

RDS 2.0 | WIN 2.0 Software

Innovative Enhancement to a Trusted System

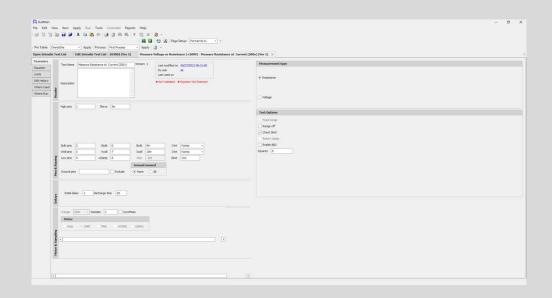


Changed Parametric Test



Productivity

- System responsibility becomes a part-time job
- Speed w/ Quality
- Field-proven algorithms
- Optimized test conditions
- Microsecond communications
- Full Test Suite
- Characterize, test, report, and graph



Data Driven Test Environment





Features of WIN 2.0

- Allows multiple test plans to be open simultaneously
- Utilizes tabs within the software for side-by-side viewing
- Setting up devices in clearly defined, tiered lists
- File-based operating system is replaced with SQL database
- Everything is stored in the database
- Manage multiple tests in a test list in a single, named list, that is easily accessible
- Variable privileges

 (operators, engineers, techs, admin)

	FARMON MINISTER ()	· IRREGATE RETTERN CONTRACTOR CON
tanto (M) (M) (M) (M) (M) (M) (M)	below (II) on wheel (III) an above colors p.p.0 Not to the second of the	Section Sect
	Description	The
	Interest of Section 1. Charten MARK Ann Albert Chart Charten C	THE SEC. NO. 100 TO SEC. NO. 1



Database Management



All crucial information is securely stored in the database, allowing for easy access and efficient management.

ACQUIRE

Operator Interface, Material

- Test conditions, results, and probe patterns
- Library of products and processes
- Multiple version control
- Release of single production version
- Data grouped by device, process, and step
- Test same wafer lot multiple times
- Process and device controlled

BUILD Test Plans, Devices, Probe Patterns, Process Limits, etc. **SQL** Database Data Acquisition, Handling, etc. REEDHOLM

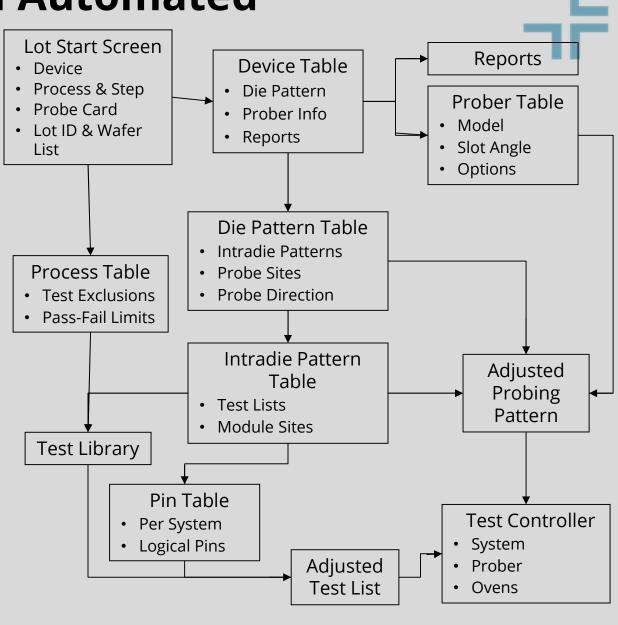
Complete and Automated

One Step Operation

- A few answers by operator on lot start screen results in dozens of records being queried, combined, and altered from database and sent to test controller
- Complex test plans and probing patterns are seamlessly changed for test system and probe station configurations

Reduce Mistakes

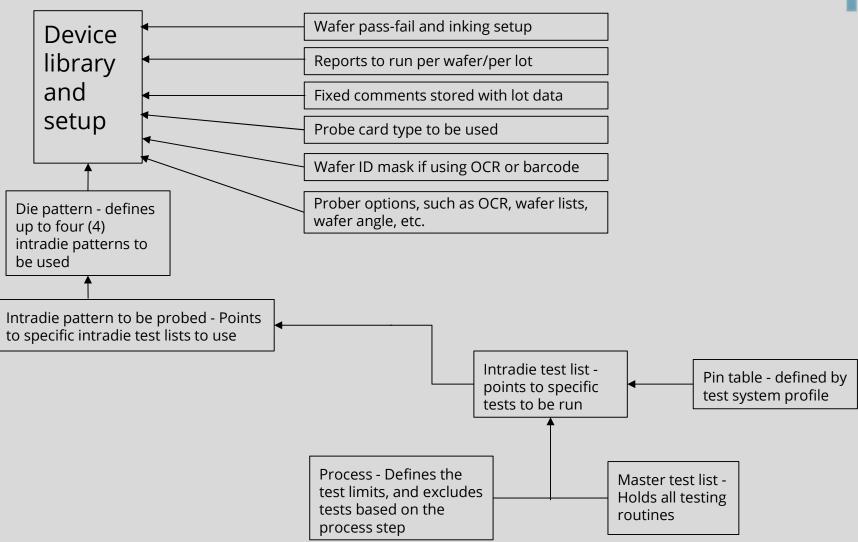
- Unique language interface available per user/operator
- Same test plans and probe patterns can be executed on a multitude of configurations, devices, processes, and process steps



