

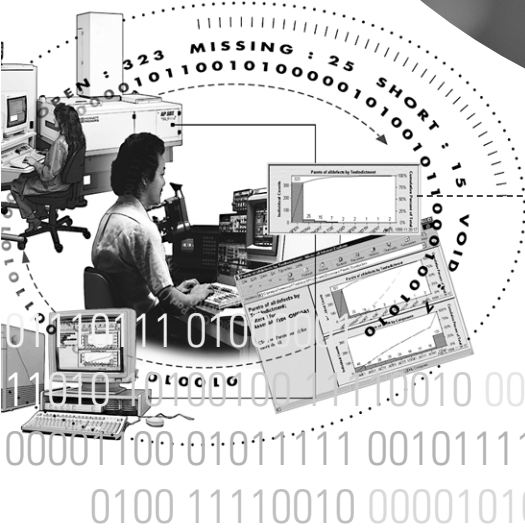
profile



PROCESS CONTROL

begins with DATA CONTROL,
which begins with **Agilent**

TestWise SPC software.



The Agilent Technologies Intelligent Test strategy includes world-class Agilent measurement systems, Agilent TestWise solutions, and Agilent AwareTest solutions that allow different systems to complement each other, talk to each other, and work synergistically. It's an intelligent approach to manufacturing test, uniting people, systems and technologies in a single integrated effort.



Agilent Technologies

Innovating the HP Way

Open Platform Technology

The Agilent TestWise SPC software architecture provides open platform technologies that support two communication modes: test and inspection data can flow to your applications via a Microsoft® COM-based interface, or the data can be imported to a Microsoft Access® database, where it's accessible from any Microsoft Access-compatible quality application.

- The Agilent TestWise SPC COM-based interface allows program-level access between multiple Agilent 5DX X-ray inspection systems and Agilent 5DX PLR (paperless repair) stations and your existing quality applications. Even your proprietary in-house applications can have access to real-time, relevant data from Agilent 5DX test systems.
- The Agilent TestWise SPC Microsoft Access interface allows defect data from up to four Agilent 5DX systems and eight Agilent 5DX PLR stations to be sent to any Microsoft Access-compatible quality application. A published schema of Agilent 5DX defect data and PLR results data ensures straightforward integration. It also ensures that your in-house applications are protected: your applications will keep working as the Agilent TestWise SPC schema is enhanced.

A graphical user interface makes it easy to access the precise data you need from your Agilent 5DX systems. With Agilent TestWise SPC software, the window is open, so you can feed test and inspection data into your existing in-house quality applications or commercially available statistical packages for real-time SPC or SQC analysis.

