



AVEVA

MARINE

AVEVA Marine Migration User Guide

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AVEVA Marine DocumentTitle

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1 Migration Overview

This document describes how to migrate model data from Tribon M3 to AVEVA Marine.

2 Hull Migration

A hull model can be migrated from Tribon M3 to AVEVA Marine using the Hull Migration tool, `Marhullmigrate.exe`.

This tool is a command line utility that can read the Hull data from Tribon databank files and then write it into the current Dabacon project.

2.1 Prerequisites

To be able to read the Tribon model, **Marhullmigrate** requires physical access to the databank files. Using a project server is currently not supported.

2.1.1 Making Initial Design Surfaces Available

To be able to migrate Hull data from Tribon M3 or VM11.6 to AVEVA Marine , the Initial Design Surfaces must be available in the destination project. Depending on the surface system used in Tribon or VM11.6, different methods are used:

- **Tribon Surface Server**

If Tribon Surface Server is used in the source project, the surfaces must first be released to the destination project to be able to use them in AVEVA Marine . Please refer to *Managing Initial Design Data User Guide* on how to do this.

- **Napa Surfaces**

If the source project uses NAPA, the surface objects are stored in the SB_CGDB databank. In this case, one line in the file `marhullmigrate.man` should be edited:

```
<!-- INCLUDE ONLY IF USING NAPA, OTHERWISE FIRST RELEASE SURFACES! -->
<!--<Object type="Surface" NamePattern="" Databank="SB_CGDB" OC1From="1" OC1To=""
OC2From="" OC2To="" PhysicalDBName="cgdb"/>-->
```

Please remove the XML comment markings "<!--" and "-->" from the line starting with :

```
<!--<Object type="Surface"...
```

so it looks as follows:

```
<!-- INCLUDE ONLY IF USING NAPA, OTHERWISE FIRST RELEASE SURFACES! -->
<Object type="Surface" NamePattern="" Databank="SB_CGDB" OC1From="1" OC1To=""
OC2From="" OC2To="" PhysicalDBName="cgdb"/>
```

2.2 Migration Setup

Marhullmigrate consists of 4 files, which are located in system executables directory, for example `C:\Aveva\Marine\OH12.0.3`

- marhullmigrate.exe
- marhullmigrate.dll
- marhullmigrate.exe.config
- marhullmigrate.man

In addition to these, the program uses 4 other files for setup and logging. The location of these files is controlled by environment variables in the d065-file in the destination Aveva Marine project.

File	Environment variable	Example
marhullmigrate_settings.xml	SB_SHIPDATA	C:\Aveva\marine\OH12.0.2\project\1810\mscmar\dat
marhullmigrate.resume	SB_SHIPDATA	C:\Aveva\marine\OH12.0.2\project\1810\mscmar\dat
marhullmigrate.log	SB_SHIPPRINT	C:\Aveva\marine\OH12.0.2\project\1810\mscmar\lst
marhullmigrate_errors.log	SB_SHIPPRINT	C:\Aveva\marine\OH12.0.2\project\1810\mscmar\lst

If the variables above are not set, or the location is incorrect, the migration program will look for the files in the folder C:\Temp.

Note: An example of the file marhullmigrate_settings.xml is by default located in the executables directory. This file will not be used unless it is moved to the SB_SHIPDATA location.

Example 1 - SB_SHIPDATA not set in d065 file:

Printout from the program:

```
Error opening location SB_SHIPDATA
The system cannot find the file specified.
Please check value of SB_SHIPDATA
```

Using file location C:\TEMP\marhullmigrate_settings.xml instead.

Example 2 - Wrong value in SB_SHIPDATA:

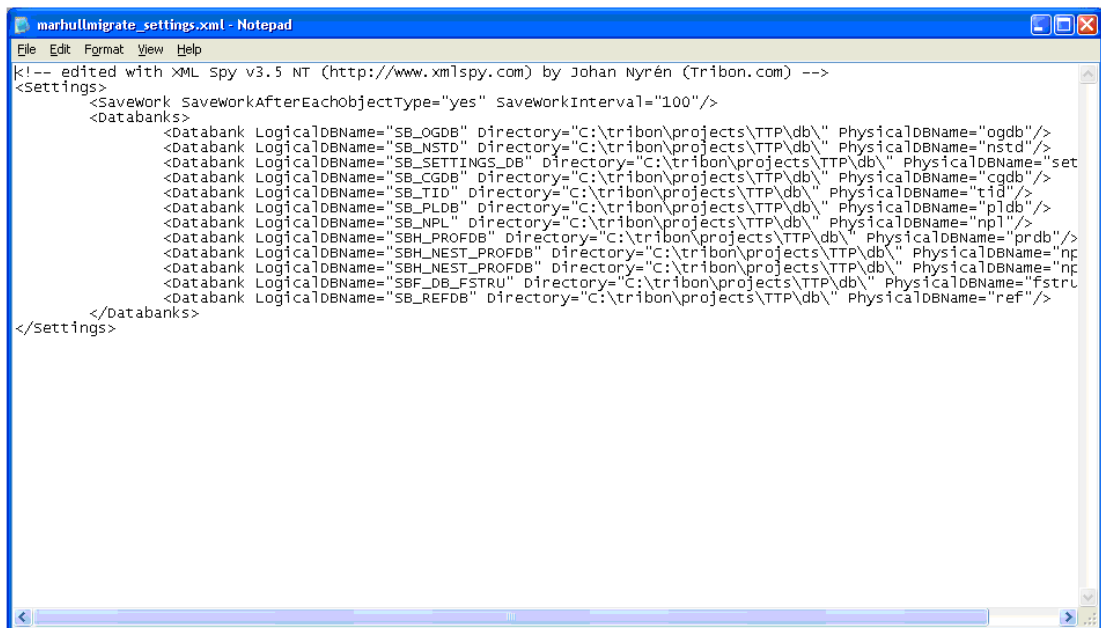
Printout from the program:

```
Error opening location D:\AM12Projects_Local\1840MIG\migmar\DAT\
The system cannot find the file specified.
Please check value of SB_SHIPDATA
```

Using file location C:\TEMP\marhullmigrate_settings.xml instead.

2.3 Setting Up SaveWork Settings and Databank Locations

Edit the file marhullmigrate_settings.xml:



2.3.1 SaveWork Settings

There are two SaveWork settings that can control when the migrated hull objects should be saved to the Dabacon database. Migrated objects are only temporary until SaveWork is performed.

The XML attribute **SaveWorkAfterEachObjectType** defines whether SaveWork should be performed after all objects of a certain type for example plane panels, have been migrated. This will be done if the value is set to **Yes**.

The XML attribute **SaveWorkInterval** defines the number of objects that should be migrated before a SaveWork is performed. The object counter is reset every time a SaveWork is performed, so if **SaveWorkAfterEachObjectType** is set to **YES**, then SaveWork may be performed more often than what is defined.

Note: SaveWork is always performed after the migration process is completed

2.3.2 Databank Locations

Databank locations are set up to point to a physical location on the project server. This means that the project selected using the Project Selection utility will not be used.

Instead, the following XML file <Databanks> attributes are used:

LogicalDBName This is the logical databank environment variable as in a d065-file.

For example, "SB_OGDB".

Directory The directory where the physical databanks are located.

PhysicalDBName	<p>This is the prefix name of the actual databank files.</p> <p>For example, the files <code>ogdb.dat</code>, <code>ogdb.eob</code>, <code>ogdb.idx</code> and <code>ogdb.lck</code> are all prefixed with '<code>ogdb</code>', which means that this value should be just '<code>ogdb</code>'.</p>
RunOnlyRunWithSync	<p>For certain objects, it is not required to copy in two passes. If this attribute is set to YES, these objects will only be copied in the second pass, with synchronisation on.</p>

2.4 The Databank Object Manuscript File - `Marhullmigrate.Man`

The file `marhullmigrate.man` is a manuscript file that decides in which order the hull objects should be migrated. This is because objects depend on each other, and therefore some objects must be migrated before others. This file is an XML file and contains the following:

- Description of each hull object type
- In which databank it is stored
- A name pattern, if a certain object type always has a certain name
- Object code 1 and 2 for the object type
- Objects can be within a range of object codes 1 and 2, so the range is specified in `OC1From`, `OC1To`, `OC2From` and `OC2To`.

Note: Under normal circumstances, there is no need to change this file in any way. However, it can sometimes be practical to exclude object types that you are aware that has already been taken over, for example if resuming a failed transfer.

Important: Changing the manuscript file can make the migration program fail. If the migration order is changed, or some object types have been excluded, other objects may also get transfer errors.