REEDHOLM

Test Plan Hierarchy





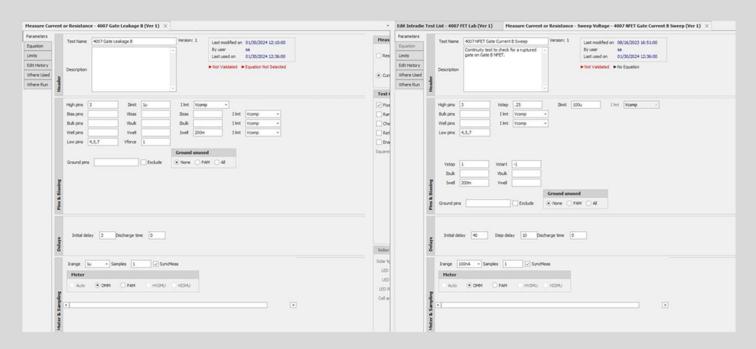


Test Plan Creation



WIN 2.0 contains an expansive list of test templates that cover bipolar, depletion FET, and enhancement FET devices implemented on GaAs, GaN, Si, and SiC materials. The test engine has capabilities such as:

- Prober driver and probe site editor
- Lot reports and test data exporting
- Version control of test library and devices
- Test routine code documentation
- Test conditions (Pins, voltages, etc.)
- System manuals and training guides





Simply Build Tests



In the Build application, you have access to all the essential tools required to create the optimal environment for your test system.

Device Setup

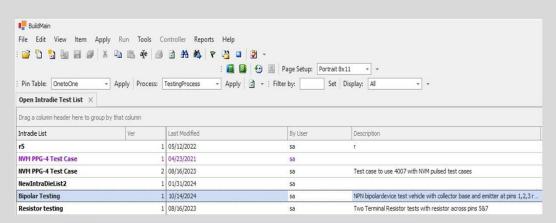
You can set up all of your parameters for testing in Build. This includes:

- Die and intradie patterns
- Intradie tests and test lists
- Device parameters (pass/fail setup, report options, processes and process steps)
- Probing setup and probe card setup
- · Tester profile configuration

Diagnostic Tools

There are several diagnostic tools to keep the system healthy, efficient, and accurate:

- · Main Diagnostics for ensuring system health
- Self Calibration to ensure module accuracy
- Prober Checkout to make sure connection to prober is established and functioning properly



		1.1	■ ■ ● B P	age Setup: Por	rtrait 8x11 +
ain Diagnostics X	Device Wizard Screen	Test List By Process	Master Test List	Lot Data	Plot Data
✓ DMM/PPS Voltage	✓ DMM/PPS-HVSMU Current		HVSMU Voltage		PPG-4 Voltage/Timing
Pin Leakage	✓ DMN	Node Relay Connect-Disconnect	PAM Current		PAM Pin Relay
✓ CMM Node Relay	and Fuse 🗸 CMN	✓ CMM Capacitance		✓ CMM Repeatability	
Select All	Clear All				
Select All Select Control	Clear All				
Select Control	Clear All				
Select Control Halt testing					
Select Control Halt testing	ever *				
Select Control Halt testing System type St	ever *				



Acquire



Acquire is the program used for testing devices created in Build, as lots. It is primarily an operator tool used to be able to easily access and examine data

- Acquire					×
cquire screen Advanced	Lot				-
Start Standard Wafer Lo	Lot		Select	Lot per wafer	
Setup Information	Device	Version	Select		
Advanced Options	Process		Select		
	Process Step		Select		
	Wafer List		Select		
	# Wafers				
	Prior lot		Select	Clear	
	Prior wafer		Select	All wafers	
	Lot ID A				
	Lot ID B				
	Duplicate wafer:	Overwrite	Skip wafer	O Prompt operator	
	Start at position:	First die	Resume (last intradie)	Resume (1st intradie)	\equiv
	Resume on ab	ort			



What is needed - Deliverables



We provide

- RDS WIN 2.0 Software
- Engineering services (data migration, training)
- Customization Support (specific privileges, additional features, etc.)
- Active developer support (solving bugs, implementing changes, patches)
- DR YIELD graphical display software
- Workshops (done with Reedholm and customer) to determine what, if any, NRE is needed

You Provide

- PC with Windows 10/11
- Microsoft SQL 2019
- MSS Reporting Service



Summary



WIN 2.0 was developed to be a fresh face for the RDS software, as well as improving the quality of life for customers. The important features and changes are:

No lag time

- WIN 2.0 delivers a fast and highly responsive user experience
- Applications run smoothly with minimal latency or slowdowns

Long-term support

- Created for longevity
- Active development team
- Changes and customizations are available, along with workshops, active support, and SW patches

Test Plan Creation

- Comprehensive list of several verified premade test plans
- Accessible options, QOL improvements
- Cursor highlight tooltips
- Creating tests can take as little as 30 seconds
- Ability to run tests in the test editor, as well as curve tracing, results, and descriptive validation checking

IT Security

 WIN 2.0 is up to date with Windows 10/11, as well as any security patches or updates that come along

