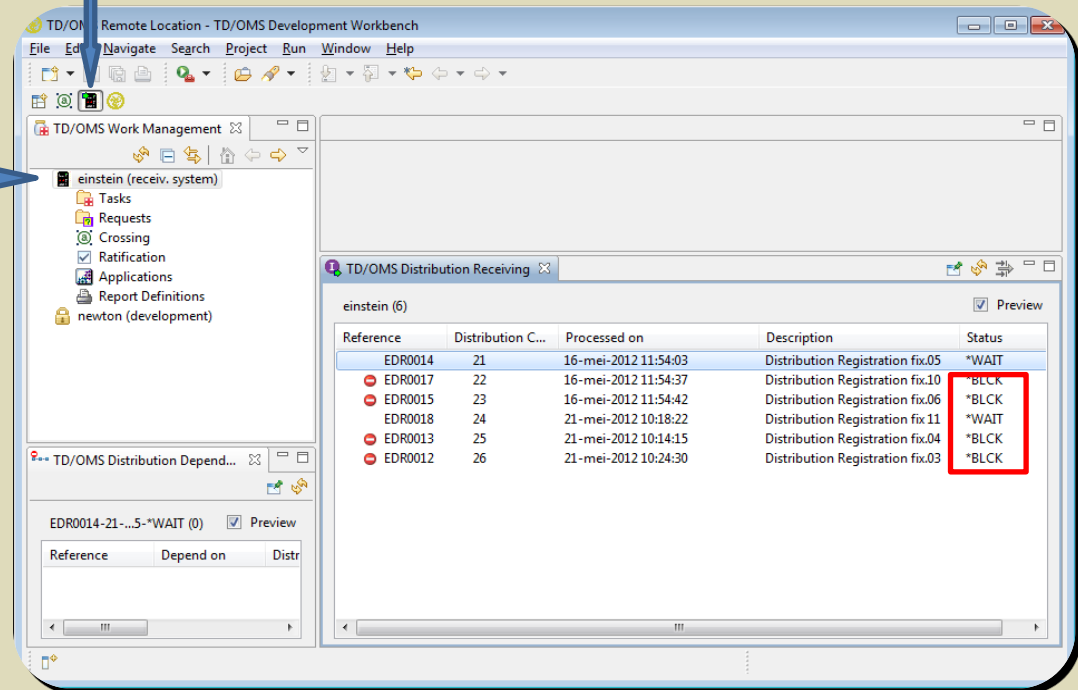
> Connected Development

Distribution Registration

> Selection shows dependencies

Distribution Registration

> ## Installation wizard for dependent distributions

Distribution Registration

> Installation has impact on other distributions

> Connected Development

New and Noteworthy V6

> **Development**
>> **Solution Type**
>> **Request/Task Numbering**
>> **Source Compare**
>> **Keep Source Date**
>> **Procedure Relations**
>> **Graphical Impact Analysis**
>> **LANSA Source Archiving**
>> **CA 2E Interface**

> Connected Development

Solution Type

> **Functionality**
> > Indicates what kind of processing has to be performed

Solution Type

> **Issue**

>> Only 1 active solution is allowed for a specific component within a application. In some situations (eg recompilation) more active solutions are desired

> **Change**

>> Introduction of a new solution type

> Connected Development

Solution Type

> **Impact**
>> Standard object creation is not performed when using the new solution type
>> Changing to the new solution type is only allowed at start of cycle (production or development environment)

> Connected Development

Solution Type

New and Noteworthy V6

> **Development**
>> Solution Type
>> Request/Task Numbering
>> Source Compare
>> Keep Source Date
>> Procedure Relations
>> Graphical Impact Analysis
>> LANSA Source Archiving
>> CA 2E Interface

> Connected Development

Request/Task Numbering

> **Functionality**
>> Determination of the code when a Request or Task is added

Request/Task Numbering

> **Issue**
>> No simple way to avoid that a Request or Task is generated in a application

> **Change**
>> Enhanced the application definition to support the requested functionality

