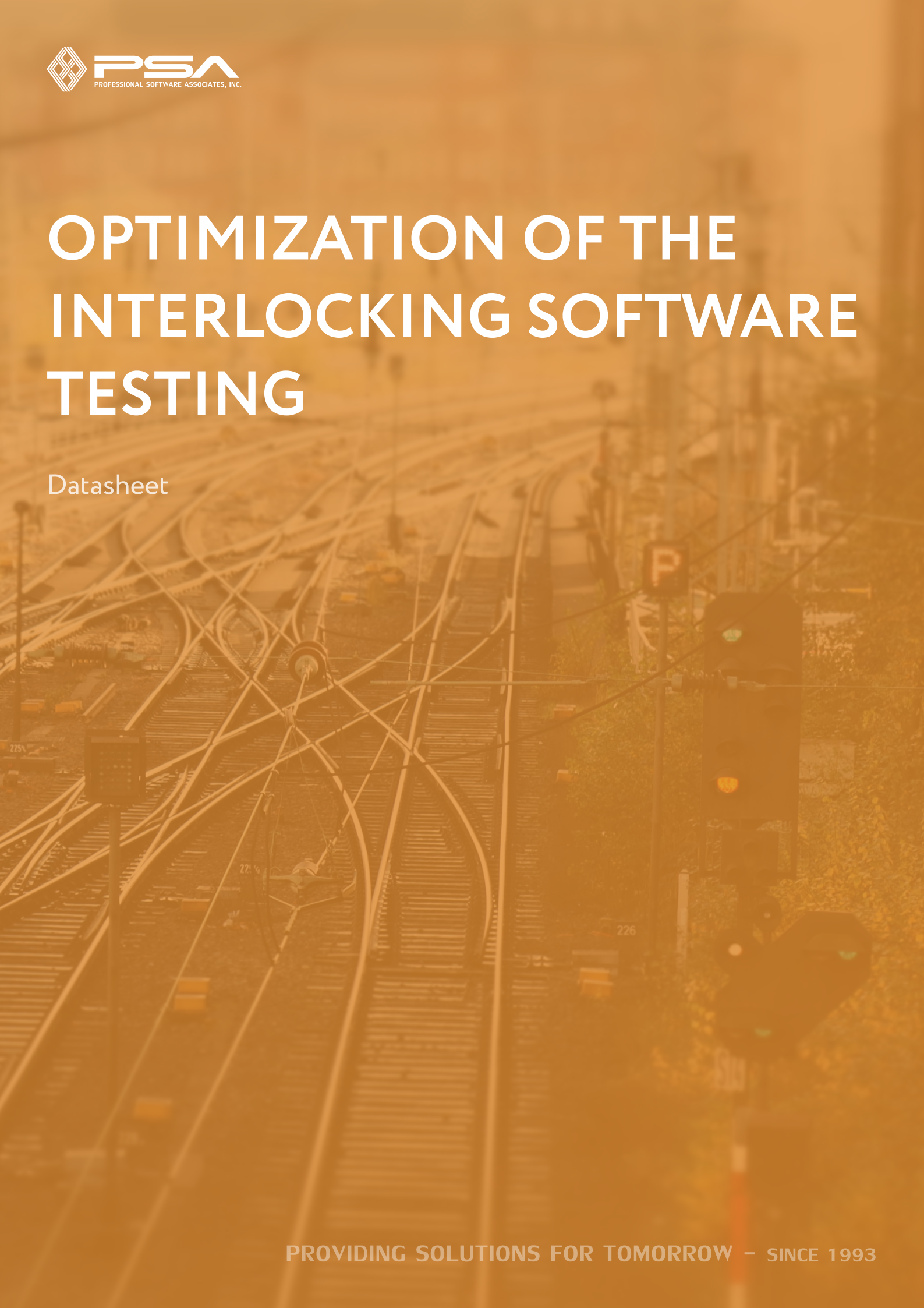
PSA
PROFESSIONAL SOFTWARE ASSOCIATES, INC.

