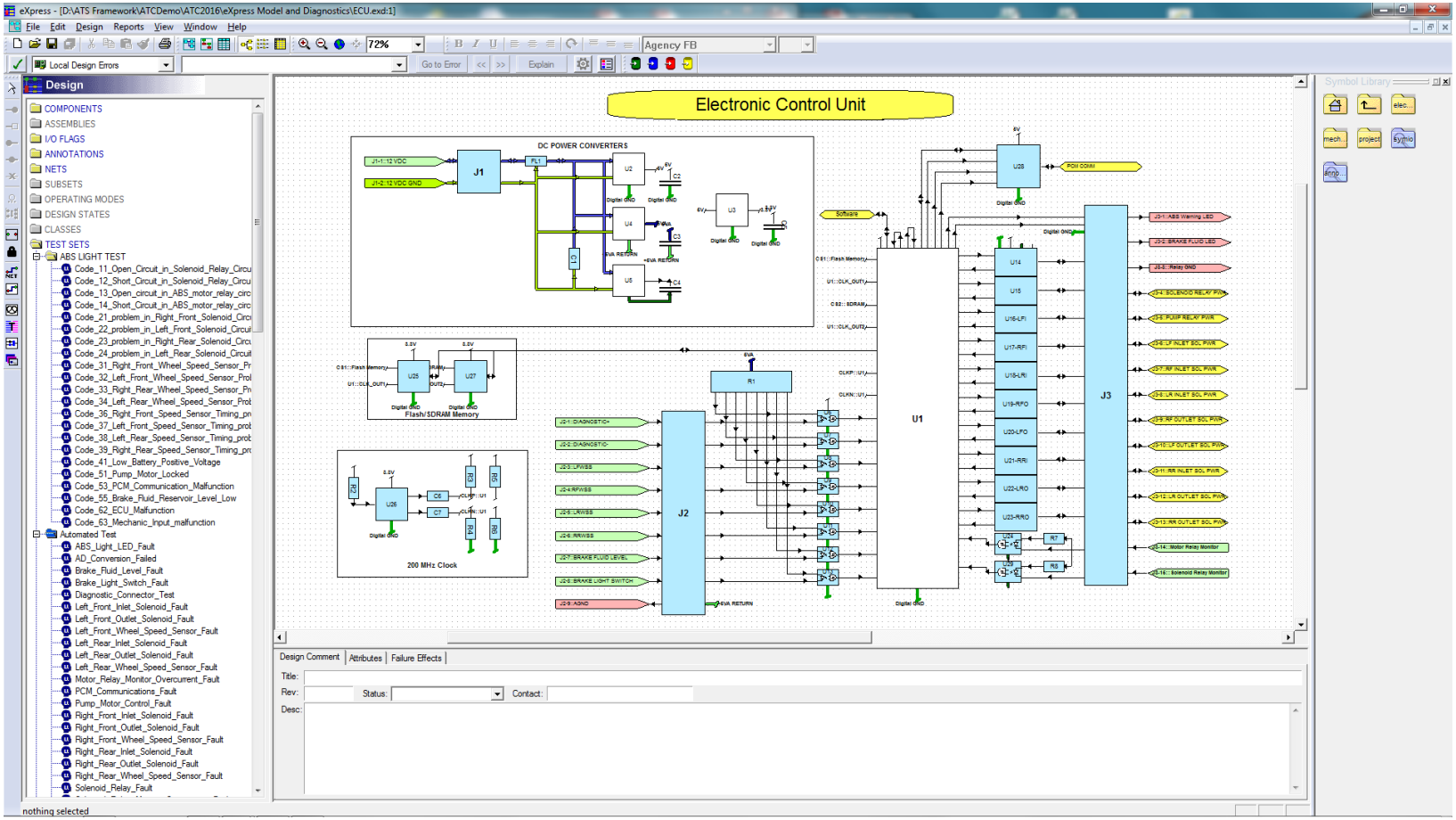
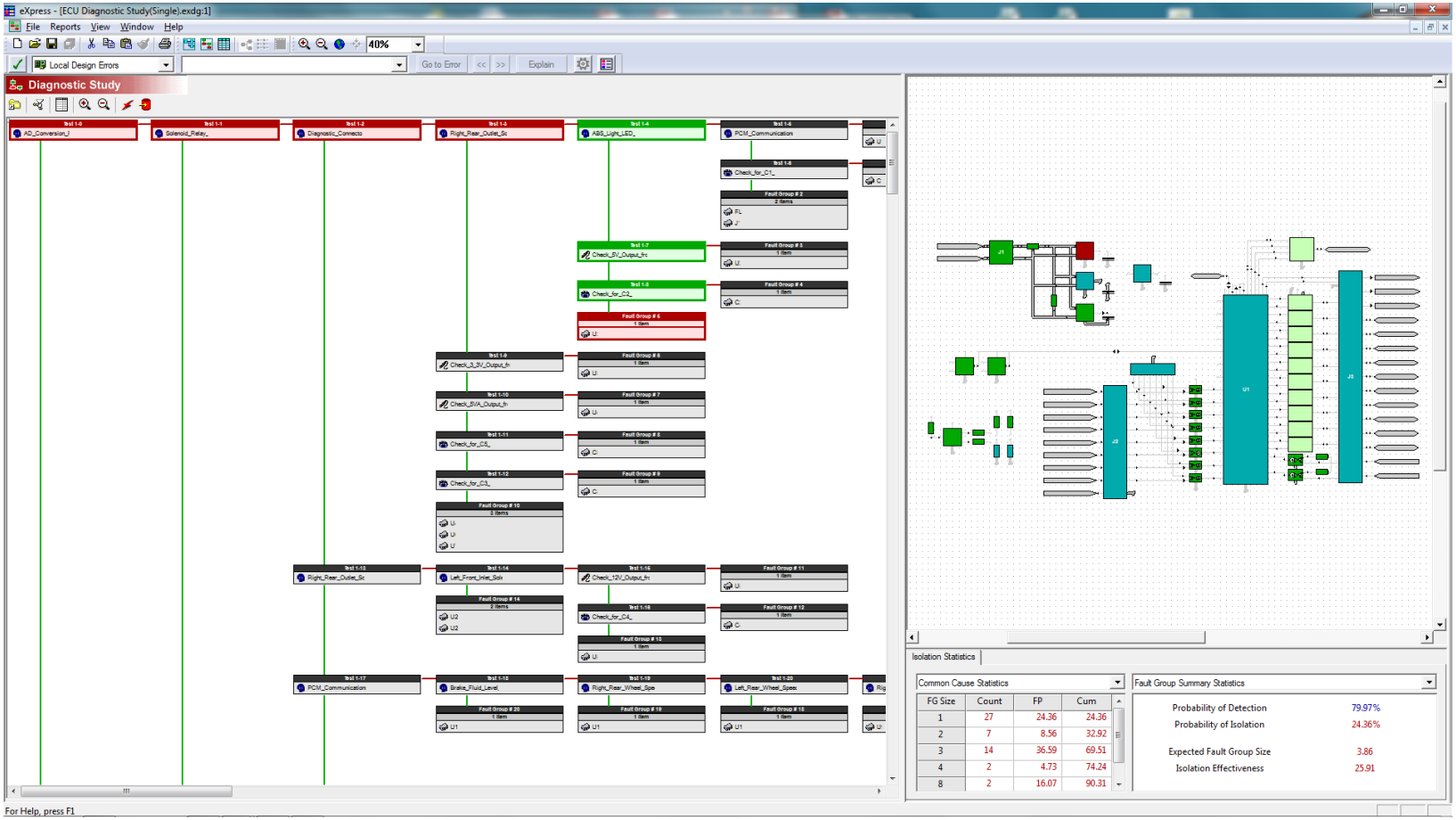
DSI Workbench Walkthrough

Smart Diagnostics

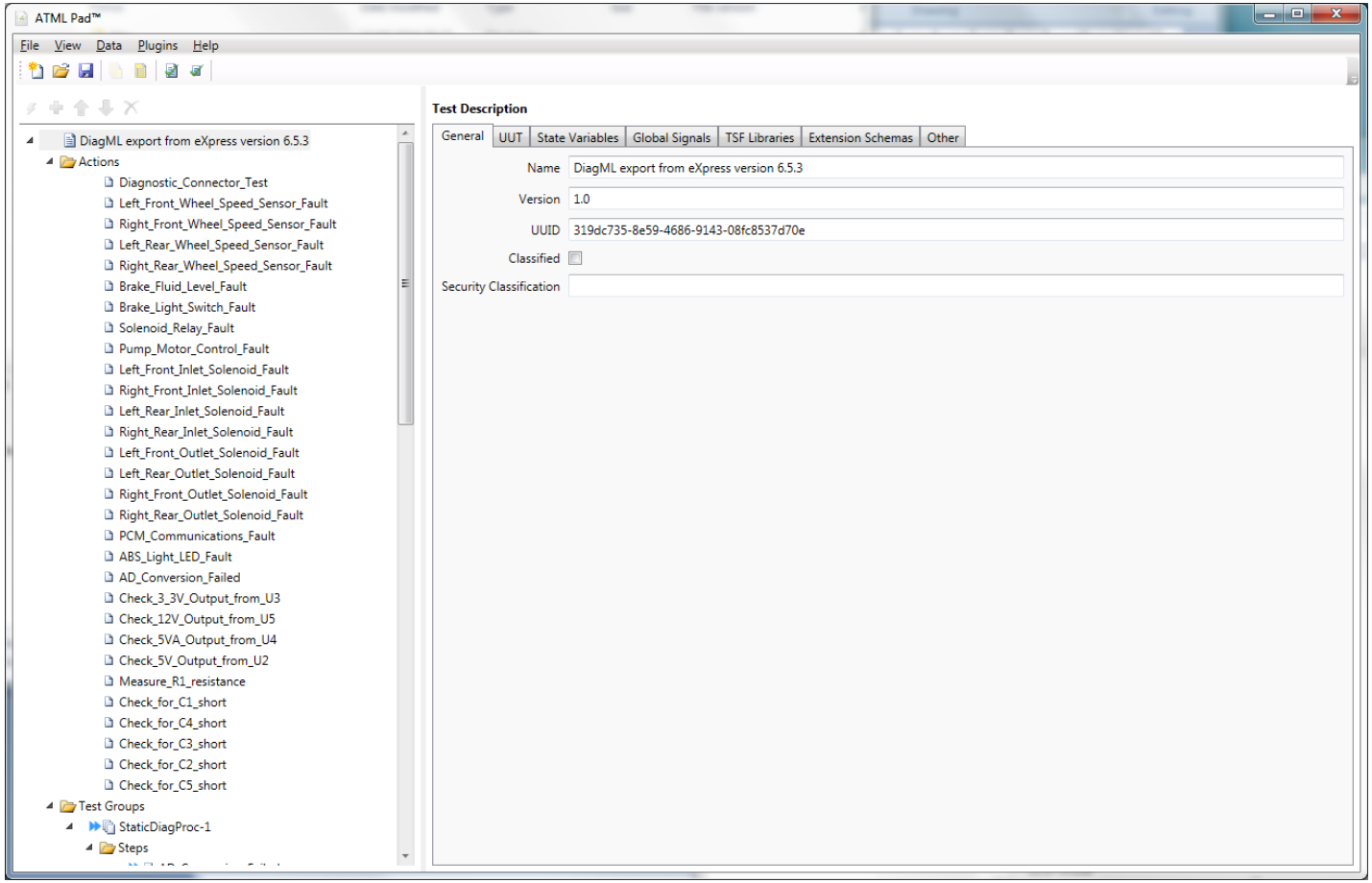
eXpress


eXpress - [D:\ATS Framework\ATCDemo\ATC2016\eXpress Model and Diagnostics\ECU.exd:1]
File Edit Design Reports View Window Help
Design
COMPONENTS
ASSEMBLIES
I/O FLAGS
ANNOTATIONS
NETS
SUBSETS
OPERATING MODES
DESIGN STATES
CLASSES
TEST SETS
ABS LIGHT TEST
Automated Test
Electronic Control Unit
DC POWER CONVERTERS
Flash/SDRAM Memory
200 MHz Clock
Design Comment
Attributes
Failure Effects
nothing selected

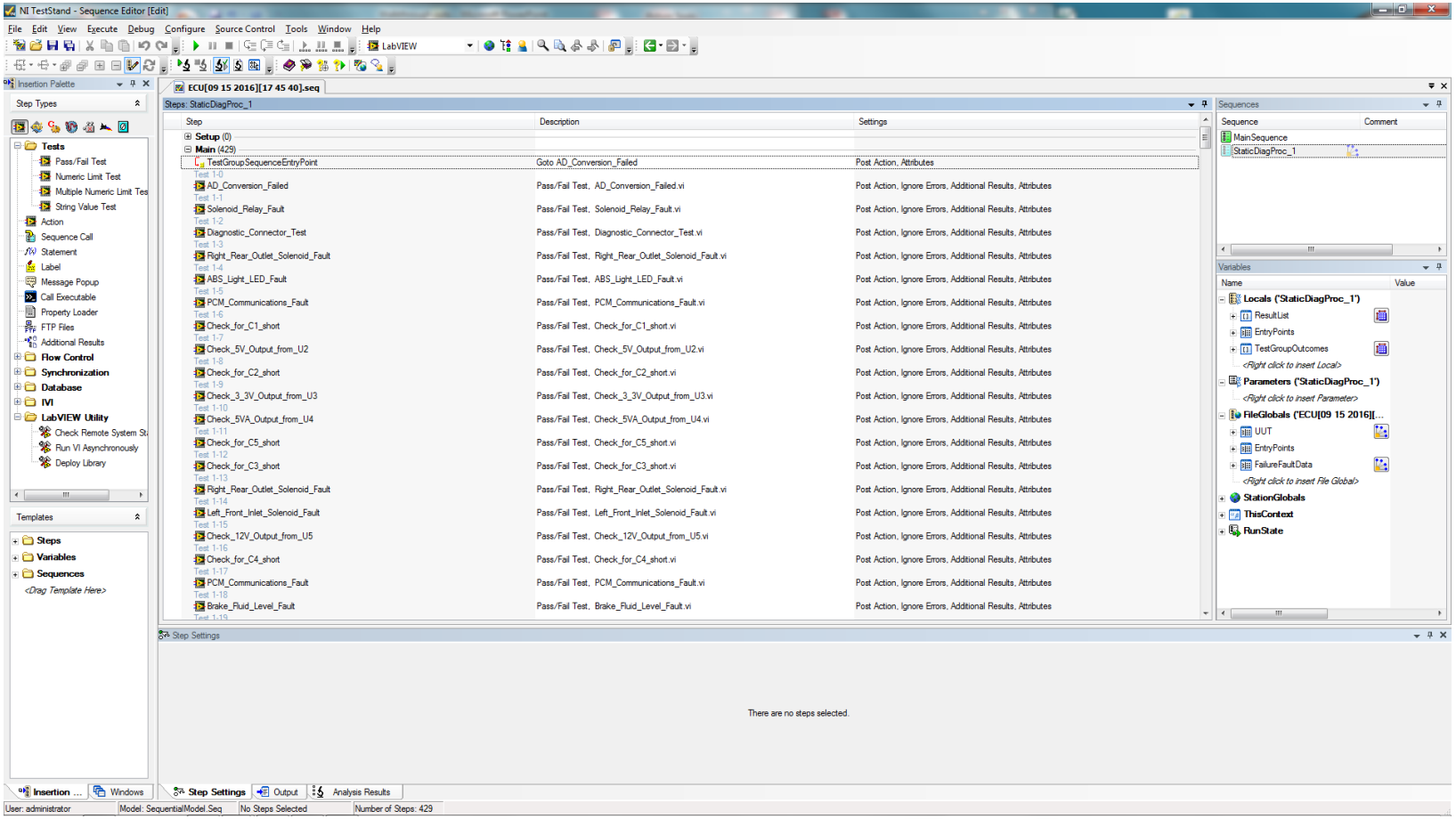
eXpress Diagnostics



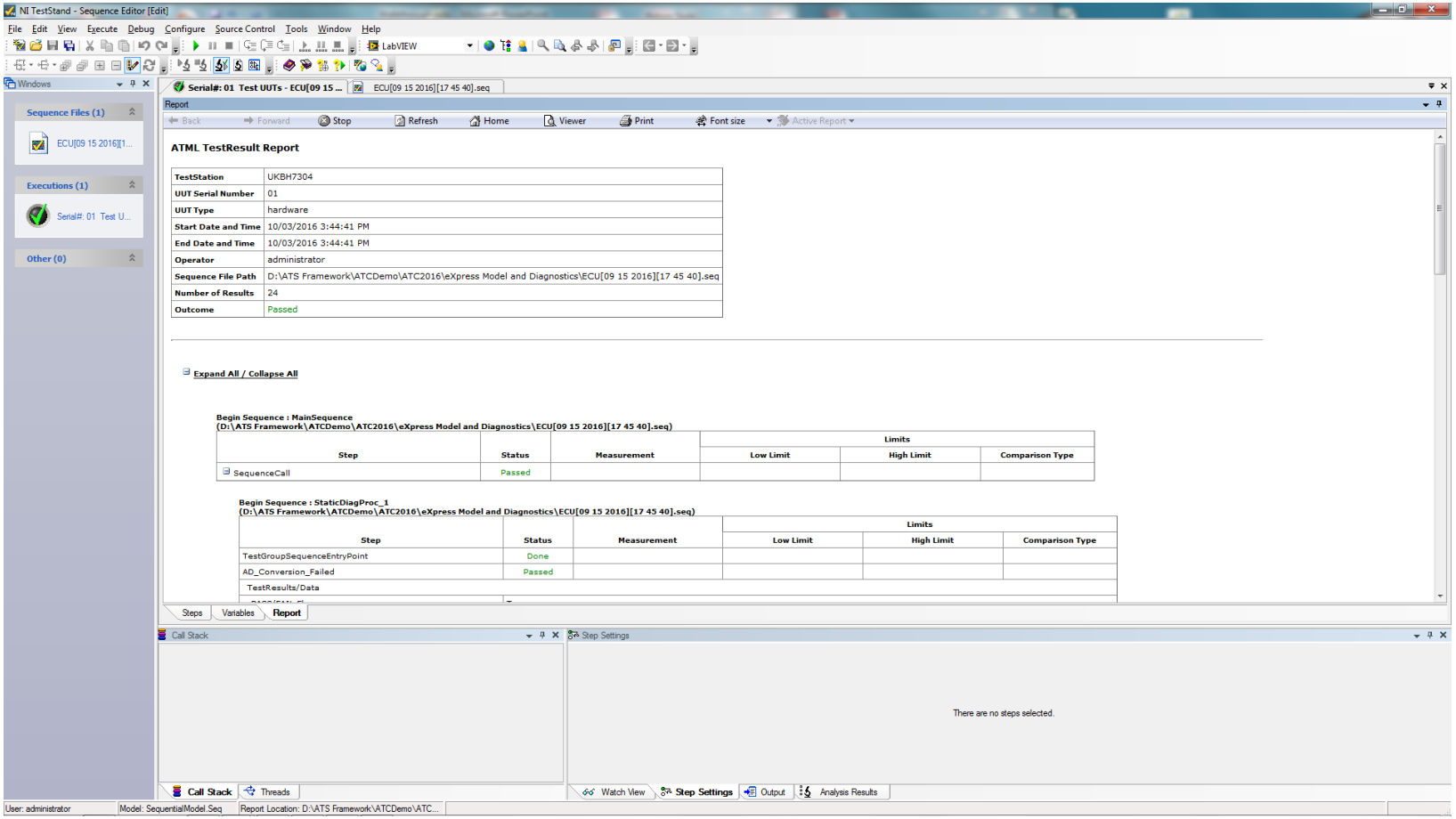
ATML Pad


ATML Pad™
File View Data Plugins Help
DiagML export from eXpress version 6.5.3
Actions
Diagnostic_Connector_Test
Left_Front_Wheel_Speed_Sensor_Fault
Right_Front_Wheel_Speed_Sensor_Fault
