



# Create a Complete Test Application with Web-Based Reporting Using NI TestStand and WATS in 15 Minutes

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Technical Manager, Partner

# Virinco AS

Established in 1998, Drammen - Norway

Software/hardware development

Test, Measurement and Automation

Software for test data management

Capture, database storage and presentation

National Instruments & Microsoft Certified Alliance  
Partner

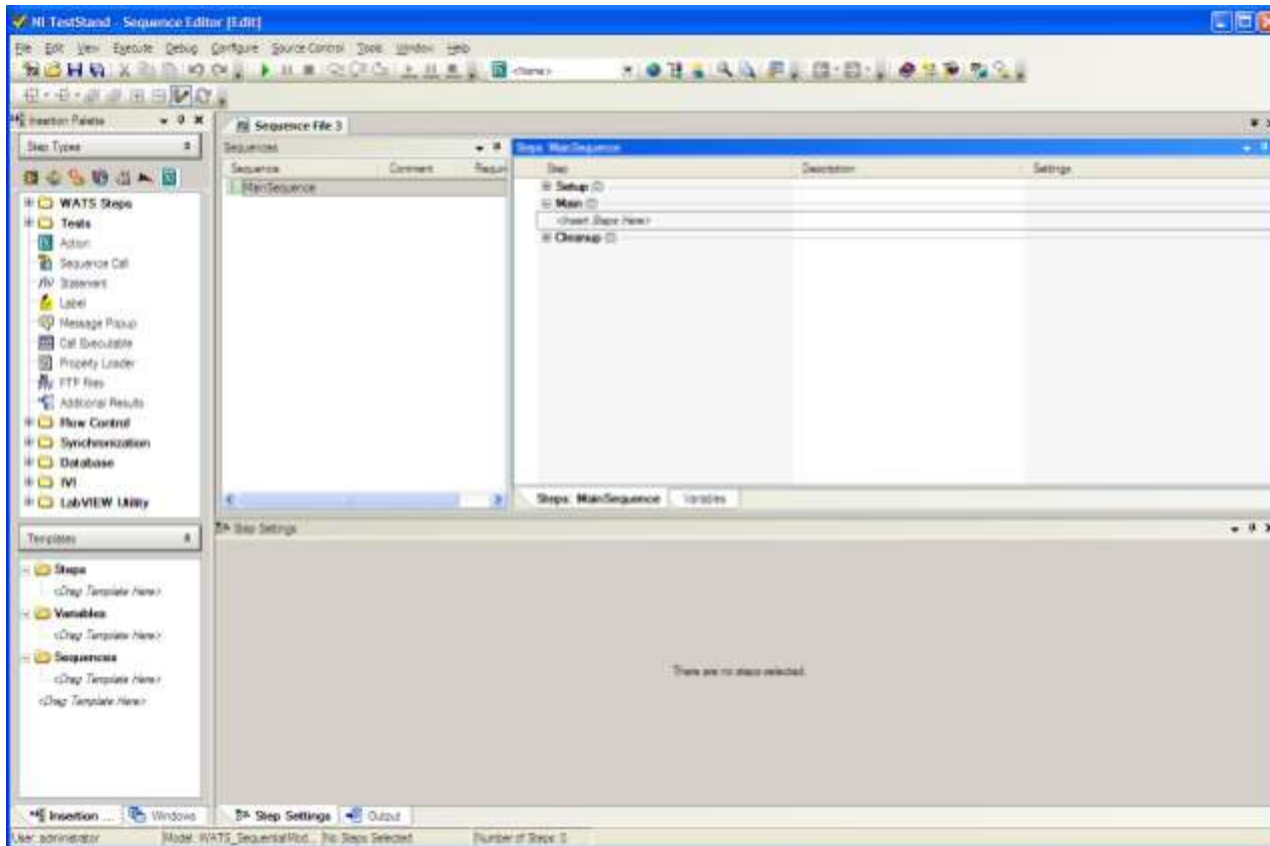


# WATS

- Create a test sequence from scratch using TestStand
- Add 4 numeric measurements
  - Environment temp
  - Meas 1V
  - Meas 5V
  - Meas 12V
- Use LabVIEW Express VI's to configure measurements
  - Use NI ENET-9219 4-Channel Universal Input
- Run the test a few times
- Login to WATS and analyse the test results

