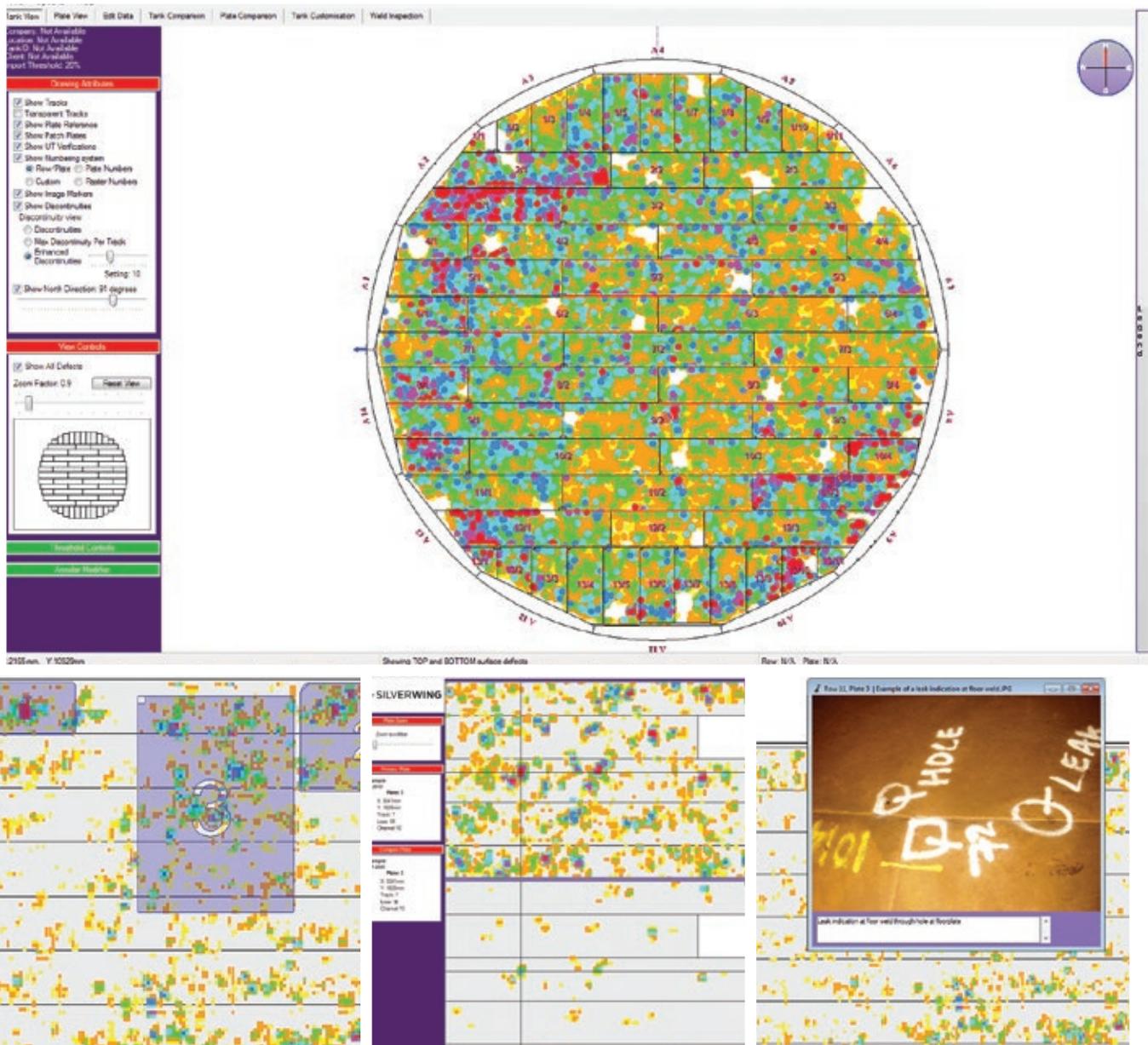
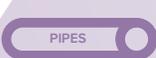


# SIMS

## Silverwing Inspection Mapping Software



- > FULL TANK FLOOR ANALYSIS
- > AUTOMATIC CAD LAYOUT OF FLOOR PLATE
- > PATCH PLATE DESIGN TO API REQUIREMENTS
- > EXTENSIVE REPORT PRINTING OPTIONS



# SIMS

## SILVERWING INSPECTION MAPPING SOFTWARE

Silverwing Inspection Mapping Software (SIMS) reporting suite provides the most powerful and efficient means to create high quality reports on tank condition, and archiving of inspection results for traceability.