2.5 Transferring Parts of a Hull Project

The hull migration program is designed to take over an entire project rather than parts of it. There is no intelligence in the program that will resolve broken references. For this reason, if you want to migrate just parts of a project, please use the following procedure:

1. Create a new project and use **Tribon M3 Project Copy** to copy the parts of the hull project that you want to migrate to AVEVA Marine
2. Make sure that all references are taken over in Project Copy
3. Validate the Hull model in Tribon Hull
4. Migrate the new project to AVEVA Marine

2.6 Migration Steps in the Migration Program

To update all hull objects with their references, the Hull migration program runs in three steps:

- Copy objects without synchronisation
- Copy objects with synchronisation
- Topology update

In the first step, most objects are copied without trying to synchronise anything. This step is required to sort out dependencies, since hull objects are copied ordered by object type rather than trying to follow a dependency chain.

The second step assumes that all objects in the project are now copied. It now copies the objects again, with synchronisation turned on. At this point other objects in the database are sometimes referenced.

In the third step, topology update is performed on the Hull model.

2.7 Running the Hull Migration Program

After setting up the `marhullmigrate_settings.xml` file, execute the migration program with the following command:

```
Marhullmigrate -project=<project> -USER=<user name> -  
PASS=<your password> MDB=/<chosen mdb>
```

For example:

```
marhullmigrate.exe -USER=SYSTEM -PASS=XXXXXX -PROJ=TTP -MDB=/  
TTP
```

The program will start running:

```

C:\WINDOWS\system32\cmd.exe
2007-07-06 14:52:38
Migrating from databank : C:\Tribon\M3\Projects\M3sp\db\nprdb on localhost
Migrating to databank : SBH_NEST_PROFDDB
Copying objects of type : Nested profile
Name filter : *
Object code 1 :      89
      0 objects copied.

===== Migrating Databank =====
2007-07-06 14:52:38
Migrating from databank : C:\Tribon\M3\Projects\M3sp\db\fstu on localhost
Migrating to databank : SBF_DB_FSTRU
*** ERROR *** Destination database SBF_DB_FSTRU unavailable : Open failure of directory file
===== Migrating Databank =====
2007-07-06 14:52:38
Migrating from databank : on localhost
Migrating to databank : SBH_BACKUP
Copying objects of type : backup of nested plate
Name filter : *
Object code 1 :      12
      0 objects copied.

===== Migrating Databank =====
2007-07-06 14:52:38
Migrating from databank : on localhost
Migrating to databank : SB_TMDB
*** ERROR *** Destination database SB_TMDB unavailable : Open failure of directory file
===== Migrating Databank =====
2007-07-06 14:52:38
Migrating from databank : C:\Tribon\M3\Projects\M3sp\db\fstu on localhost
Migrating to databank : SBF_DB_FSTRU
*** ERROR *** Destination database SBF_DB_FSTRU unavailable : Open failure of directory file
===== Migrating Databank =====
2007-07-06 14:52:38
Migrating from databank : on localhost
Migrating to databank : SBH_PAINT_AREA_DB
Copying objects of type : Painting Area result
Name filter : *
Object code 1 :      75
Object code 2 between      1 and      4
      0 objects copied.

===== Migrating Databank =====

```

2.7.1 Viewing the Log File

To view the Log file, open the marhullmigrate.log file:

```

marhullmigrate.log - Notepad
File Edit Format View Help

===== Migrating Databank =====
2007-07-06 14:51:05
Migrating from databank : C:\Tribon\M3\Projects\M3sp\db\cgdb on localhost
Migrating to databank : SB_CGDB

Copying objects of type : Hull references
Name filter : *
Object code 1 :      2
Object code 2 between      0 and      1
0 objects copied.

===== Migrating Databank =====
2007-07-06 14:51:05
Migrating from databank : C:\Tribon\M3\Projects\M3sp\db\ogdb on localhost
Migrating to databank : SB_OGDB

Copying objects of type : Structure reference object
Name filter : *
Object code 1 :      50
SPSTRUCTREF      2002-02-14 15:17:48.60      50      0
1 object copied.

Copying objects of type : Structure reference object
Name filter : *
Object code 1 :      51
SPHULLSTRUCT      2002-02-14 15:17:48.39      51      0
1 object copied.

Copying objects of type : Bracket
Name filter : *
Object code 1 :      57
0 objects copied.

Copying objects of type : Standard: Cutouts
Name filter : __CUTSTDOBJ__
Object code 1 :      61
0 objects copied.

Copying objects of type : Standard: Endcut table object
Name filter : *
Object code 1 :      58
SPENDCUTTAB      2002-02-14 15:17:48.33      58      0
1 object copied.

Copying objects of type : Standard: Object for shrinkage compensation

```

Please review the log file for errors before continuing.

2.7.2 More Detailed Logging

The screen output from the migration program gives more detailed information than what is shown in the log file. To get a more detailed log file, direct the output from marhullmigrate.exe to a text file when starting the program:

For example:

```
marhullmigrate.exe -USER=SYSTEM -PASS=XXXXXX -PROJ=TTP -MDB=/
TTP > TTP_mig.log
```

2.7.3 Resuming an Interrupted Migration Session

When starting a hull migration, a text file will be created, which contains the names of all objects that have been migrated to the destination project. The file is called marhullmigrate.resume, and exists in the same directory as marhullmigrate.exe.

If a migration is interrupted for any reason, the resume file can be used to continue the migration from where it stopped. If this is the case, then the following question will be shown when you restart the migration program:

A resume file is found from a previous session. Would you like to use this file to resume the previous session? Y/N:

If you answer **Y**, then the migration will resume from where it stopped. All objects that have already been migrated are skipped. The answer is not case-sensitive, so both **Y** and **y** means yes.

Note: If you answer **N**, then the resume file will be overwritten and it will no longer be possible to resume from the previous point. The migration will start from the beginning. For this reason, it may be a good idea to make a backup of the resume file before restarting the migration.

- **Resume File and SaveWork Settings**

The object names will only be written to the resume file after a SaveWork is performed. This is to make sure that no objects are skipped by mistake in the migration.

This means that if the SaveWorkInterval in the settings file is set to for example 1000, the migration will resume migrating up to 1000 objects that were already handled but not saved.

To make sure that all objects are written to the resume file instantly, set the SaveWorkInterval to **1** in `marhullmigrate_settings.xml`.

- **Locked Objects if a Migration is Interrupted**

If `marhullmigrate` is interrupted with **CTRL-C**, or by a software crash, it may be necessary to expunge the user from the previous session in order to unlock the objects that were handled by the migration program.

Note: That if objects are skipped in the migration because they were locked, they will still be written to the resume file.

- **Resume File after a Completed Migration.**

When a migration is completed, a final message is written to the resume file that indicates the end of the migration session. If this string exists in the resume file when the `marhullmigrate` is started, it will not ask if you want to resume, but just overwrite the resume file with a new one.

- **Resume File when Redirecting Screen Output to a Text File**

Please note that if the output of `marhullmigrate` is redirected to a text file for more detailed logging, you will not see the question about the resume file. If a resume file is present, the command window will just wait for a key input and nothing will happen. In this case, just type **Y** or **N** and press **Enter** in the window where `marhullmigrate.exe` is executed. This will make the migration continue.

3 Assembly Migration

An assembly structure can be migrated from Tribon M3 to AVEVA Marine using the **Assembly Migration** tool, called `Marassmigrate.exe`. This tool is a command line utility that reads the assembly data from Tribon databank files and writes it into the current Dabacon project. The assembly migration utility migrate the assembly structure with belonging assembly attributes and references to hull parts.

3.1 Prerequisites

To be able to read the Tribon model, Marassmigrate requires physical access to the assembly databank files. Using a project server is currently not supported. Tribon M3 Hull must have been migrated before migrating assemblies. User defined assembly types defined in Tribon M3 must exists as UDET's in target project.

3.2 Limitations

References to outfitting parts are not migrated nor references to 'keyed in parts' or 'keyed in components'.