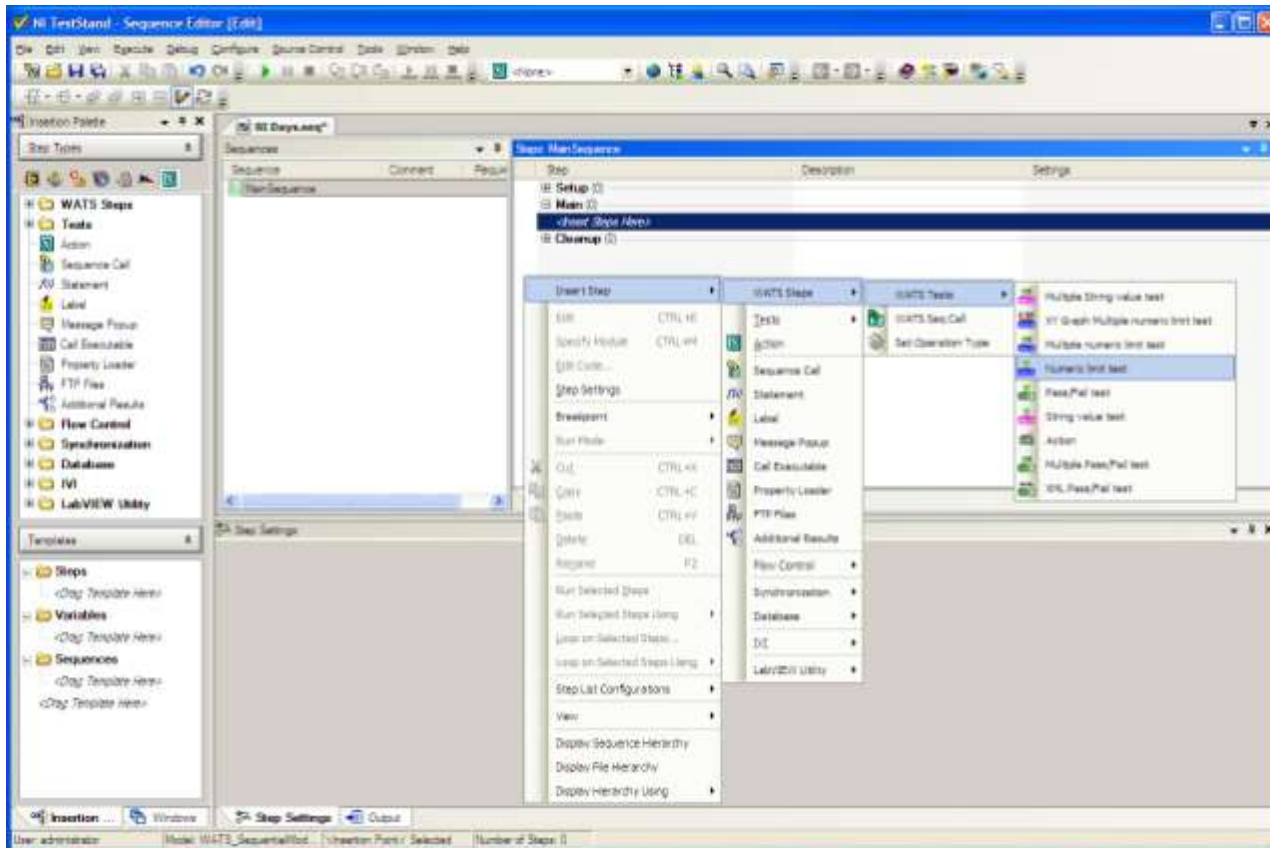
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-Create a test sequence from scratch using TestStand