Request/Task Numbering

> **Impact**
  > Preferred logic can be activated by making a simple change

Request/Task Numbering

▶ *NONE

  ▶ Task is created after entering unique code

```
JMS002                      Application Definition
OMS00202                 Maintain Application Definition

CHANGE

Application code .......: OMSRQ
Application description : TD/OMS request application

Request processor ......: OMSOP05

Check source location ..: 2          0=No  1=Yes  2=Check Date
Current Release ........: _____
4-GL Language ..........: _____  F4=List
Default transfer path...: _____  Name, *RELEASE, F4=List

Last request number gen.: R0000001    Tmpl, *NONE, *PGM, *BLOCK
Last fix number gen.....: *NONE        Tmpl, *NONE, *PGM, *BLOCK
Request number increment: 01
Fix number increment ...: 01

                                                         More...

F3=Exit  F12=Cancel
```

Request/Task Numbering

- ***PGM**
  - Program will generate unique number (across applications)

```
JMS002                        Application Definition
OMS00202                   Maintain Application Definition

CHANGE

Application code .......: OMSRQ
Application description : TD/OMS request application

Request processor ......: OMSOP05

Check source location ..: 2          0=No  1=Yes  2=Check Date
Current Release ........: _____
4-GL Language ..........: _____  F4=List
Default transfer path...: _____  Name, *RELEASE, F4=List

Last request number gen.: *PGM_____  Tmpl, *NONE, *PGM, *BLOCK
Last fix number gen.....: *NONE_____  Tmpl, *NONE, *PGM, *BLOCK
Request number increment: 01
Fix number increment ...: 01

                                                          More...

F3=Exit  F12=Cancel
```

Connected Development

Request/Task Numbering

> ## *BLOCK

>> Disables adding (Simplifies phasing out an application)


```
OMS002                         Application Definition
OMS00202                    Maintain Application Definition


Application code .......: OMSRQ
Application description : TD/OMS request application

Request processor ......: OMSOP05

Check source location ..: 2          0=No  1=Yes  2=Check Date
Current Release ........:
4-GL Language ..........:            F4=List
Default transfer path...:            Name, *RELEASE, F4=List

Last request number gen.: R0000000   Tmpl, *NONE, *PGM, *BLOCK    _
Last fix number gen.....: *BLOCK      Tmpl, *NONE, *PGM, *BLOCK
Request number increment: 01
Fix number increment ...: 01

                                                          More...

F3=Exit  F12=Cancel
```

New and Noteworthy V6

> **Development**
>> Solution Type
>> Request/Task Numbering
>> Source Compare
>> Keep Source Date
>> Procedure Relations
>> Graphical Impact Analysis
>> LANSA Source Archiving
>> CA 2E Interface

> Connected Development

Source Compare

> Functionality

> > Show differences between (archived) versions of a source and enable composing a new source based on these versions

> Connected Development

Source Compare

> **Issue**
> > No way to compare 3 versions
> **Change**
> > Enhanced the source compare to support the requested functionality

> Connected Development

Source Compare

> **Impact**
>> Complex comparisons can now be done without a lot of effort

Source Compare

> ## Compare with eachother

New and Noteworthy V6

> Development
>> Solution Type
>> Request/Task Numbering
>> Source Compare
>> Keep Source Date
>> Procedure Relations
>> Graphical Impact Analysis
>> LANSA Source Archiving
>> CA 2E Interface

> Connected Development

Keep Source Date

> **Functionality**

>> Ensure that source member dates in source file are unchanged during a transfer

Keep Source Date

> Issue

>> The implemented solution in TD/OMS has negative impact on transfer time

>> IBM has implemented some changes to ensure that this is standard behaviour

> Change

>> Disabled the implemented solution in TD/OMS

> Connected Development

Keep Source Date

> **Impact**

>> Source date preserved as of IBM i OS 6.1

>> For IBM i OS 5.4 install PTF SI25844

>> For IBM i OS 5.3 install PTF SI25796

>> See remain Wiki

(http://remainsoftware.com/wiki/index.php/DFG:Predefined_Registry_Settings)

> Connected Development

New and Noteworthy V6

> Development

> > Solution Type

> > Request/Task Numbering

> > Source Compare

> > Keep Source Date

> > Procedure Relations

> > Graphical Impact Analysis

> > LANSA Source Archiving

> > CA 2E Interface

> Connected Development

Procedure Relations

> **Functionality**
>> Maintenance of ILE procedure (and data) relations

Procedure Relations

> **Issue**
>> Required to know a object that contains the procedure to be able to looks at the relations