3.3 Migration Setup

Marassmigrate consists of 3 files:

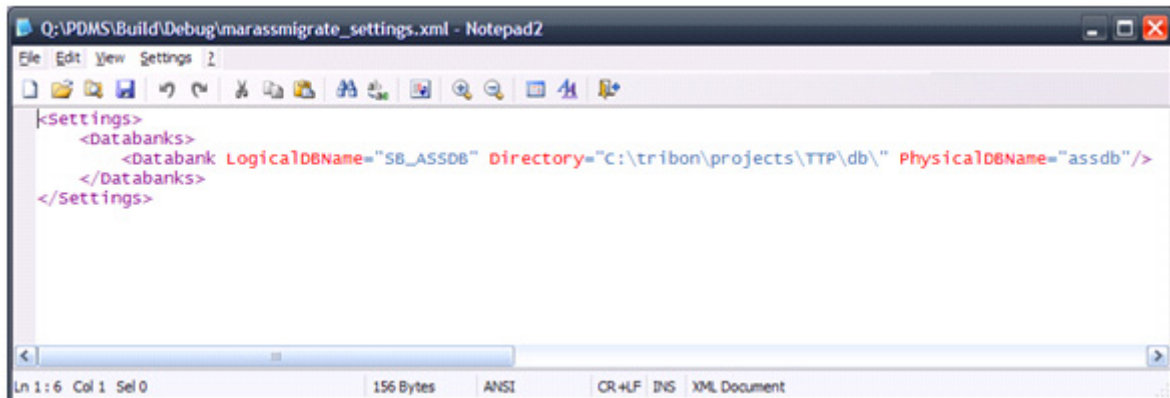
- `marassmigrate.exe`
- `marassmigrate.dll`
- `marassmigrate_settings.xml`

These files should be located in the same directory. The migration program will also produce a log file in the same directory:

- `marassmigrate.log`

3.3.1 Setting up Databank Locations

Edit the file `marassmigrate_settings.xml`:



Databank locations are set up to point to a physical location on the project server. This means that the project selected using the project selection utility will not be used. Instead, the following xml attributes under <Databanks> in the xml file are used:

LogicalDBName	This is the logical databank environment variable as in a d065-file, for example "SB_OGDB"
Directory	The directory where the physical databanks are located
PhysicalDBName	This is the prefix name of the actual databank files. For example, the files assdb.dat, assdb.eob, assdb.idx and assdb.lock are all prefixed with "assdb", which means that this value should be just "assdb".

3.4 Running the Assembly Migration Program

After setting up the marassmigrate_settings.xml file, execute the migration program with the following command:

```
Marassmigrate -project=<project> -USER=<user name> -PASS=<your password> MDB=/<chosen mdb>
```

For example:

```
marassmigrate.exe -USER=SYSTEM -PASS=XXXXXX -PROJ=TTP -MDB=/TTP
```

3.4.1 View the Log File

Open the file marassmigrate.log.

Please review the log file for errors.

3.4.2 Assembly Migration Details

The assembly attributes are migrated as according to following table.

Assembly Attributes	Tribon M3	AVEVA Marine
Assembly Type	<text string>	UDET with the same name as the corresponding Tribon M3 type but prefixed with ":". The UDET is not created by the migration utility. If the UDET not exists the default ASMBLY type is used.
Local assembly name	<text string>	ASNAME <text string>
Working location	<text string>	ASWLOC <text string>
Description	<text string>	DESC <text string>
Build strategy	<text string>	ASBUIL <text string>
Destination	<text string>	ASDEST <text string>
Orientation	<text string>	ASORI <integer>
	Upright=	1
	Upside down=	2
	Fore down=	3
	Aft down=	4
	Portside down=	5
	Starboard down=	6
	Specific panel=	7
	Automatic=	8
		Additionally a corresponding ORI is stored.
Base panel	<text string>	ASBPAN <ref> Set in case ASORI is 7 or 8.
Estimated WCOG	<4 reals>	ASEWEI <real> ASECOG <3 reals>

4 Drafting Migration

Tribon M3 Drawings can be opened in Hull Drafting after they are converted to AVEVA Marine format. This is required because of enhancements in the drawing format that makes them compatible with the old format.

The drafting migration application takes care of this conversion.

4.1 Current Limitations in AVEVA Marine

Tribon M3 drawings can only be opened in AVEVA Marine as Legacy drawings. This means that they can be opened in AVEVA Marine Hull Drafting, edited and saved, but not updated against the current model. Also, the drawings are stored as `.sbd` files in the file system rather than in the Dabacon database.

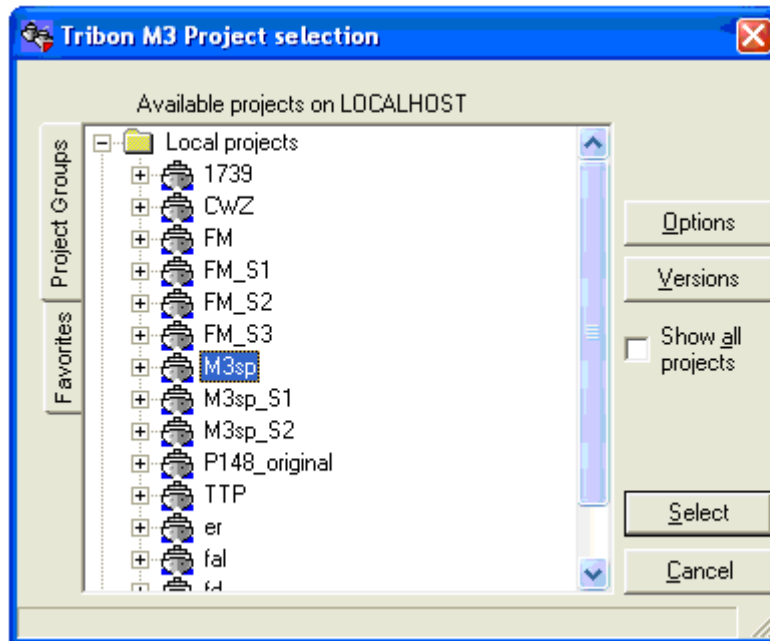
4.2 Prerequisites

You must have Tribon M3 installed and work on the exporting computer.

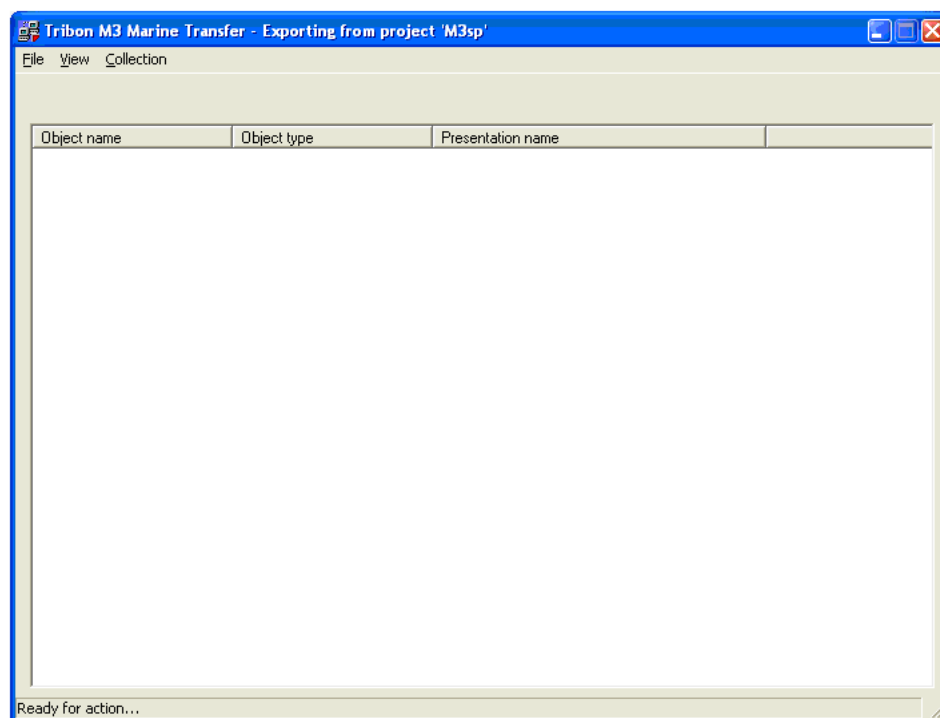
4.3 Exporting Drawings from Tribon M3

Drawings are exported using the migration tool `marexport.exe`. This tool is used in the Tribon M3 environment and acts like a normal Tribon M3 program.

