RDS 2.0 | WIN 2.0 Software

Innovative Enhancement to a Trusted System

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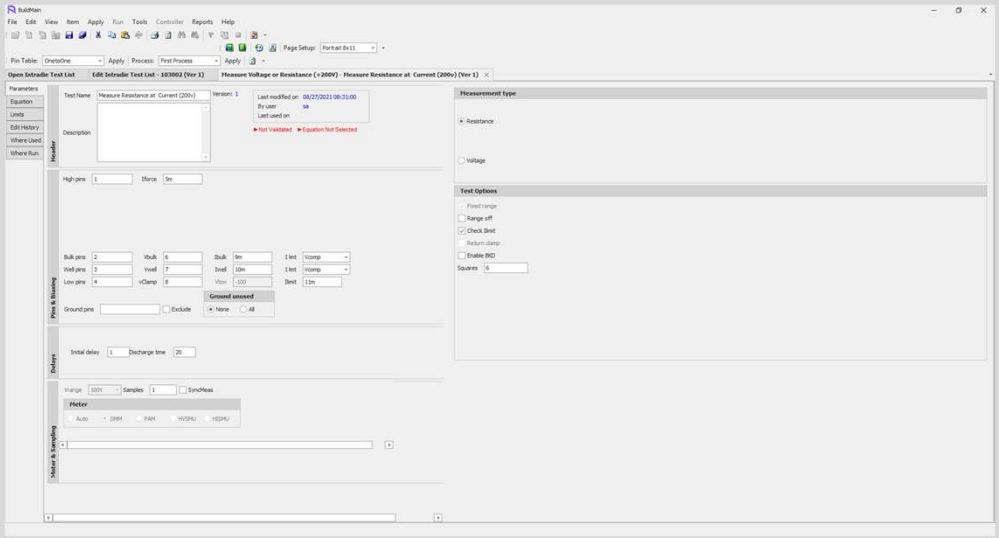
Changed Parametric Test

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

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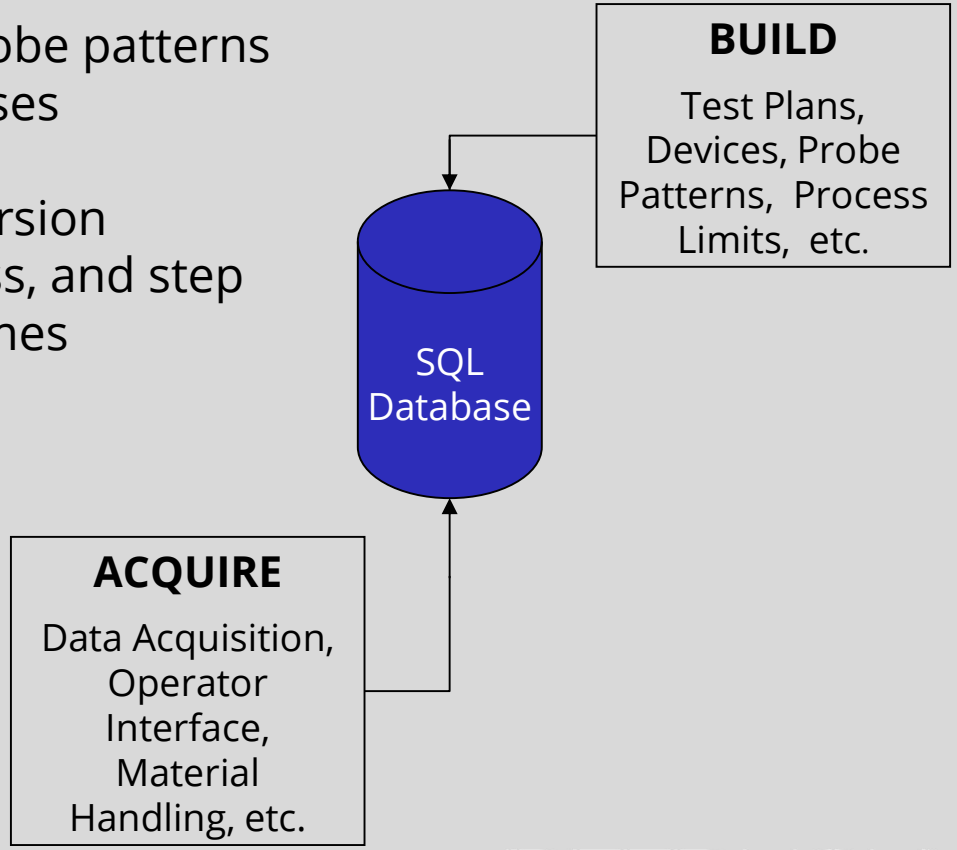
Features of WIN 2.0