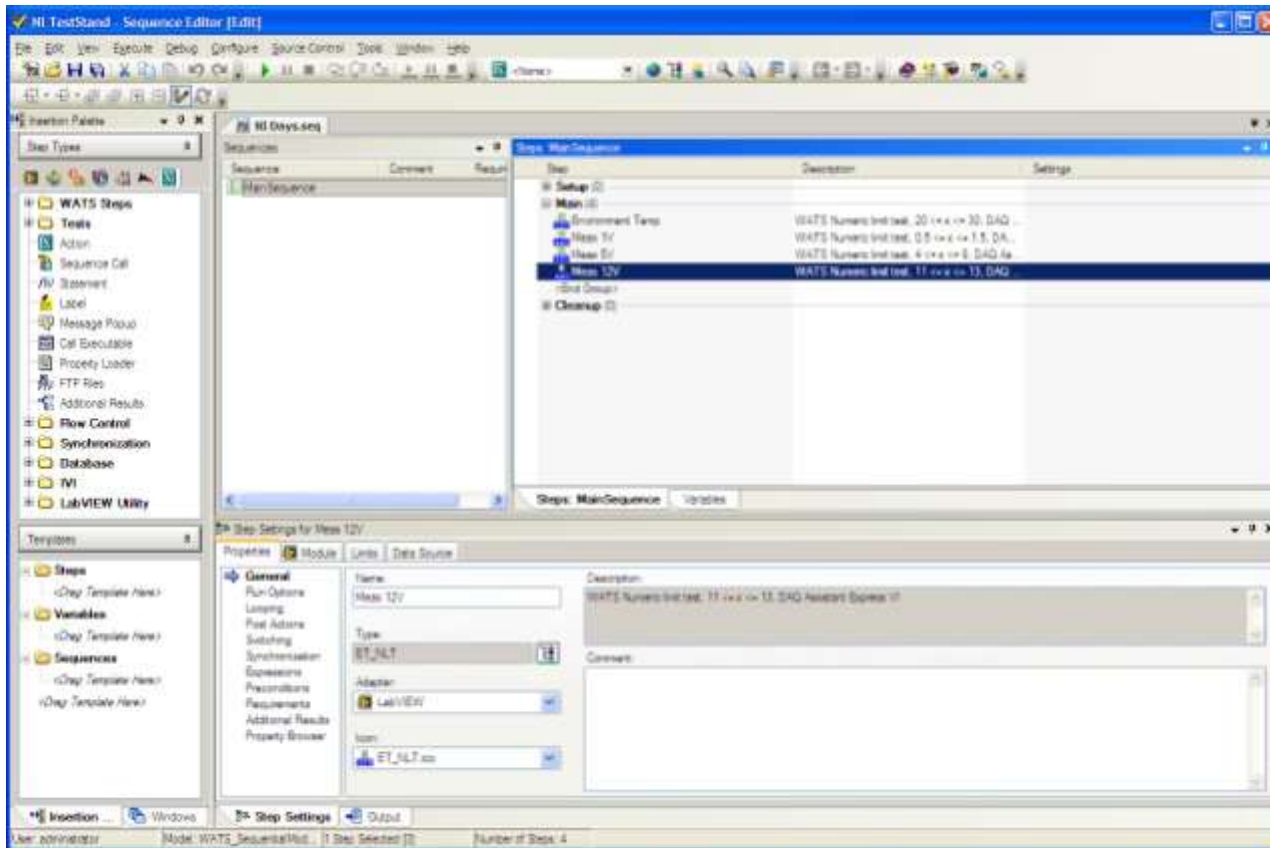
# Virinco AS

-Add 4 numeric measurements



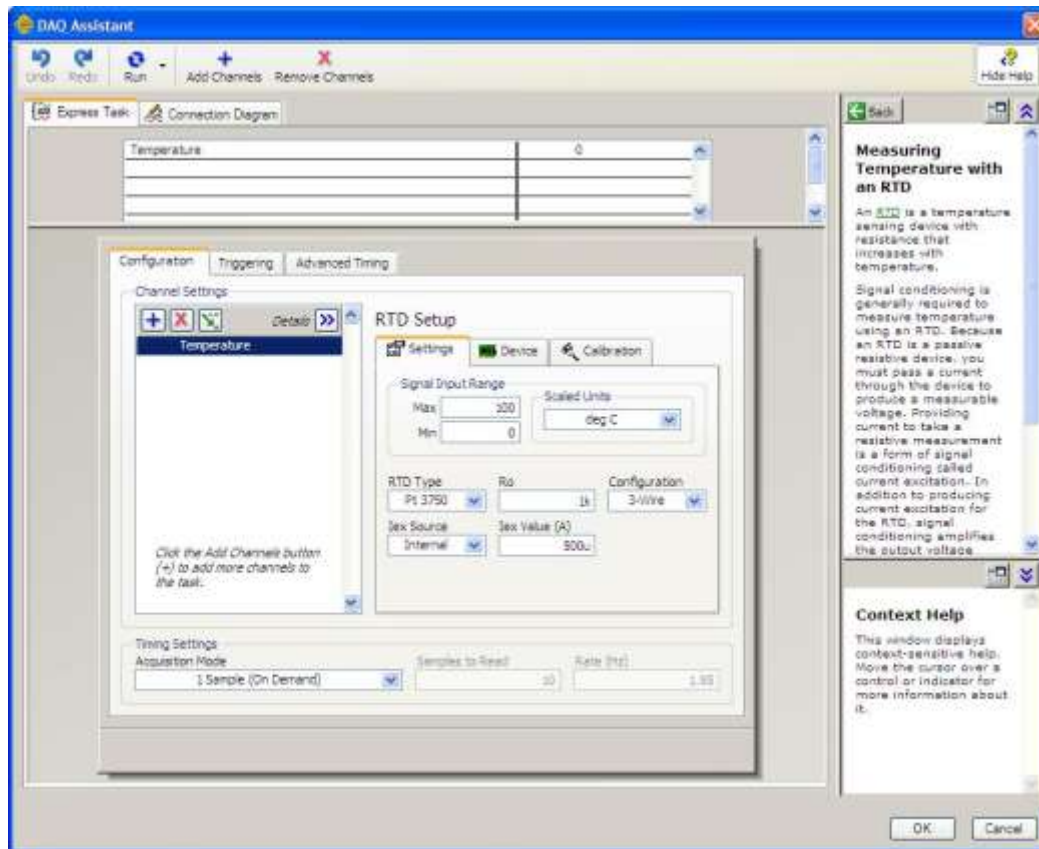
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-Add 4 numeric measurements



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-Use LabVIEW Express VI's to configure measurements

