

## SPS Features

### High Availability, Reliability & Scalability

- Provides the failover capability by reserving redundant replicas of the application and the database surviving the single point of failure (SPOF) problem.
- Provides the load balancing capability to ensure a production real time performance.
- Presents a full stack clustering solution to grantee a theoretical unlimited expanding.

### Accessibility & Usability

- Web based for high accessibility and usability.
- Accepts a multi-languages input from the user (UTF).
- Easy to use, self descriptive and modular web interface.
- Supports AJAX to provide rich interactive interface.

### Integration

- Capable of interacting with other applications and communities solutions in a fast reliable way (e.g. through JMS messages, web services ... etc).
- Capable of dealing with other third party solutions (weighbridges...).
- Capable of integrating with wireless in-field devices (e.g. RDT devices).
- Capable of dealing with the industry related standards (e.g. EDI documents).
- Capable of integrating with banks through secured channels.

### Portability

- Hardware independent, in its architecture and design.
- Platform independent, in its architecture and design.
- Database independent, in its architecture and design.

### Configurability

- Easy and fast installation and configuration process for the solution and its external components (if it contains).
- Flexible reconfiguration process without the need for new installation.
- Ability to configure, stop or start the solution feature whenever required.

### Robustness

- All business flows are done in transactional fashion, thus, all system data is consistent all the time.
- Efficient resource locking mechanism.
- Validates the users' inputs for correctness (appropriate data type, value in range etc ...).

### Access Control

- Provides flexible efficient user management schema that allows access control covering all levels of the solution from higher level solution components to user interface controls level (e.g. buttons, check boxes...etc).
- Capable of giving privilege to an entity (role), then assign these roles to the solution users.
- Capable of assigning extra privileges to solution users individually.
- Capable of assigning many roles to one user.
- Capable of assigning limited privileges for users and/or roles to access its own resources only.

### Security

- Survives the fatal attacks on the application (e.g. SQL injection).
- Survives the network related attacks (e.g. eavesdropping or request repeating).
- Manages the user session in an efficient secure way (e.g. provides session time out).
- All processing is done on server's side not the client's side.
- Provides a secure channel for critical financial operation (e.g. bills payment).

### Portal Support

- Has capability to expose portlets for services on request.
- Supports Single Sign on (SSO) capability for web interface integration with other portal compliant solutions.
- Gives the end user the ability to personalize the web interface.

### Reporting

- Comes with an efficient reporting solution providing the end users with full awareness of the current status of the port resources (yards, berths ... etc).
- Reports the status of the port resources at the moment or at any previous moment.
- Generates analytical and statistical evaluation reports that help in the decision making process.
- Produces printable portable reports for the offline usage (e.g. in PDF format).
- Provides a real time notification solution for some critical events through a reliable fast notification methodology (e.g. SMS).

### Administration

- Provides extensive and efficient audit trailing solution.
- Provides a log with low overhead.
- Provides fast, customizable periodical or scheduled backup solution.