

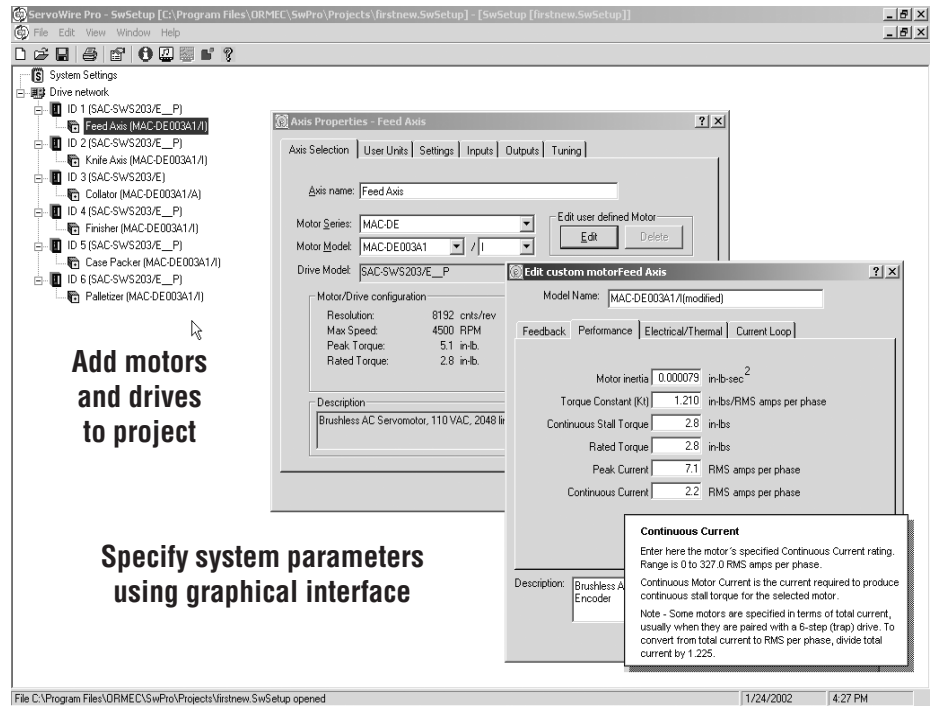
ServoWire Pro provides an integrated suite of configuration, diagnostic and maintenance utilities that assist in the development and on-going support of ServoWire SM drive systems. The software is designed to run on a Windows-based development PC.

### ServoWire® Setup

ServoWire® Setup simplifies the process of configuring ServoWire® SM drives. This includes system settings such as loop update rates, the types of drives that make up the system as well as initial parameter settings.

### Setup Utility Features

- ✓ Configure system parameters such as loop update rate and drive types.
- ✓ Add, remove, copy and paste up to 16 drives onto the ServoWire network.
- ✓ Add motors to the ServoWire drives either by selecting from a pre-defined list of ORMEC products or by selecting from a user-defined library of custom motors.
- ✓ Configure each drive's operating voltage, local I/O and external regen resistor (optional).



- ✓ Configure axis position, velocity and acceleration units and establish the maximum range limits.
- ✓ Configure axis response to drives' high-speed discrete inputs (rising-edge, falling-edge or level).