> **Change**
>> Separate entry point to look at the relations

> Connected Development

Procedure Relations

> **Impact**
>> Less knowledge and time required to obtain the desired information

Procedure relations

▶ Separate function (STRPM)

```
~~                      Object Maintenance
OMA00411              Work with Object Relations
_____

Procedure  . . . . . . . :    MODOBJ1

                          MOD*



1=Connect   4=Delete   5=Display Relations   6=Print relations ...
       Object        Location    Type        Detail     Env.    Appc.   Type
12.    MODOBJ1       OMSOP1P     *MODULE                 PRD     OMS01   *PROC
___    MODSRVPGM     OMSOP1P     *SRVPGM                 PRD     OMS01   *PROC




                                                                        Bottom

F3=Exit    F5=Refresh    F6=Add    F10=Names    F11=View 2    F24=More keys
```
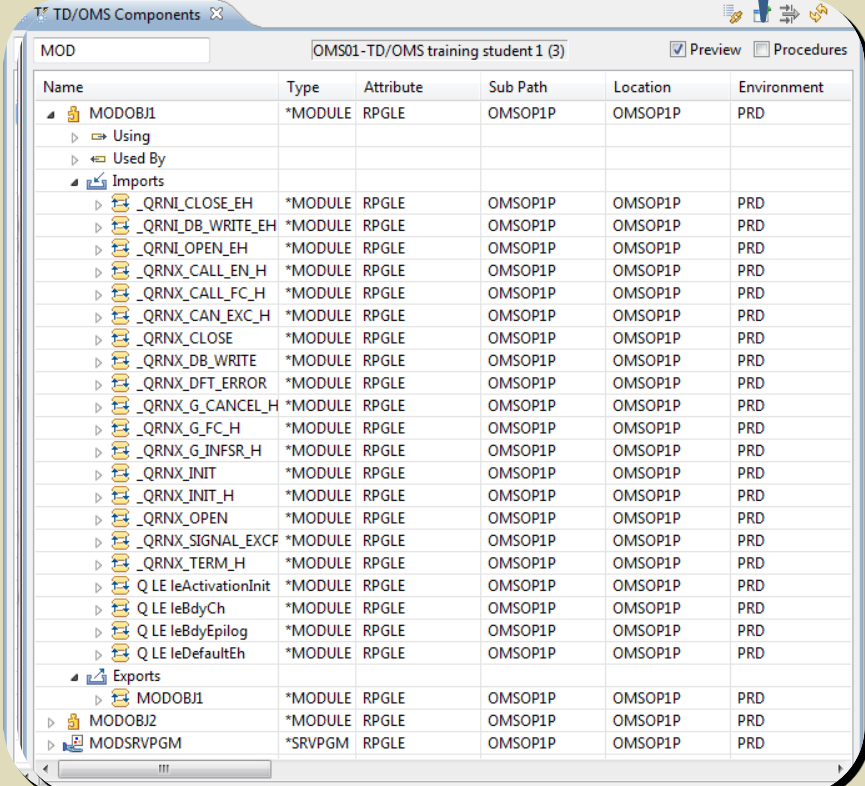
Procedure Relations

> ▶ Component view

New and Noteworthy V6

> **Development**
>> Solution Type
>> Request/Task Numbering
>> Source Compare
>> Keep Source Date
>> Procedure Relations
>> Graphical Impact Analysis
>> LANSA Source Archiving
>> CA 2E Interface

> Connected Development

Graphical Impact Analysis

> **Functionality**

>> Graphical representation of related components based on a selected Impact Analysis definition

> Connected Development

Graphical Impact Analysis

> **Issue**
>> When many components are involved filtering on type would be useful to connect only specific object types (eg file related) to a task

