

The Control System for the Accelerator of ANKA, B. JERAM, M. JURAS, K. KENDA, G. MAVRIC, M. PETERNELJ, U. PLATISE, M. PLESKO, R. SABJAN, M. SMOLEJ, G. TKACIK, J. STEFAN INSTITUTE, Ljubljana, Slovenia; H. SCHIELER, Forschungszentrum Karlsruhe - ANKA is a 2.5 GeV synchrotron radiation light source being built in Karlsruhe, Germany. The control system for the accelerator is based on the three-tier standard model architecture. However, modern products based on standards in distributed objects and networking are applied in addition to low-cost hardware including Pcs. This keeps development costs at a minimum. Instead of employing VME, we use the LonWorks field bus network with intelligent nodes and standard I/O modules to connect the individual devices directly to PCs that run TACO device servers under Windows NT. Those PCs act as WWW servers for data transmission, application distribution and documentation retrieval. Applications in the control room run also on Windows NT hosts as WWW clients. However, they could run in any Web-browser on any platform, because all operator control is performed through a Web-browser with Java applets/applications. The communication with the control system data servers is done through CORBA. CORBA objects are wrapped in JavaBeans which are simply connected with commercial data-manipulation and visualization Beans into full-fledged applications or applets.