SIMS imports data from the Floormap3D or FloormapVS2i and automatically positions each of the separate plate files together to produce a CAD drawing of the entire tank floor showing the location and severity of all corrosion over 20% loss or specified value.

### KEY FEATURES

- > Displays complete tank floor inspection data
- > Automatic CAD layout when used with Floormap systems
- > CAD layout tool for manual recording
- > Measurement tools for sizing areas of corrosion
- > Patch plate design tool ( includes API standardized plates)
- > Incorporate Manual MFL, Vacuum box, MT, UT test results as well as visual observations
- > Top/Bottom defect views
- > Comparison of historic inspections
- > UT prove up lists and data recording
- > Free viewer for report distribution

### ADDITIONAL INSPECTION DATA

A unique feature of SIMS is the ability to add results from other inspections carried out on the tank floor. Results from visual, ultrasonic, Handscan, MFL and even weld inspections can be added to the SIMS report to produce a complete 'fingerprint' of the tank floor condition.

Digital images taken during the inspection can be added to the tank data and linked to specific areas of the tank floor to add a further level of detail into the report.

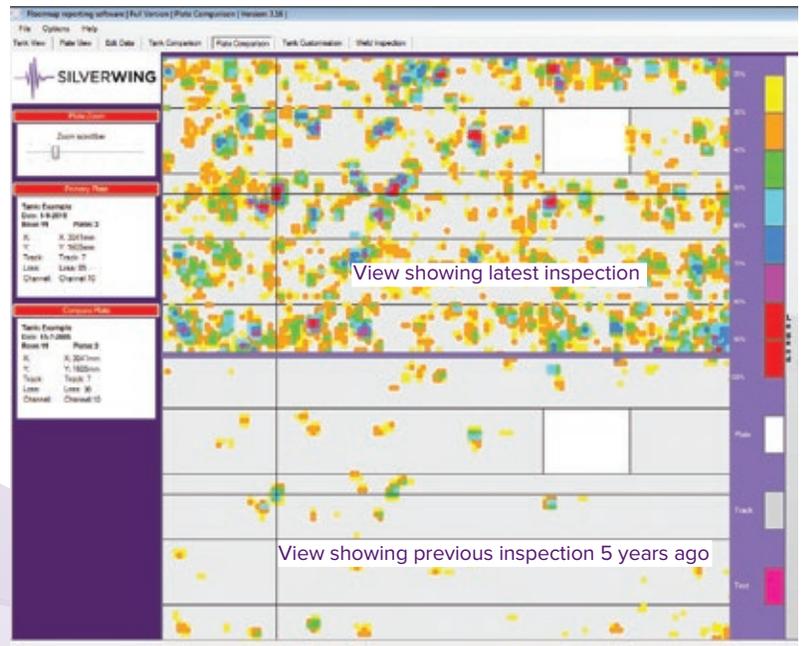


PLATE COMPARISON VIEW

## ASSOCIATED EQUIPMENT

### FLOORMAP3D

Advanced MFL floor scanner with STARS top & bottom defect discrimination



### HANDSCAN

Small manual MFL corrosion detection system for areas inaccessible by Floormap, tank shell, and small vessels.



### MFL2000

Corrosion screening magnetic flux leakage floor scanner when used with tank builder feature



## TANK CONDITION ANALYSIS

Corrosion can be displayed as individual colored pixels to provide precise information on the condition of specific areas of the tank floor. Alternatively the plates can be colored according to the maximum corrosion detected on each track to provide an overview of the general condition of the tank.

A 'Plate View' allows the operator to view tank inspection data in more detail. The precise position and estimated percentage loss of individual corrosion indications can be displayed by holding the cursor over a specific point on the plate.

Tank Data imported from the Floormap3D has been further enhanced allowing the location of all top surface / bottom surface / combined corrosion to be available at a press of a button.

## REPORTING TOOLS

To complement the powerful reporting features, SIMS includes several tools to aid decision makers while evaluating the inspection data.

A repair plate tool is seamlessly integrated into the software allowing the user to quickly design patch plate locations. Once all patch plates have been entered, the software will automatically produce a cutting list showing the total amount of material required to repair the tank.

An innovative feature of the software is the data comparison tool, allowing the user to overlay two separate sets of tank data recorded on different dates and provide a direct comparison of corrosion growth at either the tank or plate level and assess as part of RLA/ RBI program.

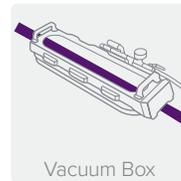
The comprehensive and easy to use SIMS reporting and analysis tools are further enhanced with statistical displays and a comprehensive and customizable report printing tool.

