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TSUNAMI –An unified software application for field measurements and alignments in experiments and accelerators at CERN large scale metrology section

TSUNAMI, The Survey Unified Notepad for Alignment and Measurement Interventions is a new software designed to replace two existing software, mainly dedicated to data acquisition and beam component alignment using geodetic instruments at CERN. The use of different programs has been justified historically by the different needs, equipment and types of user. The two main ones have been written in obsolete VB 6.0 and VBA. Maintained for 20 years by different persons the code is now a mix of procedural and Object Oriented programming.

The motivation is to create a single, modular and easy to maintain software written in a popular language for Windows applications (C#), that can be used in a “Standard mode” guided through well-defined steps or in a free “Advanced mode”.

The approach is to build the application as a collection of wizards guiding the user through alignment and measurement modules, composed of more basic ones such as management and compute sub-modules.

This paper presents the functionalities and the development strategy of TSUNAMI.

Summary

TSUNAMI, The Survey Unified Notepad for Alignment and Measurement Interventions is a new software designed to replace two existing software, mainly dedicated to data acquisition and beam component alignment using geodetic instruments at CERN. This paper presents the functionalities and the development strategy of TSUNAMI.

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