Left_Rear_Wheel_Speed_Sensor_Fault
Right_Rear_Wheel_Speed_Sensor_Fault
Brake_Fluid_Level_Fault
Brake_Light_Switch_Fault
Solenoid_Relay_Fault
Pump_Motor_Control_Fault
Left_Front_Inlet_Solenoid_Fault
Right_Front_Inlet_Solenoid_Fault
Left_Rear_Inlet_Solenoid_Fault
Right_Rear_Inlet_Solenoid_Fault
Left_Front_Outlet_Solenoid_Fault
Left_Rear_Outlet_Solenoid_Fault
Right_Front_Outlet_Solenoid_Fault
Right_Rear_Outlet_Solenoid_Fault
PCM_Communications_Fault
ABS_Light_LED_Fault
AD_Conversion_Failed
Check_3_3V_Output_from_U3
Check_12V_Output_from_U5
Check_5VA_Output_from_U4
Check_5V_Output_from_U2
Measure_R1_resistance
Check_for_C1_short
Check_for_C4_short
Check_for_C3_short
Check_for_C2_short
Check_for_C5_short
Test Groups
StaticDiagProc-1
Steps
Test Description
General UUT State Variables Global Signals TSF Libraries Extension Schemas Other
Name DiagML export from eXpress version 6.5.3