> **Change**
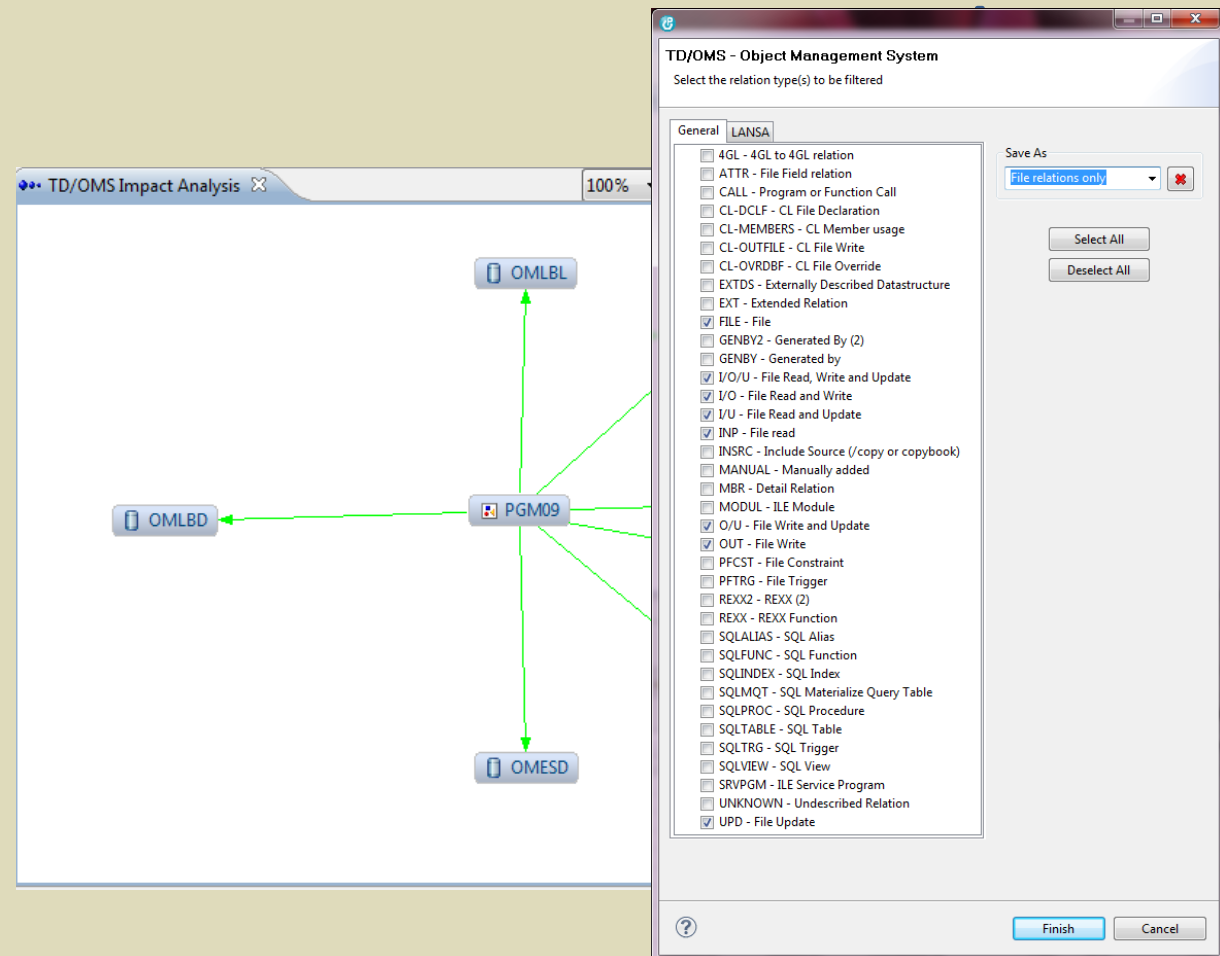>> Filtering on component type added