- 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)

Database Management

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

- 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



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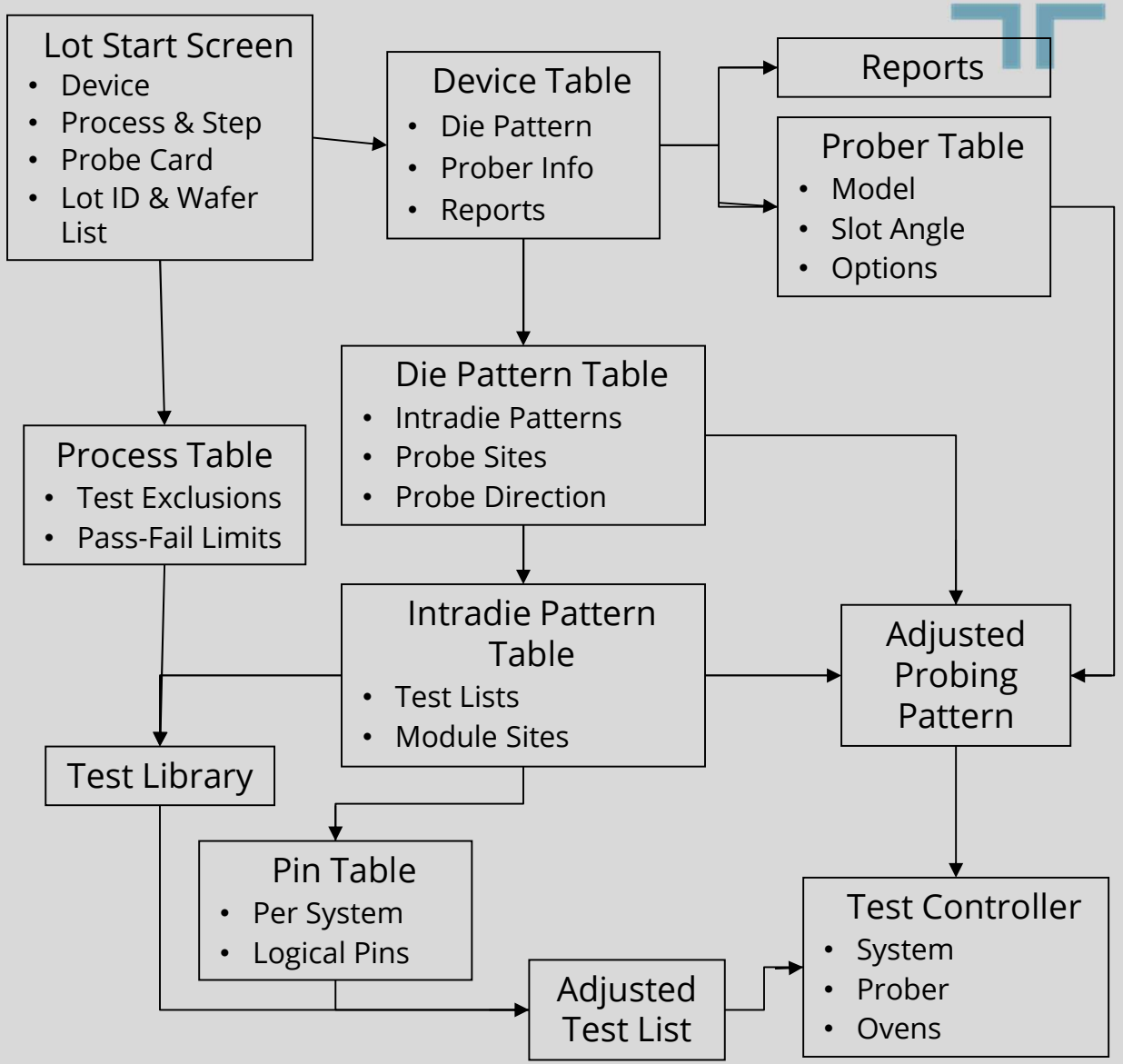
Complete and Automated