Select the Tribon M3 project that contain the drawings to export, using **Tribon Project Selection**:

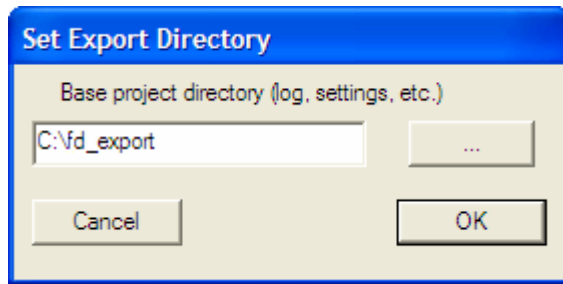


Start marexport.exe:



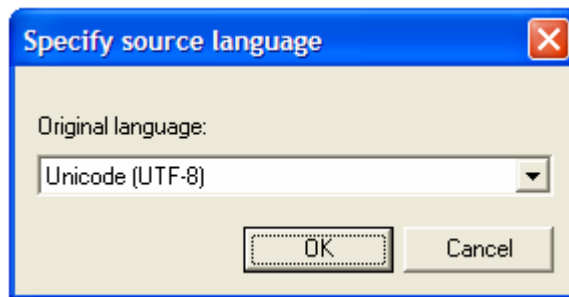
This program has a user interface that is very similar to Tribon Project Copy. It is, however, used only for exporting data from Tribon M3 to AVEVA Marine.

Start by selecting a directory for storing the drawings. This is done in the menu **File > Set Export directory**:



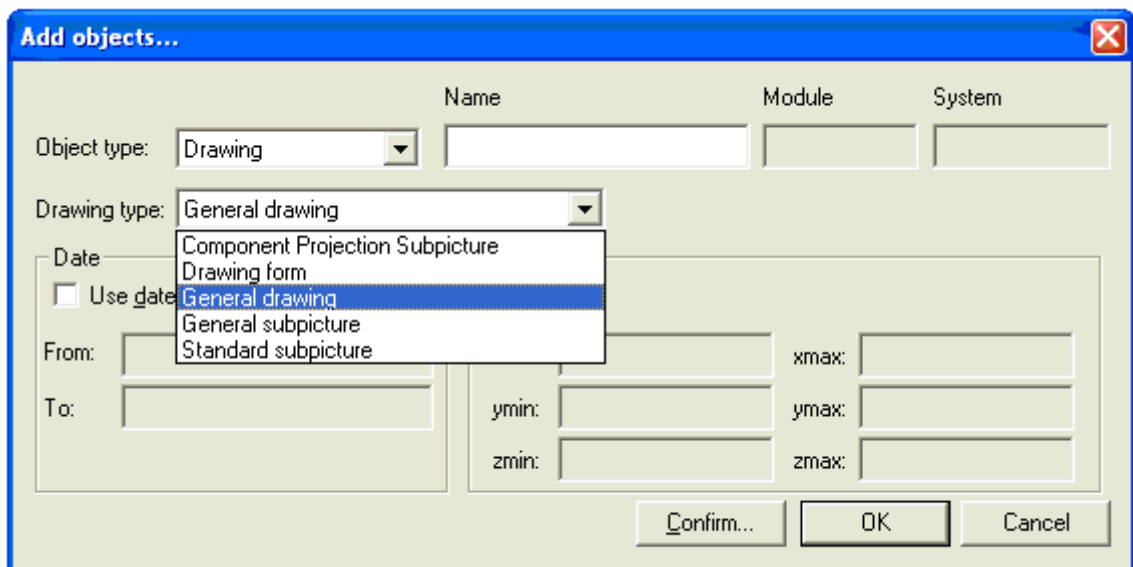
Define the directory for Drawings, and click **OK**. Exported drawings will be stored in sub-directories named after the drawing type.

To be able to export non-English text in drawings correctly, the language of the drawings must be set in the export program. In the **File** menu, select **Set source language**:



Set the language to what was used in the Tribon drawing.

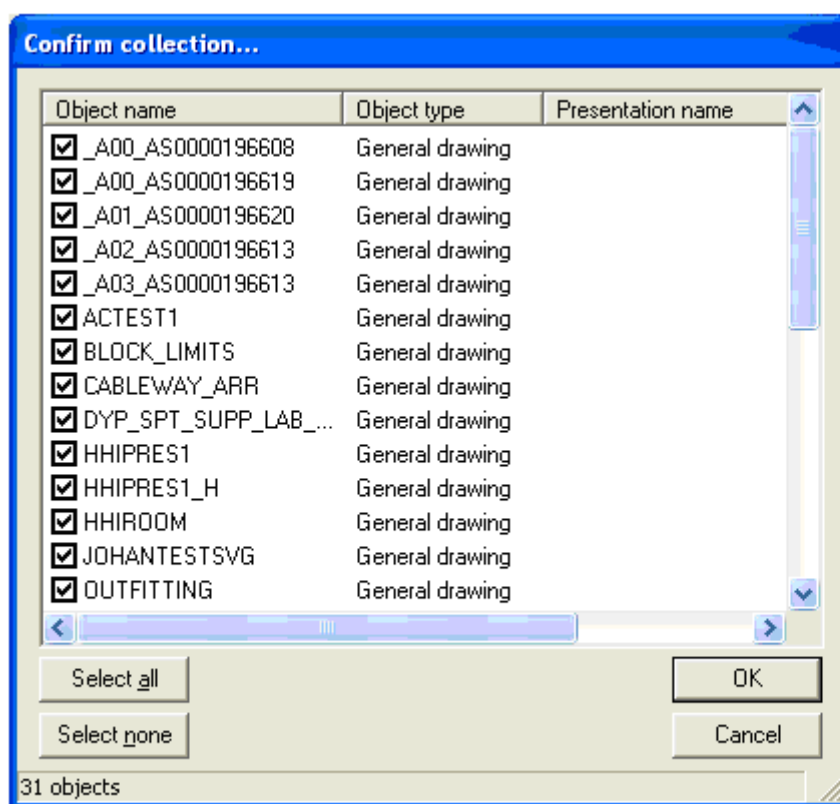
Go to the **Collection** menu and select **Add objects...**



In the **Object type** drop-down box, select **Drawing**.

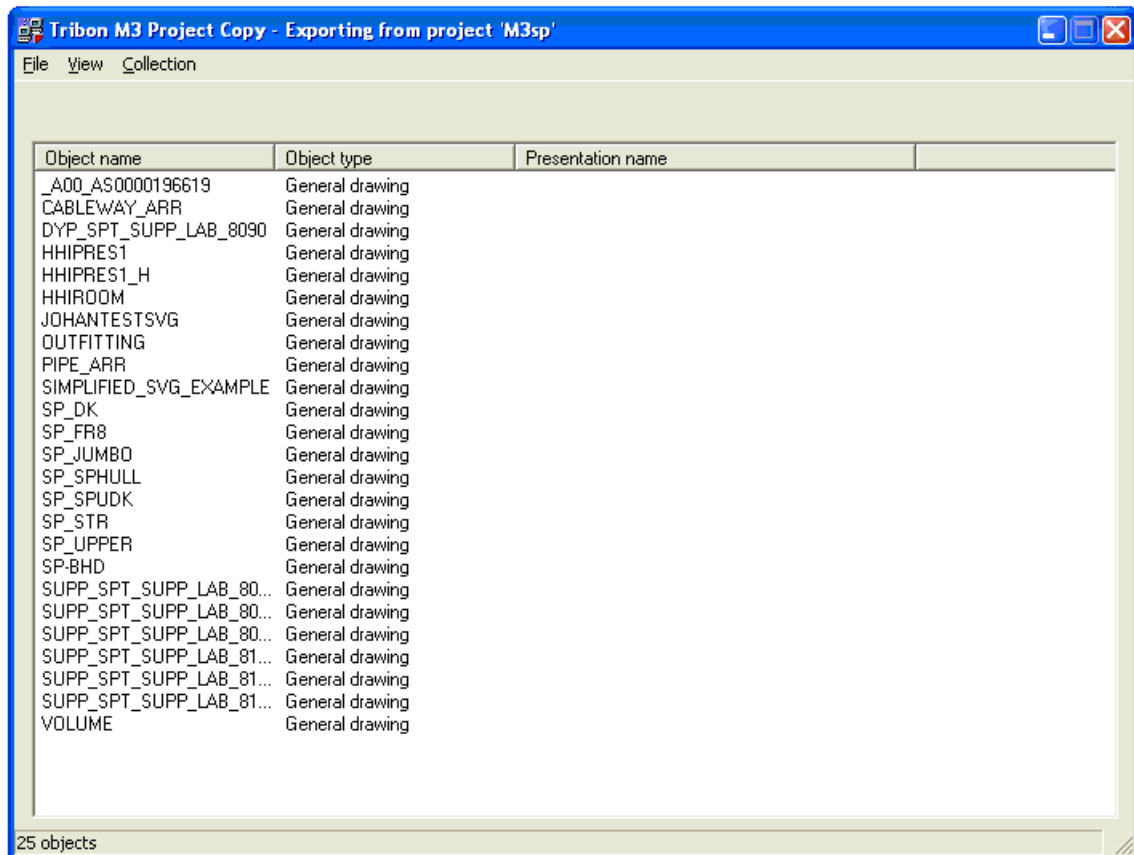
In the **Drawing type** drop-down box, select the preferred Drawing type.

