

# Data Systems Client Applications

Versatile and Powerful Helpers



Data systems require user interfaces and client applications that allow users to interact with data. Only the combination of performing data systems and matching powerful client applications provide the most benefit for the users.

## Introduction

Solenix has proven experience in the design, development and maintenance of both data systems and client applications. We have learned to increase the success of our client applications by setting a high value on

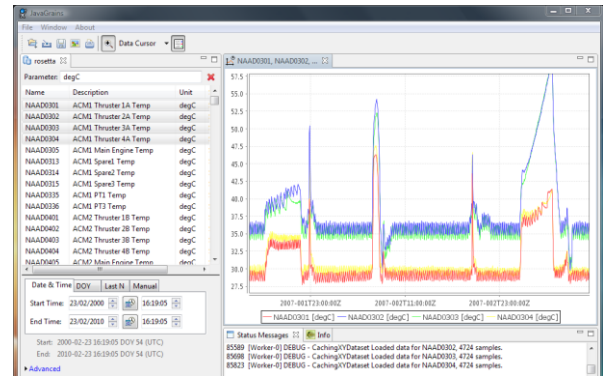
- Design of intuitive user interfaces to increase usability
- Modularity and reusability for flexibility
- Client and purpose dependent performance optimizations for better user experience
- Generic and well defined interfaces to increase extensibility

By following these guidelines, the development of client applications has become one of our key strengths. In combination with our experience in the main relevant technologies, we are able to cover a wide range of use cases.

## Technology and Background

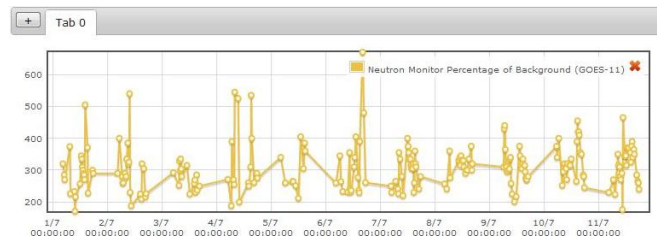
Application portability is key for a wide use. The **Eclipse Rich Client Platform (RCP)** allows building client applications that run on all modern operating systems with a native look-and-feel. At the same time it is Java based and therefore allows for easy integration with other Java systems.

RCP applications consist of a series of plug-ins, which provide specific functionalities. By applying this concept fully, the clients are very modular and can easily be customized to user needs by adding required elements and leaving out the ones that are not needed.



Eclipse RCP based desktop client

Web technology is currently shifting towards the new **HTML5** standard, which adds more technologies to the browser to support more powerful web based applications. Using these new elements it became possible to implement advanced plotting capabilities in a browser without the need for any third-party plugins, such as Java, Flash, Silverlight. Although only the newest browsers support the new standard already, it is evidently the future direction of web development.



Web client for interactive plotting using HTML5 rendering

Making use of these modern standards, we have developed sophisticated client applications with similar interactive functionalities known from desktop applications.

## Trade-Off

The right technology has to be chosen on a case-by-case basis. If heavy data processing is required, a local RCP client is more suitable than a web-based application. However, a web application provides the benefits of being accessible from multiple machines without any installation, and given the right adaptations it can even run on mobile platforms.