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



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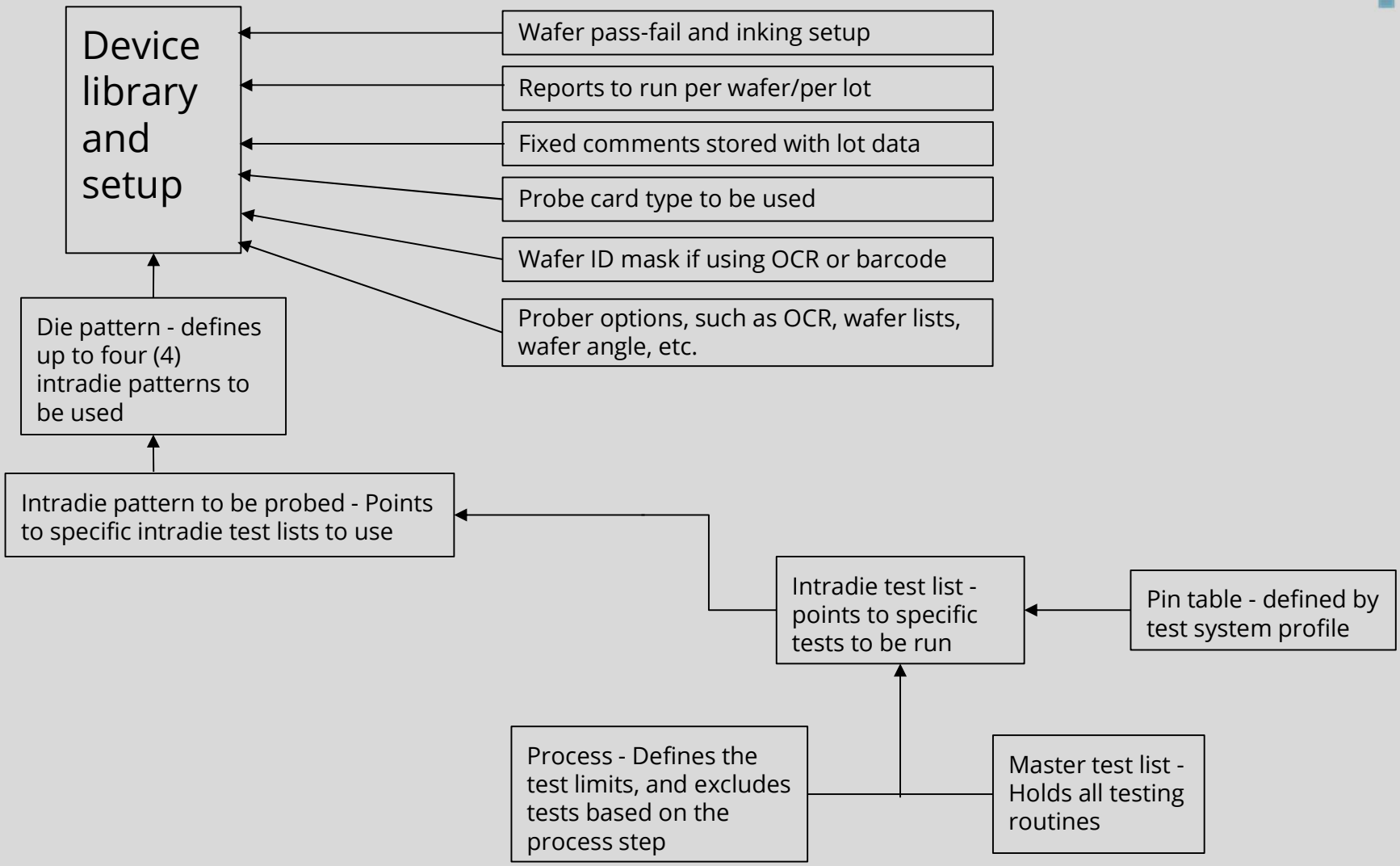
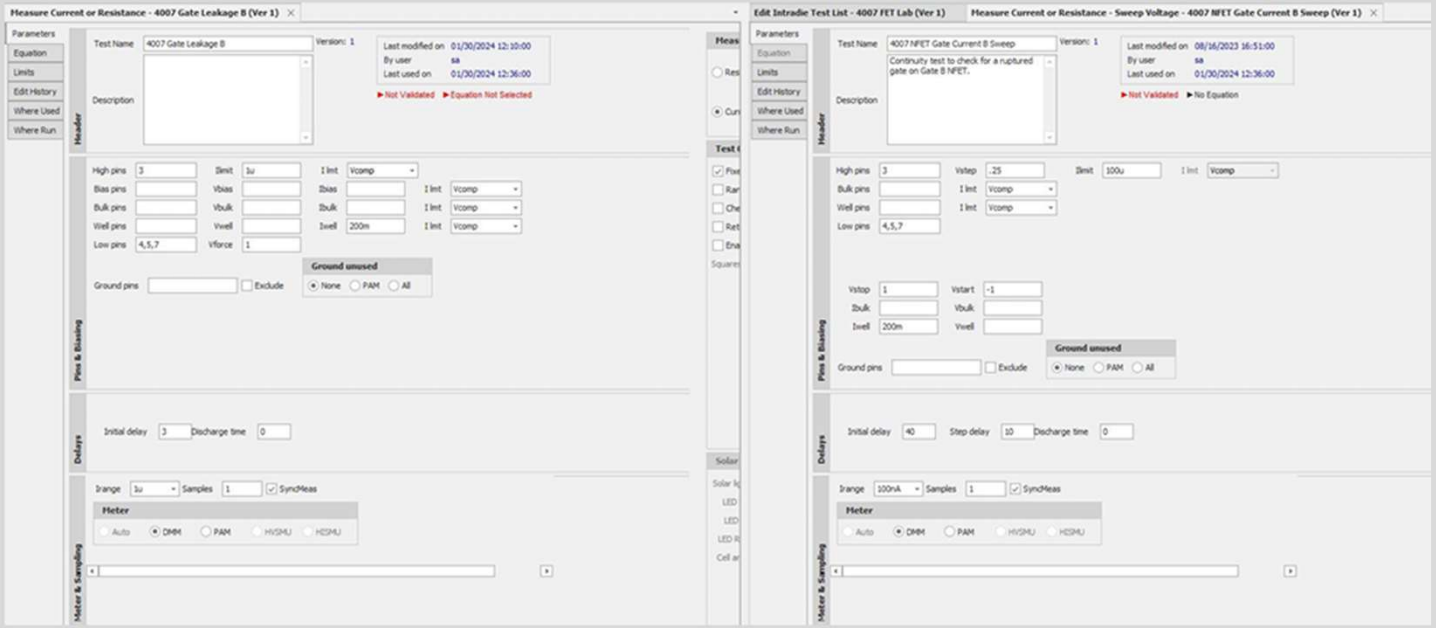
Test Plan Hierarchy