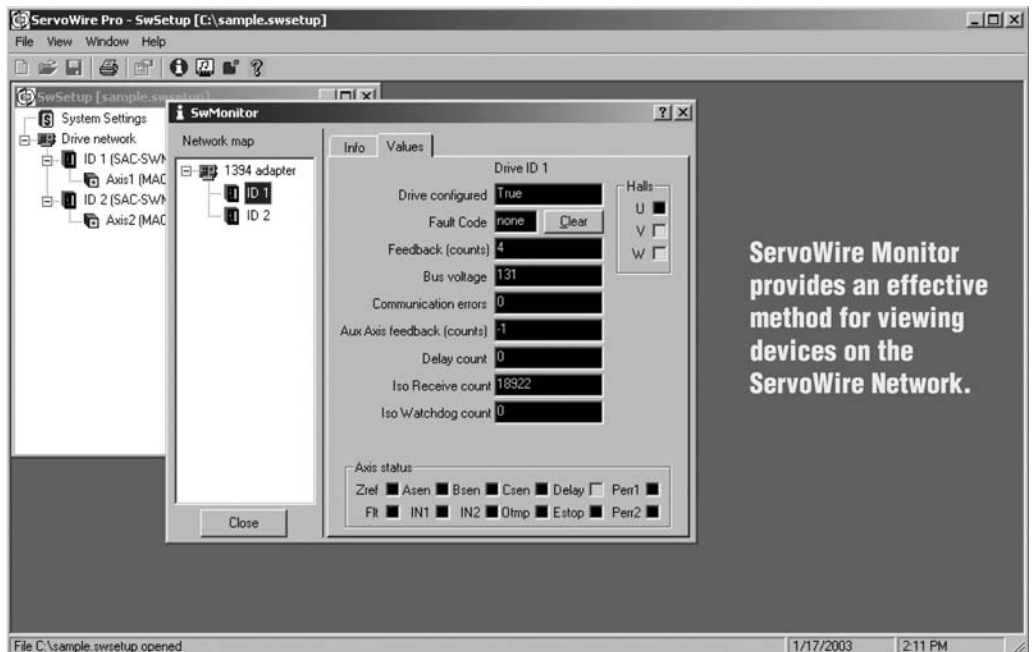
- ✓ Configure axis output for brake control.
- ✓ Establish initial axis tuning parameters for position, velocity and current control loops.

### ServoWire® Monitor

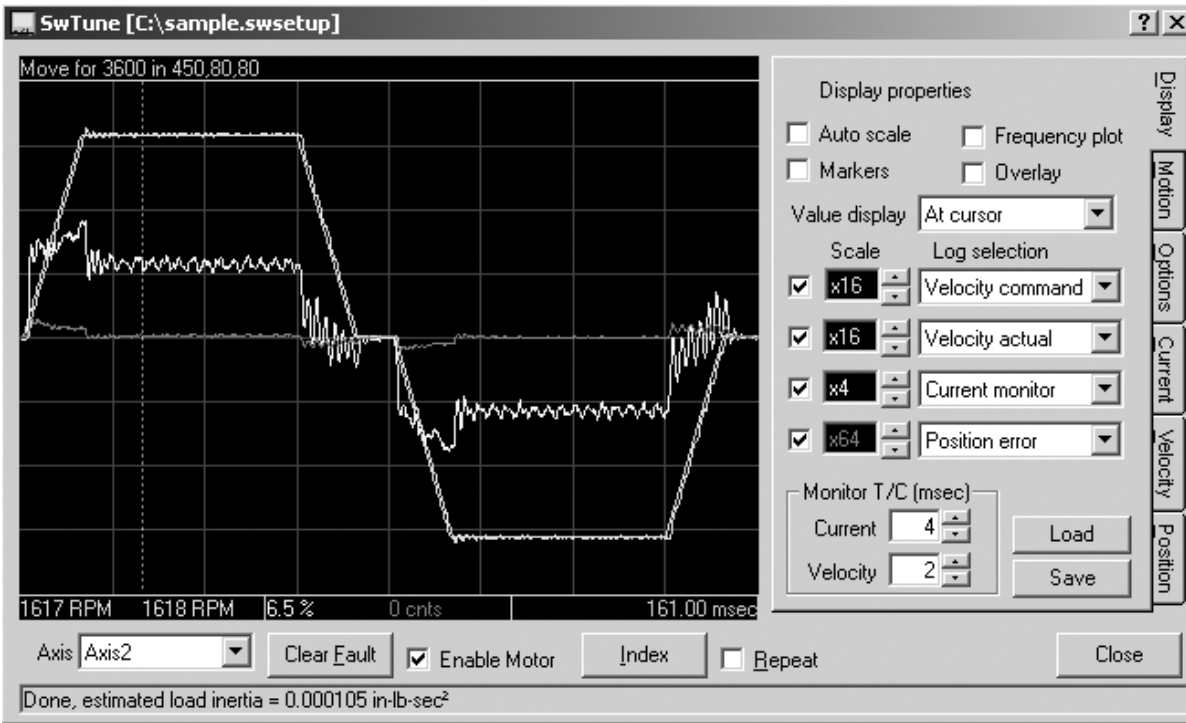
The ServoWire® Monitor provides a way to view devices on the ServoWire® Network. This includes the 1394 Adapter Card in the SMLC and all drives and devices on the 1394 network.

