NATIONAL SYNCHROTRON RADIATION CENTER
SOLARIS

GeoSynoptic Panel

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AIMS AND GOALS

The Solaris develops highly customizable and adaptable application called the GeoSynoptic Panel. Main goal of the GeoSynoptic Panel is to provide a graphical map of devices based on information stored in the Tango database. It is achieved by providing additional device/class properties which describe location and graphical components (such as icons and particular GUI window) related to a particular device or class. The application is expected to reduce time needed for preparation of synoptic applications for each individual (part of) machines or subsystems and to reduce effort related to debugging and change management.

APPLICATION

The application is based on two parts. The first part is GSP Configurator and the second part is Generic Panel. GSP Configurator stores all configuration settings in XML file and in the last step after user's confirmation, all settings data are saved in the properties of the device in the database. GSP Configurator in first step allows user to choose one of three modes:
- Test
- Full configuration
- Choose devices

FUTURE REQUESTS

Due to the fact that a current version of application is still the beta version, the next aim is to deliver a stable version. Nevertheless, the future development will concentrate on:
- New solution for devices location. Present solution with x and y coordinates is temporary, time-consuming and not very effective. The new idea is to divide a graphical map of machine into sections and place devices in selected sections like linear, booster + storage ring, beamlines (e.g. in storage ring in Solaris is 12 bending magnets, each magnet is one section, selecting icon with magnets users can easy and fast split storage ring into sections).
- Import/export XML file in the GSP Configurator.
- Integration application with EPICS + Experimental Physics and Industrial Control System.