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



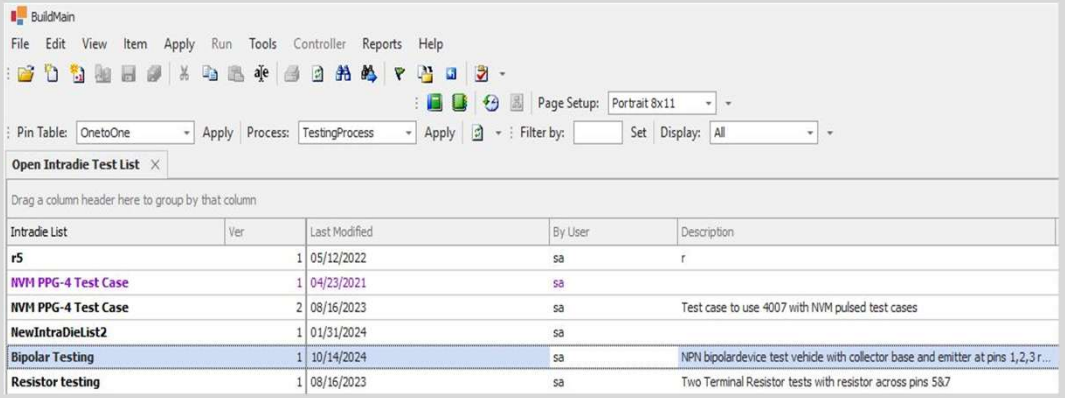
Simply Build Tests

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:

