# PRINT:EWM:Graphical Work Management Guide



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(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# **Getting started**

This section contains information about the TD/OMS configuration options like required open ports, configuration locations and Encryption Certificates.

## **Required TD/OMS Ports**

Below are the ports that TD/OMS will use when communicating with IBMi applications and the TD/OMS server back-ends (these ports need to be accessed through firewalls):

IBMi application ports:

```
449 Server Port Mapper (as-svrmap)
446/488 DDM (drda, record level access)
8476/9476 Sign-on server (as-signon)
8475/9475 Remote command server (as-mitcad)
8473/9473 File server (as-file)
8473/9473 File server (as-file)
8473/9473 Pata Queue server (as-daq)
8473/9473 Database server (as-data)
```

Note. The second port number is the port to be used for a secure communications. TD/OMS can be configured to use the secure communication methods by enabling the 'Secure Connection' option in the preferences of a Remote System (from the main Eclipse UI toolbar drill down to the menu option: Windows -> Preferences -> TD/OMS -> Remote Systems).

TD/OMS server ports:

```
45931 File Queue and Transfer (default)
45936 Rest server
45937 Rest server OSGi console
45937 Send GUI Dispatcher (A different port needs to be defined (eg 45938) when both the Rest server and the Dispatcher are activated. This can be achieved by changing the OMQGUIDIAPORT registry key ( [1] (https://remainsoftware.com/wik
i/index.php/DFG:Predefined Registry_Settings/en#OMQGUIDIAPORT_-_GUI_Dialog_Server_Port) )
```

 $Additionally when working in RDi \ then for remote ILE \ debugging \ port \ 3001 \ will \ be \ used \ by \ default.$ 

Note. In the case of secure communications and correct certificate processing, it may be required to use the java system property '-Djavax.net.ssl.trustStore=?trust-store-location?', for example when working with self-signed certificates. Your security admin will have provided you with a custom trust store file to be used as a replacement for the default java trust store. The java system property should be added to the TDOMS.ini or eclipse.ini (RDi) configuration file in the root of the program's installation directory. Another method to achieve this is described in the SSL certificate section.

#### **Secure Server Communication**

TD/OMS has the option to communicate with the IBM-i using secure connection methods available in JDBC and the Jtopen toolbox. Note that using secured connections requires the availability of an appropriate SSL certificate stored in a key-store (the key-store is the file that contains 1 or more SSL certificates).

TD/OMS can be configured to use secure communication methods in 2 ways:

- By setting the java system property -Domx.as400.secure=true, this setting will force the use of secure connection methods for all the configured TD/OMS Remote systems.
- By enabling the 'Secure Connection' option in the preferences of a Remote System (from the main Eclipse UI toolbar drill down to the menu option: Windows -> Preferences -> TD/OMS -> Remote Systems).

#### **SSL Certificate Handling**

As of TD/OMS client V16.2. When you require a secure connection to a server (IBM i system, Jira, or GitHub server) and the server certificate has not been signed using a CA certificate (or the java runtime cannot handle the certificate) then the certificate needs to be made available to TD/OMS. Depending on if your security administrator has provided you with a single self-signed certificate or a jks or pkcs12 trust store (containing 1 or more certificates), you can copy any of these files to the Remain certificates directory located in your home directory: "user-dir?./remain/certificates'. Upon TD/OMS startup any certificate with the extension der, cer or crt or any trust-store with the extension jks, p12 or pfx will be added to the TD/OMS trusted certificate manager. If a trust-store is protected by a password then the clear text password must be made available in a file with the same name as the trust-store file but with extension .pwd added to the file name, for example if the trust-store file is truststore.jks then the password file should be truststore.jks.pwd. The clear password in the password file will be automatically encrypted and saved back to the file the first time it is read by the TD/OMS client

Alternatively, if you have been provided a location to a trust-store file and the trust-store is NOT password protected then you can set the fully qualified location of the jks file in the TD/OMS default configuration, for example:

```
'ssl.trust.store=c:/path/to/truststore.jks'
```

The default TD/OMS configuration file can be found in the user home at location '.../.remain/config/omxcore/omx.config', add the above configuration entry to this configuration file. Note that this is not the omx.config file that also can be found under the .remain/config/remotes directory.

As a stop-gap and not intended to be used in a production environment you can also provide TD/OMS with a list of host names of which the certificates should be trusted regardless of the state of the certificate or errors on certificate handling. To do this add 1 or more host names to the property 'ssl.trusted.hosts' in the default configuration file omx.config (.../.remain/config/omxcore/omx.config) for example:

```
'ssl.trusted.hosts=localhost,company.jira.server'
```

#### Overriding default TLS version

By default TD/OMS will attempt to set and use the TLS protocol version 1.1 and 1.2 when setting up a secure channel with a server. If a server does not yet support either version of TLS then you can opt to allow a lower (vulnerable) protocol version to be used by providing TD/OMS with a list of TLS protocols to become available when connecting to a server. To enable a protocol add any of the protocol names: 'TLSv1', 'TLSv1.1' or 'TLSv1.2' to the property 'ssl.default.protocol.version' in the default TD/OMS configuration file (.../.remain/config/omx.core/omx.config), for example:

```
'ssl.default.protocol.version=TLSv1,TLSv1.1,TSLv1.2'
```

You should always keep the highest available protocol versions in the list as these protocols will most likely be used on most application servers (IBMi, Jira ...). You must also keep the highest protocol as last in the list as this becomes the default to start with when communicating with a server.

Note that by default TD/OMS will use TLSv1.1 or TLSv1.2 where TLSv1.2 becomes the default.

#### Using Java property settings

If you cannot use the TD/OMS certificate manager then you can set java properties to add a "user-provided" trust store. You can add a trust-store file using the java system property - **Djavax.net.ssl.trustStore\_...** and optionally -**Djavax.net.ssl.trustStorPassworde=...** This option should be added to the TDOMS.ini or eclipse.ini (RDi) configuration file located in the root of the program's installation directory. When using the java property setting, the setting will be lost if RDi is upgraded to a new major version, or in the case of TD/OMS RCP, the RCP is updated. Using the javax.net.ssl.trustStore java property also has the disadvantage of overruling the already loaded CA certificates which can cause secure server connections to fail if the server's certificate(s) is not found in the provided trust-store file.

#### Overriding default TLS setting in the RDi

By default the IBM Java runtime, as used by RDI 9.6, does not set the very secure TLS 1.2 protocol as the default TLS protocol. This can be a problem when connecting to servers that only accept the TLS 1.2 protocol. To overcome this it might be necessary to set extra java properties to force the IBM Java runtime to use the TLS 1.2 protocol. The following properties need to be set in the eclipse.ini found in the RDi installation directory:

```
-Dhttps.protocals=TLSv1.2
-Djdk.tls.client.protocals=TLSv1.2
-Dcon.lbm.jsse2.overriddDefaultTLS=true
```

Note that TD/OMS clients post version 12.1 will try to automatically set the above mentioned TLS settings but there are circumstances where the TD/OMS setting will be overruled and not be active.

#### **Alternative Configuration Locations**

With regards to TD/OMS we have 2 options that can be applied that allows you to set (redirect) the base location of the TD/OMS configuration files.

In the default situation TD/OMS configuration file are stored in the logged on user's home directory (the base configuration directory), under the (relative configuration) directory: '.remain\config\omxcore'. With the provided options you can change the base configuration directory but the relative configuration directory is fixed and cannot be changed.

#### Option 1

Set the Java system property '-Domx.config.dir' with the required base configuration directory.

This property needs to be set in the RDi or Eclipse startup ini file (in the RDi/Eclipse installation directory). In most cases this is the eclipse.ini but it can also be ?application?. ini . In the example below the property is added as the last property: (eclipse.ini)

```
-startup
plugins/org.eclipse.equinox.launcher_1.1.1.R36x_v28101122_1400.jar
-launcher.library
plugins/org.eclipse.equinox.launcher.win32.win32.x86_1.1.2.R36x_v20101222
-vm \]\reflectionshinjava.exe
-vmargs
-vmargs
-vms128m
-vms1
```

With the above omx.config.dir set to 'x:\userx\home', TD/OMS will load its configuration files from the directory 'x:\userx\home\.remain\config\omxcore'.

## Option 2.

Create a file in the current configuration relative directory '.remain\config' with the name 'omx.config.dir'. The first line of the file should contain the new location of the configuration base directory.

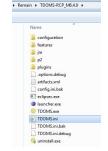
For example for userx, if the file 'c:\Users\userx\.remain\config\omx.config.dir' is found with the content 'x:\userx\home' then TD/OMS will load its configuration files from the directory 'x:\userx\home\.remain\config\omx.corfig\o

#### **Startup Preferences**

This section describes the startup preferences that can be passed to the TD/OMS GUI. It controls various aspects of the GUI. The preferences are stored in a "ini" file. The file is called TDOMS.ini in case of the standalone RCP or it is called eclipse.ini in case you have installed the plug-ins in a normal Eclipse installation or Rational installation. Before you start, make a backup of the original file.

The file looks something like this:

```
-startup
| plugins/org.eclipse.equinox.launcher_1.1.1.836x_v20101122_1400.jar
| -launcher_library | plugins/org.eclipse.equinox.launcher.win32.win32.x86_1.1.2.836x_v20101222 |
| -console | -console|
| -console|
| -console|
| -debug | -debug |
| -w .\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\frace\fr
```



### How to specify a startup preference

Startup preferences are added to the end of the ini file. What is important is that they are specified after the line "-vmargs". If this line does not exist in the ini file then you have to specify this first.

Example:

```
-vmargs
-Domx.trace.level=max
```

## Restrict the list of applications to load

You can use this setting to only load a number of applications.

```
-Domx.applications=DEMO,FIN,POLIS
```

### Location of the TD/OMS configuration files

With regards to TD/OMS we have 2 options that can be applied that allows you to set (redirect) the base location of the TD/OMS configuration files.

In the default situation TD/OMS configuration files are stored in the logged on user's home directory (the base configuration directory), under the (relative configuration) directory: '.remain\config\omxcore'. With the provided options you can change the base configuration directory but the relative configuration directory is fixed and cannot be changed.

#### Option 1.

Set the Java system property '-Domx.config.dir' with the required base configuration directory.

This property needs to be set in the RDi or Eclipse startup ini file (in the RDi/Eclipse installation directory). In most cases this is the eclipse.ini but it can also be ?application?. ini . In the example below the property is added as the last property: (eclipse.ini)

With the above omx.config.dir set to 'x:\userx\home', TD/OMS will load its configuration files from the directory 'x:\userx\home\.remain\config\omxcore'.

or

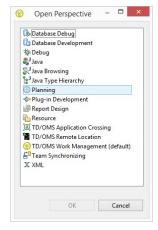
#### Option 2.

Create a file in the current configuration relative directory '.remain\config' with the name 'omx.config.dir'. The first line of the file should contain the new location of the configuration base directory.

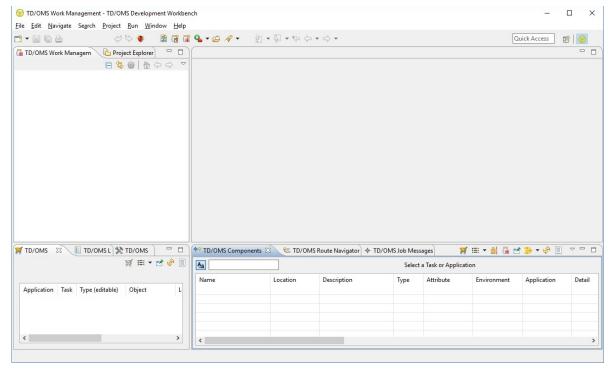
For example for userx, if the file 'c:\Users\userx\.remain\config\omx.config.dir' is found with the content 'x:\userx\home' then TD/OMS will load its configuration files from the directory 'x:\userx\home\.remain\config\omx.core'.

#### View and perspectives

Eclipse uses perspectives. A perspective is a bundle of eclipse-views that will be opened together. Start the client and choose the TD/OMS Work Management perspective.



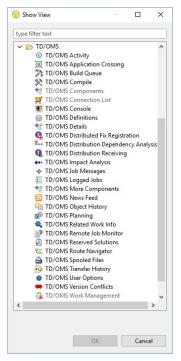
This perspective contains several views. Which views are displayed depends upon the saved (default) configuration of the selected perspective.



 $\begin{tabular}{ll} $$ $$ $$ (https://remainsoftware.com/wiki/index.php/Documentation) \end{tabular}$ 

## Opening a view

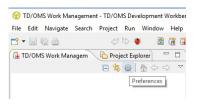
TD/OMS contains more views. Use Window->Show View->Other... to show the TD/OMS folder containing the TD/OMS views:



The views that are already open are grey and the views that are not shown (yet) are displayed in black. Any opened view will be shown again when the workbench is restarted until the perspective is reset to its default. Use Window-> Save Perspective as ... to save the active perspective. Please be aware that you will replace the current default when you select the TD/OMS perspective name.

# Preferences

The preference view shows all preferences. You can restrict the preferences shown to TD/OMS related preferences only by clicking on the preferences button in the TD/OMS Work Management view



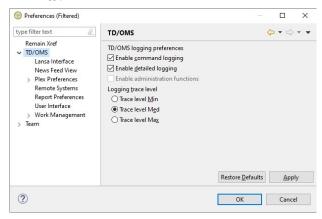
#### **Debugging options**

If you specify the debugging options, you will activate command logging, detailed logging and/or a certain level of tracing. The tracing can be seen through the TD/OMS Console view (see 2.19 ). These settings are normally only activated on the request of the TD/OMS helpdesk.

#### **Enable administration functions**

This value will be set based on the selections made during installation. A checkmark indicates that administrative activities can be performed from within this installation. You must re-install the software to change this value. This setting has no value for this version of TD/OMS.

Press the Apply button to store the values.



#### Logging

Logging can be viewed in the TD/OMS Console view.

Logging should be disabled when in normal operation. Logging will slow down the user interface.

#### **Enable Command Logging**

Logs commands to the console when checked

Enable detailled logging
Activates low level debugging that will pass more logging requests depending on the trace level.

Only errors are logged. This is the default value.

## Trace level Med

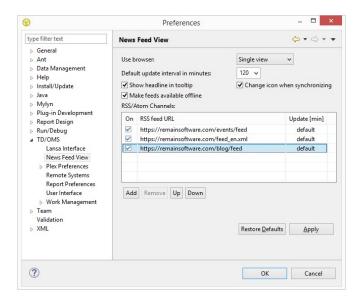
Errors and warnings are logged.

#### Trace level Max

Info and trace debugging is activated. This is the highest debug level.

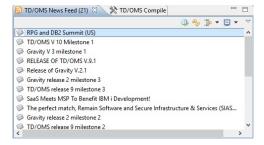
### News preference

The TD/OMS News Feed view gives access to the TD/OMS news items published on the TD/OMS website. By default the TD/OMS RSS Feeds are active but you can also add your own feeds or disable the feeds altogether.



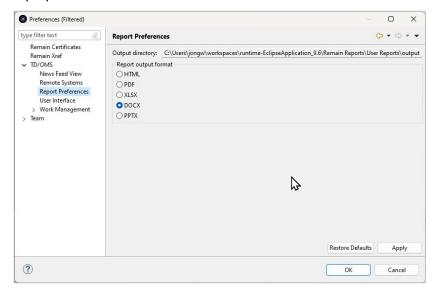
You can enable/disable your client to search for new news (new items will briefly pop-up) and the interval to use when enabled.

26/08/2024, 13:57 7 van 97



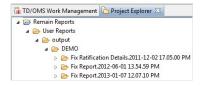
It is better to disable the search when the client can not access the internet.

#### Report preferences



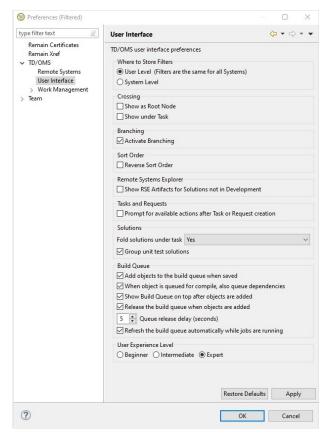
The report preferences are used when running a system/user report from the context menu.

The reports are stored in the location specified in the output directory in the format selected. Reports are not removed after you close the report view. You can use the Project Explorer view to gain access to these reports again.



User interface

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#### Where to store filters

In most cases, filters created (see 2.1) can be used for every Remote System that you define. Selecting **User level** will have the effect that the filter will only be stored once but displayed for every Remote System defined. A filter can be created/changed/delete from any of the defined Remote Systems.

Selecting System level means that:

- 1. Any filter created while on **User level** is no longer visible.
- 2. A filter has to be defined/changed multiple times when relevant for multiple Remote Systems.

 $System-level\ filters\ will\ be\ removed\ when\ the\ Remote\ System\ is\ removed.$ 

#### Crossing

The TD/OMS application crossing feature enables you to cherry-pick tasks from an upstream or downstream application. Only enable this if you are maintaining different versions of the same application.

#### Branching

Enable if you have set up your application for branching. This function will show the branching node in the work management tree and enable you to create branches.

Link to the branching HOWTO

#### Sort Order

The **Sort order** can be reversed to show the Task node as the first node when this is not the case.

## Remote Systems Explorer

When working with the RSE, this option indicates whether you can see source information in the "TD/OMS RSE Artifacts" view. From this view, various host actions can be started like source editing and debugging. It is not advised to enable this option but power users may do so. Normal IBM i authority settings apply.

#### Tasks and Requests

## Prompt for available actions..

When ticked, the request and task wizards will show a menu after the request is created to enable creation of additional requests and tasks.

#### Solutions

#### Fold Solutions under Task

YES

The solutions are grouped in environment levels

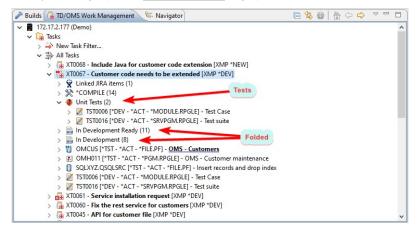
С

Change solutions are not grouped. Compile solutions are grouped.

BOTH

Change solutions are grouped but change solutions are also shown below the task. Compile solutions are grouped.

Objects matching the pattern in OMQTESTOBJREGEX are grouped below a test node.



#### **Build Queue**

#### Add objects to the build queue when saved

When you press save in the editor, the object is automatically added to the build queue

#### When an object is queued for compile, also queue dependencies

For example, when you queue a physical file, also queue any logical and related programs in the same task.

Show the build queue on top after objects are added

Puts the build queue in the foreground as the active view when you have added an object.

Release the build queue when objects are added

Tick this if you want to release the build queue when new objects are added.

#### Queue release delay (seconds)

When working remotely, the compile may be finished before the source is uploaded. You may delay the release of the build queue by specifying a value between 1 and 30 seconds.

## Refresh the build queue automatically when jobs are running

When the build queue is running, it will automatically refresh for you until all results are in.

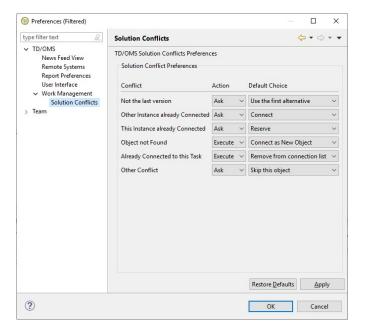
#### User Experience Level (Beta)

Adjust the number of context menu and toolbar actions that are available based on the user experience. On a beginner level only the basic actions are available, on an intermediate level more actions become possible and on an expert level all actions are available. Please note that this feature is still in beta and as such, not all actions are affected by it yet. By default this setting is set to

#### **Work Management**

#### Solution Conflicts preference

The kind of solution conflicts that are automatically resolved by the connection list process depend on the Solution Conflicts definition of the TD/OMS preferences



You can specify two kinds of actions:

You will be requested to select the appropriate action (the default choice has already been selected) and to confirm your selection

#### Execute

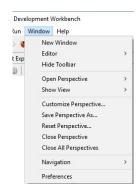
The process will (try to) perform the specified default choice.