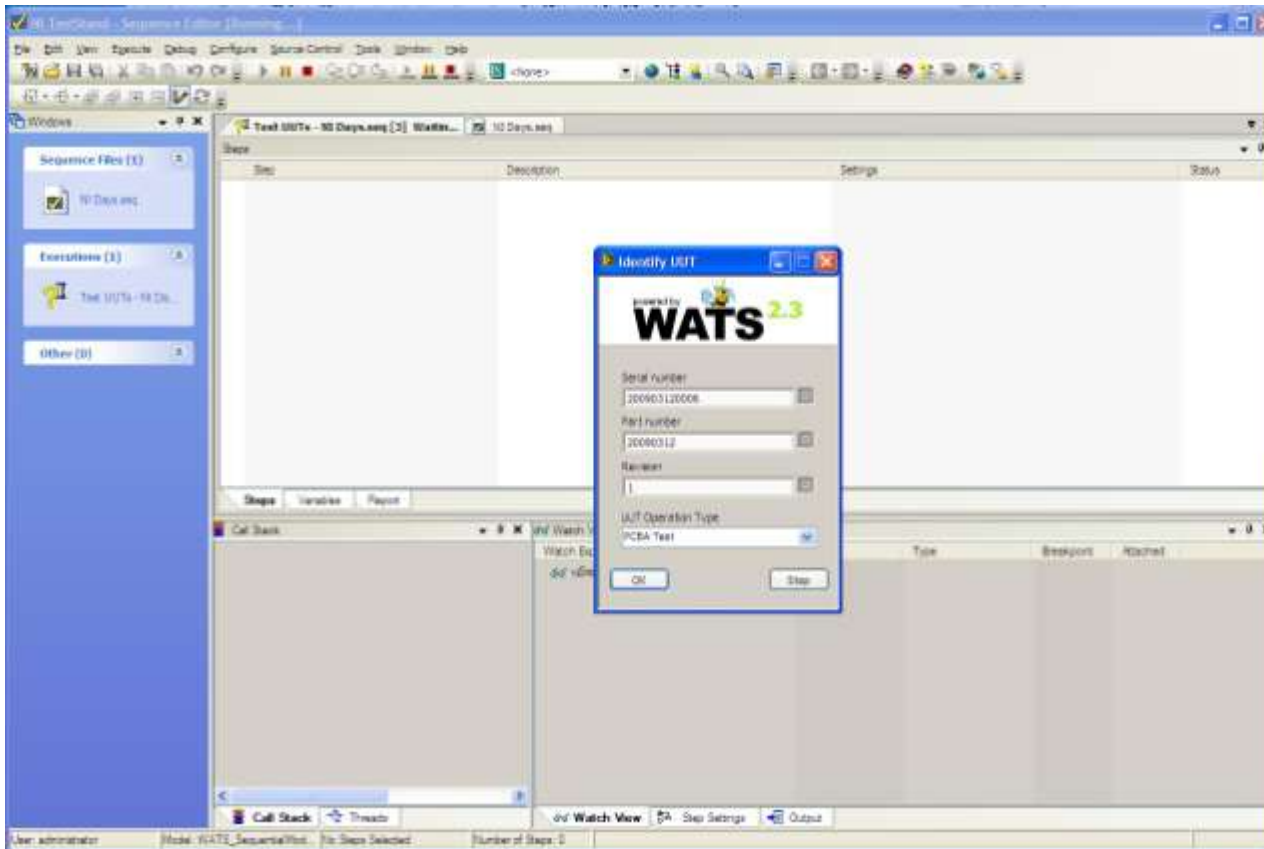


Configure all steps using DAQ Assistant



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-Run the test a few times



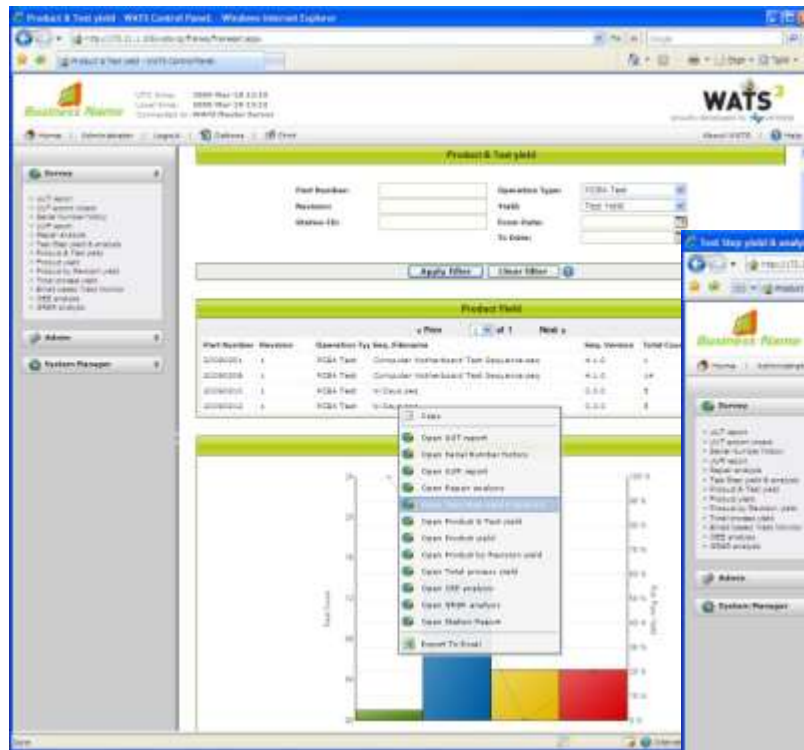
Start the test and enter SN, PN, Rev and OperationType