> Connected Development

Graphical Impact Analysis

> **Impact**

>> Easier to connect components to a task

>> Less Impact Analysis definitions required to achieve the desired result

> Connected Development
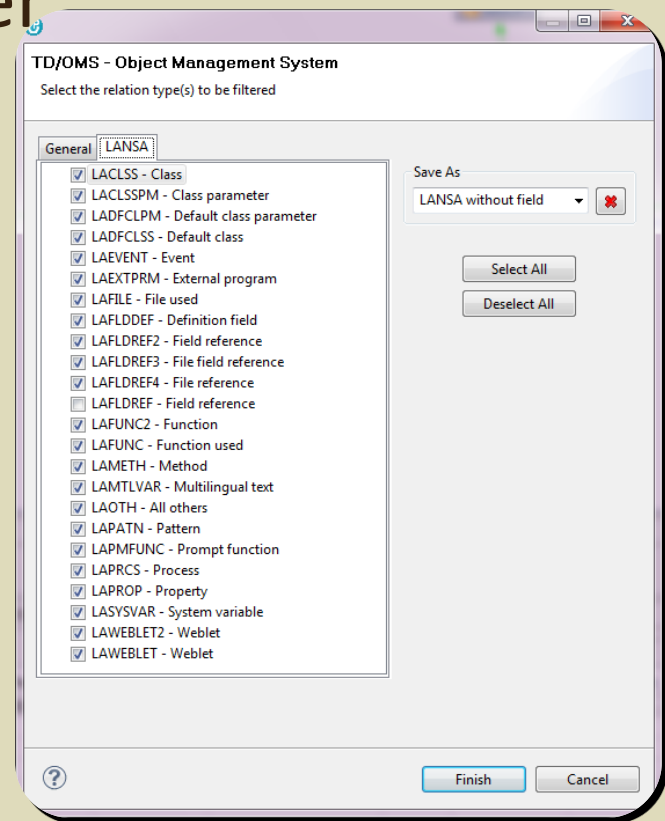
Graphical Impact Analysis

Connected Development

Graphical Impact Analysis

> LANSA specific types in filter

New and Noteworthy V6

- Development
    - Solution Type
    - Request/Task Numbering
    - Source Compare
    - Keep Source Date
    - Procedure Relations
    - Graphical Impact Analysis
    - LANSA Source Archiving
    - CA 2E Interface

- Connected Development

LANSA Source Archiving

> **Functionality**

> > Archiving the current version of a LANSA function or field in the TD/OMS source archive library when the LANSA component is moved through the cycle

> Connected Development

LANSA Source Archiving

> **Issue**

>> Very difficult/impossible to determine what was changed

>> Requirement to generate a new version based on other versions of the component

> **Change**

>> Implemented source archiving for LANSA functions and fields

> Connected Development

LANSA Source Archiving

> **Impact**

>> Standard source compare functionality now applies to LANSA functions and fields

LANSA Source Archiving

> Connected Development

New and Noteworthy V6

> **Development**

> Solution Type

> Request/Task Numbering

> Source Compare

> Keep Source Date

> Procedure Relations

> Graphical Impact Analysis

> LANSA Source Archiving

> CA 2E Interface

> Connected Development

CA 2E interface

> **Functionality**

> **Checking in/out validation function**

- Validating the Edit Model Object action before and/or after the 2E-model update by tracing the corresponding active solution in TD/OMS

- If active solution not present, interactive function will prompt to select a Fix and 2E Model Object connection is processed

- Function can be combined with permanent lock of 2E Model Object not in development

> Connected Development

CA 2E interface

> Functionality

> > Task oriënted development using 2E Model List

- Creation of Model List corresponding with Fix and its content

CA 2E interface

> **Issues**
>> Unlimited access of programmers into all Model Objects in a 2E Model in use for development
>> Unintentional change of 2E Model object
>> Difficult to trace successive steps of last changes
>> Frequent save of 2E Model "in production stage" mostly not available

> **Change**
>> addition of user options and predefined programs, but open for customization

> Connected Development

CA 2E interface

> **Impact**

>> Implementation of User Options and use of existing 2E program user exit points

- Update model exit pgm (YMDLOBJR1C)
- Function lock exit pgm (YUSRLCKR1C)

> Connected Development

Summary

- ☑ Attention points TD/OMS V6.4
    - ☑ Required IBM i OS version
    - ☑ License keys
- ☑ New and Noteworthy V6
    - ☑ Communication
    - ☑ Deployment
    - ☑ Development
- ≥ Enhancements are described in the release notes (available on Remain extranet)

> Connected Development

Thank you for your attention

> Questions ?

<112>