Each conflict has a specific set of default choices that can be selected.

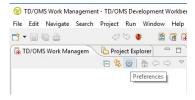
#### Defining the system

An unlimited number of systems running TD/OMS can be accessed from the workbench. Each system needs to be defined only once. The definitions will be saved when the client shuts down.

All defined systems are visible in the Work Management view. Bringing the TD/OMS Work Management view to the front will show that it is empty. Because the Work Management View is the center of TD/OMS, the systems running TD/OMS need to be defined. Preferences are set in the Preference view. Amongst other things, this is where you can define remote systems.



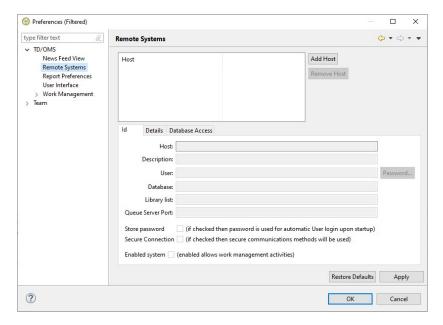
The preference view shows all preferences. You can restrict the preferences shown to TD/OMS related preferences only by clicking on the preferences button in the TD/OMS Work Management view preferences. The preferences button in the TD/OMS work Management view preferences button view preferences b



## Creating a remote system

Expand the TD/OMS preference node, you are now able to see your remote systems by selecting the Remote Systems node.

Already defined systems are displayed in the upper right panel. The preferences of a remote system are shown in the lower right panel after selecting a Remote System in the upper right panel.

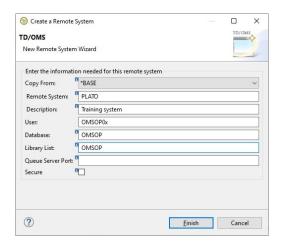


Since there are no hosts defined press the Add Host button. This will start a wizard.

Create a Remo	te system		TD/OM	×
TD/OMS New Remote System Wizard			TD/OMS	
Enter the informa	ation needed for this remote system			
Copy From:	*BASE			~
Remote System:	0			
Description:	xxxxxxxxxxxx System			
User:	OMSOP0x			
Database:	OMSOP			
Library List:	OMSOP			
Queue Server Por	rt: <sup>81</sup>			
Secure	8			
2		Finish	Cancel	

In the first field, you can select one of the hosts already defined or the special value \*BASE. This value will use the predefined set of parameters shipped with the product. The \*BASE has been automatically selected as this is the first (and only) definition available at the moment.

Enter the TCP/IP name through which the remote IBM i can be reached (e.g. mysystem or mysystem.company.com), enter/change the description and press the Finish-button.



The login window will be displayed to enable you to enter the password.



If this window does not appear then your system cannot be reached. You probably have used an invalid system name. Try to ping this name on a Windows-command-line:

C:\Users\jongw>ping myas400
Ping request could not find host myas400. Please check the name and try again.

C:\Users\jongw>\_

Enter the password for the user. If the user or password is wrong a warning will appear.

Validate & Set	User PLATO
	REMAIN
System:	plato
User:	OMSOP0x
Password:	••••
Remember:	
User ID is no	t known.:OMSOP0X Log In Cancel

You can change the user and/or password or return to the wizard screen by pressing the Cancel button. You will be asked if you want to keep/delete the Remote system information when you press Cancel. A valid and active user is required to create a new Remote System.

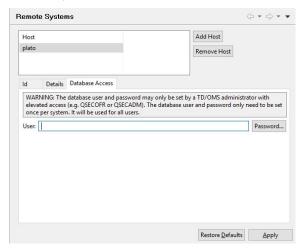
The Remote system will be displayed in the TD/OMS Work Management view. The icon shown indicates the status:

- A IBM i icon **m** indicates that the definition went fine.
- A yellow triangle 💩 or lock 🔓 symbol indicates that there were problems to open the connection.

#### **Setting the Database User**

In most cases the yellow triangle is caused by the fact that no Database user has been defined yet. The defined user may (and most likely will) not have sufficient access rights to the TD/OMS database and the required services (e.g. setting up a jdbc connection). You can resolve this by entering a user with sufficient authorisation in the Database user field (Select the Remote System and than select the DB User tab).

The database user can be created during initial installation using a clean installer or manually later on (ex. CRTUSRPRF USRPRF(OMSDB) GRPPRF(OMS) OWNER(\*GRPPRF). The user profile itself can have a name of your choice.



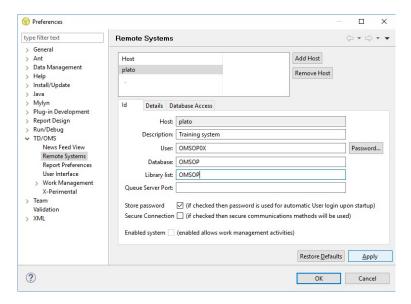
Enter the DataBase User and press the Password button.

You will be asked for the DataBase User password. After entering this password you must press the Apply button to store the DataBase User information on the IBM i system. The Database user name and password will ONLY be retrieved when the Remote System is opened. This means that the database user name is not displayed for a locked system when you restart the client. Storing the DB User password can only be done by the TD/OMS manager or by a user with a user class of \*SECOFR or \*SECADM.

Close the Preferences screen by pressing the OK button. Select **Close** in the context menu (right click on remote system in work management view). The  ${\color{red}6}$  changes into  ${\color{red}6}$ . Select **Open** in the context menu and enter your password. The  ${\color{red}6}$  will change into  ${\color{red}6}$  when no problems are found.

The host will be locked automatically in most other cases. Check the definition, make the required changes and try to open the connection by selecting Open in the context menu (right click on remote system in work management view). The TD/OMS console view (see 2.19) supplies more information when the open fails.

You can indicate that the User name and password must be stored on the client by placing a check mark in the Store Password check box on the ID tab.

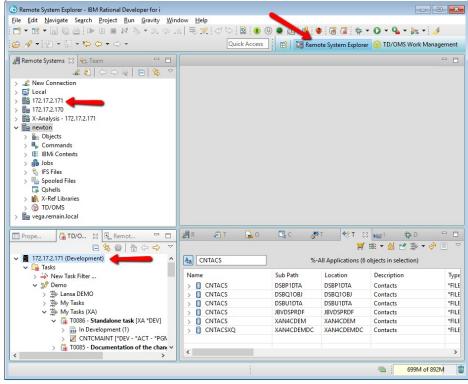


The **Password** button can be used to change the password stored (required after the password has been changed on the IBM i). Press the Apply-button on the Remote Systems preference page to store the password permanently. Information is encrypted before it is stored. Next time the client is started, it will logon automatically.

Remove the check mark in the **Store Password** check box to indicate that you (no longer) want to store the encrypted password on your client. Not storing the password means that you must enter the password when the Remote System is accessed for the first time after (or during) start up of the client or when the Remote System is opened.

## **Creating a RSE connection**

TD/OMS tries to automatically create a Remote System for RDi. In case you have problems, you want to review the host in the Remote System Explorer view that matches the name of the TD/OMS remote system when you are using RDi. If TD/OMS can find a matching RSE system, additional integration options are available, like opening the RSE editor from the TD/OMS menus.



(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# Using the views

Each TD/OMS view offers a specific way of looking at the TD/OMS information. However, views offer more than just a query on the TD/OMS-database. The Context-menu (shown through right-click on a element of the view) offers you all the possible actions for the selected element. These can be actions like **Move/Copy** and **Disconnect** when the selected element is a solution or **Direct connect** when the element is a object in the Component view. Only the actions that make sense for the selected element (task, solution, request etc.) will be shown / enabled in the context-menu.

Some actions will only be enabled based on a selection made in another view (you can only use Direct connect in the Components view when you first select a Task in the Work Management view) or on other criteria such as the TD/OMS registry settings.

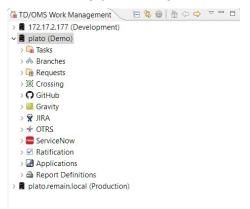
Another characteristic of views is that views react on the selection made in a different view. So will the Component view be updated when you select a different application in the Work Management view and will the Object History view be updated when you select a (different) Component in the Components view.

A detailed description of the possible Context menu actions can be found throughout this manual. A reference is made to this detailed description when applicable.

(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# **TD/OMS Work Management view**

All defined hosts will appear in the Work Management view. When you expand the system node, additional nodes will appear below it. The number of nodes will vary depending on the number of installed TD/OMS-modules and plug-ins. The nodes represent the main entities of the work management view.



The most important nodes are:

#### Tasks

Shows lists of tasks, each one defined by a filter. Every list may contain tasks of different applications.

#### Branches

Shows lists of branches, each one defined by a filter. A list may contain branches from different applications.

#### Requests

Shows lists of requests, each one defined by a filter. A list may contain requests from different applications.

#### Applications

Shows lists of applications, each one defined by a filter.

#### Ratification

Shows a list of the ratification groups of which you are a member for all application/environment combinations defined.

#### Report Definitions

Shows the canned and user-defined reports that are currently defined. It enables you to create, run and modify reports.

### **Decorations**

Sometimes, the icons and texts are decorated. This is visible by a change in text style or by an overlay on the icon. The following decorations are used:

#### **Icon Decorations**

- 🎬 Potential version conflict (plus blue underlined text)
- 🐮 Version conflict (plus red double underlined text)
- 📝 Item is in development, you may edit it.
- # This object is in the <u>Terminate</u> state.
- a Item is locked. It cannot be transferred.
- — Item is being deployed.
- A Deployment has failed. Check the logs.
- 🔏 Blue Dot. The item has <u>labels</u>.
- 🖫 Pink Dot. The item has compile overrides
- Information icon. The item has comments.

#### **Text Decorations**

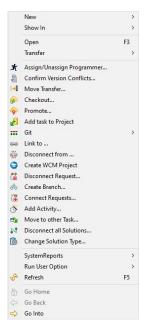
- $\blacksquare$  F3327 - Fix the program - Assigned to you (bold description)
- T0123 Debug OMX979 [KE120 \*CMP] This item is complete (strikethrough)
- OMS API maintain Solution Potential version conflict (plus blue top-left arrow in icon)
- <u>OMS Create Object OMS</u> <u>Version conflict</u> (plus red top-left arrow in icon)
- [ OMCUSL1 (2) This item is attached to (2) tasks.
- 👪 OMCUS (1+) This item is attached to (1) local task but also to tasks in related applications (+).

# **Context Menu Actions**

The actions you see in the context menu will vary depending on the context and the number of plugins that you installed.

If the action that you are looking for is not in this list, try searching for it in the search box at the top of the screen.

The common context menu actions are:



New > Create new items like Tasks and Objects.

Show In > The Show In menu tells you where there is more information about the selected item.

Open

Assign/Unassign programmer...
Confirm Version Conflicts...

Move Transfer...

Checkout... Promote...

Add Task to Project...

Link to...

Disconnect from... Connect Task to Request

Connect Request to Task

Disconnect Task

Complete Task and Complete Request Disconnect Solution

Change Solution Type Move Solutions

Edit a Task Filter
Edit a Request Filter
Edit an Application Filter
Copy a Filter

Deleting a Filter

**Add Activity** 

Edit Activity Add Effort

## Create a Task Filter

The first node in the Work Management view shows lists of tasks, each one defined by a filter. Every list may contain tasks of different applications. Before you can see tasks you must create a Filter. When a Filter is expanded, it shows the Tasks included in that Filter which could be in turn included in a Filter Group.

Expand the node called Tasks.



Double-clicking New Task Filter... starts a dialog for specifying the selection criteria. A task must pass ALL criteria to be selected.

If Save is not checked, the filter will be deleted when the client is closed!

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New Task	Filter				X
Create a ne	w task filte	er			TD/OMS
D Please prov	vide the filter	information.			
Basic Inform	ation				
Filter Name					
Filter Group					~
	✓ Save				
Conditions					
Applica	ation Code				Regex
Task Num	nber Regex				
Task Descrip	tion Regex [				
Release Num	nber Regex [				
Transfer	Path Regex [				E I
Rev	view Status				~
	Types				>
	Priorities				>
Remote Jobs	S				
Do not Fil	Iter on Status	of Remote Joi	bs		
O Show Task	ks with Failed	or Pending Re	mote Jobs		
O Show Task	ks with no Re	mote Job Issue	es (all remote jobs a	re finished or confire	ned)
(?)		< Back	Next >	Finish	Cancel
		~ Dack	I VCXL >	1111511	Caricei

Filter Name

Define the name of the filter. This is also the name the filter is saved with so some restrictions apply.

Filter Group

When specified, a filter group is created that contains the filter. It is convenient to group filters if you have a large number of filters.

If you uncheck this then the filter will become a session filter which will be removed after restart.

Specify an application code or a Regular Expression like DEM.\* or (ORDER|TOOLS).

Regex

Will cause the tasks to be selected in the client rather than in the database request. It is therefor slower but more flexible.

Task Number Regex
Type a regular expression to find the task number like F0122 or F01.\*

Task Description Regex

Type a regular expression to find the task description like .\*decimal.\* Release Number Regex

Key a regular expression to find the task release like V3R0M0 or V3.\* Transfer Path Regex

Key a regular expression to find the task with the request Transfer Path like DB or (DB|WIM) or D\*. You can press the list button ([iii]) to get a list of all available transfer paths.

Review Status

Select the ratification status to filter the task.

Select the task types that the tasks must be filtered with by clicking the arrow on the right. Priorities

Select the priorities the tasks must be filtered with by clicking the arrow on the right.

#### Remote Jobs

- Do not filter on status of remote jobs
- Show Tasks with Failed or Pending Remote Jobs
- Show Tasks with no Remote Job Issues

### Regular Expression

For some fields, a Regex (Regular Expression) can be specified. A regular expression is a very sophisticated way of specifying wildcards that goes far beyond the well known Windows wildcards \* and ?.

A thorough treatment of regular expressions is outside the scope of this manual. Remember the following:

Character	Meaning	Windows-wildcard
	An arbitrary character	?
*	Zero or more occurrences of the preceding character	
.*	Any string	*

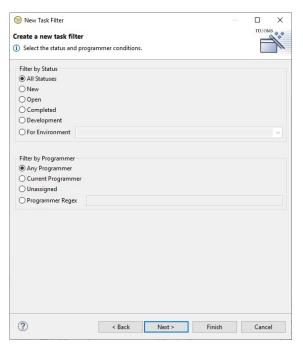
## Examples:

Expression	Matches
A*C	C, AC, AAC
A.C	AAC, ABC, ACC, ADC
(DEMOITOOLS)	DEMO or TOOLS

Regex logic will only be applied to the Application code definition when the related checkbox is checked.

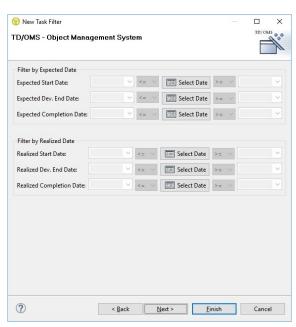
You can indicate to the filter mechanism that no filtering on a specific field is required by leaving it blank. Press the Next button to enable you to specify a selection on status and/or programmer.

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Use For Environment Only to show Task with a specific Task Status. A Task status can be identical to a environment code (eg QA) or have a special status. A completed task is selected by entering \*CMP into For Environment Only.

Pressing the Next button will enable you to specify a selection on one or more dates.

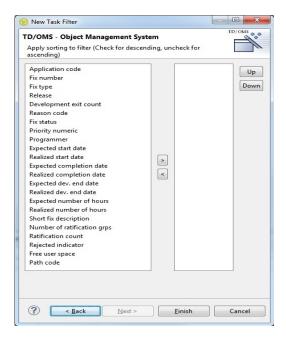


You need to press the *Select Date* button to enable filtering on that specific date.



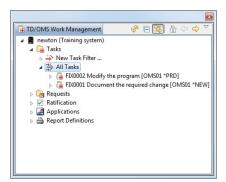
You can select a specific date, clear the selection made previously or select Today. Using Today means that the current system date will be used.

Pressing the Next button will enable you to specify the fields to sort on and the sorting sequence.



The tasks will be sorted on application (ascending) and Task number (descending) when no sorting criteria are specified.

Press the Finish button and all tasks that pass the filter criteria will appear. Note that the list can contain tasks from several applications, as shown in the decorators (the text between the [....]).
You can define as many filters as you like.



## **Create a Request Filter**

The second node in the Work Management view shows lists of requests, each one defined by a filter. Every list may contain requests of different applications. Before you can see requests you must create a Filter. When a Filter is expanded, it shows the requests included in that Filter which could be in turn included in a Filter Group.

Expand the node called Requests.



Double-clicking **New Request Filter...** starts a dialog for specifying the selection criteria. A request must pass **ALL** criteria to be selected.

If Save is not checked, the filter will be deleted when the client is closed!

reate a ne	w request	filter			TD/OMS
Please provide the filter information.					
Basic Inform	nation				
Filter Name					
	✓ Save				
Conditions					
Application					Regex
Number	Regex				
escription	Regex				
Telephone	Regex				
	Types				:
Pri	orities				
?		< Back	Next >	Finish	Cancel

#### Filter Name

Define the name of the filter. This is also the name the filter is saved with so some restrictions apply.

If you uncheck this then the filter will become a session filter which will be removed after restart.

Specify an application code or a Regular Expression like DEM.\* or (ORDER|TOOLS).

# Regex

Will cause the requests to be selected in the client rather than in the database request. It is therefor slower but more flexible.

### **Number Regex**

Type a regular expression to find the request number like F0122 or F01.\* Description Regex

Type a regular expression to find the request description like .\*decimal.\*

Telephone

Search requests based on the given telephone.

Types
Select the request types that the tasks must be filtered with by clicking the arrow on the right.

## Priorities

Select the priorities the requests must be filtered with by clicking the arrow on the right.

#### Regular Expression

For some fields, a Regex (Regular Expression) can be specified. A regular expression is a very sophisticated way of specifying wildcards that goes far beyond the well known Windows wildcards \* and ?.

A thorough treatment of regular expressions is outside the scope of this manual. Remember the following:

Character	Meaning	Windows-wildcard
	An arbitrary character	?
*	Zero or more occurrences of the preceding character	
.*	Any string	*

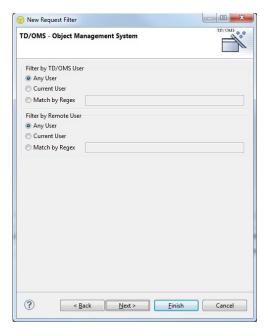
### Examples:

Expression	Matches
A*C	C, AC, AAC
A.C	AAC, ABC, ACC, ADC

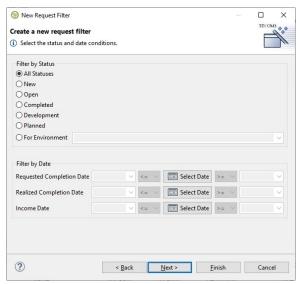
Regex logic will only be applied to the Application code definition when the related checkbox is checked.

You can indicate to the filter mechanism that no filtering on a specific field is required by leaving it blank. Press the Next button to enable you to specify a selection on TD/OMS and/or Remote user.

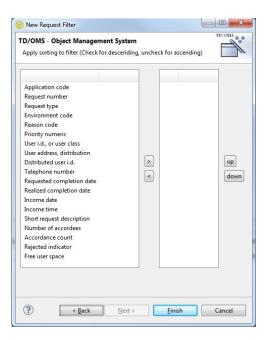
26/08/2024, 13:57 20 van 97



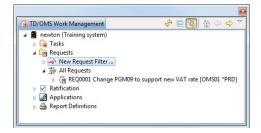
Press the Next button to enable you to specify a selection on status and/or various dates.