OPTIMIZATION OF THE INTERLOCKING SOFTWARE TESTING

Datasheet



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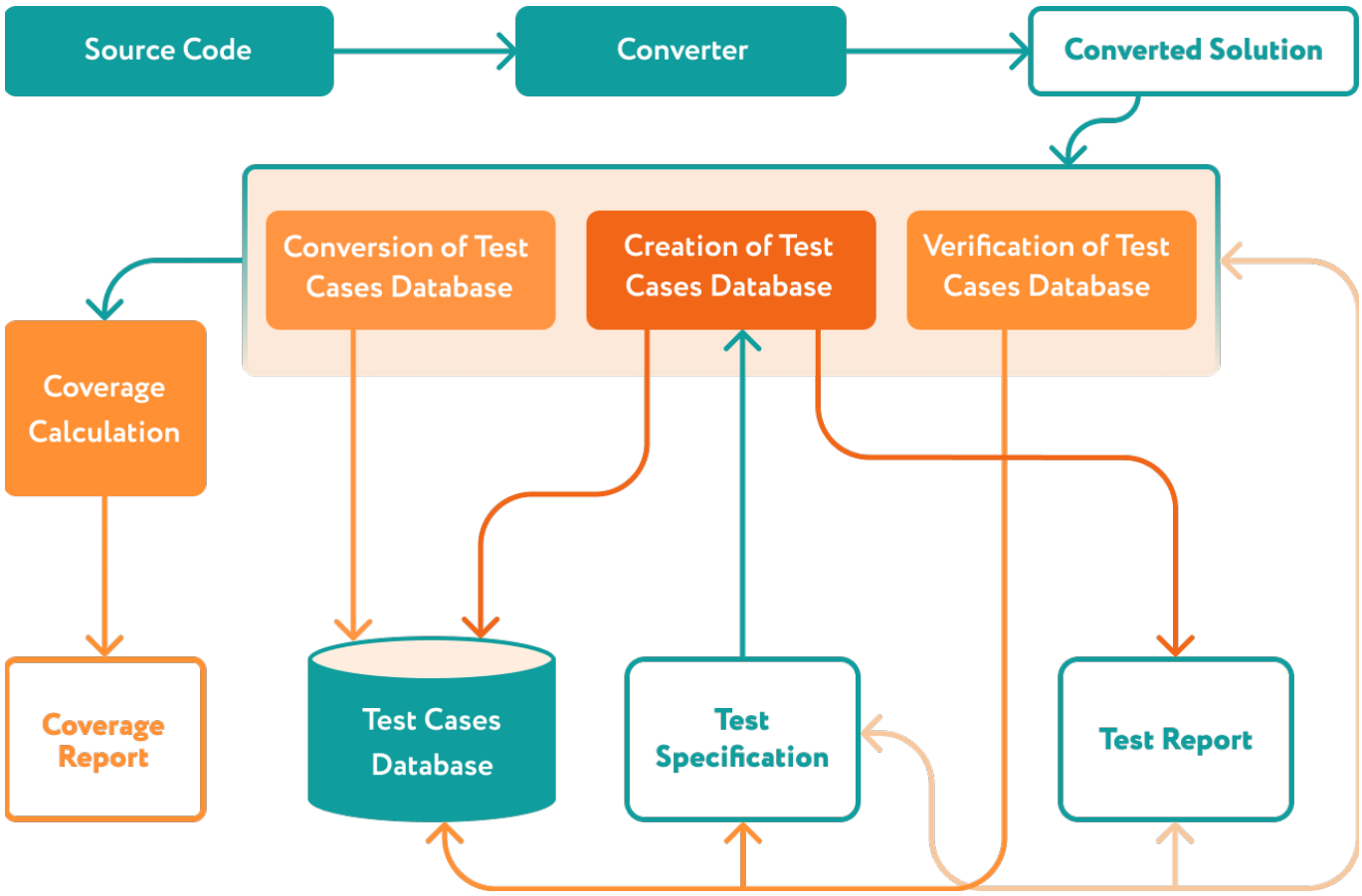
Project objective

Development of updates for the set of proprietary tools used for Unit Testing of application code for the wayside interlocking controller. These updates would accelerate validation processes for interlocking solutions while saving money.



Result

The delivered updates for the custom testing tool allowed to optimize testing activities for the updated interlocking applications while saving about 25% of time. The new version of the tool is bug-free, user-friendly, and complemented by new functions.

Scope of work

- Elimination of issues related to converting files with interlocking logic. Provision of clear tracking of line-to-line conversion
- GUI enhancement. Migration to a modern platform allowed for enhanced usability of the tool for testing teams
- Functionality enhancements. Adding max() and min() functions; num_cast(), bool_cast() functions; and bit.copy, num.copy functions
- Creation of installation package for the tool
- Creation of macros for Databases and Software Unit Test Specification validation
- Renewal of the tools versions used in Unit testing projects
- Provision of availability of testing reports with code coverage to be used for certification
- Updates for the user manual

Activities

- Software architecture and design development
- Implementation of GUI
- Updating Perl script
- Implementation of Instillation package
- Update of the existing solution to support new features
- Bug fixing

About the project

Technologies

- Rational PureCoverage
- VB
- Perl
- SVN
- WIX
- MS VS 2012
- C#
- .NET 4.5
- MS Access 2016
- .Net MVC

Project size

- 2 people

Duration

3 months

Platform

- Windows