

Stuga Machine Control Application Specification

Specification for machine control software

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Stage 1 Static Data Files

Requirements Summary

Write a module to look after the static data used by the Stuga machines, currently stored as ASCII csv files. The module should have the following features

- Data stored in a database format, suitable for read access from other proprietary database applications
- Import function from csv to database
- Export function from database to original csv format (important for inter-machine compatibility)
- Ability to add new fields
- Add new record
- Check for existence of record
- Data integrity checking of imported files

File Specifications

	Description	Link
Alarms.mul	Definition of alarm states and messages for operator user interface	Alarms.mul specification
Axes.mul		
Central.saw		
Clamppos.mul		
Clamps.mul		
Colours.saw		
Ejpos.mul		
etherCATDevices.mul		
Hardware.mul		
Gaps.saw		
ioDef.mul	Definition of input and output channels	IODef.mul Specification
loadpos.saw		
masterdir.saw		

messages.saw		
osensor.mul		
params.saw		
peps.mul		
profile.mul		
queueno.mul		
shifts.mul		
sloadpos.saw		
sparams.saw		
stdops.mul		
tools.mul		
trim.mul		

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userVariables.mul		
work.449		
xposhold.mul		
zstdopdef.mul		

Stage 2 - Diagnostic Data Files

Extend the static data files to record the diagnostic data generated

- Diagnostic Log
- Logs each "side" of the machine
- Running Time / Efficiency
- Archiving and housekeeping
- User interface to search and view
- Interface to teamviewer IoT

Stage 3 - Production Data File