

RDS 2.0 | WIN 2.0 Software Upgrade

A fresh upgrade from DOS to a tried and true system



Improvements of WIN 2.0



Pros of DOS

- Stable environment
- Single-tasking
- Programming free

Cons of DOS

- Security issues
- Networking issues
- 8-character file limit
- Q&A walkthrough in making each test
- File-based system
- Tests are used and edited in multiple instances

WIN 2.0 gives the best of both

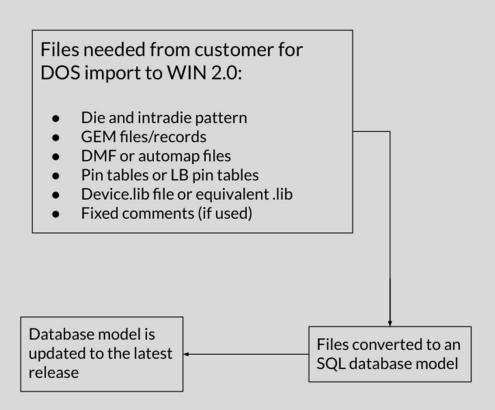
- Stable environment
- Programming-free usage
- Security and networking issues resolved
- No 8-character file limit
- Open multiple test plans at the same time

- Tabs within the software with the possibility to open them side-by-side
- Easy device setup in clearly defined, tiered lists
- SQL database replaces file-based system everything is stored in the database
- Manage multiple tests in a single, named list, easily accessible
- Variable privileges (operators, engineers, techs, admin)

DOS to WIN 2.0 migration



- Batch-based import process, takes files from DOS, and converts them into RDS
 Intranet-friendly file extensions, groups devices by notch/flat alignment
- Test procedures are not changed. Tests do not need to be requalified; the only thing that changes is how the tests are saved
- This can be contracted to Reedholm as part of the upgrade project, minimizing downtime for customers and their systems





Database Management



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

ACQUIRE

acquisition,

etc.

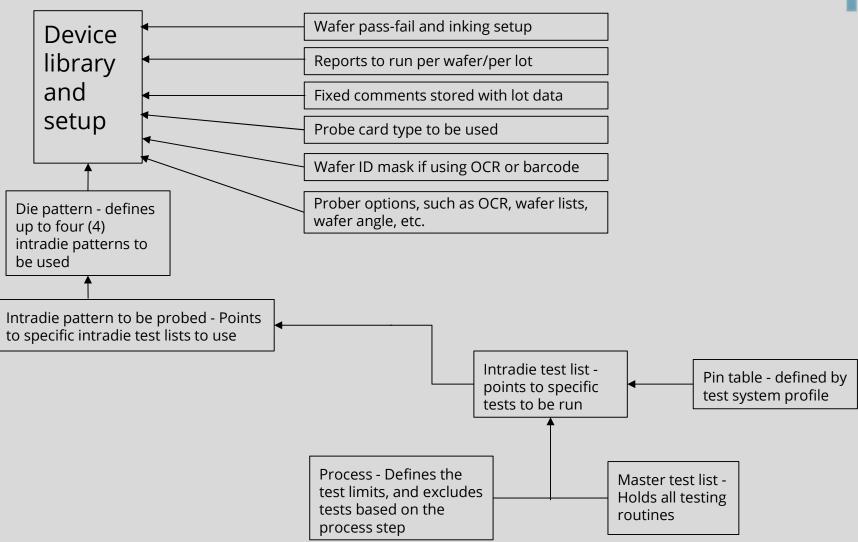
Everything in Database

- 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 Create test plans, devices, probe patterns, process limits, etc. **SQL** Database Running tests, data operator interface, material handling, REEDHOLM

Test Plan Hierarchy





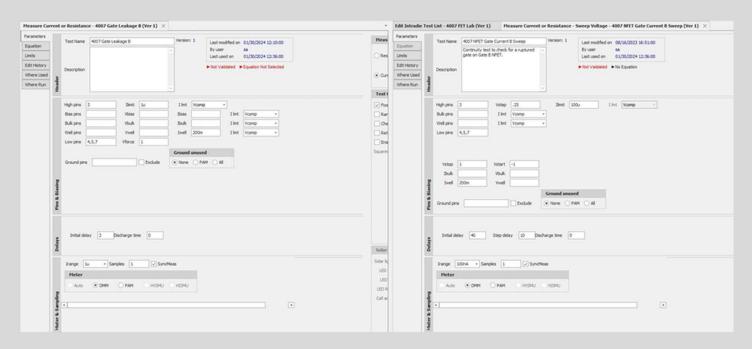


Test Plan Creation



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

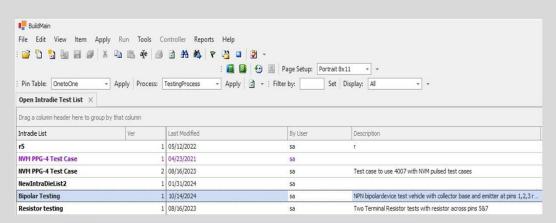
You can set up all of your parameters for testing in Build. This includes:

- 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



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	Device Wizard Screen	Test List By Process	Master Test List	Lot Data	Plot Data
✓ DMM/PPS Voltage	[✓] DMM	I/PPS-HVSMU Current	HVSMU Voltage		PPG-4 Voltage/Timing
Pin Leakage	✓ DMM	Node Relay Connect-Disconnect	PAM Current		PAM Pin Relay
✓ CMM Node Relay a	nd Fuse	Capacitance	✓ CMM Repeatability		
Select All	Clear All				
Select All Select Control	Clear All				
Select Control Halt testing Ne					
Select Control Halt testing	ver •				
Select Control Halt testing Ne System type Sta	ver •				



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

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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

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