Version 1.0
UUID 319dc735-8e59-4686-9143-08fc8537d70e
Classified
Security Classification

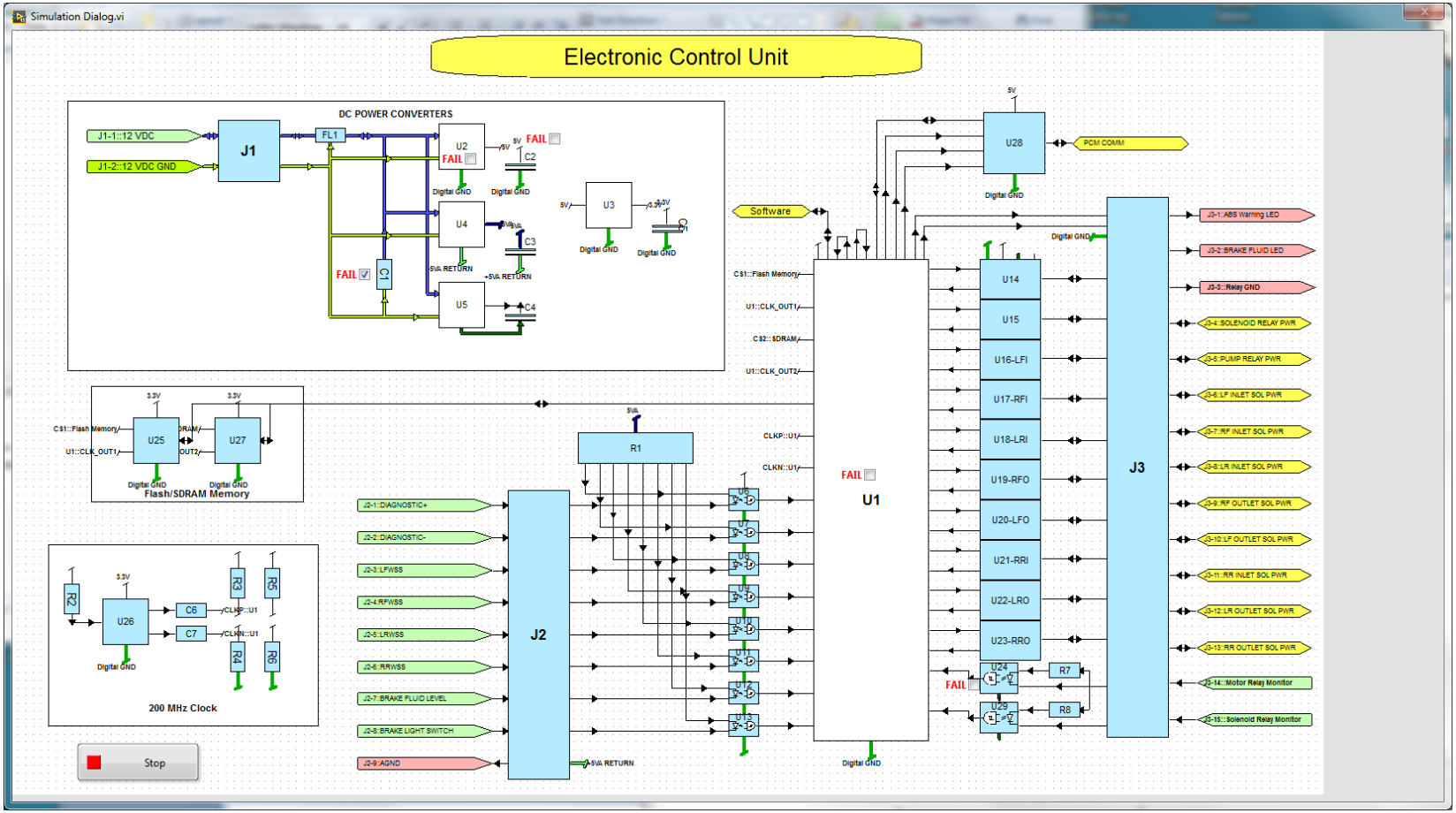
Test Stand


NI TestStand - Sequence Editor [Edit]
File Edit View Execute Debug Configure Source Control Tools Window Help
LabVIEW
Insertion Palette
Step Types
Tests
Pass/Fail Test
Numeric Limit Test
Multiple Numeric Limit Tes
String Value Test
Action
Sequence Call
Statement
Label
Message Popup
Call Executable
Property Loader
FTP Files
Additional Results
Flow Control
Synchronization
Database
IVI
LabVIEW Utility
Check Remote System St
Run VI Asynchronously
Deploy Library
Templates
Steps
Variables
Sequences
<Drag Template Here>
ECU[09 15 2016][17 45 40].seq
Steps: StaticDiagProc_1
Step
Description
Settings
Setup (0)
Main (429)
TestGroupSequenceEntryPoint
Goto AD_Conversion_Failed
Post Action, Attributes
Test 1-0
AD_Conversion_Failed