To select between the available drawings, click the **Confirm...** button:



Here you can tick the drawings that you would like to transfer.

Click **OK**.



Now, this is the selection that will be transferred. It can be edited at any time by selecting more items or removing the current ones. The selection can also be saved using the menu command **Save Collection**.

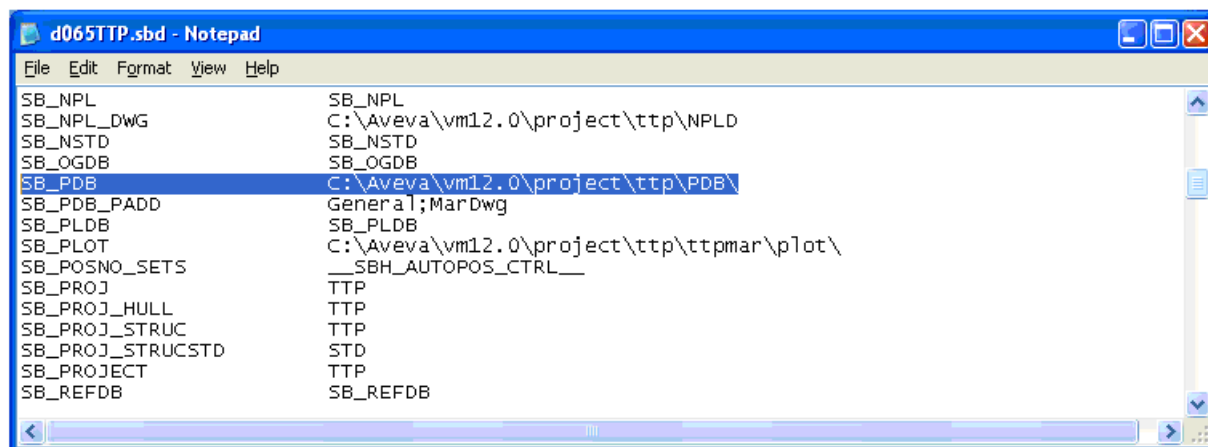
Under the file menu, select **Export**. The drawings are now exported to the selected directory.

4.4 Opening Migrated Drawings In AVEVA Marine Hull Drafting

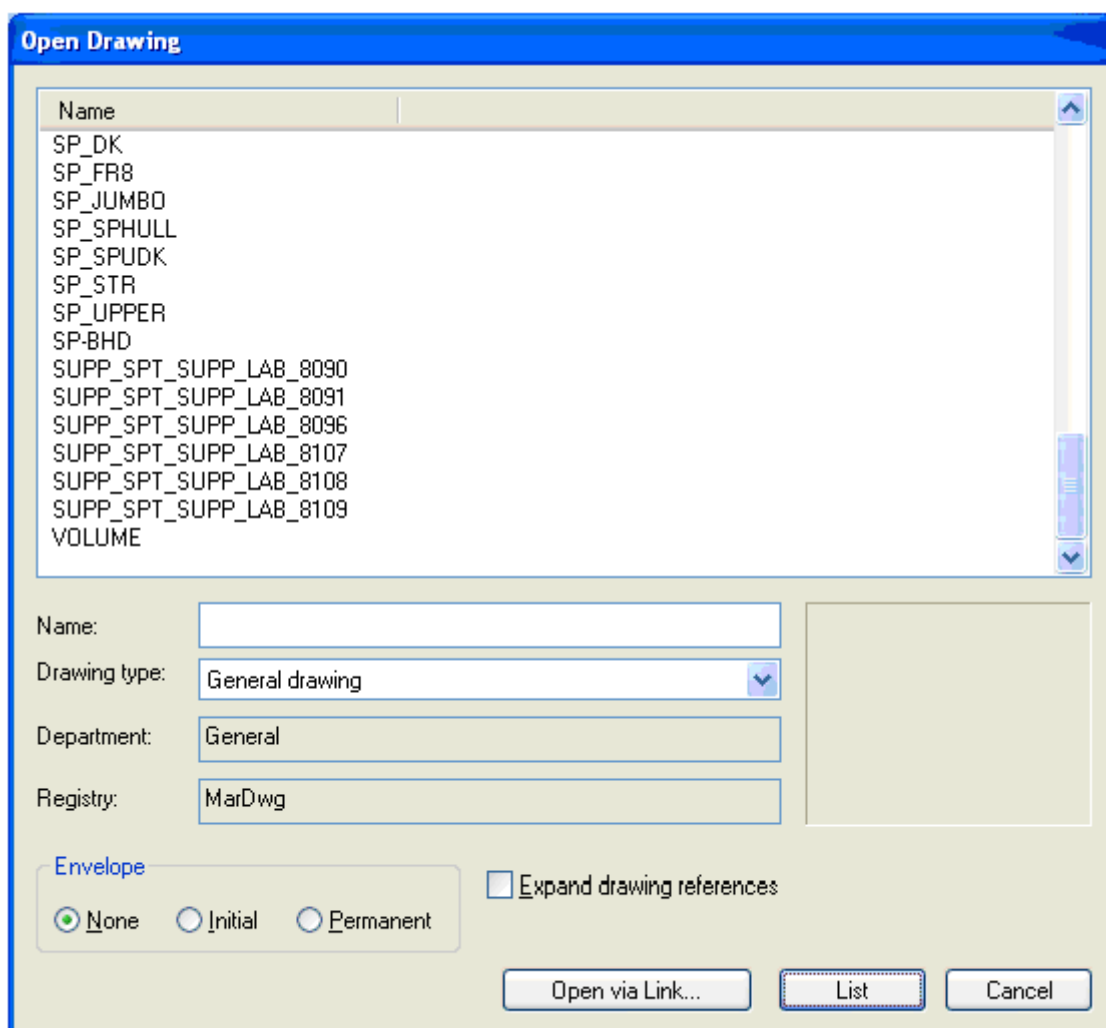
In File Explorer, navigate to your AVEVA Marine project and locate the d065 file for the Hull applications.

This is typically under the folder named '<project name>mar', e.g. 'ttpmar'.

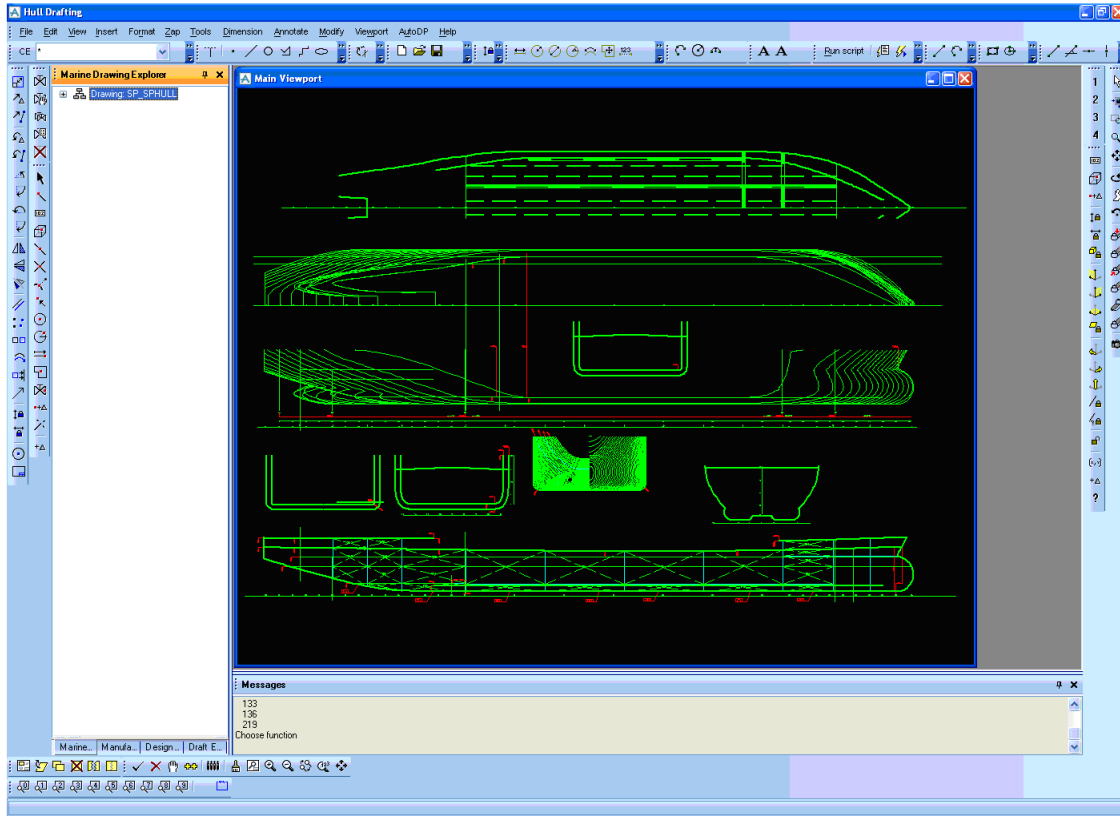
In the d065 file, set the variable SB_PDB to the directory where the migrated drawings are located:



Start Hull Drafting, and select **Open Drawing**. By clicking the **List** button, the drawings are listed. This list now contains the migrated drawings.



