

# Coronys Real Time Test Automation Framework

## Introduction

The Coronys Framework is a comprehensive platform for automated testing of embedded and communication systems as well as general-purpose software applications. It is designed to be smoothly integrated in software development, system validation and mass production QA.

The Coronys Framework comprises a powerful real-time **Execution Engine**, **Development Environment** and **complementary tools** for test creation, execution and management. The framework is perfectly suited for black box testing of both single **stand-alone modules** and complex **systems** over distributed architectures. With the Coronys exclusive multilayer methodology you can build up your test automation gradually while re-using your in-house automation.

Among Coronys customers are hi-tech companies from communications, system-on-chip, military, medical, security and other industries.

## Coronys-ETS™ for Test Development and Execution

Automated test development with Coronys-ETS™ combines **script programming** and code-less **flow composing**. The idea is to write scripts for generic and repeatable operations and re-use them as building blocks for composing multiple test cases. "Building block" scripts are organized in a tree structured repository available from the ETS GUI. You just drag and drop building blocks to the graphical Test Flow Editor to create complex automated test scenarios.

### Script Development

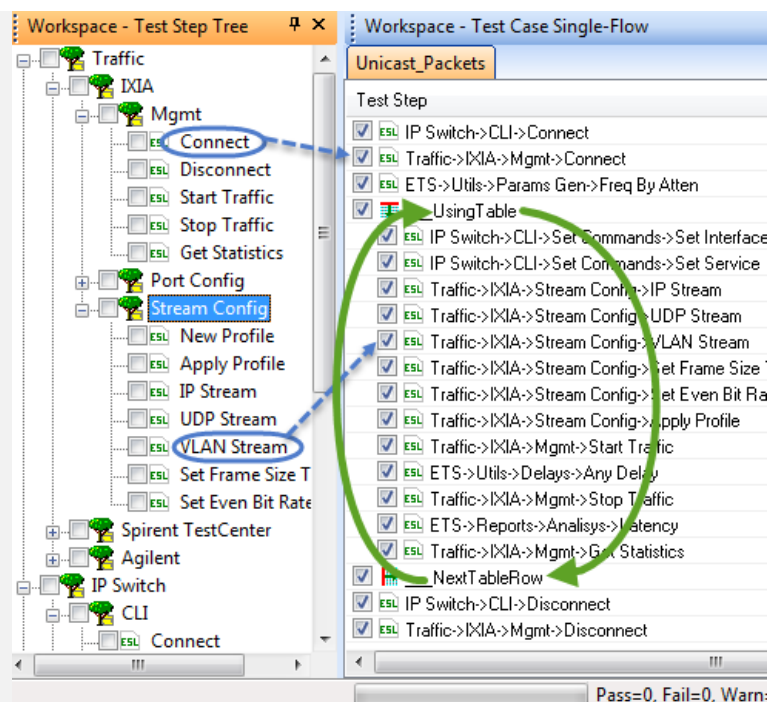
- High-level script programming language
- Full source step-by-step debugger
- Fully integrated, syntax sensitive editor
- Built-in Source Control integration
- Re-use of customer legacy automation
- **Multi-tasking** up to 64 parallel tasks

### Test Flow Composition

- Tree formed Test Steps Repository
- Intuitive drag-&-drop test flow composition
- Multiple Pre/Post hooks
- Flow conditions and decision points

### Test Execution & Reports

- Multiple Flows in test case
- Continuous Integration Support
- XML & HTML Run-time logs
- Communication Drill Down logs



### Event-Driven Testing

Among the supported events are textual and binary messages, timer expiration, Telnet disconnection, GUI and WEB browser events, and more...

Upon an event, the ETS engine performs asynchronously an action that was pre-programmed for this event

### Communication Protocols Support

Telnet/SSH, TCP/IP, UDP, TCP, HTTP, and other  
Proprietary protocols emulation  
Big-endian/little-endian formats supported  
Multi-Channel Terminal Emulation Viewer

### Testing of Distributed Systems

The ETS multi-tasking core enables parallel testing script execution, performing complex parallel tests of distributed systems and processes

**Multi-tasking** is supported both in script programming and in graphical test composition

### Application Libraries

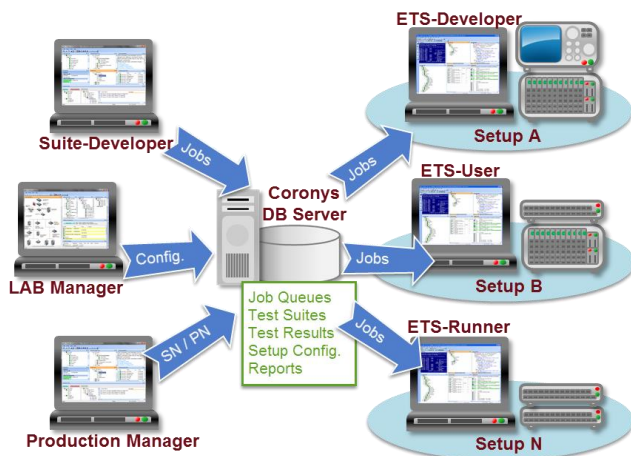
Hundreds of built-in functions (APIs)  
DLL, ActiveX, COM objects interface  
T&M Equipment & Traffic Generators drivers  
Interworking with C++, C#, Java, Python & other  
Windows GUI and WEB objects automation  
Regular expressions for test processing

### Continuous Integration

Coronys Framework is designed to be smoothly plugged in to your **continuous integration** process.

## Test Management Tools

The Coronys Test Automation Framework comprises optional fully integrated test management applications.



### Suite-Developer

Aggregation of ETS Test Cases into test suites  
Test job management and launching  
Requirements and Coverage management  
Multiple customizable reports

### LAB-Manager

Remote setup management  
Test stations monitoring

### Production Manager

Production line test automation management  
Automatic test selection by Station No/PN/SN  
Gathering test results per station/product/unit  
Customizable reports

## About Coronys

Coronys started in 2002 with a goal of making test automation effective, simple and available for vast range of companies and technologies.

The company mission is to provide each customer, from small startups to vendors of mature systems, an ability to build up its own comprehensive QA process based on Coronys Automation Platform industry proven methodology.