## THE SILVERWING SYSTEM

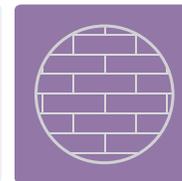
Silverwing produce a full range of equipment for corrosion inspection of storage tanks, including floor plate, wall and roof structures. The product range includes MFL mapping and manual systems, ultrasonic crawlers for thickness measurement, and vacuum boxes for weld inspection. By supplying a complete range we can offer unrivalled support, and ensure the highest quality inspection in the most efficient way. All our products are field proven by our in house teams and used by the most respected global inspection companies. For a complete overview contact our technical sales team.



Floormap3D



Vacuum Box



Handscan



Ultrasonics



Scorpion

For more information on Silverwing Systems please visit our web site: [www.silverwingndt.com](http://www.silverwingndt.com)



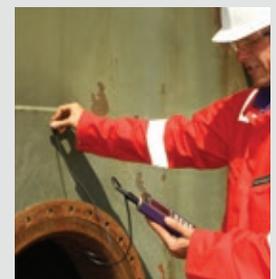
### VACUUM BOX

Bubble Leak Testing of both lap welds and shell to annular weld areas, with the latest models incorporating LED lighting and calibrated vacuum gages.



### ULTRASONICS

Other general ultrasonic and MPI inspection



## SOFTWARE FEATURES

Automatic CAD drawing

Combined defect profiling and amplitude analysis

Top / bottom / both defect view

Patch plate design feature as per API 653 requirements

Defect verification list generation

Annular configuration in wizard

Hard copy and electronic report function

View corrosion as - discontinuity view, maximum discontinuity view per track or enhanced discontinuity

Customize plate numbering

Load previous inspection data for comparison

Add additional tank auxiliaries - man-way, sump, pipes

UT prove up list and data recording

Add data from visual, UT, vacuum box and MPI Inspection

## COMPUTER REQUIREMENTS

Microsoft® Vista, Windows® 7, Windows® 8 32bit or 64bit operating system

Min 2 GHz Intel or AMD processor, 32-bit (x86) or 64-bit (x64) capable CPU.

NVIDIA GeForce with minimum 256 MB RAM or ATI Radeon with minimum 256 MB RAM

1024 x 768 display resolution (1440 x 900 or higher recommended)

4GB RAM (6GB recommended for 64-bit)

Microsoft .NET framework (supplied)

Microsoft DirectX9 (supplied)

Microsoft XNA framework (supplied)

100MB Hard disk space for installation, recommended 500GB for storage of tank data

Windows compatible mouse & keyboard

High speed USB flash drive

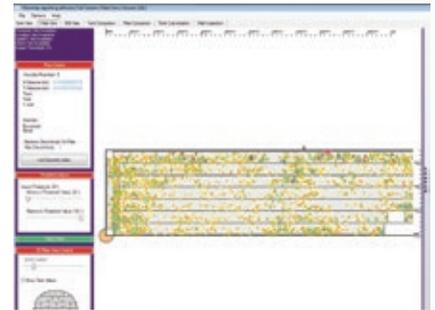
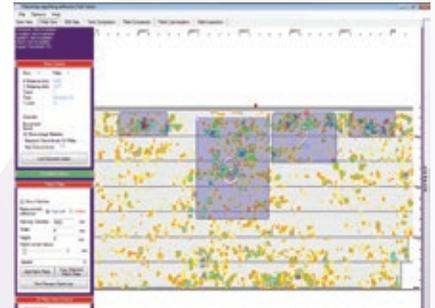
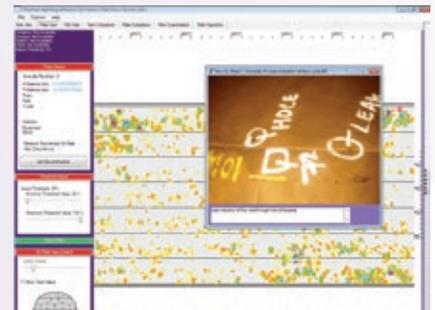


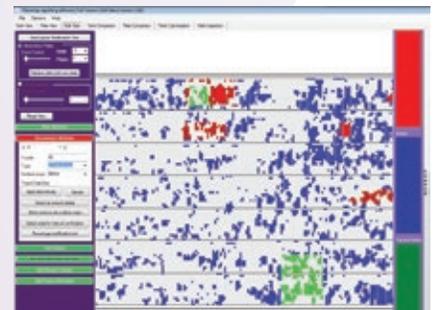
PLATE VIEW



PATCH PLATE DESIGN



ATTACH PHOTO



TOP AND BOTTOM DEFECTS

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