Pressing the Next button will enable you to specify the fields to sort on and the sorting sequence.



Press the Finish button and all Requests that pass the filter criteria will appear. Note that the list can contain requests from several applications, as shown in the decorators (the text between the [....]). You can define as many filters as you like.



# **Create an Application Filter**

The fourth node in the Work Management view shows lists of applications, each one defined by a filter. Before you can see applications you must create a Filter. When a Filter is expanded, it shows the applications included in that Filter which could be in turn included in a Filter Group.

Expand the node called Applications.



Double-clicking **New Application Filter...** starts a dialog for specifying the selection criteria. An application must pass **ALL** criteria to be selected. If Save is not checked, the filter will be deleted when the client is closed!



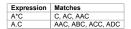
#### **Regular Expression**

For some fields, a Regex (Regular Expression) can be specified. A regular expression is a very sophisticated way of specifying wildcards that goes far beyond the well known Windows wildcards \* and ?.

Remember the following:

Character	Meaning	Windows-wildcard
	An arbitrary character	?
*	Zero or more occurrences of the preceding character	
.*	Any string	*

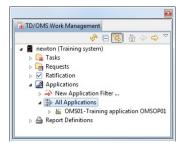
#### Examples:



 $You \ can \ indicate \ to \ the \ filter \ mechanism \ that \ no \ filtering \ on \ a \ specific \ field \ is \ required \ by \ leaving \ it \ blank.$ 

Press the Finish button and all Applications that pass the filter criteria will appear. Note that the list can contain requests from several applications, as shown in the decorators (the text between the [....]).

You can define as many filters as you like.



## **Create a Branch Filter**

Expand the node called Branches.



 $Double-clicking \ \textbf{New Branch Filter...} \ starts \ a \ dialog \ for \ specifying \ the \ selection \ criteria.$ 

Filter Name All o	All open Branches for OMS0 applications	
Group Name		(
✓ Sa	re	
27722711		
Conditions		
Application Code	Regex OMS0.*	
Branch Name	Regex	0-
Diametri Tamic		
Branch Description	Regex	
Owner	Regex	
Filter by Status		
All Statuses		
○ New		
Open		
Completed		
O Development		

Filter Name: The name of the filter. This is the only field that is mandatory.

Filter Group: Choose if the filter is going to belong to a group or not and select the desired group if it does.

Save: Check to save the filter. If not, it will be deleted the next time TD/OMS is started.

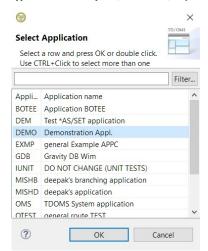
Application Code Regex: The application code of the branches.

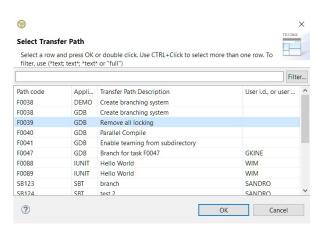
Branch Name Regex: The name of the branches.

Branch Description Regex: The description of the branches.

Owner Regex: The owner of the branches.

For the application code and branch name fields it is possible to select your choices from the available options by clicking the button next to the field. This will open a small dialog with all the available applications or transfer paths (branch names) for your choosing. Filtering of these options along with multiple selection is also possible.





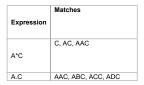
#### Regular Expression

For some fields, a Regex (Regular Expression) can be specified. A regular expression is a very sophisticated way of specifying wildcards that goes far beyond the well known Windows wildcards \* and ?.

#### Remember the following:

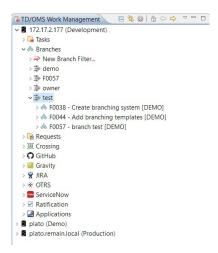
Character	Meaning	Windows-wildcard
	An arbitrary character	?
*	Zero or more occurrences of the preceding character	
.*	Any string	*

#### Examples:



You can indicate to the filter mechanism that no filtering on a specific field is required by leaving it blank.

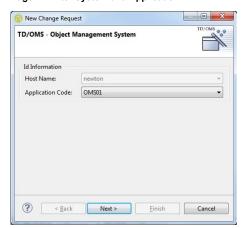
Press Finish to create the filter.



#### Creating a request

You can start creating a new request by choosing New->Request from the context-menu in any TD/OMS view or by pressing the New Change Request | 16 button in the toolbar. This will start the New Change Request wizard.

Page 1 - Enter System and Application



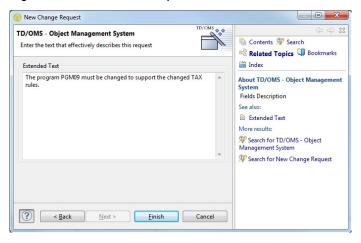
The Host (Remote system) name is already filled in and can not be changed when a detail line of a Remote system has been selected within the TD/OMS Work Management view. Select the Host name when this is not the case and select/change the Application if required. Press the Next-button.

Page 2 - Enter Request Attributes

Task Information	
Request:*	*GEN
Request Type:	FUNC ▼
Priority:	NORM ▼
Reported by:*	OMSOP01
Short Description:*	Tax change
Telephone:	
Requested Completion Date:	Date.
requested completion bate:	Date

All fields indicated with an asterisk are required. Specifying \*GEN for the Request will instruct TD/OMS to generate the request number based of the application specific settings. Overwrite the \*GEN value to avoid this default behaviour. Press the Finish-button if there is no requirement to enter extended text or press the Next-button if there is.

Page 3 - Enter Extended Text Description



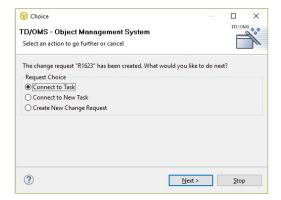
Enter the extended text (if needed) and press the Finish-button.

You can press the question mark button in the lower left corner to obtain context sensitive help. Adding a request may fail in which case you will receive an error message.

Page 4 - Continue



After generating a Request the wizard will show the Choice screen. This screen informs you about the action performed and enables you to immediately initiate the next step (Connecting a (new) Fix) or repeat the current activity (Creating a Request).



You can press the Stop button to end the wizard.

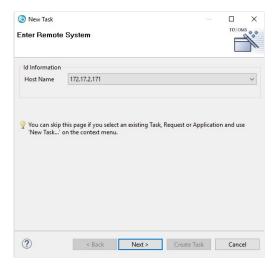
(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

### **Creating a Task**

You can start creating a new task by choosing New->Task from the context-menu in any TD/OMS view or by pressing the New Task 👔 button in the toolbar. This will start the New Task wizard.

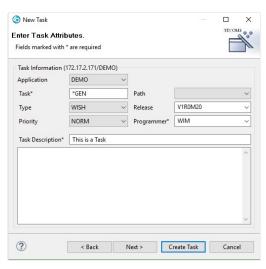
#### Page 1 - Enter Remote System

This page will not be shown when you have started the wizard and the context could have been determined from the current selected element. The Host (Remote system) name is already filled in and can not be changed when a detail line of a Remote system has been selected within the TD/OMS Work Management view. Select the Host name when this is not the case and press the Next-button.



#### Page 2 - Enter Task Attributes

All fields indicated with an asterisk are required. Specifying \*GEN for the Task will instruct TD/OMS to generate the Task number based of the application specific settings. Enter a long description (if needed). Press the Create Task button if there is no requirement to enter Task Project information or press the Next-button if there is.



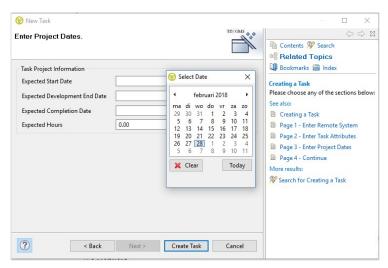
## Fields

Application

- Task
- Transfer Path
- Task Type
- Release
- Priority Code
- Programmer
- Short Task Description
- Extended Task Description

### Page 3 - Enter Project Dates

Enter the Task Project information (if needed) and press the Create Task button. You can press the question mark button in the lower left corner to obtain context sensitive help. Please note that you can also use the planning view to manipulate the project dates.

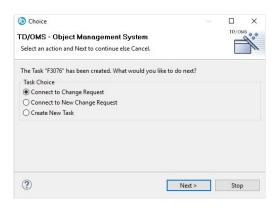


#### Fields

- Expected Start Date
- Expected Development End Date
- Excepted Completion Date
- Expected Hours

#### Page 4 - Continue

Adding a Task may fail in which case you will receive an error message. After generating a Task the wizard will show the Choice screen. This screen informs you about the action performed and enables you to immediately initiate the next step (Connecting a (new) Request) or repeat the current activity (Creating a Task).



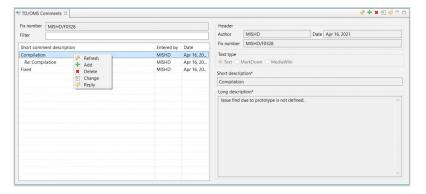
You can press the Stop button to end the wizard.

The TD/OMS Comments view shows comments about the item that is currently selected. You may create comments for applications, environments, sub-environments, objects and details, solutions, tasks, and requests

# The TD/OMS Comments View

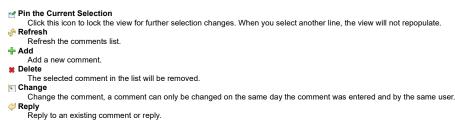
Opening the comments view can be done by:

- Selecting a Task (or any other of the types mentioned above) and using the Show in .. context menu;
- Using the quick-access box in the toolbar and typing Comments;



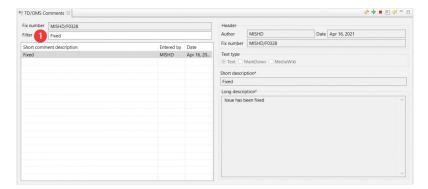
#### **Toolbar Items**

Use the toolbar to execute below actions.



#### Finding a comment

You can use the Filter field for quick filtering of the comments in the list. It will find the typed words in the subject of the comment.

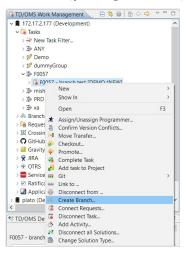


#### **Branching**

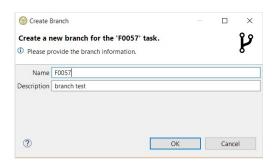
<translate>

## Create Branch

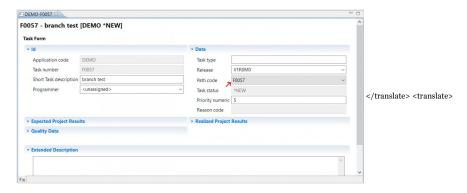
To create a branch, you must right-click on a task (or many) and select the "Create Branch" action.



This will open the respective dialog that allows you to choose the name and the description of the branch. For convenience, these values will be automatically filled for you from the task itself. If many tasks are selected then they will be filled in from the first task in your selection. Both fields are mandatory for a branch to be created.

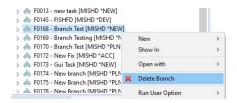


When OK is pressed then the newly created branch will also be assigned to the tasks that you selected to create it.

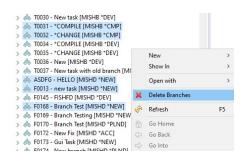


#### **Delete Branch**

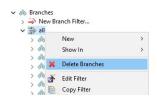
To delete a branch, right click on it and select the *Delete Branch* option. A branch can be deleted only if all the tasks that are assigned to it are completed meaning that it must have either \*NEW or \*CMP status.



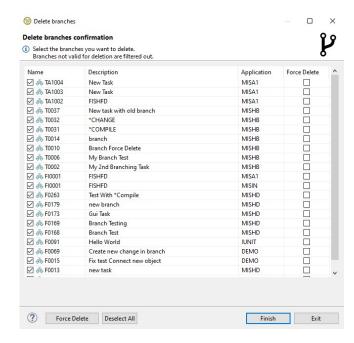
If many branches need to be deleted then they all need to have the \*NEW or \*CMP status or the option won't be available. They can also be from different applications but not from a different host.



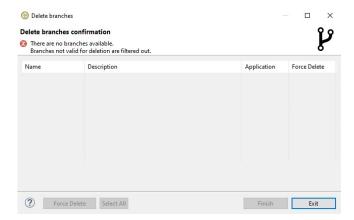
Another option is to right click a single branch filter.



The delete branch wizard has a table with the branches and a checkbox for each one defining if it should be force deleted. Force delete is useful if a branch can't be deleted normally because its libraries or routes still contain objects. In case a branch filter was selected, any branches that don't have the \*NEW or \*CMP status will be automatically filtered out and won't show in the table. When the wizard opens all branches will be preseded for deletion.

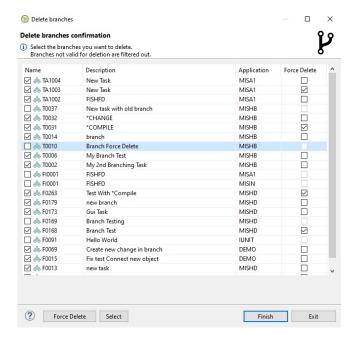


If a branch filter doesn't have a single branch with the \*NEW or \*CMP status then no branches are valid for deletion and the wizard will show the error with the table will being empty without any possible actions.

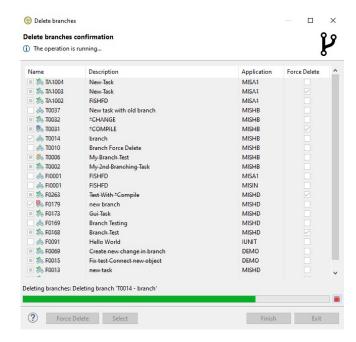


#### **Wizard Content and Actions**

The table itself has four resizable columns with the branch name, description, application and a checkbox to select if a branch must be force deleted. The table can be ordered by clicking on the columns to sort the branches based on their name, description or application. On the bottom left there are shortcut buttons that allow you to force delete (or don't force delete) all selected branches and a button to select/deselect all available branches or select only the ones that are selected on the table.

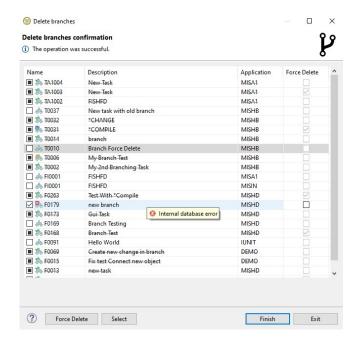


When you have made your choices press finish to start the process.



A progress bar will appear showing which branch is processed at the moment. As the progress continues the table will update the branches based on the returned status of each one: Deleted with an informational or warning message, or Not Deleted with an error. If the branch is deleted it will have a strike-through line in the middle of its text and if there is no extra information to display then it will have a green check on the top left of its icon. If there is extra information to display it can be viewed when hovering over a branch row with an extra icon.

The operation can be cancelled by pressing the red box at the right of the progress bar and the table will show the status of the branches that have been processed already. Any deleted branches will be gray-checked and won't be available for selection anymore and they will be excluded from any actions in the wizard.



If all available branches on the table are deleted without any extra messages to show then the wizard will close automatically when the process is finished. Any affected objects that are visible in a tree in all open views will be refreshed and all affected open editors will be refreshed or closed accordingly. </translate>

 $\begin{tabular}{ll} $$ $$ $$ (https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide) $$ $$$ 

## Connecting a Component to a Task

Solutions are components (objects, IFS files, 4GL objects), messages and source members that are connected to a task. Expanding a task shows the solutions already connected to that task.

This section describes the following:

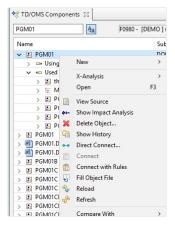
- Connecting an object to a task
- Connecting a member to a task
- Connecting a message to a task

Creating a solution requires using the TD/OMS Work Management view and the TD/OMS Components view. Depending on the method chosen the TD/OMS Connection List view can be used during the process.

Ensure that the following steps are/have been taken:

- Open the TD/OMS Work Management view
- Select the task that must accept the solution(s)
- Right-click the task to show the context menu
- Select Show in.. / TD/OMS Components

Once the components view is open you can find the required component by searching for it in the quick search box or by applying a filter. Right-click the desired component, member or message to show the connect options.



The menu contains 3 options for creating solutions:

#### Direct Connect

Components are immediately connected to the task that is selected in the TD/OMS Work Management view. This is done by

running the connection rules if required by this registry setting.

- adding the objects to the Connection List
- starting processing of the connection list

#### Connect

The selected components are made visible in the Connection List view. Components in the Connection List view can be removed from the Connection List or assigned to another group (task). The components in the Connection List can be transformed into solutions by pressing the **Fracess Connection List** button on the TD/OMS Components view or the TD/OMS Connection List view.

If the Connect option is disabled then only connection with rules is allowed (by using Direct Connect or Connect with Rules.

#### **Connect with Rules**

The connection rules defined within TD/OMS are applied to the selected components. The selected components and the (additional) components meeting the selection criteria are made visible in the Connection List view. Components in the Connection List view can be removed from the Connection List or assigned to another group. The components in the Connection List can be transformed into solutions by pressing the process Connection List button on the TD/OMS Components view or the TD/OMS Connection List view.

Note that the **Connect** options only work as expected if a task is selected in the Work Management view. If no task is selected then the component will still be added to the connection list but not where you might expect it. The selected task is visible in the header of the view.



In addition, this feature (the context-menu on a list or tree-item depends on the item itself **and** on selected items in other views) is applied wherever possible. The availability of certain Connect action is also dependent on authorisation, <u>TD/OMS registry settings</u> and task status (**Connect** can not be used when task status is \*CMP (Completed)).

#### Connecting a source member or message to a task

The procedure to attach a member from source file (if it is not already a source of a component) or a message from a message file is done in the same way as stated above. Please note that there is a separate **Details view** to better search for the required member or message. You can open the Details view as usual by using the Quick Access field in the toolbar or by selecting a Message File or a Source File and using the context menu **Show in ... / TD/OMS Details view**.

(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# The Mylyn interface

## The basic idea

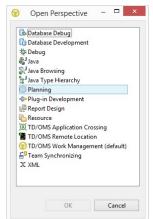
The TD/OMS software offers functions to manage native IBM i objects (stored in libraries), Documents (stored in document folders) and other objects (stored on the IFS in the (QOpenSys) folder structure). The Documents are supported for backward compatibility.

TD/OMS will transfer the non IBM i objects to a specific folder based on the definitions made by the application owner. These definitions have to be generated first. Within TD/OMS these definitions are known as Routes. Routes are registered on a sub-environment level and each sub-environment can contain multiple routes. During the transfer the process will use the route stored with the solution to transfer the object from the current location to the location registered for the same route code in the selected target sub environment(s).

## The Mylyn perspective and its views

A perspective is available containing the relevant views. Select "Open Perspective" (from the Window menu or by clicking the button), select "Other" and choose the Planning perspective.

 $\hbox{\cite{thms/delta/images/remainsoftware-logo.png)}} \label{thm:com/profiles/remainsoftware-logo.png} \label{thm:com/profiles/remainsoftware-logo.png} \label{thm:com/profiles/remainsoftware-logo.png} \label{thm:com/profiles/remainsoftware-logo.png} \label{thm:com/profiles/remainsoftware-logo.png} \label{thm:com/profiles/remainsoftware-logo.png}$ 



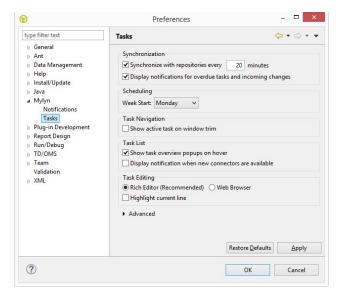
This perspective contains several views. Which views are displayed depends upon the saved (default) configuration of the selected perspective.

