PROCESS AUTOMATION - SDA

WHAT IS IT?

Software developer assistant (SDA) is a portal based tool that provides comprehensive and customizable information and means to the software developer to assist in the process of developing software.

SDA features a flexible workflow engine to automate the software development process. An advanced portal allows customization of data and information along with ad hoc and graphical reporting, providing software developers and managers access to the progress of a project.

SDA is portable across a host of operating systems and is designed to be scalable for high number of users. It is implemented using the Java 2 Enterprise Edition (J2EE) architecture and a relational database.

WHY IS IT INNOVATIVE OR SIGNIFICANT?

The SDA tool is designed to provide a software development process and thus increase the productivity of the developer and the quality of the software.

SDA gives the user high flexibility in managing and executing a software development process. Developers can tailor software processes to accommodate different types of projects.

SDA brings all the information that a software developer needs to perform a task to one place. This reduces the time and cost for software development.

SDA provides customization of the data for generating a number of reports. For example, a developer might be interested in viewing the status his/her work while a project lead might be interested in knowing the status of the entire project.

SDA is web based, allowing access from distributed locations. This allows multiple software teams spread across the globe to use a centralized, standardized process to complete their tasks. And management has real time status of the project available.

- **Advanced web based portal architecture**
- **TieFlow powered process automation**
- **Process tailoring**
- **Flexible Process execution**
- **Real time graphical and adhoc reporting**
- **Advanced role management**
- **Integrated Configuration Management System**
- **Full text search capability**

TIETRONIX

- **Higher quality software**

  Achieve higher quality software by following a standard, documented development process.

- **Higher productivity**

  Documented process, distributed work sites, management visibility into the project all contribute to higher productivity.

- **Flexibility to the process**

  Processes can be modified to fit the project. During a project developers can develop in parallel, serially, start tasks early, skip tasks, and redo previous tasks.

- **Better accounting of bottlenecks and time spent on tasks**

  Track data on time spent on each activity, track rework performed, identify bottlenecks and performance hot spots.

- **Control access to information**

  Control access to information by role or user.

- **Elimination of paperwork**

  All information is stored electronically in a relational database eliminating the need for paperwork.

- **Process audit trail and management insight**

  Detailed reports on individual tasks plus a comprehensive look at the project status and statistics.

- **Fast track compliance to standards**

  Software process, detailed reports, and audit trails ease CMMI/ISO compliance.

- **Free for government use**

  Developed under a NASA SBIR contract, SDA is provided at no cost for government use