Pass/Fail Test, AD_Conversion_Failed.vi
Post Action, Ignore Errors, Additional Results, Attributes
Test 1-1
Solenoid_Relay_Fault
Pass/Fail Test, Solenoid_Relay_Fault.vi
Test 1-2
Diagnostic_Connector_Test
Pass/Fail Test, Diagnostic_Connector_Test.vi
Test 1-3
Right_Rear_Outlet_Solenoid_Fault
Pass/Fail Test, Right_Rear_Outlet_Solenoid_Fault.vi
Test 1-4
ABS_Light_LED_Fault
Pass/Fail Test, ABS_Light_LED_Fault.vi
Test 1-5
PCM_Communications_Fault
Pass/Fail Test, PCM_Communications_Fault.vi
Test 1-6
Check_for_C1_short
Pass/Fail Test, Check_for_C1_short.vi
Test 1-7
Check_5V_Output_from_U2
Pass/Fail Test, Check_5V_Output_from_U2.vi
Test 1-8
Check_for_C2_short
Pass/Fail Test, Check_for_C2_short.vi
Test 1-9
Check_3_3V_Output_from_U3
Pass/Fail Test, Check_3_3V_Output_from_U3.vi
Test 1-10
Check_5VA_Output_from_U4
Pass/Fail Test, Check_5VA_Output_from_U4.vi
Test 1-11
Check_for_C5_short