#### Set-up activities

Usage of the Mylyn interface requires some set-up on the client before it will work.

# 1 Setting the Mylyn preferences

 $The \ preferences \ (use \ window\ /\ preferences \ to\ access)\ contain\ a\ separate\ node\ related\ to\ Mylyn.\ Expand\ this\ node\ and\ Select\ Tasks.$ 



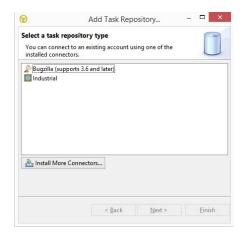
The default for automatic synchronization is every 20 minutes. The number of times that synchronization takes places can be increased by entering a lower value or automatic synchronization can be deactivated by removing the check mark.

#### 2 Adding a task repository

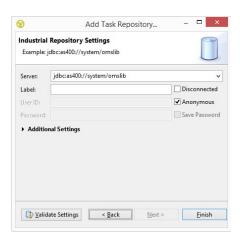
The Task Repositories view always contains a Local Task Repository. This enables you to create tasks within your own workspace.

TD/OMS will automatically create a Task Repository when a TD/OMS Request or TD/OMS Task is accessed with the "Open with Mylyn Task Editor" option on the context menu and the required Task Repository definition is not found. In some situations you may want to manually create (or modify) the Task Repository definition.

Click the [f] (Add Task Repository) button shown in the Task Repository view.



Select the Industrial Task Repository type and the Next button.



To connect to the IBM i the Server field must be:

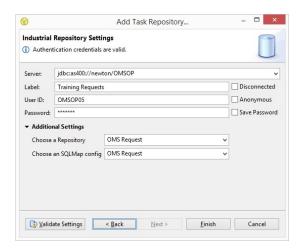
Jdbc:as400://myhost/mylibrary

You must replace myhost with the name of your IBM i and mylibrary with the TD/OMS library name. Mylyn expects that the server field contains a unique string. An additional connection to the same server can be achieved by using a different alias for the host name.

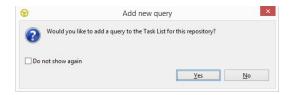
The Label is a descriptive name of the Task Repository connection.

Uncheck the "Anonymous Access" check box and fill in the User ID/Password.

Open the "Additional Settings" section to select the Request Repository and SQL mapping configuration when required. Please be aware that the Server value may be reset if you make a change in the *Additional Settings* 

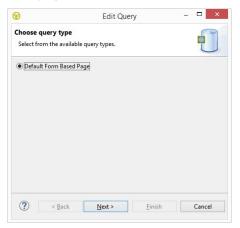


It is advised to validate the settings before pressing the Finish button. Press Finish to save your settings.



Select Yes to create a New Query or select no if you do not want to create a query (yet). You can also create a Query by selecting a New Query... from the context menu on the selected Task repository.

#### 3 New Query



Only 1 Repository type is available and already selected. Press Next.

)	E	dit C	uery			<b>×</b>
orm Based Query b	<b>ery</b> ased on existing v	alues	in the Data	base		
Query Title: Summary Description Comments						
Products	Owners		Status		Priority	
DEMO OMS01	OMSOP01 OMSOP05	•	*ACC *CMP *DEV *LOCK *NEW *PLND	•	P1 P3 P4 P5 P9	
Creation Date	e before:	22/1	0/2014 🗐 •	After:	22/10/2014	4 🗐 -
Development	t End Date before	22/1	0/2014 🗐 -	After:	22/10/201	4 🗐 -
Completion I	Date before	22/1	0/2014 🗐	After:	22/10/201	4 🗐
			Update	Attribute	es from Rep	ositor
? < <u>B</u>		t >	E	nish	Can	icel

The Query Title must be entered and should be a clear description of the defined query.

Entering a value in the Summary field will result in exclusion of the Requests/Tasks that do not have the exact string somewhere in the (short) description.

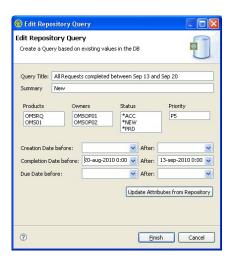
The Repository is queried and the information found is displayed.

The following Mylyn to TD/OMS mapping is done:

- Product > Application
- Owner > Reported by/Programmer
- Status > Status
- Priority > Priority

Mylyn only supports 5 different priority codes whereas TD/OMS supports many more. The mapping process will group TD/OMS numeric priorities (e.g TD/OMS priority 8 and 9 are both P5).

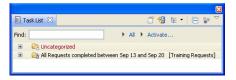
Special attention must be given when entering the dates. The get the information for a specific period the later date must be entered in the first column.



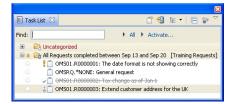
Selections will reduce the set of tasks retrieved. The attributes shown are determined when the query is created. The update attributes button will retrieve the currently available values and remove previous selections.

# Task List activities

The Repository Query definitions can be found in the Task List view.



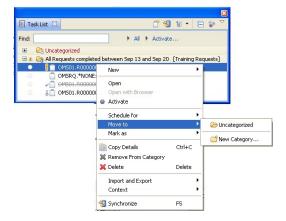
The tasks will become visible by pressing the + character in front of the definition.



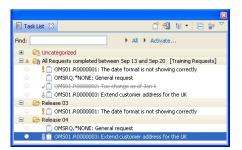
The priority is indicated in front of of the task:

Very High
High
Normal (default)
Low
Very Low

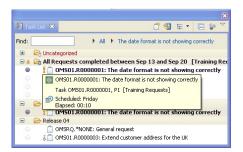
Tasks can be assigned to a category by selecting it from the context menu. This is also the place to create a new category.

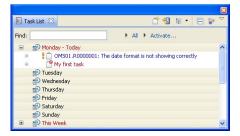


The intention is to create categories that represent your development driver such as releases.



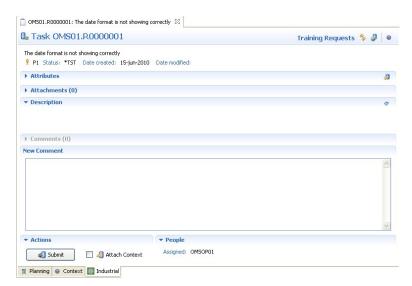
You can register the time spend on a task by activating a task (Activate from the context menu, via the Activate button in the sub header or by clicking the transparent dot in front of the task). You can stop the time registration by de-activating the task (Deactivate from the context menu, by selecting deactivate in the pull down menu in the sub header or by clicking the dot in front of the task). The elapsed time is shown when you hoover over the task.





A red line indicates that 1 or more items are overdue.

The Task can be opened in the editor pane by double clicking on it. The industrial tab is the first one to be displayed.



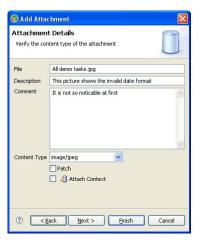
The attributes section contains priority, status and date information.

The attachment section enables you to add attachments to the task from various locations. Press

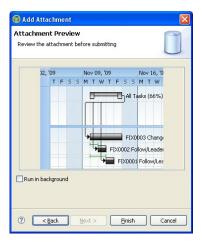
Note: In order for attachements and discussions to work please journal the following files:
OMANT
OMANT
OMPREC
OMPREC



Pressing Next will allow you to enter some additional information. \\



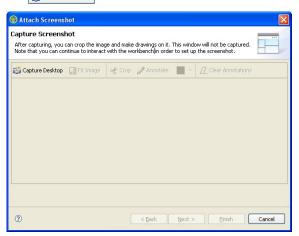
Presing Next again will show a preview of the attachment (when applicable).



Pressing Finish will store the attachment with the task.

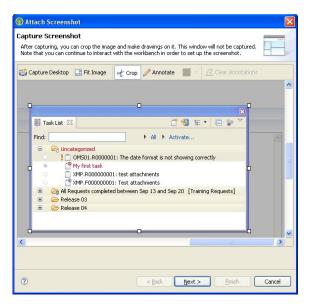
Besides adding a attachment from a File, Clipboard or workspace location an attachment can also created based on, a part of the screen currently shown.

Press Attach Screenshot...



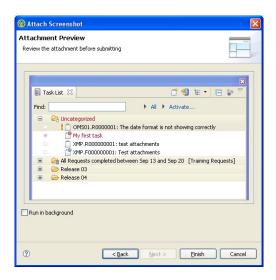
The instruction in the header is self explanatory.

- Make sure that the information you want to capture is shown on the screen ans select the Capture Desktop button.
- Use Fit Image to select the entire screen.
- Use Crop and select the desired portion of the screen when you do not want the entire screen



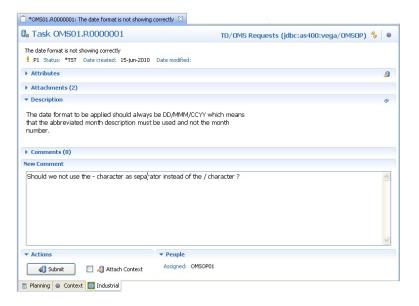
Pressing Next will allow you to enter some additional information

Presing Next again will show a preview of the attachment (when applicable).

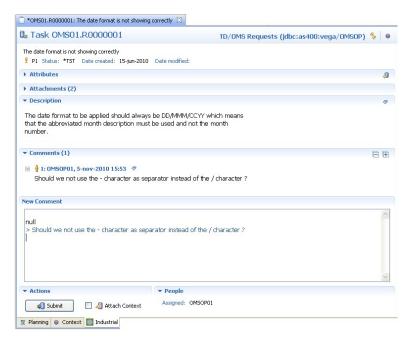


Pressing Finish will store the attachment with the task.

The  $\it New \ Comment$  field in the Comments area enables you to add comments to the Request/Task.



Press 🔊 usumit to add the comment. You (or someone else) can include the comment text in your reply by clicking the reply 🏶 button behind the comment.



# Mylyn Integration with TD/OMS

### How to Use

Converting a whole TD/OMS filtered task or request list into Mylyn list with one click.



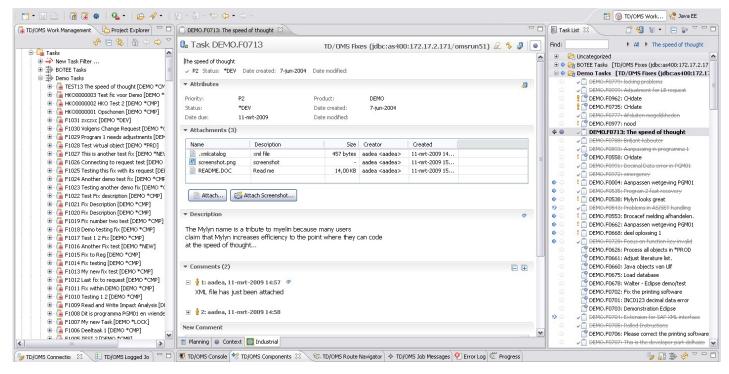
Making a new Mylyn query from within TD/OMS.



Opening a TD/OMS task or request in Mylyn rich editor.



TD/OMS will present the information in the following way.



#### **Issues**

Please report related problems to: helpdesk@remainsoftware.com

# More About Mylyn

### Mylyn Philosophy in a Nutshell

Mylyn a sophisticated mechanism for keeping track of tasks. A task is any unit of work that you want to recall or share with others, such as a user-reported bug or a note to yourself about improving a feature. In TD/OMS case a task is a Fix or Request. To connect to a particular task repository, you must have also installed a Mylyn connector for that repository. Mylyn is integrated with TD/OMS using Industrial Connector (http://wiki.eclipse.org/Mylyn/Incubator/Generic\_Industrial\_Connector).

Once your tasks are integrated, Mylyn monitors your work activity on those tasks to identify information relevant to the task at hand. From this, Mylyn creates a task context — the set of all artifacts related to your task. These can include documents you've browsed, methods you've edited, and APIs you've referred to. Mylyn uses the task context to focus the UI on interesting information, hide what's uninteresting, and automatically find what's related. Having the information you need to get your work done at your fingertips improves your productivity by reducing the time you spend searching, scrolling, and navigating. By making task context explicit, Mylyn also helps with multitasking, planning, reusing past efforts, and sharing expertise.

Over time, the result of using Mylyn is a subtle but fundamental shift in the way you work. Once you become accustomed to working in a task-focused way, you're likely to notice a dramatic increase in your productivity. Being organized, staying on top of dozens of collaborative tasks, and tracking your progress will gradually become effortless.

More info

 $Interesting \ Mylyn \ Presentation \ by \ Mik \ Kersten. \ Mylyn \ project \ lead. \ (http://www.tasktop.com/videos/mylyn/webcast-mylyn-3.o.html)$ 

Mylyn tutorial by Mik Kersten (http://www.ibm.com/developerworks/java/library/j-mylyn1/)

Mylyn Visual tutorial (http://www.eclipse.org/mylyn/new/)

Mylyn User Guide (http://wiki.eclipse.org/index.php/Mylyn\_User\_Guide)

### Mylyn Installation

Note: Mylyn requires Java 5 or later. It will not work, and will complain on startup, if you try to run it with JRE 1.4 or earlier.

 $For seamless integration with TD/OMS, it's advised to use Mylyn 3.0.2 or later. You can download Mylyn from: \\ \underline{Mylyn download page (http://www.eclipse.org/mylyn/downloads/)}$ 

 $Please\ do\ install\ Mylyn\ before\ we\ can\ go\ further\ integrating\ it\ with\ TD/OMS:\ \underline{Mylyn\ installation\ steps\ (http://www.ibm.com/developerworks/java/library/j-mylyn1/\#N10136)}$ 

(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# Non IBM i objects

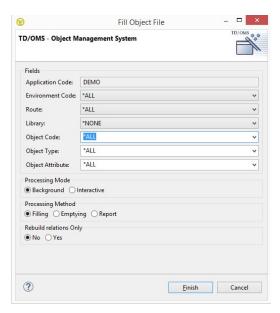
# The basic idea

The TD/OMS software offers functions to manage native IBM i objects (stored in libraries), Documents (stored in document folders) and other objects (stored on the IFS in the (QOpenSys) folder structure). The Documents are supported for backward compatibility.

TD/OMS will transfer the non IBM i objects to a specific folder based on the definitions made by the application owner. These definitions have to be generated first. Within TD/OMS these definitions are known as Routes. Routes are registered on a sub-environment level and each sub-environment can contain multiple routes. During the transfer the process will use the route stored with the solution to transfer the object from the current location to the location registered for the same route code in the selected target sub environment(s).

# How to tell TD/OMS about these objects

You can make the objects already stored in the defined routes known within your application by running the Fill Object File function. Change the default Route value (\*NONE) by selecting a specific route or the special value \*ALL to activate this feature.



You can use this method to make new objects available within TD/OMS after you have moved them to the correct location but this means that:

- You must have access to the IFS
- You must know the exact location to store the objects

To avoid these knowledge requirements and manual actions several interfaces have been generated to import objects into TD/OMS and to export objects from TD/OMS to another (version) management system. An example of an interface that is available as a separate module is the Subversion to TD/OMS interface which enables the user to connect an object to a TD/OMS task by selecting the task and route. Another example is the Checkout/Checkin of an object to a Eclipse Project. This interface is available in all TD/OMS GUI installations and will be discussed in more detail.

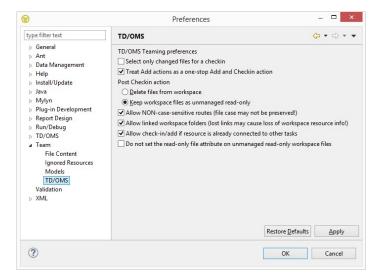
# TD/OMS and the eclipse teaming interface

### Set-up activities

Usage of the TD/OMS teaming interface requires some set-up on the client before it will work.

### Teaming preferences for TD/OMS

The preferences (use window/preferences to access) contain a separate node related to Teaming. Within this node a TD/OMS sub node exists to enable configuration of the TD/OMS specific settings.



# Select only changed files for a checkin

Activating this option will limit the objects that can be checked back in to the related task to those objects that have been changed.

Objects that meet these requirements are represented by the 🔓 icon. Checked out objects which are in sync with the TD/OMS repository are represented by the 🥞 icon.

For this project:

Project Explorer & 

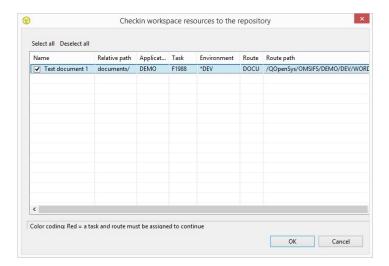
Documents [newton DEMO/F2244/DOCU]

A documents

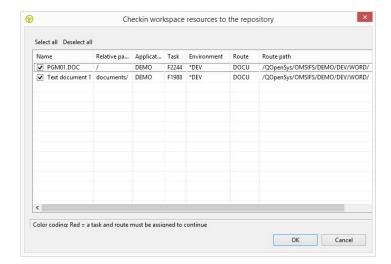
Text document 1 [F1988 "DEV DOCU]

PGM01.DOC [F2244" DDCU]

Performing a Checkin to task with this option activated would result in:



Performing a  ${\bf Checkin}\ {\bf to}\ {\bf task}$  with this option de-activated would result in:



# Treat Add actions as one-stop Add and Checkin action

The Add to task will be automatically followed by a Checkin to task when this preference is checked. It may be a good idea to check this preference when you normally wait with adding your resources to TD/OMS until you have completed development.

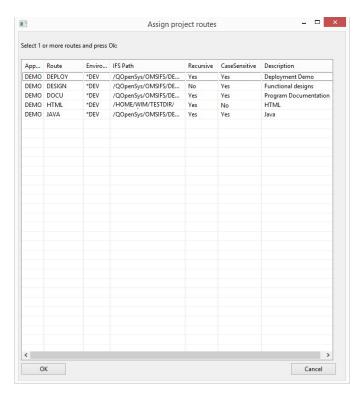
### Post Checkin action

This preference determines what is done with the resource after it has been checked in to the task. Selecting *Delete files from workspace* will remove the resource. Selecting *Keep workspace file as unmanaged read-only* will not remove the resource. The icon in front of the resource name will change into . Performing the checkin for the Text document 1 resource mentioned above and Keep selected would result in:



Allow NON case sensitive routes

 $Activating \ this \ preference \ will \ make \ it \ possible \ to \ select \ Non \ case \ sensitive \ routes \ while \ adding \ routes \ to \ a \ project.$ 



Only routes that have QOpenSys as the first folder will be case sensitive.

### Allow linked workspace folders

Activating this preference will make it possible to create folders within a project that link to a folder in the file system (e.g. a shared folder on the IBM i). Usage of linked folders is not recommended as the availability of resources cannot be checked/controlled by teaming in the same manner as can be done for non linked workspace folders.

### Allow check-in/add if resource is connected to other tasks

Activating this preference will make it possible to check-in/add a component to a task while (another version of) the component is connected to 1 or more open tasks. TD/OMS will enforce the standard solution conflict rules:

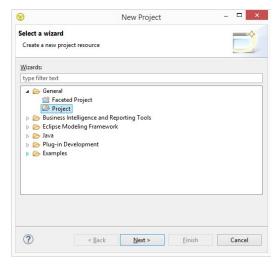
- 1. Connect as leader and make other occurrence a follower when in the same location
- 2. Lock other occurrence when location differs.

# Do not set the read-only file attribute on unmanaged read-only workspace files

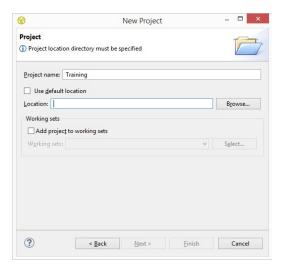
Activating this preference will avoid that the read-only attribute is set for files that are left behind. In some situations setting the read-only attribute may cause problems for other products that try to access the file.