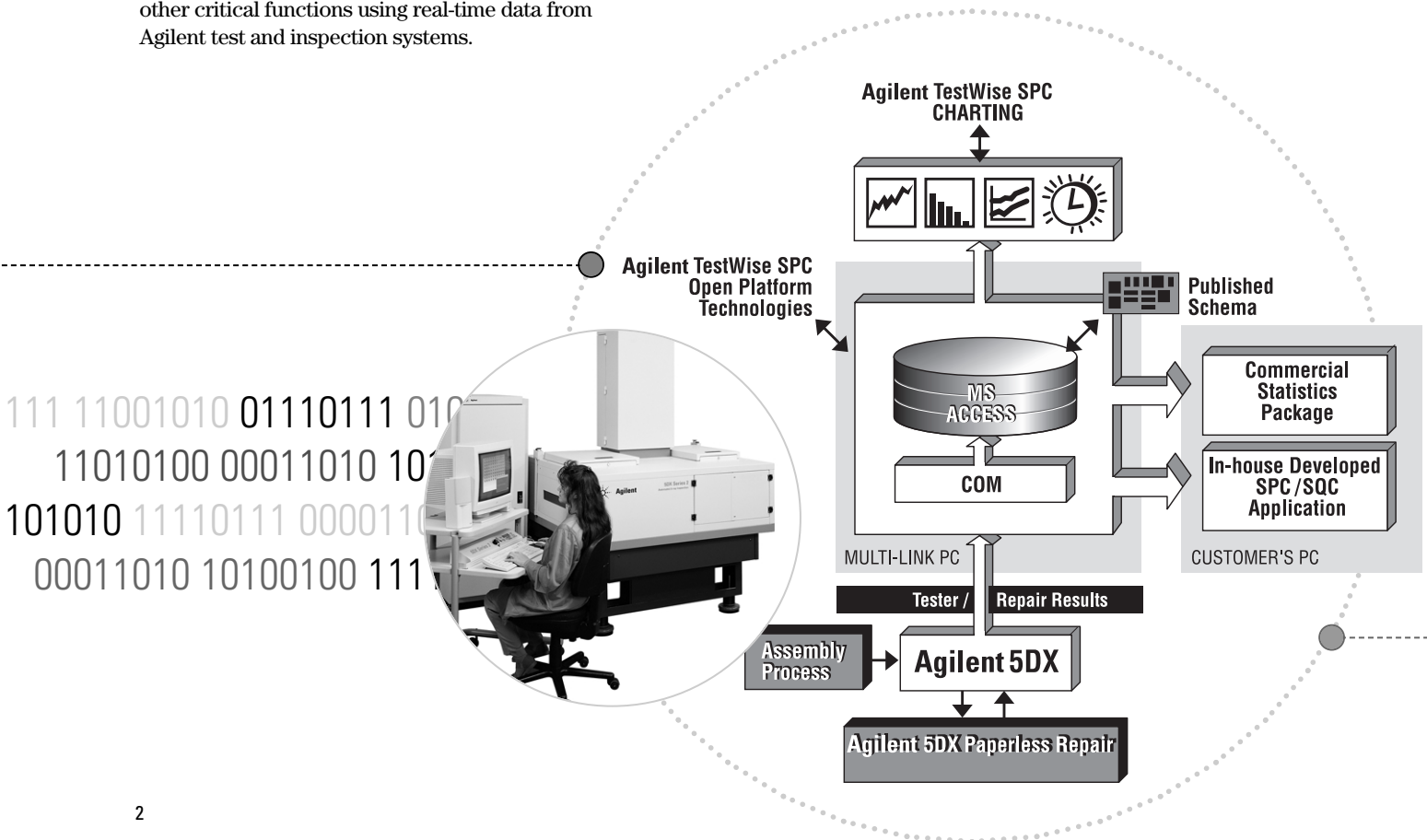
Your Data, Under Your Control

Agilent TestWise solutions create pathways for connecting Agilent test and inspection systems to the rest of your enterprise, so test data can be used for its intended purpose: to improve product quality, increase first-pass yields, and ship better products faster. The Agilent TestWise strategy makes it possible; Agilent TestWise SPC software makes it happen.

Agilent TestWise SPC software integrates two primary features that allow you to control, share and apply the valuable data you collect with Agilent test systems.

- Open platform technology assures that any quality application—whether commercial, custom or proprietary—can accept data from Agilent testers and repair stations.
- A built-in charting tool provides basic SPC (statistical process control) and SQC (statistical quality control) charting capabilities.

Agilent TestWise SPC software puts relevant test data to work. Whether you use the built-in charting tool or send data to your existing quality applications, you can now perform trend analysis, fault diagnosis, process tuning and other critical functions using real-time data from Agilent test and inspection systems.



Quick-Start SPC

Agilent TestWise SPC software includes an SPC charting tool with basic, quick-start functionality for statistical process control.* The charting tool is designed for simplicity: SPC charts using real-time tester data can be up and running in about a day.