The migrated drawings can now be opened in Hull Drafting:



4.5 Persisting Migrated Drawings into PADD Database

Migrated drawings from Tribon M3 can be persisted into the PADD database by running a program sy013.

Usage: `sy013 -name <object name> -dwgtype <type> [-list`

`<object name>` wild cards can be given.

`<type>`

- 1 = General drawing
- 4 = Assembly drawing
- 6 = Assembly instruction drawing
- 7 = Pipe Sketch
- 8 = Hull weight & centre of gravity drawing
- 9 = Hull part list drawing
- 10 = Hull profile sketch

- 11 = Hull nested profile sketch
- 12 = Hull plate jigs drawing
- 13 = Hull pin jigs drawing
- 14 = Hull bending template drawing
- 15 = Hull planar part drawing
- 16 = Hull curved part drawing
- 17 = Hull nesting sketch
- 18 = Hull panel line sketch
- 19 = Hull 3-axis nesting sketch
- 20 = Hull receipt drawing
- 24 = Component projection subpicture
- 25 = Volume comment subpicture
- 26 = Hull panel line individual sketch
- 27 = Hull mark texts
- list gives a list of objects of given type not migrated yet, no migration will be done.

Examples:

```
C:\AVEVA\Marine>sy013 -proj=MAR -username=USER1 -pass=XXXXXX -mdb=/
ASSYPLANNING -name ER3* -dwgtype 10 -list
```

Drawing ER3-BHD-FR35-3_F1S_2 does not exist in PADD.

Drawing ER3-BHD-FR35-3_S1S_3 does not exist in PADD.

Drawing ER3-BHD-FR35-3_S6S_5 does not exist in PADD.

```
C:\AVEVA\Marine>sy013 -proj=MAR -username=USER1 -pass=XXXXXX -mdb=/
ASSYPLANNING -name ER3* -dwgtype 10
```

Drawing ER3-BHD-FR35-3_F1S_2 migrated to PADD.

Drawing ER3-BHD-FR35-3_S1S_3 migrated to PADD.

Drawing ER3-BHD-FR35-3_S6S_5 migrated to PADD.

Known error:

If a directory for drawing objects contains an empty file, the execution is interrupted and the message below is written.

End of file of sequential data bank.

This error may be caused by empty file on the directory where the drawings are located. Please, remove the empty file.

5 Outfitting Migration

Tribon Outfitting data is exported to AVEVA Marine as XML data, following the Xmplant XML standard.

In the current version, the following Tribon Outfitting objects are exported:

- Components
- Piping
- Equipment
- Cableway
- Ventilation
- Structure

Piping components can be imported as Components in Paragon with the **TribonToPDMS** import program.

Components that are created as equipment Design Templates can be used as a base for creating new Equipment objects.

5.1 Current Limitations

In the current version, Component data is only exported for the following component main types:

- 00 - Piping components
 - In this group, components can be imported as Piping components in Paragon, except for the group 0099***, General Piping Component (free type levels). These are created as Equipments

The following component categories are exported into Equipment design templates, if they have a volume.

- 01 - Electric components
- 04 - Accommodation components
- 12 - Miscellaneous structure components
- 20 - Cable trays, clips etc
- 21 - Mounting material, glands, screws, etc.
- 30 - Furniture, stairs, etc.
- 50 - Construction
- 90 - Miscellaneous

The category 10 - Structure is not migrated. A corresponding catalogue already exists in Aveva Marine - MARSTLCATA.

The current version only exports Cableways as geometry i.e. no detailed model data or part reference comes over for these objects. The data will be imported as Equipment items.

5.2 Migration Setup XML Files

The Outfitting export uses a few XML files, which control the migrated data:

- Map_Tribon_XMPLant_Class.xml
 - This is used to translate Tribon Component classes to XMPlant component classes. It also defines the SKEY, connection point directions and orientation of the components.
- Map_Tribon_XMPLant_ConnectionType.xml
 - Contains translation information for completing SKEY translation
- Map_Tribon_XMPLant_EndPreparation.xml
 - Contains translation of Tribon connection types to XMplant connection types.
- Map_Tribon_PML_ComponentAttributes.xml
 - Describes which component attributes should be migrated to AVEVA Marine. This file is not used in the current version but will be used in later releases.

These files must be in the same directory as the Outfitting export program.

5.2.1 The File Map_Tribon_XMPLant_Class.xml

This file should not be regularly changed, but if required, depending on the Project data, the XML contains the following attributes can be altered:

Value	The Tribon Class that is Translated
TribonDescription	Tribon description. For information only, not used by the program.
NewValue	The XMplant component class that the component is translated to.
ConnectionPointConversion	This is set if connection points should be reversed; i.e. if connection point 1 in Tribon should be converted to ppoint 2 on the Marine Outfitting component and vice versa. 2;1 means that the first connection point becomes ppoint 2 and the second becomes ppoint 1. By default it is not reversed for most components.
OrientationX	This is set to -1 if the component should be flipped in the X axis in the model space. By default it is not set for most components.

Value	The Tribon Class that is Translated
OrientationZ	This is set if the component should be flipped in the Z axis in the model space. By default it is not set for most components.
SKEY	<p>This is the SKEY that the component will get in Marine Outfitting. In many cases, the last two characters contain asterisks, for example SKEY="CO**". In these cases, the program will apply the information in <code>Map_Tribon_XMplLant_ConnectionType.xml</code> and <code>Map_Tribon_XMplLant_EndPreparation.xml</code> for the current connection types on the Tribon component, to determine the last two characters.</p> <p>Example:</p> <p>The SKEY value contains "CO**".</p> <p>If the flange code in the Tribon component connection is "Internal thread" and thread code is "M", then this is translated in <code>Map_Tribon_XMplLant_EndPreparation.xml</code> to the XmPlant value "FemaleThreaded".</p> <p>This value is then used in <code>Map_Tribon_XMplLant_ConnectionType.xml</code> to translate to "SC".</p> <p>The resulting SKEY exported will be "COSC".</p>

Example xml:

```
<Attribute Value="2201" TribonDescription="Circular"
NewValue="SlipOnFlange" ConnectionPointConversion="2;1"
OrientationX="-1" OrientationZ="-1" SKEY="FLSO" / >
```

5.3 Installing the Drafting and Outfitting Export Program

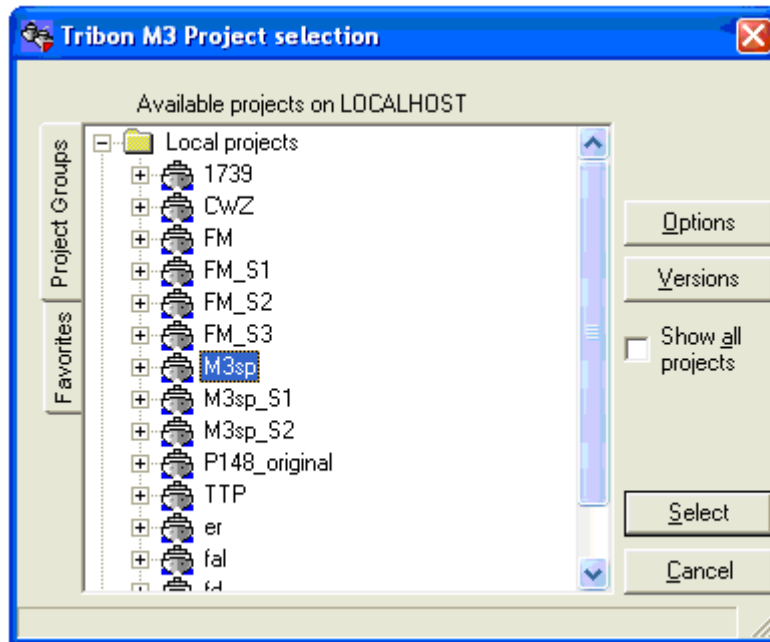
Please make sure that Tribon M3 is installed on the workstation.