Pass/Fail Test, Check_for_C5_short.vi
Test 1-12
Check_for_C3_short
Pass/Fail Test, Check_for_C3_short.vi
Test 1-13
Right_Rear_Outlet_Solenoid_Fault
Pass/Fail Test, Right_Rear_Outlet_Solenoid_Fault.vi
Test 1-14
Left_Front_Inlet_Solenoid_Fault
Pass/Fail Test, Left_Front_Inlet_Solenoid_Fault.vi
Test 1-15
Check_12V_Output_from_U5
Pass/Fail Test, Check_12V_Output_from_U5.vi
Test 1-16
Check_for_C4_short
Pass/Fail Test, Check_for_C4_short.vi
Test 1-17
PCM_Communications_Fault
Pass/Fail Test, PCM_Communications_Fault.vi
Test 1-18
Brake_Fluid_Level_Fault
Pass/Fail Test, Brake_Fluid_Level_Fault.vi
Test 1-19
Sequences
Sequence
Comment
MainSequence
StaticDiagProc_1
Variables
Name
Value
Locals ('StaticDiagProc_1')
ResultList
EntryPoints
TestGroupOutcomes
<Right click to insert Local>
Parameters ('StaticDiagProc_1')
<Right click to insert Parameter>
FileGlobals ('ECU[09 15 2016][...