- The charting software accepts results data from up to four Agilent 5DX testers and eight Agilent 5DX paperless repair stations.
- The charting tool receives data through the Microsoft Access database, so data can be filtered according to any criteria—you get the exact information you need for the supported chart types.
- Queries have been pre-written for the most commonly used SQC charts, so you can generate charts from within Agilent TestWise SPC, without using Microsoft Access.
- Custom charts can be created for your specific needs—just write Microsoft Access queries to select the data you need.
- Pareto charts using defect data from the Agilent 5DX can be analyzed by line, tester, assembly ID, component ID, pin, joint type, fault type, repair status, or other data types you add to your query.
- Bar charts using yield percentages from the Agilent 5DX can be grouped by line, tester, assembly ID, time, or other data types you add to your query.
- Paretos, yield and ppm charts can display information for “raw” data (before repair) and “real” data (after repair where false calls have been filtered). Paretos limited to false calls are also supported.
- Both snapshots and real-time automatically updated views are available.
- An online manual includes a tutorial covering Pareto, yield and ppm charts with sample databases.

Web-Enabled Charting

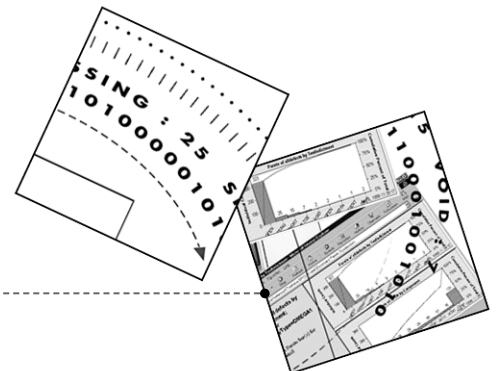
The Agilent TestWise SPC charting tool is designed for simplicity, whether you use it over the LAN, WAN or web.

- Charts can be displayed in a browser for remote viewing, and shared via web pages over a local-area network (LAN) or wide-area network (WAN) for distributed engineering.
- User-specified, user-controlled chart URLs allow charts to be made available on a web server.
- Agilent TestWise SPC supports Netscape® Communicator® 4.5 or later, and Microsoft Internet Explorer® 4.0 or later on Windows® 95®/NT® PCs.

Real-Time Control

Agilent TestWise SPC software improves first-pass yields by providing real-time access to tester data. Now you can track defects in real time, diagnose problems quickly, and take action if your manufacturing processes begin to drift outside predefined limits. Instead of relying on averages, trends, projections or field failure reports, you can now use actual test results as soon as they become available. You'll keep good boards flowing down the line, and see fewer bottlenecks and less rework in downstream test cells.

- **Real-Time Alarms**—Agilent TestWise SPC software allows you to monitor your assembly processes in real-time. Using ppm (parts per million) defect data from the Agilent 5DX, Agilent TestWise SPC software can be programmed to generate a graphical alert that is displayed on the PPM chart, notifying you if production line readings begin to drift outside three sigma control limits. The control limits can be calculated automatically or user-defined. Either way, you catch problems early and avoid an excessive build-up of work-in-process in your repair loop.
- **X-Ray Inspection**—Using data from the Agilent 5DX X-ray inspection system, Agilent TestWise SPC software allows you to verify not just the presence but the quality of solder connections. Marginal joints—those that will pass in-circuit and functional test but are likely to fail in the field—can be identified, tracked and corrected using Agilent TestWise SPC software. You can make real-time adjustments to your processes, so the products you ship meet your customers' high quality expectations.



* Charting and querying capabilities are not supported across multiple servers.

For more information about Agilent Technologies products and solutions in electronics manufacturing, visit our web-site:

<http://www.agilent.com/go/manufacturing>.

To learn about other Agilent test and measurement products, applications and services, or for a current sales office listing, visit our website:

<http://www.agilent.com/find/tmdir>. You can also contact one of the following centers and ask for a test and measurement sales representative.

The POWER OF INFORMATION

Intelligently Applied

As part of the Agilent Intelligent Test strategy, Agilent TestWise SPC software provides access to the data flowing from your Agilent test systems, so you can control it, use it, and apply it in real time. To learn how this and other Agilent tools can improve your products and processes, call Agilent Technologies or go online today.



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A dedicated standalone Agilent multilink workstation is required for each copy of Agilent TestWise SPC software. Right-to-copy licenses are available on a site basis and also require an Agilent multilink workstation.

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