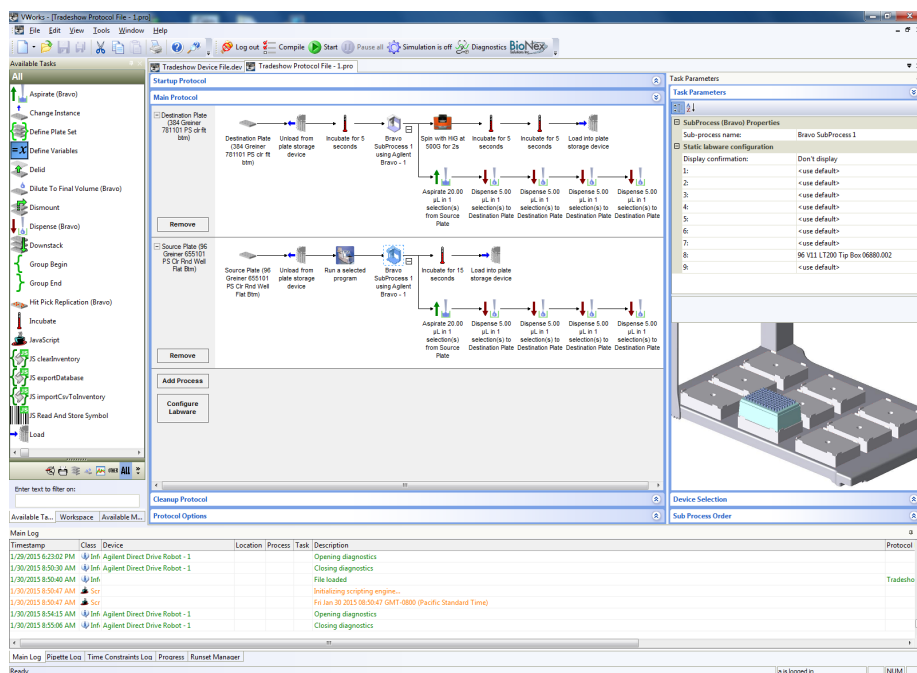


VWorks™ AUTOMATION CONTROL SOFTWARE

- *Flexible and Scalable*
- *Robust*
- *Extensible*
- *Simultaneous Protocol Execution*
- *Data Driven Controls*
- *Event Driven Protocols*
- *True Device Pooling*



VWorks Automation Control Software is a complete and reliable solution for driving the integrated laboratory automation throughout the discovery process.

The VWorks software platform enables research enterprises to integrate a diverse group of devices such as robotics, liquid handlers, readers, washers, and others to deliver a cohesive, integrated system that ensures

maximum throughput and optimal resource utilization. An intuitive and graphical user interface makes it easier for users to create new protocols, connect and configure devices, execute and monitor progress. A single scalable and dynamic software platform in your laboratories means you can reduce training costs and maximize productivity while expanding into a complex network of devices.

Key Features and Benefits

- **Meet Changing Requirements:** Add and configure new devices using any programming language, and communicate with external Laboratory Information Systems (LIMS). Leverage existing, familiar informatics infrastructure. Deploy protocols by using flexible APIs to communicate directly with LIMS for managing barcodes, samples, labware, liquids, users and workflows.
- **Execute Multiple Protocols Simultaneously:** Maximize resource utilization and throughput by running multiple protocols simultaneously. Schedule and start a run while existing protocols are already running or start multiple protocols at a fixed time and date.
- **Remove bottlenecks to improve performance:** Monitor a Gantt Chart for real time status of processes, plate instances, and devices.
- **Maximize walkaway time:** Reduce the number of interruptions and maximize walk-away time. By preloading a default set of errors and responses in the error handling library, a recovery action is automatically performed when an error is encountered during a protocol run.
- **Set time constraints:** Improve performance for time-critical assays by specifying the interval and tolerance between dependent tasks. The software prioritizes the time constraint before proceeding to the next task.
- **Minimize delays:** Use the System State Editor to recover from deadlocks and continue with the run especially in complex protocols. Upon a deadlock, the system automatically captures the state of the run, including the status of devices, location of the labware, and the cause of the error. This information enables the user to rapidly assess and correct the error by physically moving the labware, and editing and resetting the status of devices and labware location for the run to complete successfully.
- **Streamline protocol writing:** Group commonly repeated tasks into Group Macros. Write JavaScript in VWorks protocols intuitively using a pull-down menu of available variables.
- **Data Driven Control:** Leverage automation with a controller that executes protocols based on dynamic data presented in real time. Optimize resource utilization with the ability to conditionally change task behavior at run time providing the flexibility for the same protocol to handle multiple scenarios and enabling real time multiprocessing.
- **Event Driven Protocols:** Reduce lag time and boost throughput by processing plates as soon as both the plates and system resources become available.
- **True Device Pooling:** Increase reliability and walk-away time through intelligent routing of plate processing tasks to appropriate operating devices. With multiple devices of the same type available in a system, the software will automatically use the next available device in case of an error or bottleneck.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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