AVEVA Marine Customisation

User Guide

AVEVA Solutions Ltd

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1.1 About this Manual

To meet various requirements for the set up of AVEVA Marine, the system is designed with comprehensive customisation options. The system is delivered with a set of "default files", and these can be kept as they are or, alternatively, modified depending on individual and specific requirements.

By modifying the default files and other types of customisable information, AVEVA Marine can be adapted to the particular standards and capacities, used at a specific site or in a specific project.

This manual is intended to give an overview of customisation options and to serve as a base for preparing a detailed implementation plan. It lists many - but not all - of the most frequently customisable features. The detailed instructions on how to modify the options can be found in application specific documents, to which references are made below.

This manual covers many parts and aspects of AVEVA Marine, in particular Hull, Structural Design, Drafting, Assembly Planning and Weld Planning, each customer should select the parts, valid for the particular installation.

1.2 Preparations for Customisation

The following main activities are preferably done before starting the customisation work:

Set up of the organisation for the implementation.

The contact between AVEVA and a customer is technically managed by a system manager from the customer organisation. The system manager should preferably be involved very early in the implementation of AVEVA Marine at the customer's site, and will be the point of contact for all technical matters between the customer and AVEVA.

Installation of the hardware and basic software.

The customer is normally responsible for installing all hardware and operating system software before AVEVA Marine can be implemented.

Training of users.

To successfully install and customise AVEVA Marine, the users should be adequately trained in the use of the various applications. AVEVA offer a full range of standard courses as well as customer specific training programmes.

AVEVA further offers on-site supervision, follow-up activities and other types of consulting, aiming at the maximum performance and best use of the software.

The actual installation.

The first time installation of the software is often done by AVEVA, while the installation of new releases and updates usually are handled by the customer's system manager.

The first time installation does normally not include any customisation work, but includes all default settings and a sample test project. This installation typically ends up in an acceptance test, and after a successful test the customer is required to sign an acceptance report.

Establishment of system management routines.

It is necessary to decide upon management routines at the customer site. Such decisions are very much depending on the intended use of the software, the organization of the customer company, the type of hardware in use and the type of projects to run.

One important concern is to decide on access control, i.e. which users have access to which tools, directories and projects. A standard environment is delivered and can be modified. Connected to the access control, built into the operating system, the access to AVEVA Marine products must be set up, using the License management tools, supplied by AVEVA. Further, possible links to other types of software may have to be considered.

A first projects must be initiated.

(Ref.: *Administrator's Guide > Projects*)

Last but not least, proper disk management and backup routines must be established in order not to loose data because of e.g. power failure or hardware failure.

Analysis and definition of work-flow and development of working methods.

Some basic conventions related to the shipyard facilities and working methods in use should be decided. These include the naming conventions and rules for position numbers and the symmetry conventions.

(Ref.: *Hull Model Concept > Run Mode Control > Control on Application Level*).

The production information for workshops can be tailor-made to a great extent and the use of teams-zones-sections-modules should be established.

If subcontractors are to be used, the planning of the information flow to/from subcontractors is necessary.

Finally, reuse of data - sister ship handling - may be planned.

(Ref.: *Project Copy > Project Copy > Overview.*

1.3 Customisation, General

Some general items in AVEVA Marine are used by several different applications and should be considered for customisation at an early stage.

1. Standard book, drawing forms and other general issues in Drafting

(Ref.: *Drafting > User's Guide, Handle Standard Objects*).

1.4   Customisation of Structural Design

For Structural Design, the customisation actions made for Hull and Drafting are automatically applied.

1.5   Customisation of Hull and Factory Automation

1. Material qualities

   (Ref. *Hull > Setup and Customisation > Miscellaneous > Customer Set-up of Material Qualities*)

2. Profile cutouts

   (*Hull > Setup and Customisation > Cutouts and clips > Profile Cutouts via Macros*)

3. Endcut standards (and selection of default endcuts)

   (Ref. *Hull > Setup and Customisation > Profiles > Profile Endcuts*)

4. Bevel standards

   (Ref. *Hull > Setup and Customisation > Bevel Excess and Weld > Bevel Handling in*)

5. Flange standards

   (Ref. *Hull > Setup and Customisation > Flanges*)

6. Bracket standards

   (Ref. *Hull > Setup and Customisation > Brackets*)

7. Shrinkage compensation

   (Ref. *Hull > Setup and Customisation > Shrinkage Compensation*)

8. Swedging (small corrugation)

   (Ref.: *Hull > Setup and Customisation > Knuckled Pieces and Swedgings*)

9. Profile standards

   (Ref.: *Hull > Setup and Customisation > Profiles*)

10. Knuckling panels

    (Ref. *Hull > Setup and Customisation > Knuckled Pieces and Swedgings*)

11. Excess types

    (Ref. *Hull > Setup and Customisation > Bevel Excess and Weld*)

12. CL format for cutting

    (Ref.: *Hull > Manufacturing > Generic Post Processor*)

13. Part name control

    (Ref.: *Hull > Setup and Customisation > General > Customer Control of Part Names*)

14. Function Descriptions

    (Ref.: *Hull > Setup and Customisation > General > Functional Descriptions*)

15. Automatic Setting of Fillet Welds

    (Ref.: *Hull > Setup and Customisation > Bevel Excess and Weld > Automatic Selection of Fillet Welds*)

16. Clips

    (Ref.: *Hull > Setup and Customisation > Cutout and Clips > Clips*)

17. Deformation Compensation

(Ref.: *Hull > Setup and Customisation > Shrinkage Compensation > Weld Compensation for Built Profiles*)

1.6 Customisation of Assembly Planning

1. Assembly database defaults
2. Customisation of part names
   The same customisation as for Hull is automatically active in Assembly Planning.
3. Assembly parts list
4. Automatic Assembly Drawings

(Ref.: *Assembly Planning > Assembly Defaults)*

1.7 Customisation of Weld Planning

Weld analysis setup and weld parameters

(Ref.: *Weld Planning > New Weld Planning - User's Guide > Weld Planning Setup*)

1.8 Developer's Toolkit

Developer's Toolkit is an environment for the development of new functions and features in AVEVA Marine. As such, it is a tool for customisation in several different aspects, and it is highly recommended that a customer looks into the possibilities of this tool.

• Vitesse functionality.

(Ref.: *Developer's Toolkit > Vitesse*).