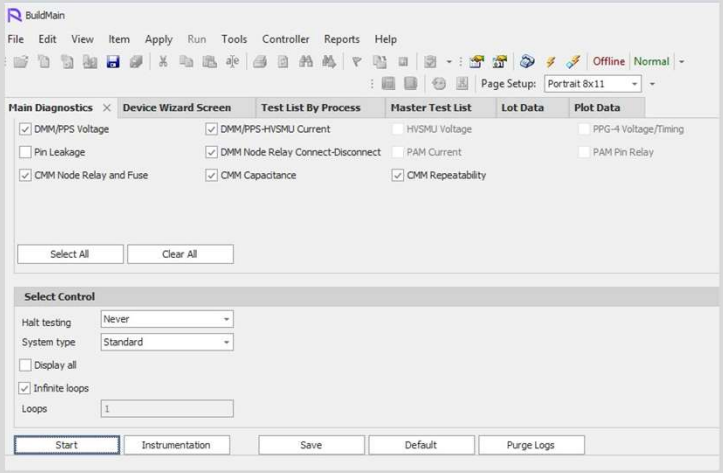
- Die and intradie patterns
- Intradie tests and test lists
- Device parameters (pass/fail setup, report options, processes and process steps)
- Probing setup and probe card setup
- Tester profile configuration



Diagnostic Tools

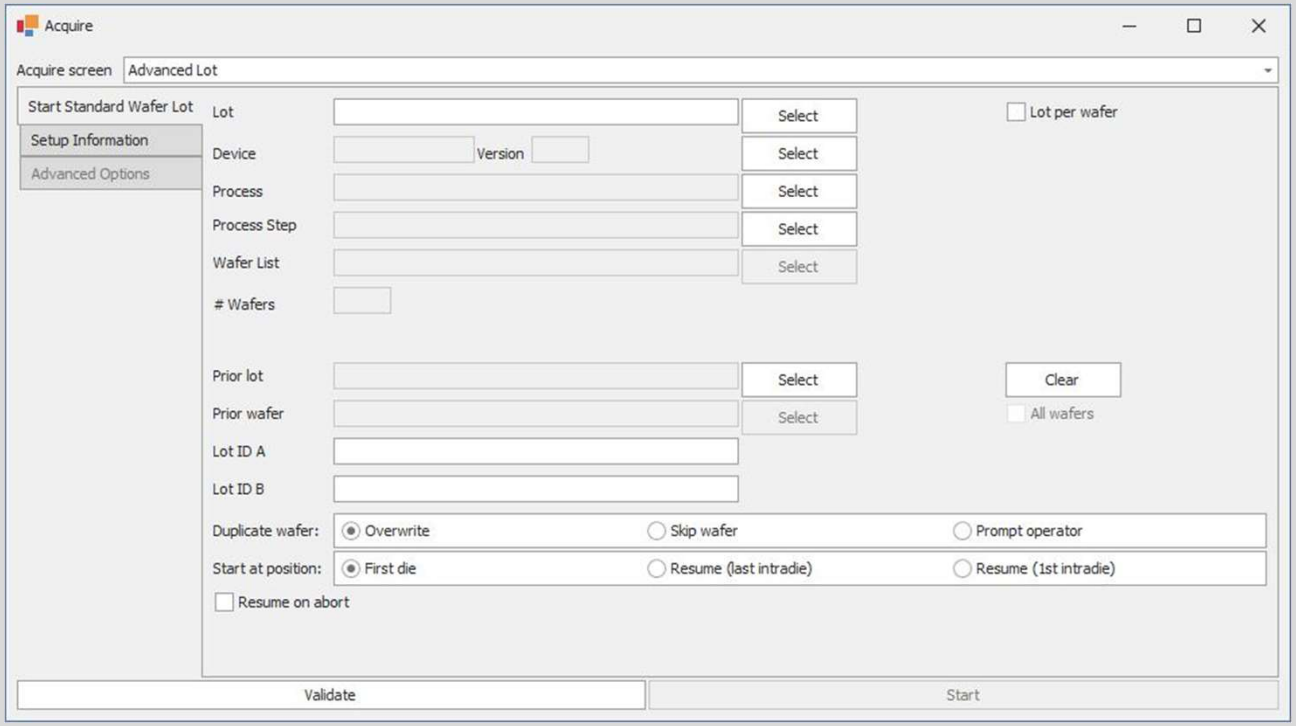
There are several diagnostic tools to keep the system healthy, efficient, and accurate:

- 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



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



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

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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

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