

## **THE CERN PS/SL JAVA APPLICATION PROGRAMMING INTERFACE**

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The PS/SL Convergence Project was launched in March 1998. Its objective is to deliver a common controls infrastructure for the CERN accelerators by year 2001. In the framework of this convergence activity, a dedicated project was launched in order to develop a Java Application Programming Interface (API) between programs written in the Java language and the PS and SL accelerator equipment. This Java API was specified and developed in collaboration with TJNAF. It is based on the Java CDEV[1] package that has been extended in order to end up with a shared CERN/TJNAF common product. It implements a detailed model composed of devices organized in named classes that provide a property-based interface. It supports data subscription and introspection facilities. The device model will be presented and the capabilities of the API (I/O, introspection, data subscription) will be described with syntax examples. Early experience obtained in using this API will also be reported.

[1] CDEV is an API to accelerator control systems, developed at TJNAF in collaboration with the EPICS community and adopted as a standard interface by some US and European laboratories.