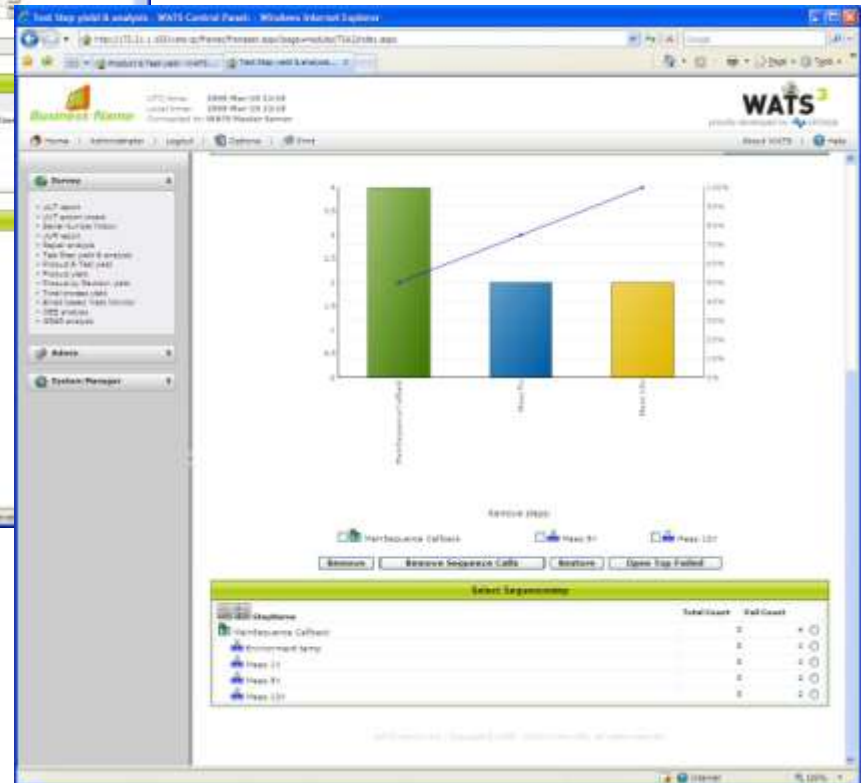
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## -Login to WATS and analyse the test results

Looking at "Product and Test yield" report to get a production overview

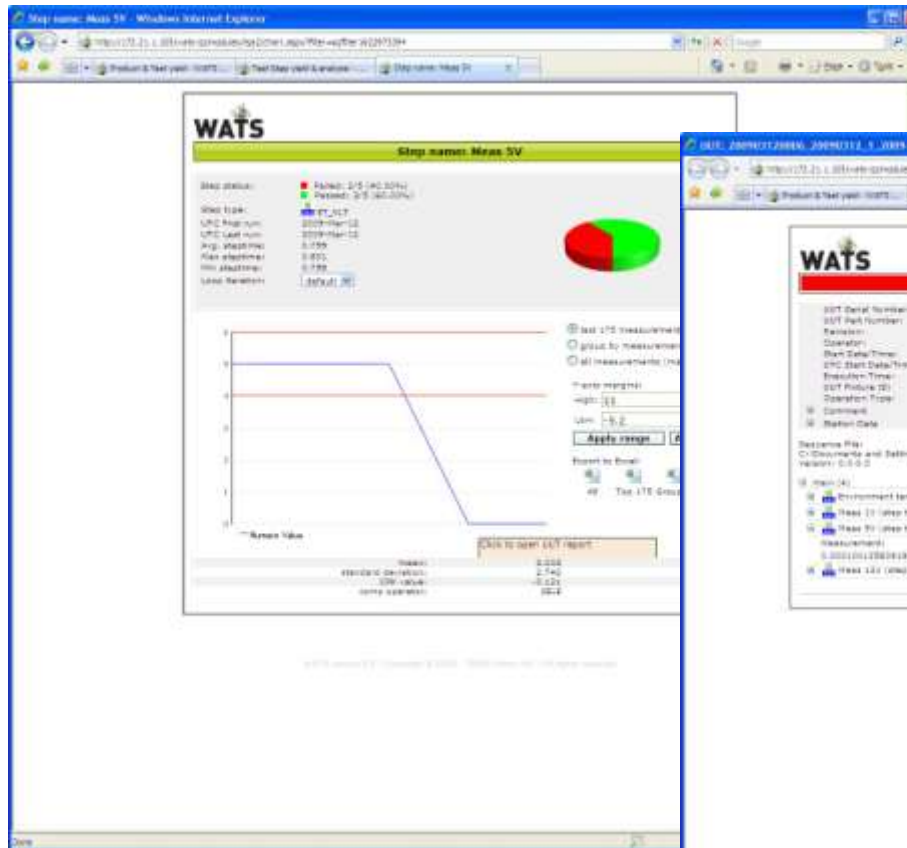


Right-click on the desired sequence, and choose "Test Step yield & analysis" report



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-Login to WATS and analyse the test results



Looking at measurement trend for the "Meas 5V" step



Click a point on the graph to display the whole UUT Report for the selected serial number