# **Project definition**

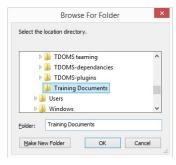
- Create a new project
  - Select File, New, Project
  - Select Project from the general Tab and press next

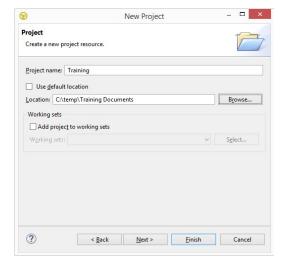


• Give the "Project" a useful name and de-select the Use default location checkbox



• Enter (or use the Browse button to select) the location (use the Make new folder button during the Browse when applicable).



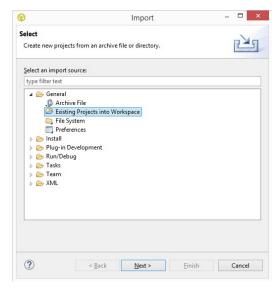


■ Press Finish to create the project

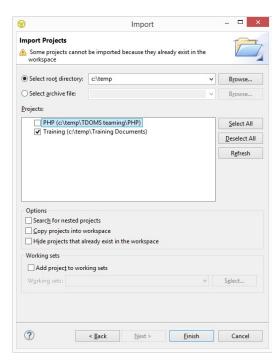
# Import an existing project

You can import project information that has been created with another installation by selecting import from the File menu. This will be the case when you are sharing the same (network) location.

Open the General tab and select Existing Projects into Workspace.



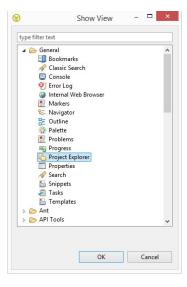
After pressing the Next button you can enter the (network) path to the existing project (or select it after pressing the Browse button).

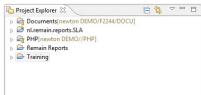


The project(s) are added to your workspace when the  ${\bf Finish}$  button is pressed.

# Show the project

Use Window, show view, other to open the Project Explorer view from the General Tab and put the view next to the TD/OMS Work Management view.





The folder this project is pointing to contains a document called .project. This document must not be deleted as it contains the project information.

# Share the project

Select Team, Share project from the context menu of the project folder (in this case Training). When more than 1 sharing possibilities exist the selection screen will be displayed.



Select TD/OMS and press Next



Select the defined Repository location (Remote system/Host) and Application (You must first select the remote system before you can select an application).

The Restrict to the use of non-recursive routes checkbox enables you to indicate that the project will only allow adding resources to a task for non-recursive routes. Any folders created within the project must have a name identical to a non-recursive route name of the related application.

The Use project name in route path checkbox will allow you to share multiple workspace projects with a single route. With this option enabled the Eclipse project directory name (the last segment of the fully qualified project directory) will be used as the primary directory within the chosen route. This construction makes it possible for 1 route to server multiple Eclipse projects. This differs to the default share behavior where a TD/OMS route maps directly to an Eclipse project directory and which allows you to share only 1 Eclipse project per route.



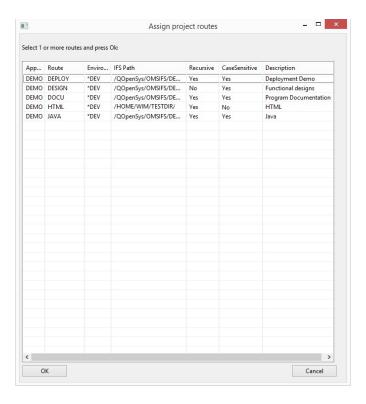
You can also select a default task and route and/or press next to add additional tasks/routes but this is optional, although the default route is mandatory if the option *Use project name in route path* was selected. Press Finish. The folder icon has changed to indicate that the project is shared.



In the case of a *Use project name in route path* the project name and sharing description will be separated by an @ this is to indicate the project share type. In the example above the project will have been displayed as follows: Training@[newton DEMO//?route?]

# Add route(s) to project

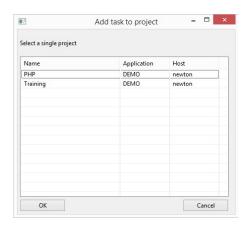
Select **Team**, **Add routes** from the context menu of the project folder. The program will determine the routes that are not known to the project (yet). This option will not be visible if the share option *Use project name in route path* was enabled.



Select the Route(s) to add and press OK. This step can be avoided by selecting a default route in the previous step but has been added to show that maintenance functions can be reached by selecting Team in the context menu of the project folder. Note, if the project is enabled with 'Use project name in route path' then the route is fixed, it is not possible change or add a route.

## Add task(s) to project

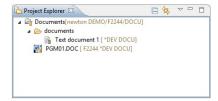
Switch to the TD/OMS Work Management view, select the task you want to add to the Project and select Add task to Project from the context menu.



Select the project to which you want to add the task to and press the OK button.

# How to create project folders

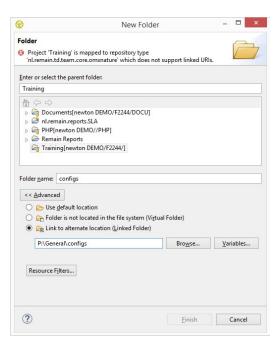
You can create a folder structure in the project folder (by selecting **New**, **Folder** from the context menu). This enables you to put your objects where preferred but requires that you use recursive TD/OMS routes.



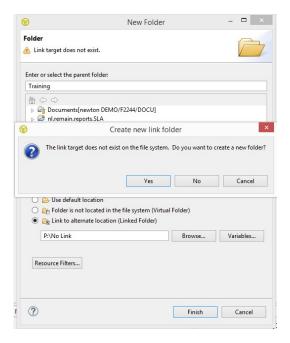
The New Folder interface enables creating 2 types of folders:

- new (physical) folders below the path linked to by the Project
- folders that link to a folder in the file system

Creating a linked folder is only possible when **Allow linked workspace folders** in the Team TD/OMS preferences has been activated. This option is de-activated by default. When de-activated a message will be shown in the header of the create folder view on selection of the Link to folder in the file system checkbox.

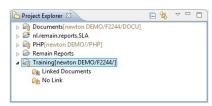


It is possible to specify a path to a location that does not exist (yet). You will be asked if the folder should be created or not.



Press No if you do not want (or are not authorised to) create the folder.

If the folder was created by pressing Yes or by adding an existing folder, the linked folder icon ((a) is displayed. The folder icon will contain an exclamation mark ((a) when the link failed (as shown for the no link folder in the picture below).



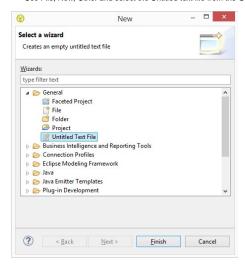
When working with linked folders you should always guarantee that the linked folder can be accessed before you start working with the objects in the project (e.g. you may have to log in on the server to achieve this).

You can use any application to generate/maintain the objects in the project folder (structure). Depending on the Route definition made by the application manager TD/OMS will remember the folder structure.

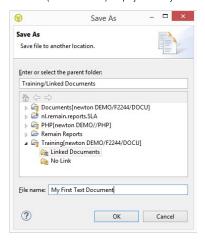
How to create/connect a document

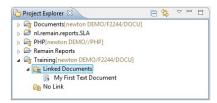
A simple text document can be generated by performing the following steps:

• Use File, New, Other and select the Untitled text file from the General tab.

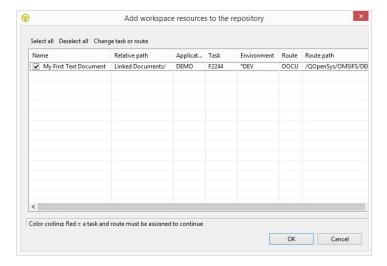


- Press Finish to open the editor.
- Enter some text and Close (or Save) the document.
- Select (the folder within) the project when you want to store the document and enter a valid name for the document

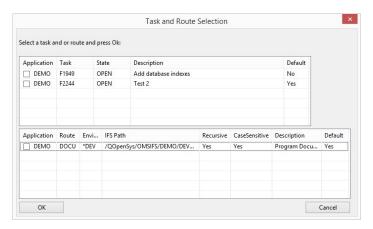




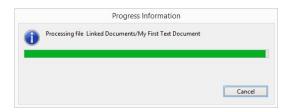
 $Select \ Team, \ \textcolor{red}{\rlap/{\rlap/}{\rlap/{\rlap/}{\rlap/{\rlap/{-}}}}} \ Add \ to \ task \ \ from \ the \ context \ menu \ to \ add \ a \ new \ component. \ This \ action \ applies \ to \ the \ objects/folders \ selected.$ 



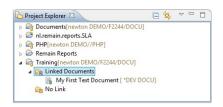
 $The task/route\ can be\ changed\ by\ double\ clicking\ an\ object\ or\ by\ clicking\ the\ \textbf{Change}\ task\ or\ route\ button\ after\ selecting\ 1\ or\ more\ objects.$ 



Press OK (twice) to start the process.



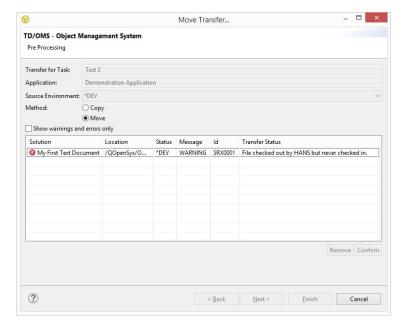
The document icon will change to indicate that the object has been connected.



The document has been transferred to the IFS, connected and checked in (if specified in the Teaming preferences) to the task as shown in the TD/OMS work management view.

■ newton (Demo system)
 □ Tasks
 □ New Task Filter ...
 □ My open demo tasks
 □ E2244 - Test 2 (DEMO "DEV]
 □ Linked Documents/
 □ My First Text Document ("DEV - "ACT - "STMF]

An arrow in the icon indicates that the object has not been (automatically) checked in. Running a transfer will fail as the object has to be checked in first.



You may be able to select the component and press **Confirm**.



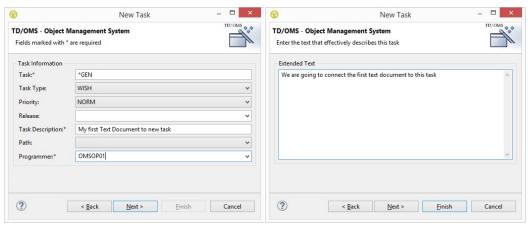
### How to quickly connect a document to a new task

In some situations you may want to connect 1 or more documents to a new TD/OMS task. To achieve this with the option explained earlier you would have to:

- Create a new TD/OMS task
- Assign the task to the teaming project
- Add the documents to the task
- Check in the documents to the task (preference enable to do this automatically as part of the previous step)

Instead of performing these steps separately you can select Team, 🖊 Create a new default Task and Checkin ... from the context menu to do this i1 step. This action applies to the objects/folders selected.

Fill in the required fields in the New Task wizard:



 $After \ pressing \ the \ \textbf{Finish} \ button \ the \ progress \ bar \ will \ be \ displayed \ briefly. \ When \ completed \ the \ info \ screen \ is \ shown$ 

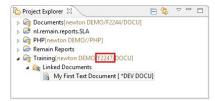
Info on add of workspace resources to the repository

Checkin of workspace file(s) was successful.

Connected 1 file(s) to task: F2247

Click  $\mathbf{OK}$  to close the screen.

The new task has been assigned to the Teaming project as the default task.

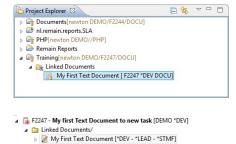


The new task will also appear in the TD/OMS work management tree with the document(s) connected.

The default solution conflict handling will be applied during the connect process. This means that the status will show as \*ACT for the solution of the new task when a document is not active on another task or when the solution of the other task is not in the same location (in which case the status of the solution on the other task will show \*LOCK). The status will show as \*LEAD for the solution of the new task when it replaces a solution in the same location (in which case the status of the solution on the other task will show \*FOLLOW).

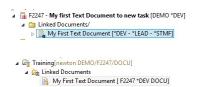
#### Checkin/Check out activities

Select Team, Checkin to task from the context menu of the object in the Project Explorer view. This will transfer the object, remove it from the project (depending on the teaming preferences) and change the icon in the TD/OMS work management view.



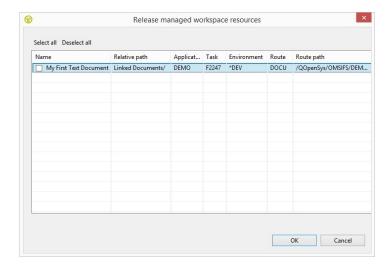
# Checkout (as read-only) to project

An object can be transferred to a defined project by selecting the Checkout to project on the context menu of a solution in the TD/OMS work management view. This will flag the object as checked out (indicated by the arrow in the icon) and will make the object available in the project in the navigator view.



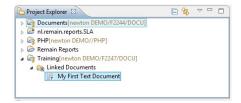
The Checkout as read only to project option on the context menu of a solution in the TD/OMS work management view will also place the object in the project but with a different icon () to indicate that the object is managed but not locked.

You can remove the check out/managed object indication by selecting Team, Release managed files in the context menu of the object in the project Explorer view. You must explicitly select the object(s) to be released. All objects can be (de-)selected by pressing the related button in the header.

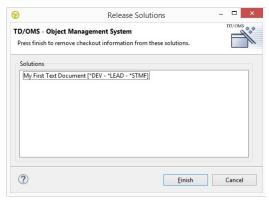


The selected objects will be processed by pressing the OK button. This will change the icon shown in the TD/OMS work management view (when applicable) and will leave the object in the navigator view showing a question mark in the icon.

☐ F2247 - My first Text Document to new task [DEMO \*DEV]
☐ Linked Documents/
☐ Wy First Text Document [\*DEV - \*LEAD - \*STMF]



Another way to remove the check out/managed object indication is available by selecting Release managed files in the context menu of the solution in the TD/OMS Work Management view. You must



Click Finish to achieve the same situation as shown above.

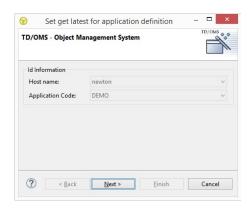
### Import related activities

Several options are available to support the batch retrieval/update of TD/OMS managed non IBM i objects and store these within a defined project. Most of these options are part of the Team sub-menu within the context menu. Some of these Team sub-menu options are only available on project level and some are available on other levels as well. The options involved are:

■ Set get Latest Definition

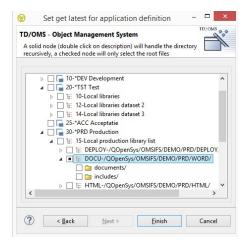
This project level option is used to define which IFS trees must be read during the retrieval process. This definition has to be performed before the retrieval can take place.

Selection of this context menu option will start the wizard.



The screen shows the Host and application related to the project.

Pressing next> will show the application environment/sub environment definition. You can expand the environments and sub-environments to show the underlying routes.

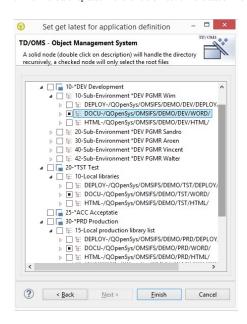


Clicking inside a check box in front of a route will put a check mark () to indicate that only objects in the location shown are taken into account.

Double clicking the route will change the check box into a solid node (I) to indicate that objects in the location shown and in locations below the location shown are taken into account.

The retrieval process will start with the selected routes in the environment with the lowest number and will end with retrieving objects from selected routes in the environment with the highest number. Depending on your requirements you can (re-) generate the desired project content by making different route selections.

The picture shown above will retrieve only objects from the production environment whereas the picture below will retrieve the objects from all environments (in which objects from the production environment are replaced with the version found in the test environment and/or development environment).



Pressing Finish will store the definition (as teaming.rgdlx) in the root of the project.

Get latest from repository

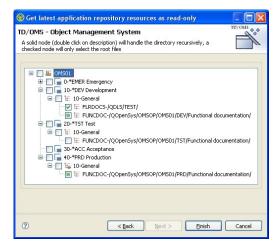
← Get latest from repository

This context menu option will retrieve the objects from the defined locations and store these objects as read only in the project (objects already in the project are replaced with the version from the lowest environment when checked out as read only and skipped when checked out).

The screen shows the Host and application related to the project.



Pressing next> will show the application environment/sub environment definition. The environments in which 1 or more routes have been selected during the definition are expanded automatically. You can expand the remaining environments and sub-environments to show the underlying routes.



Pressing Finish will start the retrieval process based on the (modified) definition.



During the process 1 or more warning/error situations can be detected. These situations will prevent retrieving the latest version of the object. At the end of the process a message will be displayed showing the first error/warning. In case of multiple errors/warnings the message will also refer to the fact that the messages are stored in the TD/OMS console view.

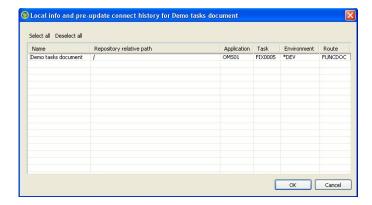




The environment and route is displayed for each retrieved object.



The option  $\mathcal{B}_0$  Show task connect history on the teaming sub tree of the context menu will display more information.



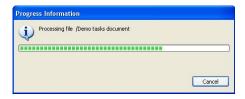
■ Replace read-only with latest

FOR Replace read-only with latest

This context menu option will retrieve the objects from the defined locations and store these objects as read only in the project. This function will replace objects that are already known within the project as read only (an object with the same name must exist but without the read only indication will not be replaced) and will not add objects unknown within the project. At least 1 object must exist with a read only indication for this option to be available.

Read only objects will be removed from the project when they are (no longer) part of the definition scope (the definition has been changed or the object is not found any more).

Selection of the context menu option will start the retrieval process based on the definition created earlier.



During the process 1 or more warning/error situations can be detected. At the end of the process a message will be displayed showing the first error/warning. In case of multiple errors/warnings the message will also refer to the fact that the messages are stored in the TD/OMS console view.

The environment and route are updated for each retrieved object in the project.



■ Update read-only fromm latest

€ Update read-only from latest

This context menu option will retrieve the objects from the defined locations and store these objects as read only in the project. This function will replace objects that are already known within the project (an object with the same name but without the read only indication will also be replaced) and add objects unknown within the project. At least 1 object must exist with a read only indication for this option to be available.

Read only objects will be removed from the project when they are (no longer) part of the definition scope (the definition has been changed or the object is not found any more).

Selection of the context menu option will start the retrieval process based on the definition created earlier.



During the process 1 or more warning/error situations can be detected. At the end of the process a message will be displayed showing the first error/warning. In case of multiple errors/warnings the message will also refer to the fact that the messages are stored in the TD/OMS console view.

The environment and route are updated for each retrieved object in the project.

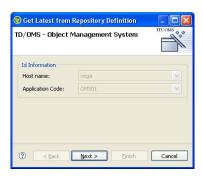


The teaming options related to batch retrieval create or depend on the teaming,rgdlx file which is stored in the root of the project. It is also possible to perform a even more advanced import outside of the teaming menu by selecting some context menu options on a object with the rgdlx extension. The teaming,rgdlx should never be used for running these options to avoid problems with the teaming submenu options. The teaming,rgdlx object is however a good candidate to copy and store under a different name in any location within the project.

# ■ Restore Definition

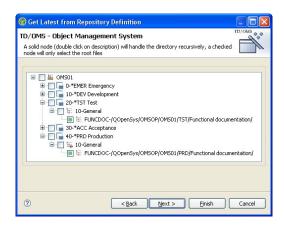
🗗 Restore Definition

This option enables you to change which IFS trees must be read during the retrieval process.