Run the install file `Marine Drawing and Outfitting Export.msi`. This will install the export program in the `\Tribon\M3\Bin` directory.

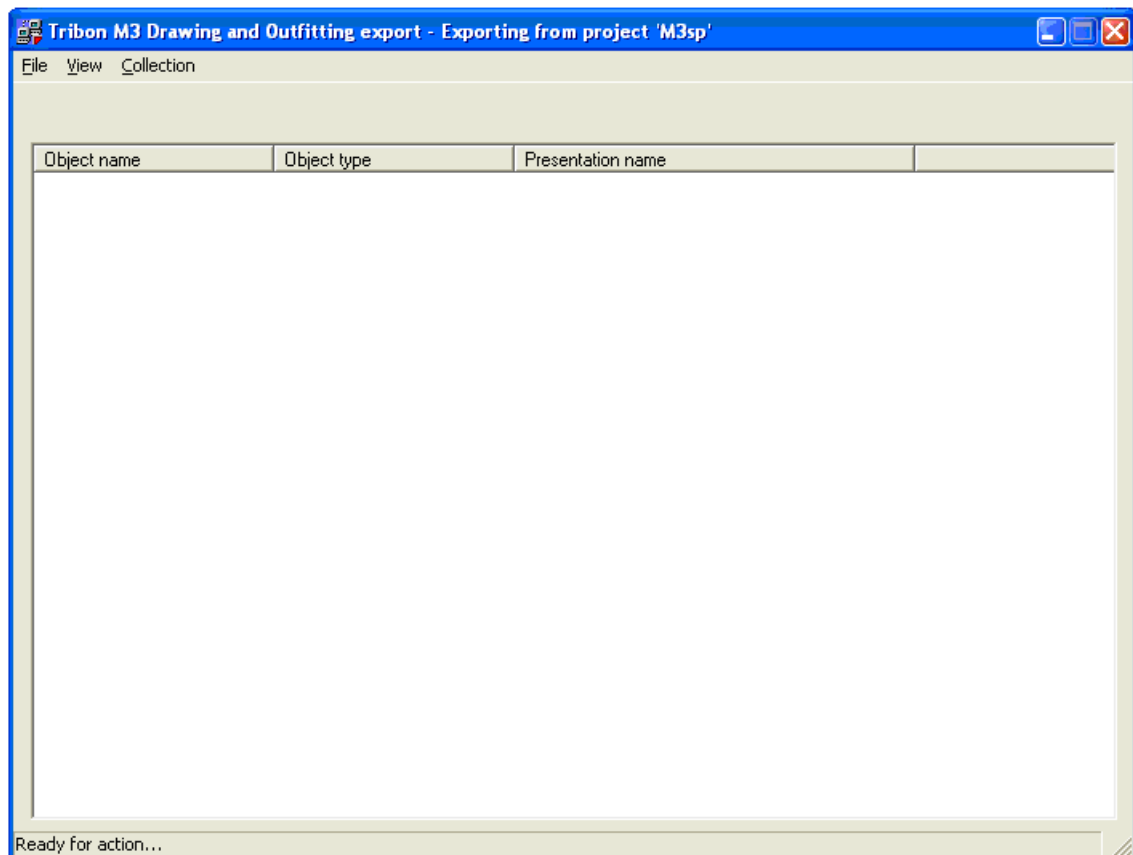
5.4 Running the Drafting and Outfitting Export Program

Drawings and Outfitting data is exported using a migration tool, `marexport.exe`. This tool is used in the Tribon M3 environment and acts like a normal Tribon M3 program.

Select the Tribon M3 project that contains the project to export, using Tribon Project Selection:

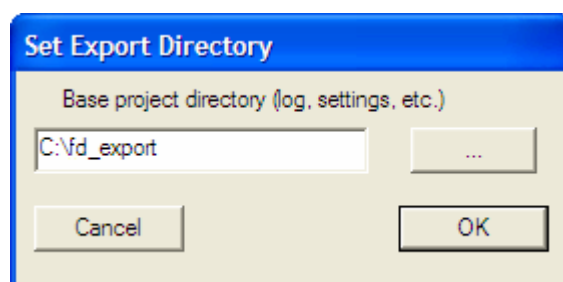


Start the export program by executing the file `marexport.exe` in the `\Tribon\M3\Bin` directory:



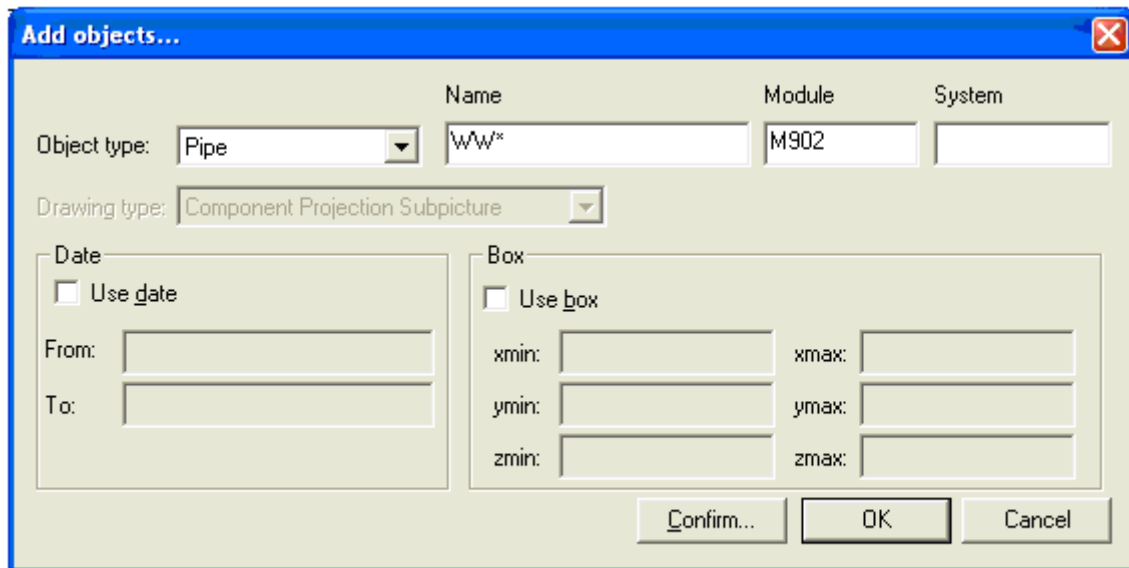
This program has a user interface that is very similar to Tribon Project Copy. It is however used only for exporting data from Tribon M3 to AVEVA Marine.

Start by selecting directories for storing the data. This is done in the menu **File > Set Export directory**:



Define the directory and click **OK**. Sub-directories will be created for each migration discipline, under this directory.

Go to the **Collection** menu and select **Add objects...**



Add objects...

Object type: Name: Module: System:

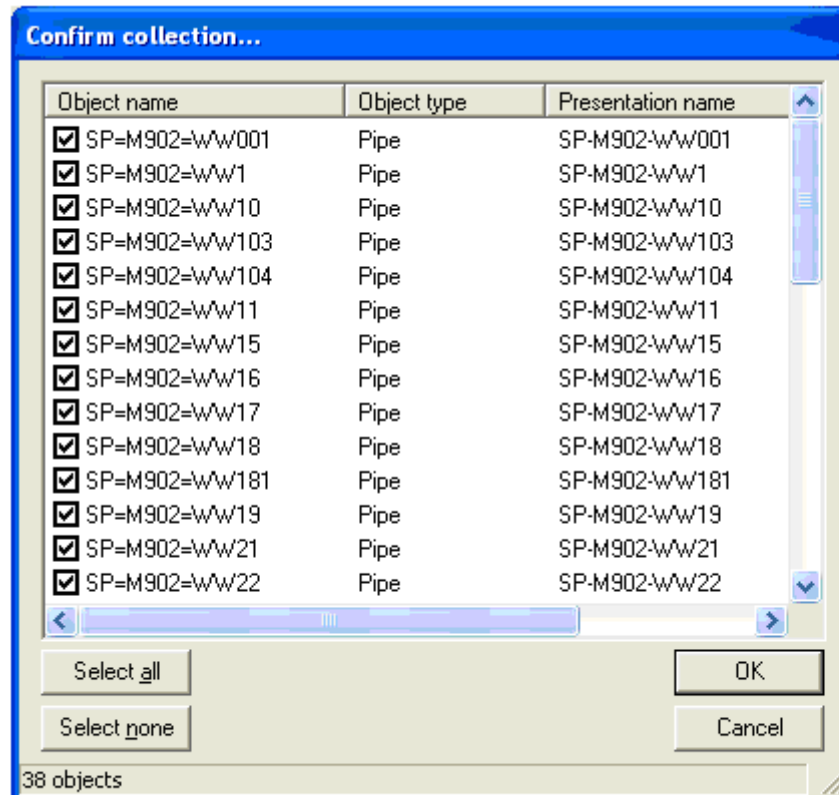
Drawing type:

Date
☐ Use date
 From:
 To:

Box
☐ Use box
 xmin: xmax:
 ymin: ymax:
 zmin: zmax:

In the **Object type** drop-down box, select the object type to be exported. You can also define object names, modules and systems. Wildcard is supported by using *.