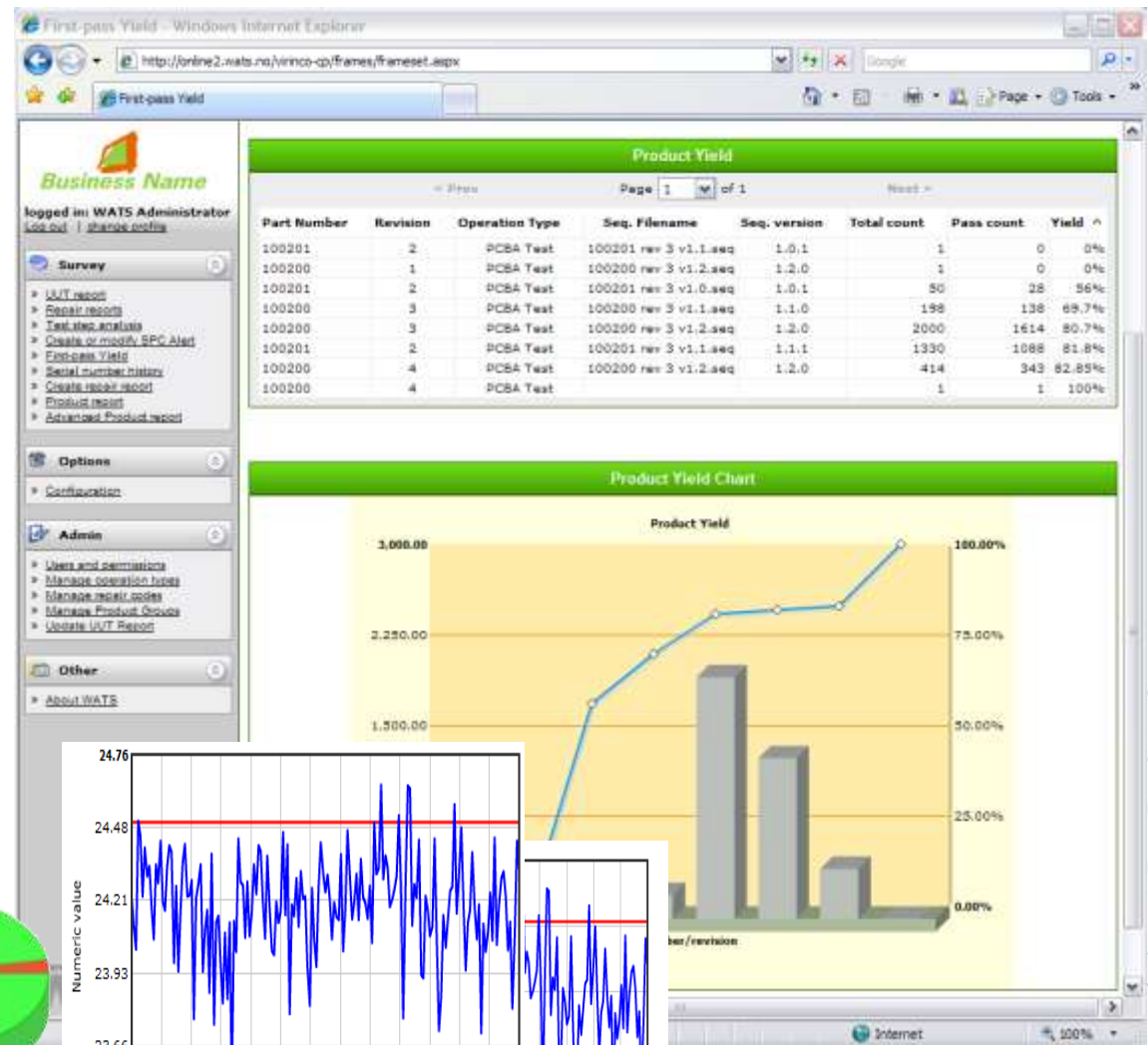
# WATS

## Test Data Management

# Web based reporting



- Instant access through the web browser
- Makes the test data valuable throughout the entire organization



# Benefits with Test Data Management

- Reuse code
- Do not have to consider reporting - WATS handles all data flow automatically
- Easy access to analysis for optimizing product development
- High level of control on **production** quality

# ROI elements

- Improve YIELD – Improved quality
- Quick drilldown to identify the “problem area”
- Reduction of time from error situations to a solution
- Link Repair and test data
- Reduced test development time
- Increase market value (control)

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