### Monitor Utility Features

- ✓ Displays 1394 Adapter Driver Information.
- ✓ Displays drive model and serial numbers, firmware revisions, hardware revisions and modifications.
- ✓ Provides real-time drive performance information. Data is presented for: drive DC bus, drive fault data, Hall sensor status, drive I/O status, network performance and more.
- ✓ Monitor system data while user application program is running.



**ServoWire Monitor provides an effective method for viewing devices on the ServoWire Network.**



ServoWire Tune allows modification of the control system parameters to provide the proper response to motion profiles specific to your application with a real-time display of position error, velocity command, actual velocity and torque response.

### ServoWire® Tune

ServoWire® Tune provides users software utilities for optimizing motion performance, and documenting tuning parameters for future reference.

#### Tuning Utility Features

- ✓ Perform user-specified motion on a ServoWire axis and graphically display up to four performance parameters.
- ✓ Change tuning parameters for position, velocity and current loops and immediately observe the effects on system performance.

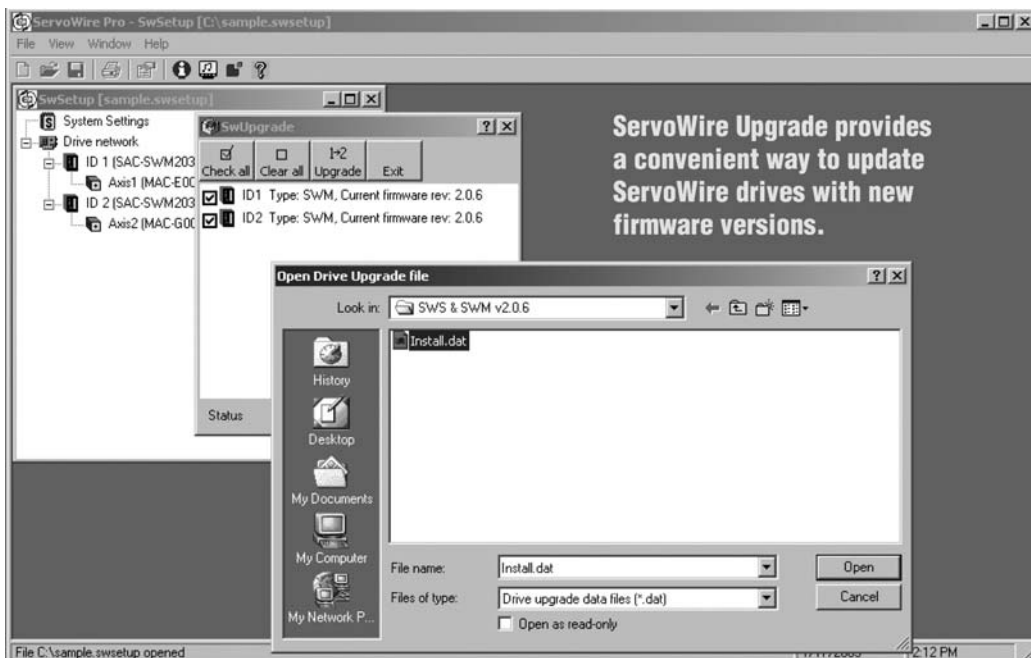
- ✓ Graph data including velocity, torque, position error, drive bus voltage and motor phase currents. Zoom/Pan views allow for precise and thorough examination of the data.
- ✓ Frequency Plot graphing simplifies locating machine resonance frequencies, which can be reduced using Soft Motion's digital filter algorithms.
- ✓ User-friendly interface with ability to save motion and graphing setups. The user can also save and/or retrieve displayed graphical data for viewing or printing.

### ServoWire® Cam/Profile Designer

ServoWire® Cam/Profile Designer aids users in creating Cam (master pos. vs. follower pos.) and Profile (axis pos. vs. time) data. Users can enter the data directly into Cam/Profile Designer, or they can import data from a file.

#### Cam/Profile Designer Utility Features

- ✓ View commanded position, velocity, acceleration and jerk data for the specified motion.
- ✓ Set the type of interpolation used on a segment by segment basis.



### ServoWire® Upgrade

The ServoWire® Upgrade Utility provides the user with the means to update ServoWire® Drives with new firmware versions as they become available from ORMEC.

#### Upgrade Utility Features

- ✓ Displays current version of firmware of all connected ServoWire Drives.
- ✓ Allows for download of a different firmware version (older or newer), which is burned into the drives' Flash memory.