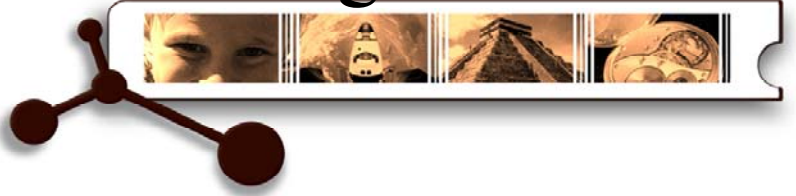


# Wonderware Kingfisher Driver



Specialised Driver providing significant application flexibility and data management capability for leading Software and Hardware combinations

## Performance Drivers

Driver development is a highly specialized task. In the RTU world of process control, large enterprise RTU drivers are particularly challenging. This is because of high point counts and high expectations from users for responsiveness and accuracy. Techniques used for driver development for PLCs that only operate in real time cannot be applied for drivers that support time series data types. RTU networks typically operate at low data rates compounding the requirement to recover large volumes of data efficiently. RTU drivers are typically the main bottleneck in the entire SCADA system.

Time series protocols retain the time and date stamp along with the value when an event occurs in the field. When the driver receives the value returned from the field device, it retains the original time and date with the value. The value and its associated time and data stamp is often referred to as an "event log".

Real time drivers ignore all information other than the point value. The point value, sometimes called a process variable, is assigned the arrival time for real time drivers. The original time stamp information is consequently discarded.

A screenshot of the 'wwkfs Topic Definition' configuration window. The window has a title bar and several input fields. The 'Topic Name' field contains 'Kingfishlog'. There are two checked checkboxes: 'RTU Event Log Topic' and 'Output logs to CSV file'. The 'I/O Channel' dropdown is set to 'COM1'. The 'Master RTU Address' is '1', 'Server Address' is '252', 'System ID' is '174', 'Update Interval' is '10000' msec, 'RTU Write Timeout' is '60' sec, 'Write Queue Timeout' is '300' sec, and 'EventLog User type' is '0'. There are 'OK' and 'Cancel' buttons. The Wonderware logo is visible in the bottom right corner.

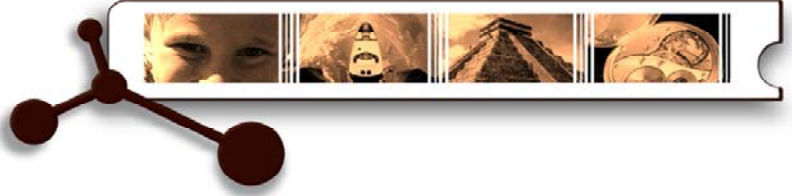
### Enterprise agility – Performance Middleware

*Parasyn "middleware" ensures that your data assets are exploited in the manner that best serves the needs of your organisation. Your organisation is empowered by having the freedom to mix and match "best of class" IT and Control infrastructure components without "vendor lock-in" at the operating system, programming language, application server, database or hardware level.*

The Kingfisher Series II RTU range supports real time and event log data types. The Parasyn Kingfisher Driver for Wonderware was developed to optimise the recovery performance of the Kingfisher RTU to support network protocols Suitelink and DDE.

The driver configuration view allows any number of topics to be configured. Each topic can be selected for real time or event logs. With a carefully formulated plan on how to manage data throughput, the scan rates of real time topics and event topics can be optimized to work with very large enterprise solutions. The driver permits prioritized management of write requests, imperative for slow networks that use the Public Switched Telephone Network.





## Rich Features

- Supports client plug-ins as DDE and Suitelink for interfacing to a multitude of SCADA system.
- Supports very large enterprise solutions.
- Driver matches maximum performance of Kingfisher Series II RTUs, nominally 50 logs per second without any compromise to SCADA server performance. The driver throughput exceeds the rate at which most (if not all) HMIs can process the alarms.
- Alarm buffering is native to InTouch HMI so no special scripting is required.
- Provides Historian Interface (Industrial SQL Server) for event log and real time data.
- Enhanced debug information provided to the Wonderware Logger if enabled.
- Remote write requests direct to outstation RTU via a Master RTU.
- Variable write request timeouts to support RTUs using dialup communications methods.
- Supports Addressing for: Floats, Integers, Long Integers, Signed, Hardware Addresses and Local Addresses.

## Customised Solutions

Parasyn's specialty is joining unlike systems and developing companion products for existing application software. This ability comes from having a drive to understand your business needs, investigating your specific process data and developing a solution that is rich with information; more than just raw data.

We offer solutions that include control equipment, application software (typically HMI) and databases. Typically these might include database to database, HMI to database, control device to control device, control device to database or control device to HMI. If you have a specific challenging requirement, consider discussing your needs with a member of our team.

## Professional Services

Our expert team of designers and programmers can assist your organisation to customise your specific process needs. The goal of our professional services is to listen, reflect and implement. We also offer Application Design, Back-End Integration & Project Management services.

## Support

For more information or to request a trial program please email your request to [dnp3@parasyn.com.au](mailto:dnp3@parasyn.com.au).