UUT
EntryPoints
FailureFaultData
<Right click to insert File Global>
StationGlobals
ThisContext
RunState
Step Settings
There are no steps selected.
Insertion ...
Windows
Step Settings
Output
Analysis Results
User: administrator
Model: SequentialModel.Seq
No Steps Selected
Number of Steps: 429

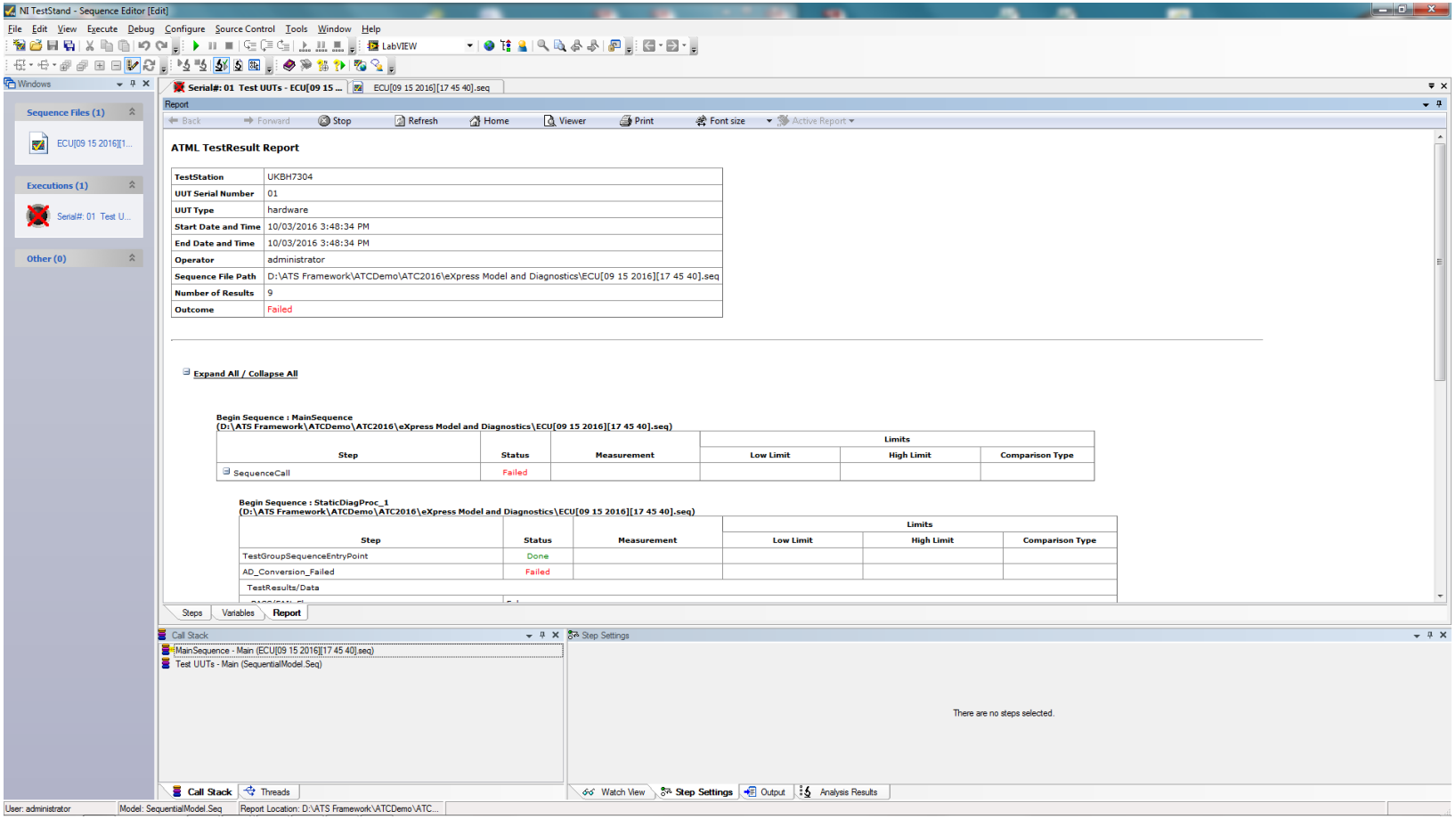
Passed Test Results