The screen shows the Host and application related to the project.

 $Pressing \ next> will show the application \ environment/sub \ environment \ definition. \ You \ can \ expand \ the \ environments \ and \ sub-environments \ to \ show \ the \ underlying \ routes.$ 



Clicking inside a check box in front of a route will put a check mark ( ) to indicate that only objects in the location shown are taken into account.

Double clicking the route will change the check box into a solid node (I) to indicate that objects in the location shown and in locations below the location shown are taken into account.

The mayor difference with the Set get latest definition described earlier is that Next> button is available.

© Get Latest from Repository Definition

TD/OMS - Object Management System

Description

Get latest across all related applications

Filter setting

The filter is the regular filename filter and not a regular expression. Allowed are \*.\*\* or \*7? xmi, \* etcetera.

All types that match the defined filter will not be selected.

Compress setting

Enabeling the compress option will suppress the selection of files with the same location name but from different applications. Only the most logical for the selection will be processed.

▼ Compress output file

Filter setting

This filter determines which objects are NOT included

Compress setting

A check mark indicates that application interface definitions are NOT taken into account. Without the check mark other applications (with a import application interface definition for this application) will be taken into account as well.

List Get Latest

C List Get Latest

This option will generate a object with the rglrx extension. This objects contains the (xml) definition of the objects to be imported and open the file in the editor area. This object can be used as part of the CRTBLDDIR command on the IBM i to retrieve objects from various locations on the IFS and place them in a different IFS location without the requirement to use a eclipse project.

■ Fetch Get Latest

€ Fetch Get Lates

This option will execute the retrieval of the objects and store these as unmanaged objects within the project.



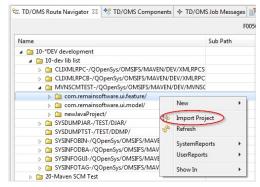
### Import an Eclipse Project

Import an Eclipse Project from the Route Navigator

As part of the Share multiple projects functionality you can create an Eclipse project from the Route Navigator. Depending on the route setup you can either select a single route or a top route directory. If you have multiple projects stored under a route then select the directory containing the project to be imported. The import does not support checkout of multiple projects at the same time, projects need to be imported 1 by 1.

If the route contains a .project file then the Eclipse project will be created based on the .project file. If no .project file is found then a new project will be created based on the route's application and route code. All imported files will have the status TD/OMS read-only managed.

The new Eclipse project will be automatically shared with the TD/OMS teaming provider. The project will be shared with the development environment of the application to which the route belongs. If an an application does not have a development environment then the import will stop and an error message will be displayed.



(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# Ratifying a request or a task

# What is ratification?

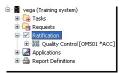
When ratification is activated either at the task level or at the request level, then transfer from the environment in question is allowed only after the approval of one member from every activated ratification group.

Ratification on task level is well suited to enforce more technically oriented ratifications. Activate ratification on task for the test-environment, define a ratification group containing the members of the quality assurance-team and a transfer to the next (eg acceptance) environment will only be possible when one of the members approves.

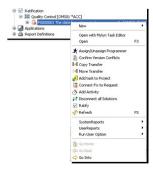
Ratification on request level is well suited to enforce more functionally oriented ratifications. Activate ratification on request for the acceptance-environment, define a ratification group containing the members of the test-team and a transfer to the next (eg ready for implementation) environment will only be possible when one of the members approves.

# How to ratify

Expand Ratification under the system you are working on. All authorized ratification groups for the configured (and authorized) applications/environments will be visible.



All tasks or requests you have to ratify can be accessed by expanding the ratification groups.



Select the Ratify action from the context menu to start the ratification process. The ratification process will prompt you to enter the required information.



The password is the actual system password, belonging to your user profile. The ratification code has two possibilities:

Yes The ratification group approves to move the task/request to the next environment

No The ratification group does NOT approve to move the task/request to the next environment

In case you change your mind, you can ratify again with a different choice, as long as the request/task is not processed. After processing, the task/request will disappear from the ratification view.

 $\begin{tabular}{ll} $\swarrow$ (https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide) \\ \end{tabular}$ 

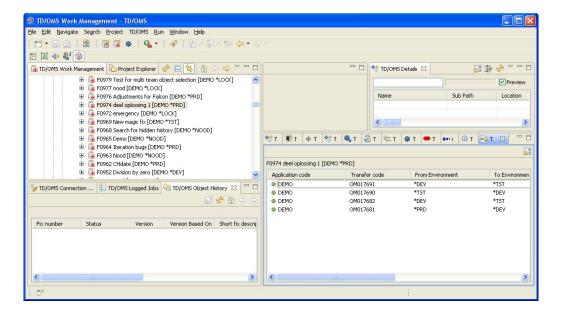
# History

# **Transfer history**

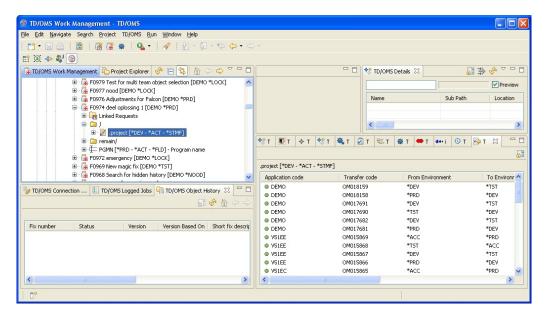
All activities during an object transfer are written into the TD/OMS log. Examining the log can be very helpful, especially when trying to determine what has gone wrong when an error has occurred during a transfer.

Open the TD/OMS History View. There are two levels of transfer history.

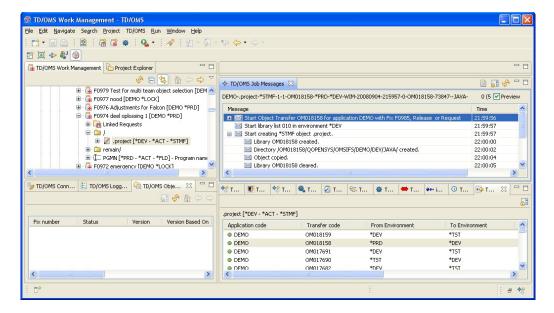
 ${\tt 1} \ Selecting \ a \ task \ in \ the \ TD/OMS \ Work \ Management \ View \ will \ show \ the \ associated \ transfers.$ 



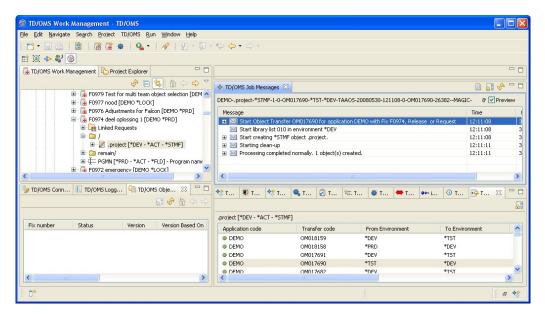
2 Select a component from the previously selected task. The view will show all transfers associated with the component. Because a component can be part of many tasks, this history can be quite large.



Open the TD/OMS Job Messages View. Selecting a transfer in the TD/OMS History view will reveal its messages in this view:



When transfers are executed interactively, the log entries will be stored in the log of the "interactive" job. In that case, the logging entries of the actual transfer can not be isolated easily. It is recommended to activate the transfer as a batch job, causing the log of the job to be separated from other events that are also logged.



The remark Start rebuilding relations marks the end of the log writing of a transfer. If an error has occurred, then a separate error log is created. Here the number of the error or warning is given.

### Remote logs

Logs are also generated on remote systems, for example if a transfer distributes components to a remote system. These logs can be accessed in the same way if the remote systems are defined in the TD/OMS Work Management view

(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# **Version Conflicts**

# What are Version Conflicts?

If different versions of the same object are maintained at the same time, TD/OMS requests a confirmation when the second (or higher) version of the object is moved to production. This is tracked by writing a record in the Version Conflicts Table (OMOVC) which will also keep the confirmation history.

A Version Conflict record is created when an object is checked out from production (PRE V160KEM03) or promoted and checked-out (POST V160KEM03).

Maintenance of different versions of the same object at the same time can occur more or less frequently depending on the (defined) cycle. Cycles with an emergency environment and cycles with Application interface definitions are good candidates for version conflicts.

An example: An application has 4 environments:

*EMER	Emergency
*DEV	Development
*TEST	Test
*PROD	Production

Now, the following happens:

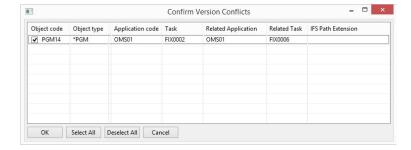
- Program X is copied from \*PROD to \*DEV.
- Program X is moved to \*TEST.
- Program X in \*PROD contains a bug that must be fixed a.s.a.p. It is copied from \*PROD to \*EMER.
- Program X is moved from \*EMER to \*PROD. The version in production is replaced. Program X in \*TEST is now based on a version that no longer exists in \*PROD.

If confirmation of version conflicts is required, program X in \*TEST cannot be moved to \*PROD without confirmation.

### **Confirm Version Conflicts**

The version conflict confirmation process can be activated by selecting **Confirm Version Conflicts** in the context menu for a Solution, Task or Application or by opening the TD/OMS Version Conflicts view, selecting a Solution, Task or Application and selecting **Confirm Version Conflict** in the context menu after selecting the conflicts to confirm (see 2.23 for more information about the TD/OMS Version Conflicts view).

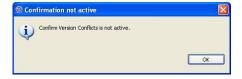
A panel shows all selected objects:



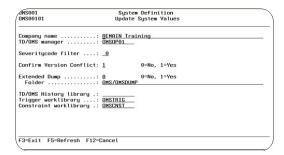
Deselect the conflicts that should not be confirmed and press the OK-button to confirm the selected conflicts.

# When is Version Conflict confirmation active?

It is possible that a warning appears when confirming:



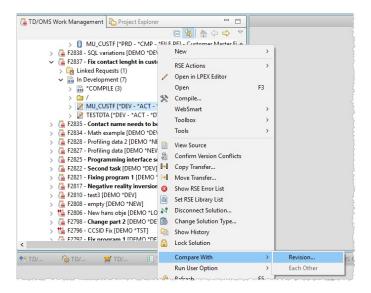
In that case, start TD/OMS on your IBM i and issue the command STRSD (You must have TD/OMS manager or security officer authorisation to do this). This will show the setting for Confirm Version Conflict. If it is set to zero, there is no need to confirm the version conflicts. However, the Version Conflicts View can always be opened.



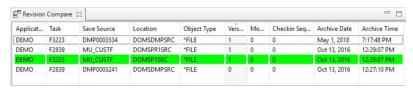
# **Compare and Merge Sources**

You want to be able to compare your current version of your source with any archived version. You also want to compare and merge the changes that your co-worker added in an emergency session. For this the Compare functionality has been added.

You can select an object or a solution and use the "Compare With.." context menu option. Select "Revision.."



A list will be populated with all known versions of this source and it will be displayed sorted on version number with the latest version on top of the list.



The three lines above mean the following.

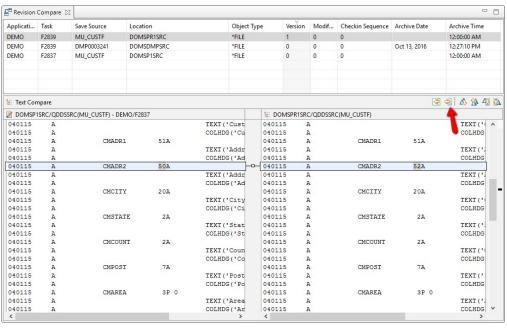
- The top two lines show the production source and a safe copy of that source. Task F2839 was used to change the file.
- The third line shows our selected source in green as it currently is in development in Task F3223

Performing a right click on any of the revision lines will show the menu option 'Show Task info' and if the selected object is a stream file then you will also get the menu option 'Checkout revision to project'. With the 'Show Task info' the 'Related work info' view will be shown with relevant task information made available.

With the 'Checkout revision to project' it is possible to directly checkout the selected revision file to an Eclipse project. The target file name will be the original stream file name with a the revision number added, for example DMP000001 with revision 1.1 will become for example StrFileIfs-1\_1.txt (where StrFileIfs.txt was the originally archived stream file and is the name of the most current revision). The target Eclipse project will be presented in a list, those projects that are team connected to TD/OMS will have the application and host set.

# **Selecting a source for Compare**

Suppose you want to merge the changes from the task F2839. You can compare with the version of the source before the change (DMP0003241) or the version after the change (the top line). Just doubleclick the desired entry and the compare view will be populated



Please note that the source line change date is moved to the beginning of the source. This enables preservation of the source line change date. The sequence of the source is not preserved and the source will be re-sequenced once opened again with the LPEX or SEU editor.

# **Making changes**

When you select a development or emergency solution you are able to edit this file by manually coding changes or by using the compare editor. When using the compare editor click the right-to-left option to get a change block from the other version.

After the source was changed, pressing the save icon (or CTRL+S) will save the merged version into the development source.



#### **NOTES**

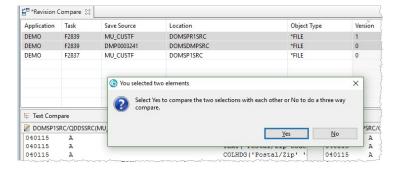
You have to give enough access to the '/QOpenSys/TD/tmp/CMNDIR' directory or any other directory that you designate as work directory with the OMQMORKOIRCAMON registry setting.

\*PUBLIC needs to have \*RMX on '/QOpenSys/TD', '/QOpenSys/TD/tmp' and '/QOpenSys/TD/tmp/CMNDIR'

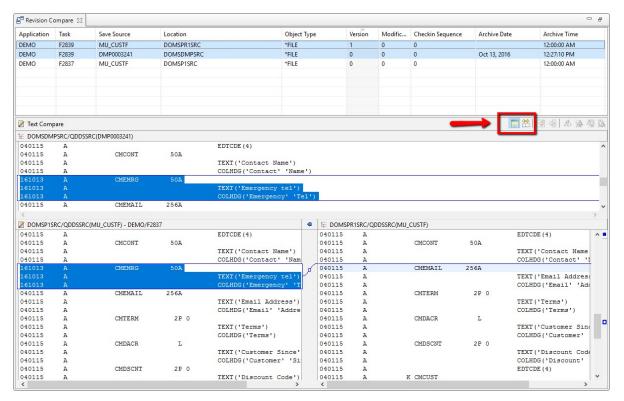
Control characters in the source will be removed when you save.

# Three way compare I

If you select two elements in the list (hold the CTRL key while selecting) and double-click you get prompted with a question. Choose "No" the start a three way compare.



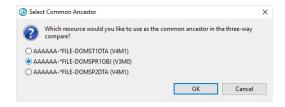
The object with the lowest version number will be the common ancestor except when this is the object that was selected from the components view. You can show the ancestor by clicking the reveal ancestor button.



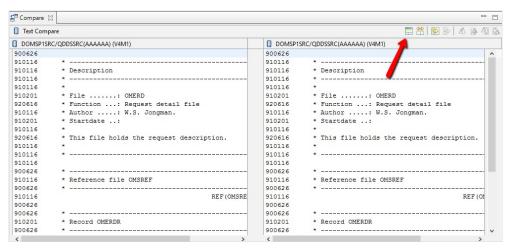
# Three way compare II

You can also invoke the three way compare by selecting three objects in the components view. This is more useful than it seems because especially when two objects are simultaneously being developed it makes sense to select the two objects and the object in production. Then select compare with each other from the context menu.

A dialog will popup which enables you to select the common ancestor. This is mostly the production object which is most of the times the object with the lowest version number.



You can show the ancestor by clicking the reveal ancestor button.



(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

# **User options**

# Why User Options?

TD/OMS contains many built-in actions on most types like solutions and objects. If these actions are not enough, User Options can be created to extend the available functionality.

These User Options can be selected from the context-menu in most views. The action **Run User Option** shows the Action Groups and the User Options that are not part of a group. Selecting an Action Group shows the User Options of that group. If the group is started with an underscore \_ then the user option group will be placed in the top of the context menu. The picture below shows the context menu with the top level groups in orange highlight.

Only those User Options appear in the context-menu that meet the following conditions:

The user must be authorised to use the User Option
It is possible to make a private User Option or a User Option can be authorised for a specific level of access in the application.

### The User Option must be valid for the selected item

The user option may not be activated for the selected context. The current valid contexts are Task, Request, Component and Solution.

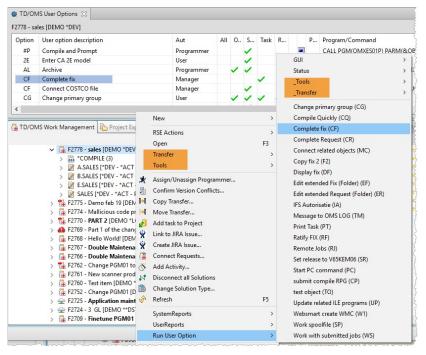


Figure 1: User Option context-menu

A status screen will be displayed after completion.



The Console view will show which errors are encountered. You might have to consult the joblog to find the actual cause of the error.

The user options can be viewed/maintained using the TD/OMS User Options view. Application manager authorisation in at least one TD/OMS Application is required for user option maintenance.

# **Command string substitution parameters**

The command string that is entered in the user option can contain substitution variables. Currently the following variables can be used.