To select between the available objects, click the **Confirm...** button:



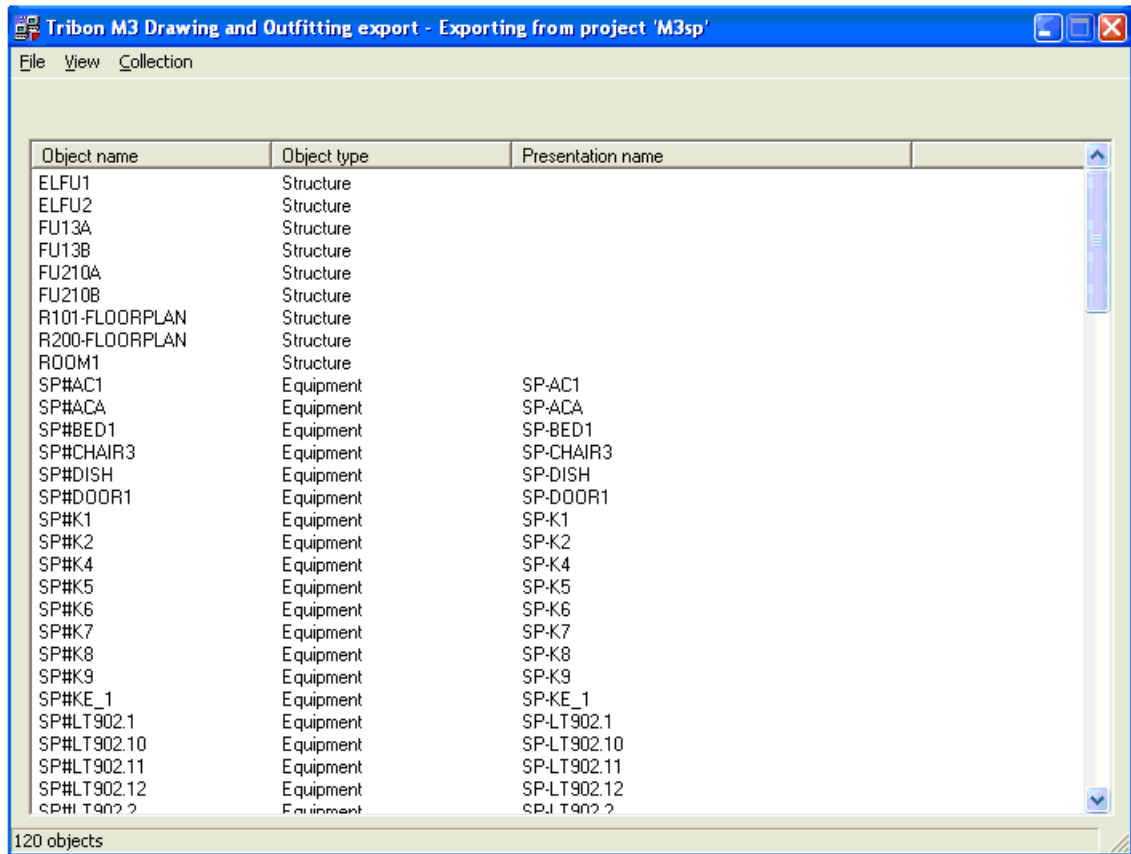
Confirm collection...

Object name	Object type	Presentation name
<input checked="" type="checkbox"/> SP=M902=WW001	Pipe	SP-M902-WW001
<input checked="" type="checkbox"/> SP=M902=WW1	Pipe	SP-M902-WW1
<input checked="" type="checkbox"/> SP=M902=WW10	Pipe	SP-M902-WW10
<input checked="" type="checkbox"/> SP=M902=WW103	Pipe	SP-M902-WW103
<input checked="" type="checkbox"/> SP=M902=WW104	Pipe	SP-M902-WW104
<input checked="" type="checkbox"/> SP=M902=WW11	Pipe	SP-M902-WW11
<input checked="" type="checkbox"/> SP=M902=WW15	Pipe	SP-M902-WW15
<input checked="" type="checkbox"/> SP=M902=WW16	Pipe	SP-M902-WW16
<input checked="" type="checkbox"/> SP=M902=WW17	Pipe	SP-M902-WW17
<input checked="" type="checkbox"/> SP=M902=WW18	Pipe	SP-M902-WW18
<input checked="" type="checkbox"/> SP=M902=WW181	Pipe	SP-M902-WW181
<input checked="" type="checkbox"/> SP=M902=WW19	Pipe	SP-M902-WW19
<input checked="" type="checkbox"/> SP=M902=WW21	Pipe	SP-M902-WW21
<input checked="" type="checkbox"/> SP=M902=WW22	Pipe	SP-M902-WW22

38 objects

Here you can tick the objects that you would like to transfer.

Click **OK**.



Now, this is the selection that will be transferred. It can be edited at any time by selecting more items or removing the current ones. The selection can also be saved using the menu command **Save Collection**, and a previous selection can be loaded with **Load Collection**.

Under the **File** menu, select **Export**. The outfitting objects are now exported to the selected directories.

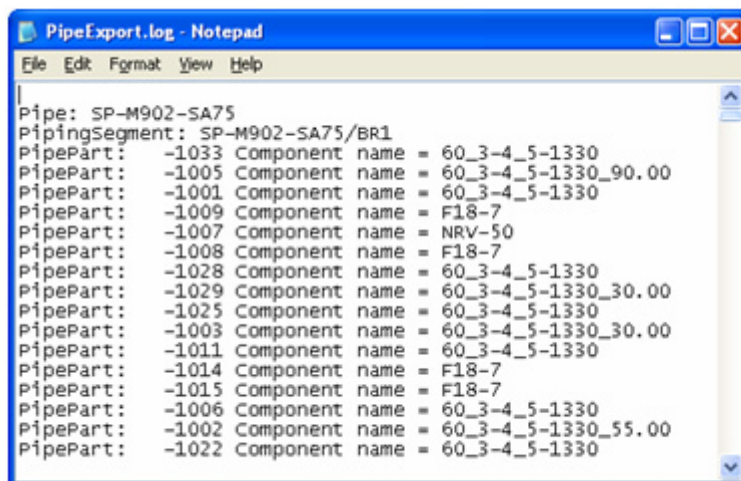
The export program will also create a setup file, called "transferSetup.xml". The file contains information on what data is exported and in which discipline. This file is used by Aveva Marine Admin, in order to set up the Outfitting Import in Aveva Marine 12.

If Outfitting data is exported in several sessions to the same directory, the setup file will be overwritten. In this case, it will be necessary to modify the setup file manually, to make sure the Outfitting import sets up correctly.

Please refer to the *Tribon to AVEVA Outfitting Translator User Guide* for information about the Outfitting import.

5.5 Log Files

When the export is run, a log file will be produced for each discipline. The log file is stored in the same directory as the XML files for each discipline. The log file will indicate if there were problems exporting any parts.



```
Pipe: SP-M902-SA75
PipingSegment: SP-M902-SA75/BR1
PipePart: -1033 Component name = 60_3-4_5-1330
PipePart: -1005 Component name = 60_3-4_5-1330_90.00
PipePart: -1001 Component name = 60_3-4_5-1330
PipePart: -1009 Component name = F18-7
PipePart: -1007 Component name = NRV-50
PipePart: -1008 Component name = F18-7
PipePart: -1028 Component name = 60_3-4_5-1330
PipePart: -1029 Component name = 60_3-4_5-1330_30.00
PipePart: -1025 Component name = 60_3-4_5-1330
PipePart: -1003 Component name = 60_3-4_5-1330_30.00
PipePart: -1011 Component name = 60_3-4_5-1330
PipePart: -1014 Component name = F18-7
PipePart: -1015 Component name = F18-7
PipePart: -1006 Component name = 60_3-4_5-1330
PipePart: -1002 Component name = 60_3-4_5-1330_55.00
PipePart: -1022 Component name = 60_3-4_5-1330
```