# Fields from Application Database

&APAPPL	Application code
&APAPNM	Application name
&APERPR	Request manager
&APDMPL	Dump library
&APGL4N	4-GL Name
&APSRCI	Check source indicator
&APCRLS	Release
&APCERR	Request number
&APIERR	Increment
&APCFIX	Fix number
&APIFIX	Increment
&APCNVS	Data conversion scope
&APCATT	Attribute conversion type
&APCATS	Attribute conv. scope
&APCAUT	Authorisation conv. type
&APCAUS	Authorisation conv. scope
&APCJOT	Journal conversion type
&APCJOS	Journal conversion scope
&APMODC	Module code
&APDRVC	Derivation code
&APMTPC	Message 2 programmer code
&APFBLC	Fall back library
&APFJBD	Fast JOBD
&APFJBL	Fast JOBD library
&APSJBD	Slow JOBD
&APSJBL	Slow JOBD library
&APPATH	Path code

# Fields from Component database (objects)

&OBAPPL	Application code
&OBENVC	Environment code
&OBOBJC	Object code
&OBOBJL	Object library
&OBOBJT	Object type
&OBOBJA	Object attribute
&OBOBJD	Object description
&OBSRCF	Source file
&OBSRCL	Source library
&OBSRCM	Source member
&OBSRCS	Sources belong to object
&OBSRCX	Source Change date
&OBOBJX	Object Source change date
&OBOMOD	Object modified
&OBOCRT	User which created object
&OBFIXN	Fix number
&OBUSDF	User defined
&OBEXCI	May not exist indicator
&OBOCLS	Object class
&OBVRSN	Version number
&OBMODN	Modification number
&OBCHGX	Object Change date
&OBIOBC	IFS object code
&OBIDRC	IFS Directory code
&OBGLMC	4-GL Model code
&OBGLLC	4-GL Library code
&OBGLK2	4-GL Additional key 2
&OBGLK3	4-GL Additional key 3
&OBGLK4	4-GL Additional key 4
&OBGLK5	4-GL Additional key 5
&OBGL4N	4-GL Name
&OBGLMD	4-GL Model description
&OBROTC	Route Code
&OBPTHX	Path Extension code
&OBELBC	Extended Library Code
&OBIOBC	IFS Object Name
&OBIDRC	IFS Directory name ending with '/'

# Fields from Object Detail database (members & messages)

&DTMBRC	Member code
&DTMBRA	Member attribute (MBSEU)
&DTMBRD	Member text
&DTFIXN	Fix number
&DTOMOD	Object modified
&DTUSDF	User defined
&DTEXCI	May not exist indicator
&DTAPPL	Application code
&DTVRSN	Version number
&DTMODN	Modification number

Fields from Solution database

&SOAPPL	Application code
&SOFIXN	Fix number
&SOOBJC	Object code
&SOOBJT	Object type
&SOOBJA	Object attribute
&SOMBRC	Member code
&SOOBJL	Object library
&SOOCLS	Object class
&SOENVC	Environment code
&SOSRCP	Source Processing
&SOVRSB	Version number
&SOMODB	Modification number
&SOVRSN	Version number
&SOMODN	Modification number
&SOOVRC	Override code
&SOSOLT	Solution type
&SOSTAT	Status
&SOROTC	Route Code
&SOELBC	Extended Library Code
&SOPTHX	Path Extension

# Fields from Task database

&FIAPPL	Application code
&FIFIXN	Fix number
&FIFIXT	Fix type
&FIRLSN	Release
&FIDEXN	Development exit count
&FIREAC	Reason code
&FIFIXS	Fix status
&FIPRIN	Priority numeric
&FIPGMR	Programmer
&FIESDT	Expected start date
&FIRSDT	Realized start date
&FIECDT	Expected completion date
&FIRCDT	Realized completion date
&FIEDDT	Expected dev. end date
&FIRDDT	Realized dev. end date
&FIEPHN	Expected number of hours
&FIERHN	Realized number of hours
&FISHFD	Short fix description
&FINACN	Number of ratification grps
&FIACCN	Ratification count
&FIREJI	Rejected indicator
&FIFREE	Free user space
&FIPATH	Path code

# Fields from Request database

&REAPPL	Application code
&REREQN	Request number
&REERRT	Request type
&REENVC	Environment code
&REREAC	Reason code
&REPRIN	Priority numeric
&REUSID	User i.d., or user class
&READDR	User address, distribution
&REUSRI	Distributed user i.d.
&RETELN	Telephone number
&REWCDT	Requested completion date
&RERCDT	Realized completion date
&REINDT	Income date
&REINTM	Income time
&RESHED	Short request description
&RENACN	Number of ratification grps
&REACCN	Ratification count
&REREJI	Rejected indicator
&REFREE	Free user space

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# **Graphical Impact Analysis**

#### The benefits of impact analysis

The TD/OMS kernel software offers the functionality to move components through the software change management cycle.

The first question that pops up when looking at a (clearly defined) request for change is: What is the impact of the requested change on our application?

To answer this question you can start looking at the programs or you can use TD/OMS to define and execute the impact analysis rules. Your TD/OMS installation must have a valid TD/OMS Impact Analysis license key to enable definition and execution of the impact analysis rules.

The definition of the Impact analysis rules is not part of the GUI and (in most cases) the responsibility of the TD/OMS (application) manager.

The defined rules can be used to:

- 1. Obtain the correct components by selecting a specific definition in the Impact analysis view.
- 2. Select all components to attach to a task
- 3. Select the task the components must be connected to (if not done yet).
- 4. Connect the components to the task by selecting the appropriate connect action.

Or you can decide to save an image of the Impact analysis view after step 1. In general an image will make it easier to explain the complexity (and therefore the amount of expected development time) for a requested change.

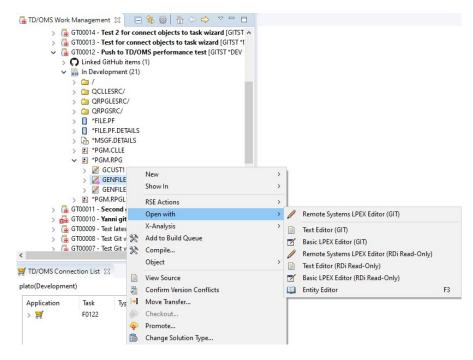
See for more information about using Impact Analysis function in  $\underline{Impact\ Analysis\ view}$ 

(https://remainsoftware.com/wiki/index.php/EWM:Graphical\_Work\_Management\_Guide)

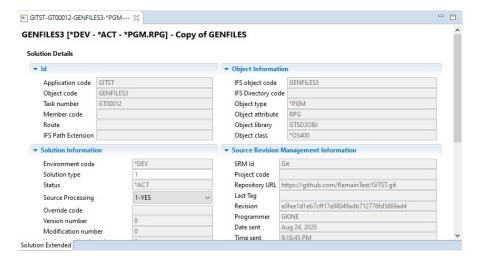
# **Context menu actions**

### Open with

A file can be opened in various ways. For this reason the 'Open with' menu has been created.

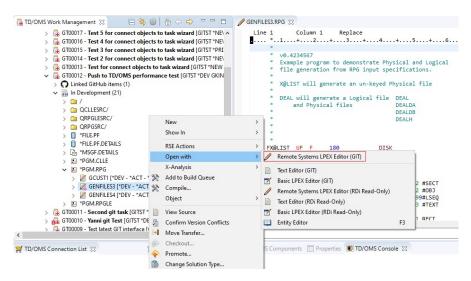


If you want to see information about the file and its attributes then the 'Entity Editor' option must be used.

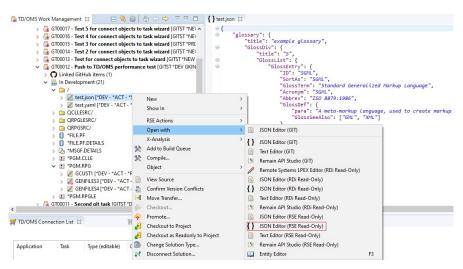


If you want to see the contents of the file then you have to choose from the which integration of TD/OMS you want the file to be opened with and with which editor. The first option will always be the default option which is the best for that file calculated by TD/OMS. Double clicking the file will always open it with the first option on this menu. Remember that you will be able to edit the contents only if the solution is on the development or emergency environments.

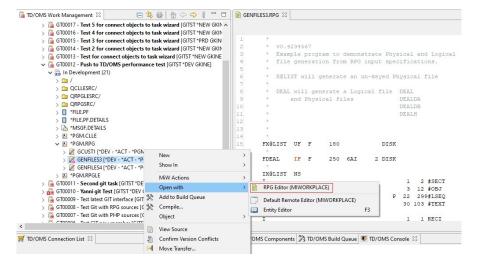
In this example we have a TD/OMS installation with three integrations installed Git, RDi and RSE. The RSE editors are not available in this case because they are only for json or yaml files. A text editor will always be present as well with each integration in case there are no alternative options. Notice that only the Git editors are editable because when Git is installed then all editors from other integrations will be read only because all changes must be managed through Git. Here we open the file with the LPEX editor through Git.



When we want to open a json or a yaml file then more editors are available through the RSE integration.



In this example we have a TD/OMS installation with only the MiWork place integration installed.



There are four available integrations in TD/OMS related to editors:

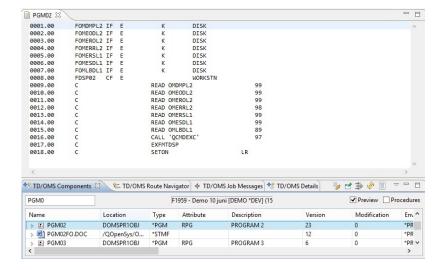
- · Git which is the Git Integration feature. It is available in both RCP and RDi.
- · RDi that offers the LPEX editor among others which is the IBM-RSE Integration feature. It is available only in RDi.
- RSE used for json and yaml files only. In RDi is the Rest Generator feature and in RCP is included when you have the Remain-API Studio feature installed. MiWorkplace that offers its specialized editors for native IBMi objects which is the MiWorkplace feature. It is available only in RCP.

#### View source

The action View Source displays the contents of the selected component in a separate view. This source can be:

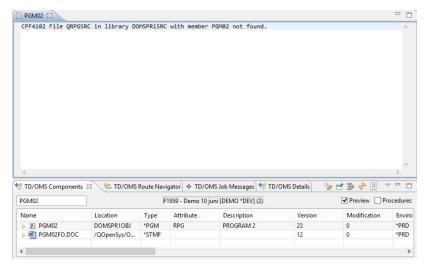
- The SEU-source of an IBM i-object
- The SEU-source-member for a detail-solution representing a source-member.
- The object itself for objects with type \*STMF

Every source is displayed in the editor that is configured in eclipse for the type of the selected component. If such an editor cannot be found, the default text editor is used. This default-editor is also used for SEU-Sources. The SEU-line-number is displayed on the left side. The editor is always opened in read-only mode.



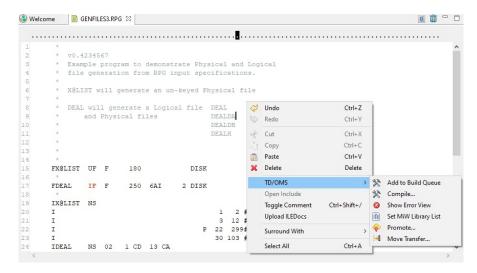
If the source cannot be located a message is shown.

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# **Editor Actions**

When a file is open on an editor TD/OMS related actions are available based on the editor. In this example the MiWorkplace editor actions are shown but similar actions exist in RSE LPEX as well.



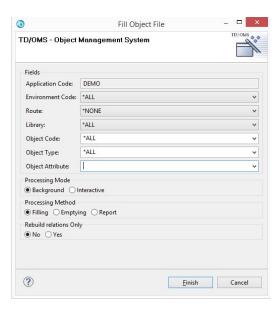
- Add to Build Queue: Add the solution to the build queue. This will also bring the build queue view to the foreground.
- Compile: Compile the solution by opening the compile wizard with all the compile options.
- Show Error View: Open the compile error view for the solution after a failed compile to see the errors. In MiWorkplace this is the compile result view which will also be brought to the foreground.
- Set MiW Library List: Set the MiWorkplace library list for the solution.
- Checkout: Checkout the solution to the development environment. This action is available only if the solution is not on the development or emergency environment.
- Promote: Promote the solution to the next environment.
- Move Transfer: Open the transfer wizard for the solution with all the options to decide where you want to transfer.

### **Declaring objects**

Objects must be registered within the TD/OMS repository to enable management of the objects within TD/OMS. One way of registering objects is by running the **Fill Object File** function. This function can be activated by right-clicking:

- an application in the Applications tab of the TD/OMS Work Management View
- a component in the TD/OMS component view
- a route in the TD/OMS route navigator view

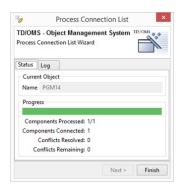
Select Fill Object File. The Fill Object File option will only be available when you have sufficient authorisation within TD/OMS.



This function works as the TD/OMS command STRFOF. For an application to be filled quickly, set all fields (except the Application Code) to \*ALL and press the Finish button.

# **Process Connection List**

A window will be displayed showing the progress of the connection list processing process. The progress bar will be filled during the process. The colour indicates the status of the entire process.



GREEN: No problems found (yet)

	S - Obje	rocess Co ct Manago on List Wiza	ement	011 2101	ID/OMS
Status	Log				
Currer	nt Object				
Name	PGM14				
Progre			1/4		
		rocessed:			
		onnected: ( Resolved: 1			
		emaining: (			
					Finish

YELLOW: (at least) one of the components had a problem but the problem could be resolved automatically. You can select the Log tab to see what the problem was and how it was resolved.



The settings used for resolving solution conflicts can be maintained within the Preferences (see 1.6.4).



RED: (at least) one of the components had a problem that requires manual intervention. You can select the Log tab to see what the problem is

Sometimes a component must be part of several tasks each requiring a modification of the object. This may cause 'solution conflicts'.

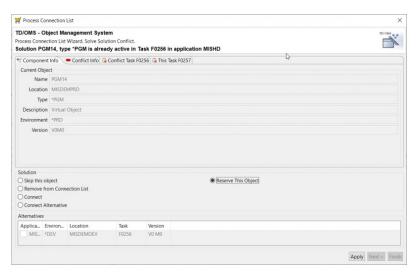
Within a TD/OMS application cycle, an object can have multiple occurrences (in every library and in every environment). A solution however, may occur 'active' only once. If an object is already connected to a task and you want to connect it again to another task, then you have to decide what to do. This process is called 'solve solution conflicts'.

If this occurs you have several choices:

- Skip this object
- Remove from connection list
- Connect
- Connect alternative
- Reserve this object

Solution conflicts are automatically detected by TD/OMS when components are linked to a task, i.e. when solutions are being created. When a conflict occurs that can (or should) not be resolved automatically, a panel is displayed for solving the Solution Conflict.

The screen shows information with respect to the Component, Conflict and the conflicting tasks/requests. The Solution options that are displayed on this screen depend on the situation at hand.



## **Explanation of the solution conflict options**

Connec

You did not select the latest version of the object. A list was presented to you with an object that has more recent versions than the object you have selected. This can occur if you select an object from the

production environment where another occurrence of the object is already in the cycle. Use this option to force the connection of the object you have initially selected.

#### Connect alternative

The object you have selected was already connected to a task. It was not the exact same object that is already active, but another occurrence of it. Use this choice in combination with one of the objects in the alternatives list to connect the alternative object to the task.

#### Reservation

Reserving a component means that the component will become available for maintenance as soon as the solution that is currently active is moved to the production environment. At that moment a message will be sent to the user who has made the first reservation. Reserved solutions can be viewed with the TD/OMS Reserved Solutions view (see 2.18).

#### Skir

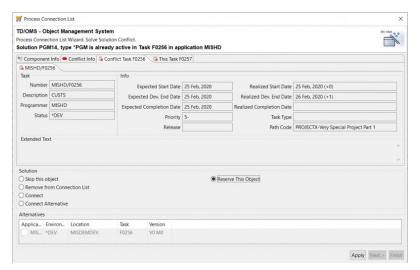
The component is skipped. The component will stay in the connection list. When the same connection list is processed again at a later time, TD/OMS will again try to connect the component.

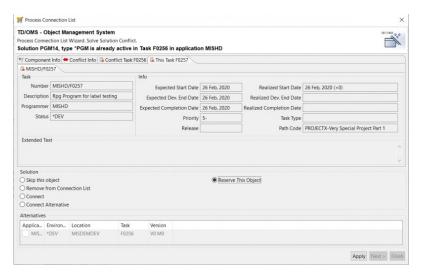
#### ■ Remove from Connection List

The component will be permanently removed from the connection list.

You can select the various tabs to display the conflict info, information regarding the conflicting task(s) and information regarding the current task.

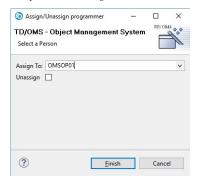






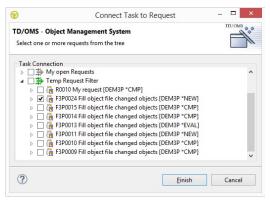
## Assign/unassign programmer

This action is used to change the employee assigned to the selected task(s). The person currently assigned to the first selected task in the list is the programmer, shown as the default for the assignment. The special value <unassigned > is available to remove a previous assignment. This action can be easily done by clicking the "Unassign" checkbox, that is shown in TD/OMS V9 Milestone 3 and later.



## **Connect Task to Request**

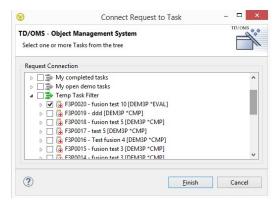
This action is used to connect a task to 1 or more requests.



It is possible to create a new (temporary) Request filter to enable selection of requests from applications not available within the existing filters. Requests can be selected by clicking the checkbox.

# **Connect Request to Task**

This action is used to connect a request to 1 or more tasks.



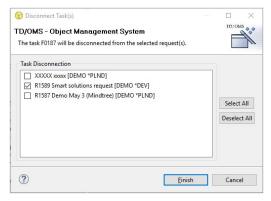
It is possible to create a new (temporary) Task filter to enable selection of tasks that are not available within the existing filters.

#### **Disconnect Task**

The Disconnect Task action is used to disconnect tasks from requests and can operate in two modes:

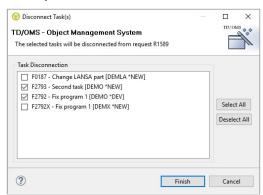
#### When a Task is Selected

When a task is selected then this action shows all connected requests. You are able to select one ore more requests to disconnect.



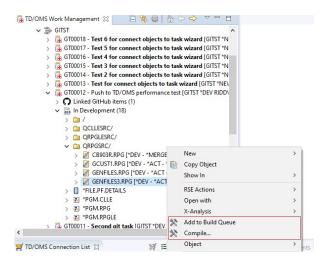
# When a Request is Selected

When a request is selected then this action shows all connected tasks. You are able to select one ore more tasks to disconnect.



# **Compile Actions**

There are two compile options available: Add to Build Queue and Compile.



#### Add to Build Queue

This will add the solution the build queue and based on the preferences for this view it will compile directly or just add it to queue. This action is available when:

- One or many solutions are selected that belong to the same task and all of them are in the development or emeergency environments.
- Environment folders that contain solutions (only the ones in the valid environments will be added).
- Folders that contain solutions (only the ones in the valid environments will be added).
- A single task that contains solutions (only the ones in the valid environments will be added).

More information about this view can be found here.

#### Compile

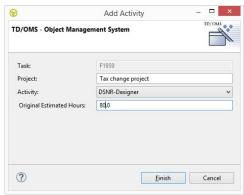
This action enables you to directly compile a single solution opening the compile wizard for more options.

More information about compile options can be found here.

### **Add Activity**

This action is only available when the (optional) hour registration module has been activated and is part of the task context menu.

The screen enables you to register the estimated hours for each activity available in the activity table with respect to the selected task.

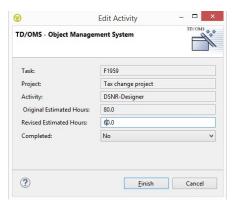


Registration of the estimated hours is only possible once. The Activity view offers you the opportunity to enter a revised number of hours or to remove the activity. After removing you will be able to add the same activity for the task again.

# **Edit Activity**

This action is only available when the (optional) hour registration module has been activated. Open the TD/OMS Activity view and select Edit from the context menu of a selected activity.

The screen enables you to register the Revised estimated hours for each activity available in the activity table with respect to the selected task.

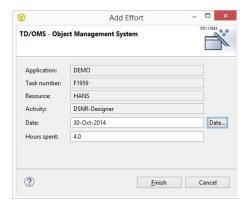


It is also possible to indicate that that activity being edited has been completed. Changing completed to Yes will disable the Add/Edit Effort actions. You can change this value back to No again at a later moment in time.

### **Add Effort**

This action is only available when the (optional) hour registration module has been activated. It is available in the TD/OMS activity view on the context menu of your name.

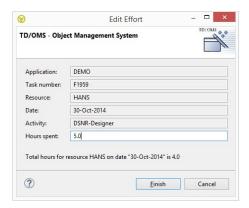
The screen enables entry of the total amount of time spend by you on a specific activity during a specific day.



# **Edit Effort**

This action is only available when the (optional) hour registration module has been activated.

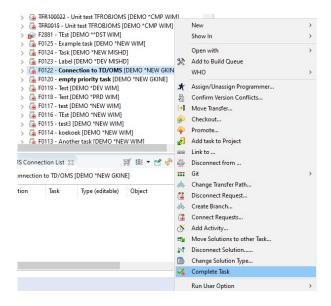
The screen enables you to change the total amount of time spend by you on a specific activity during a specific day.



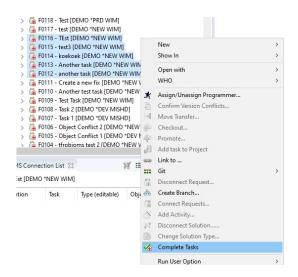
The total hours you have already reported (including the amount of time you originally reported on the activity being edited) is displayed as a reminded.

# **Complete Task**

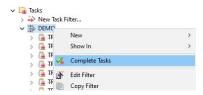
When work on a task has finished it can be completed. To do that, right click on a task and select the Complete Task option. The option will only be available if the task has the \*NEW status. Note that a task can't be physically deleted only marked as completed.



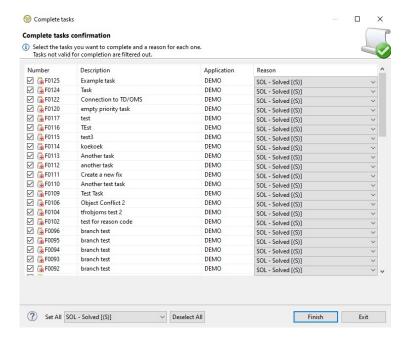
If many tasks need to be completed then they all need to have the \*NEW status or the option won't be available. They can also be from different applications but not from a different host.



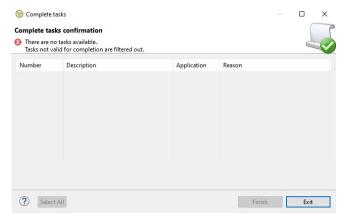
Another option is to right click a single task filter.



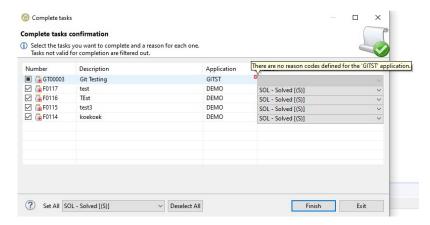
The complete task wizard has a table with the tasks and a drop down menu for each one stating the reason as to why its completed. In case a task filter was selected, any tasks that don't have the \*NEW status will be automatically filtered out and won't show in the table. When the wizard opens all valid tasks will be preselected for completion.



If a task filter doesn't have a single task with the \*NEW status then no tasks are valid for completion and the wizard will show the error with the table will being empty without any possible actions. The same behavior will happen (with a different error message) if all tasks have no reason codes set for their applications.

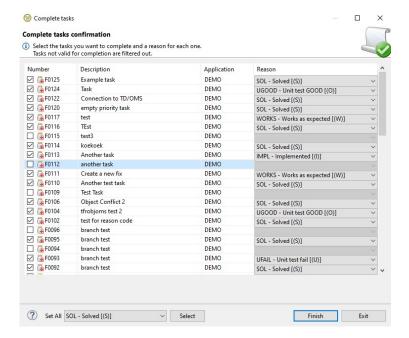


If a task has no reason codes set for its application (but the rest have) then it will be *gray checked* meaning its not possible to select it and it will be excluded from any actions in the wizard. Its possible to see the error by mouse-hovering over the error icon on the top left of the drop down menu.

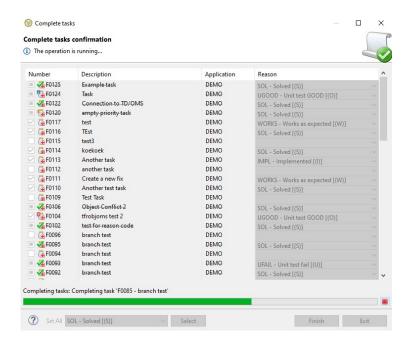


### Wizard Content and Actions

The table itself has four resizable columns with the task number, description, application and a drop down menu to select the reason why a task is completed with a default reason already preselected (configurable in the green screen). The table can be ordered by clicking on the columns to sort the tasks based on their number, description or application. On the bottom left there are shortcut buttons that allow you to set the same reason for all selected tasks (available only when all tasks belong to same application) and a button to select/deselect all available tasks or select only the ones that are selected on the table (grayed tasks will be excluded).

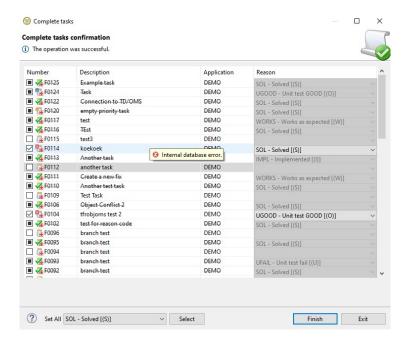


When you have made your choices press finish to start the process.



A progress bar will appear showing which task is processed at the moment. As the progress continues the table will update the tasks based on the returned status of each one: Completed, Completed with an informational or warning message, or Not Completed with an error. If the task is completed it will have a strike-through line in the middle of its text and if there is no extra information to display then it will have a green check on its icon. If there is extra information to display it can be viewed when hovering over a task row with an extra icon.

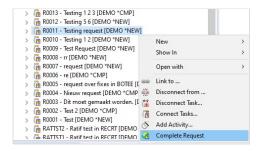
The operation can be cancelled by pressing the red box at the right of the progress bar and the table will show the status of the tasks that have been processed already. Any completed tasks will be gray-checked and won't be available for selection anymore.



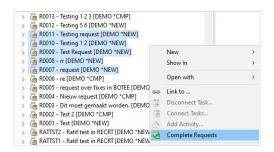
If all available tasks on the table are completed without any extra messages to show then the wizard will close automatically when the process is finished. Any affected objects that are visible in a tree in all open views will be refreshed and all affected open editors will be refreshed or closed accordingly.

# **Complete Request**

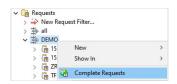
When work on a request has finished it can be completed. To do that, right click on a request and select the Complete Request option. The option will only be available if the request has the \*NEW status. Note that a request can't be physically deleted only marked as completed.



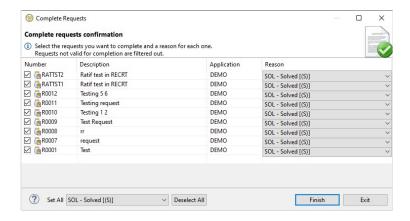
If many requests need to be completed then they all need to have the \*NEW status or the option won't be available. They can also be from different applications but not from a different host.



Another option is to right-click a single request filter.



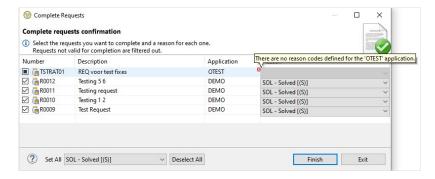
The complete request wizard has a table with the request and a drop-down menu for each one stating the reason as to why its completed. In case a request filter was selected, any requests that don't have the \*NEW status will be automatically filtered out and won't show in the table. When the wizard opens all valid requests will be preselected for completion.



If a request filter doesn't have a single request with the \*NEW status then no requests are valid for completion and the wizard will show the error with the table will being empty without any possible actions. The same behavior will happen (with a different error message) if all requests have no reason codes set for their applications.

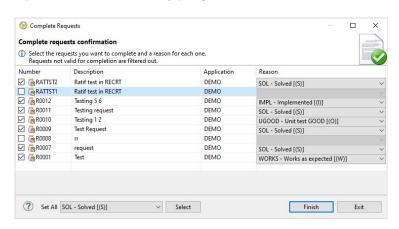


If a request has no reason codes set for its application (but the rest have) then it will be *gray checked* meaning its not possible to select it and it will be excluded from any actions in the wizard. Its possible to see the error by mouse-hovering over the error icon on the top left of the drop-down menu.

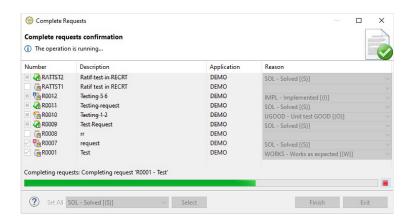


#### **Wizard Content and Actions**

The table itself has four resizable columns with the request number, description, application and a drop-down menu to select the reason why a request is completed with a default reason already preselected (configurable in the green screen). The table can be ordered by clicking on the columns to sort the requests based on their number, description or application. On the bottom left there are shortcut buttons that allow you to set the same reason for all selected requests (available only when all requests belong to same application) and a button to select/deselect all available requests or select only the ones that are selected on the table (grayed requests will be excluded).

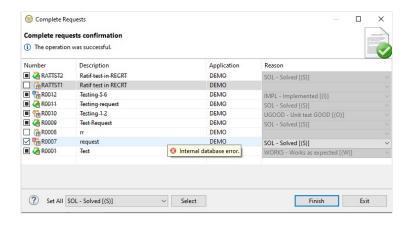


When you have made your choices press finish to start the process.



A progress bar will appear showing which request is processed at the moment. As the progress continues the table will update the requests based on the returned status of each one: Completed with an informational or warning message, or Not Completed with an error. If the request is completed it will have a strike-through line in the middle of its text and if there is no extra information to display then it will have a green check on its icon. If there is extra information to display it can be viewed when hovering over a request row with an extra icon.

The operation can be cancelled by pressing the red box at the right of the progress bar and the table will show the status of the requests that have been processed already. Any completed requests will be gray-checked and won't be available for selection anymore.

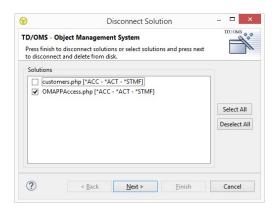


If all available requests on the table are completed without any extra messages to show then the wizard will close automatically when the process is finished. Any affected objects that are visible in a tree in all open views will be refreshed and all affected open editors will be refreshed or closed accordingly.

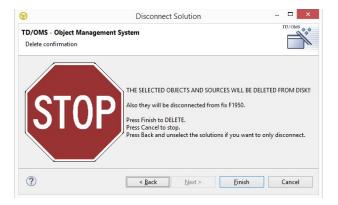
#### **Disconnect solution**

A solution is generated by connecting a component to a task. There may come a moment when you want to disconnect the solution. This can be because you have selected the incorrect component, because you want to connect the solution to another task or because you no longer require the solution and you want to complete the task.

The Disconnect solution action will process the selected solutions and enables you to indicate that (a subset of) the selected solutions should also be removed from disk.



Selecting solutions in the Disconnect Solution action should only be done when you are absolutely certain that this will not lead to loss of information. The finish button will be disabled when you select a solution. Press the Next button to display the confirmation screen.



This action will remove the objects and should not be applied when objects are required in a sub environment. It will be required to perform additional activities (eg manually restore objects, perform a manual fall-back or undo a database conversion) to restore these required objects to their previous state.

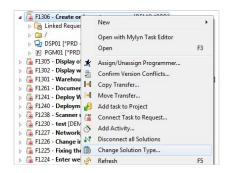
# **Change Solution Type**

Solutions can be of three types:

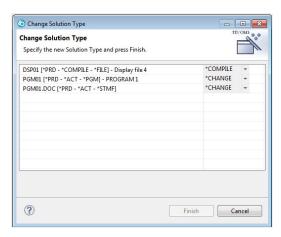
- 1 or \*CHANGE
- The object will be changed as part of a normal maintenance cycle.
- 3 or \*COMPILE
  - The object will be recompiled but it will not be changed
- 9 or \*TERMINATE
  - The object will be removed from the application.

A solution is generated by connecting a component to a task. Normally, the solution will be a \*CHANGE solution. The "Change Solution Type" wizard enables you to change the type.

To start this action, select one or more Solutions or one Task from the Work Management view and open the context menu.



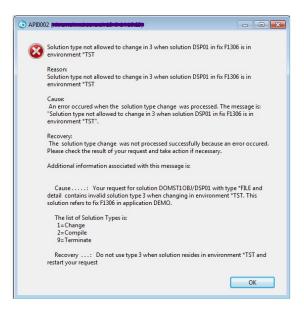
From the menu select the option  ${f Change\ Solution\ Type\ ...}$ . This will start the following wizard.



Use the combo box to change one or more Solutions to a different type and press "Finish".

#### **Possible Conflicts**

You can only change a Solution to \*COMPILE in the development or the production environment. You may change a Solution to \*TERMINATE everywhere but please keep in mind that the Solution will not be removed from lower environments and/or remote systems that are below the environment that the Solution is in when you select this action.

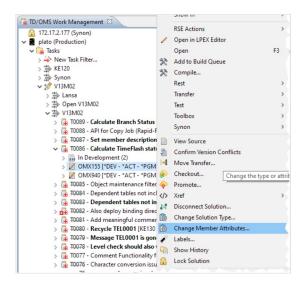


# **Change Member Attributes**

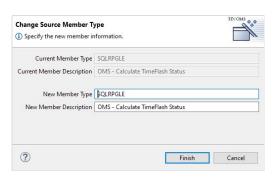
To change the description of an object, or to trigger a different compile, sometimes it is needed to change the attributes of a source member.

To start this action, select one Solution from the Work Management view and open the context menu.

The object must be in development, it must be a copy member or an object with a source and it must be a "CHANGE" solution.



From the menu select the option  ${\bf Change\ Member\ Attributes...}.$  This will start the following wizard.

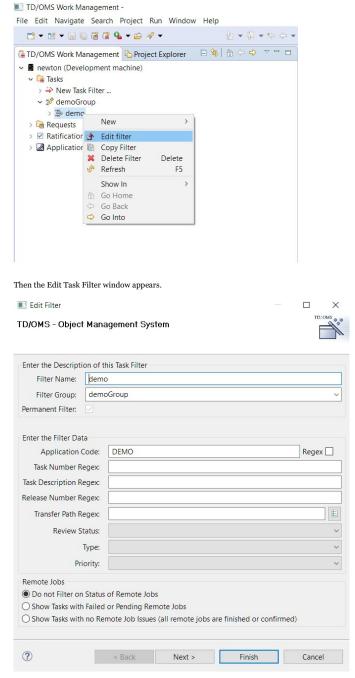


Use the text fields to change the member attribute, the member description or both. Then press "Finish".

(https://remainsoftware.com/wiki/index.php/Documentation)

# Edit a Task Filter

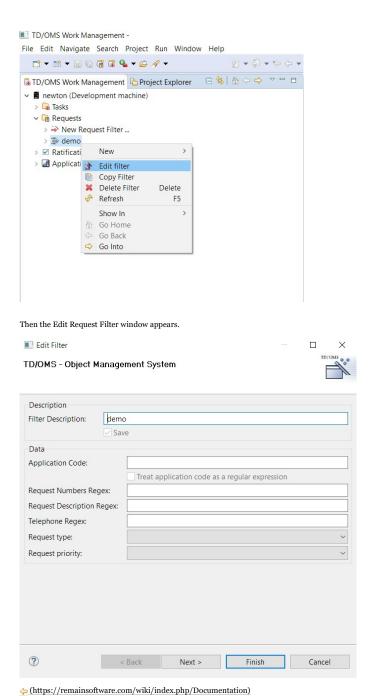
Right click the task filter you want to edit and click Edit Filter.



(https://remainsoftware.com/wiki/index.php/Documentation)

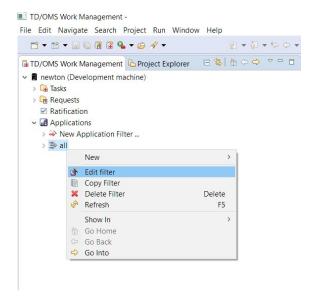
# **Edit a Request Filter**

Right click the request filter you want to edit and click Edit Filter.

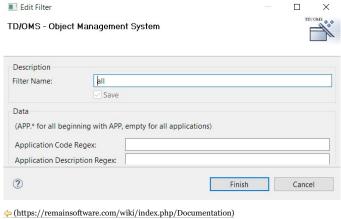


### **Edit an Application Filter**

Right click the application filter you want to edit and click Edit Filter.

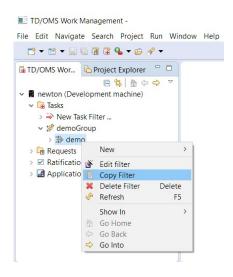


Then the Edit Application Filter window appears.



## Copy a Filter

Right click the filter you want to copy and click Copy Filter.



Then the copy filter dialog appears where you have only to enter a unique name for the new copied filter.

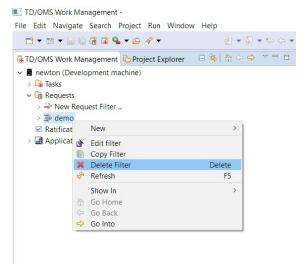
26/08/2024, 13:57 94 van 97



(https://remainsoftware.com/wiki/index.php/Documentation)

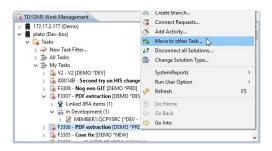
#### Delete a Filter

Right click the filter you want to delete and click Delete Filter.

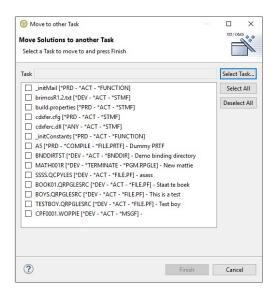


#### **Move Solutions**

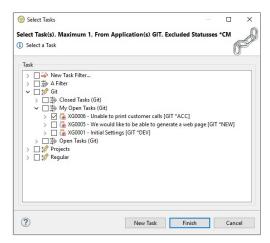
With this option you can move Solutions to another Task. You want to do this e.g. if you want to promote only parts of the Task and move the unfinished components to another Task.



The Move Solutions action enables you to select the Solutions that should be moved to the target Task.



Before you may finish the wizard you have to select a target Task from the top of the screen. This will present the Task Selection Dialog. Choose the Task that is the target of the move or create a new Task on the fly.



After you press Finish, the solutions will be moved to the target Task. The move will fail if the target Task already contains this Solution.

 $\begin{tabular}{ll} $$ $$ $$ \end{tabular} $$ $$ $$ $$ $$ $$ (https://remainsoftware.com/wiki/index.php/EWM:Graphical_Work_Management_Guide) $$$ 

### Remain Helpdesk

We have a site where you can file and track your issues. You can sign-up for an account at https://helpdesk.remainsoftware.com (https://helpdesk.remainsoftware.com).

After you have signed up you are able to report issues on the web or directly from within Eclipse.

See <u>Reporting an Issue</u> on how to report an issue from the RDi or RCP clients.

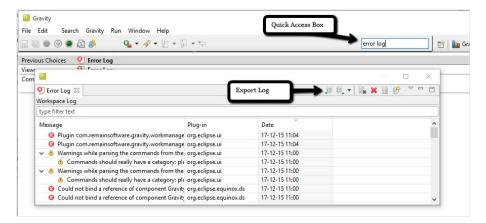
This is a community site for all Remain customers. This means that other people can also see your issues. Please be considerate when you file your issues and also take care of any privacy sensitive information. When we find privacy sensitive information we will remove that information from the site.

If your issue is private or you don't want to share it with other Remain customers, then you can mail your issue to your representative. You can find our partner addresses on the partners page. (https://remainsoftware.com/partners)

One of the next releases of the software will contain an embedded issue reporting mechanism. Until that time please follow the procedure below the procedure below the procedure below the procedure below.

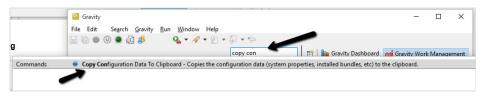
#### Get the Eclipse Error log

The Eclipse Error log can be found in the following way. Find the quick access box in the top right of your window and type "error log". Then select "Views Error Log". Once the error log is shown, you can export the log into a .log file. Please do so and also attach this log to the issue.



# Get the Eclipse Configuration Log

The last information we need is the configuration log. Copy the configuration log into the clipboard by typing "copy conf" into the quick access box as shown in the screenshot. Then select the resulting entry "Commands Copy Configuration Data To Clipboard". Paste this information into a new text file and also attach this to the issue.



# **Screenshots**

In addition to the information above, please also take screenshots if this is applicable and attach these to the issues as well.

This page was last edited on 16 October 2017, at 23:41.