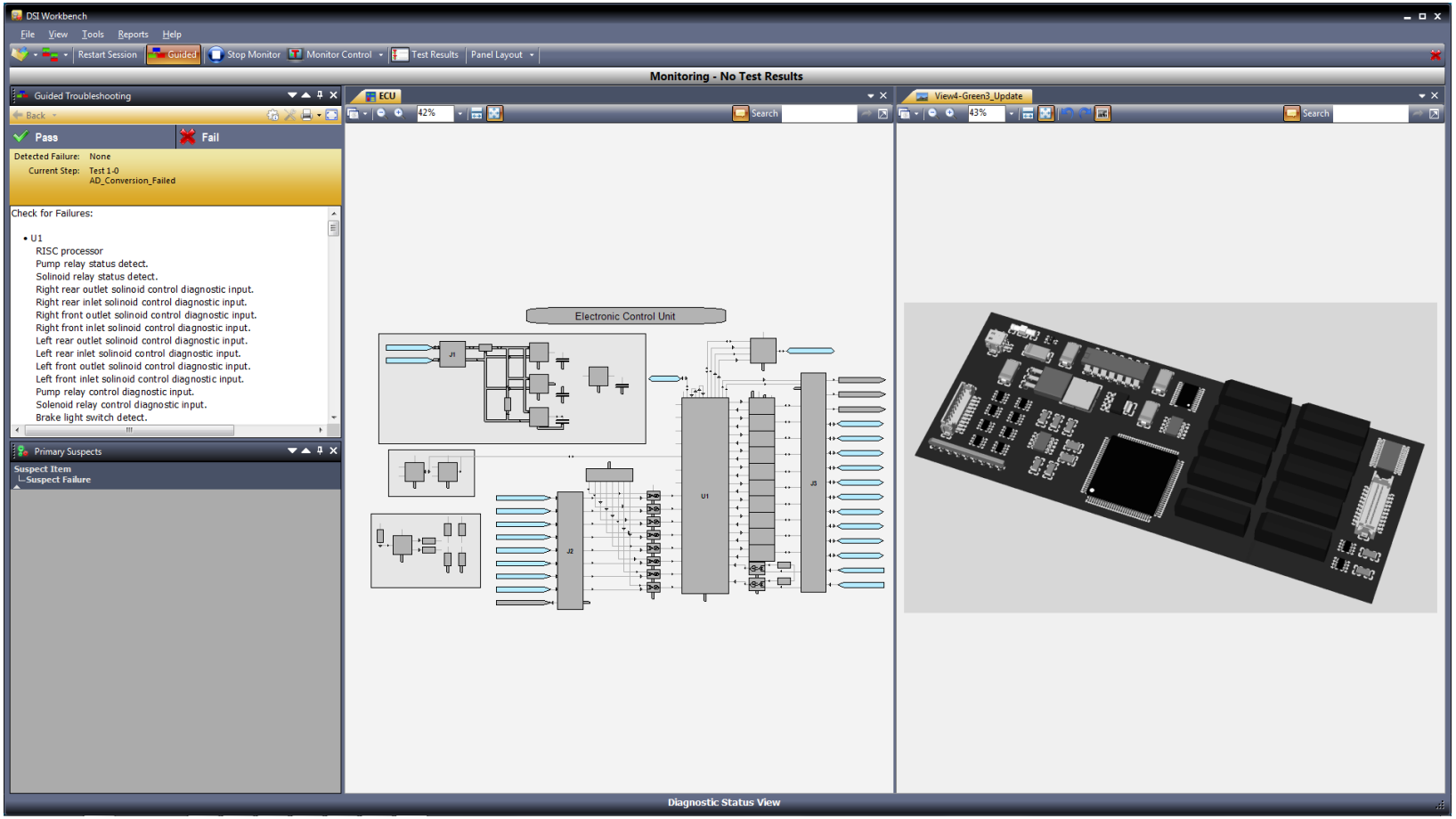
Fault (Simulator)



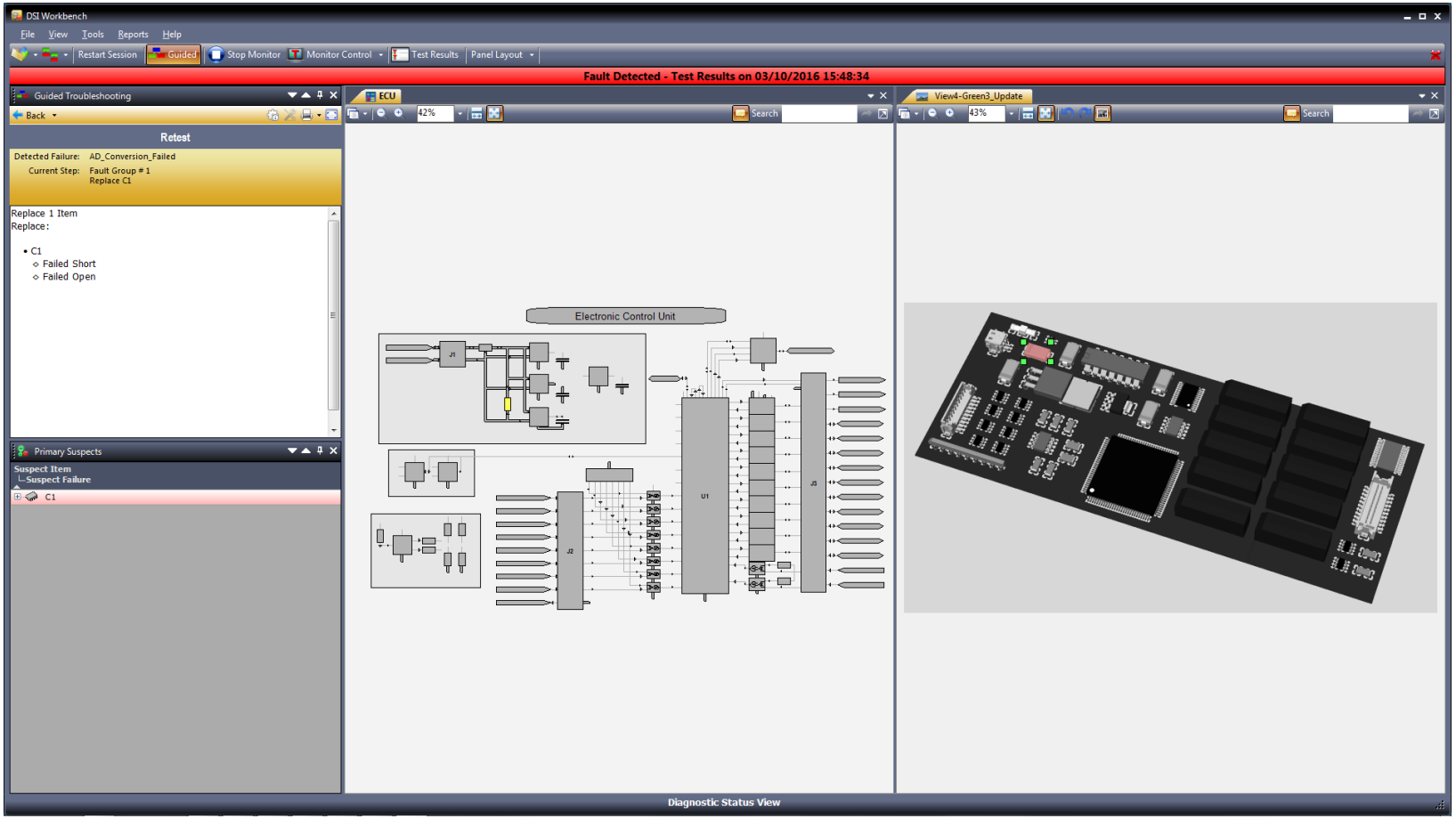
Failed Test Results



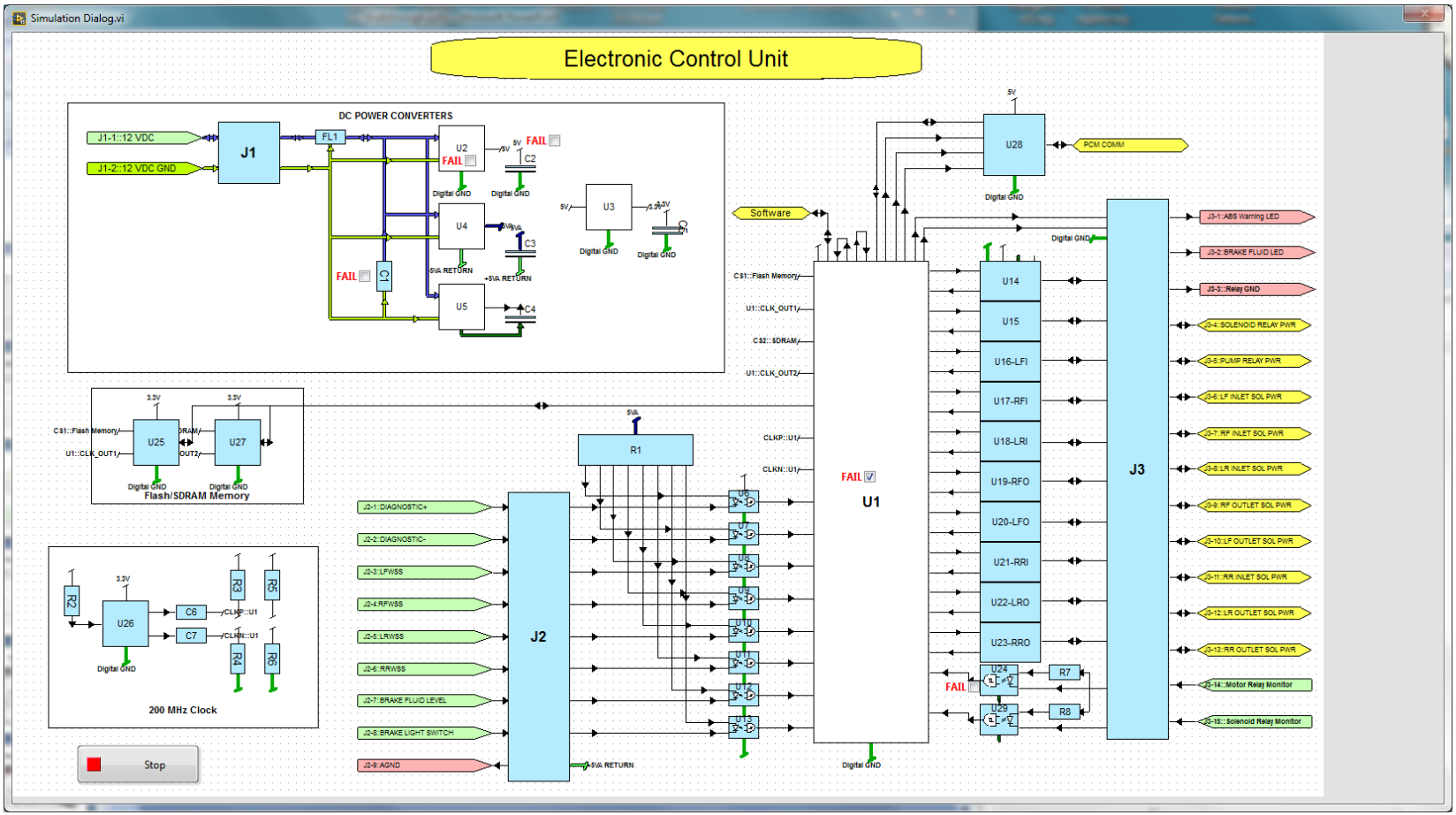
DSI Workbench



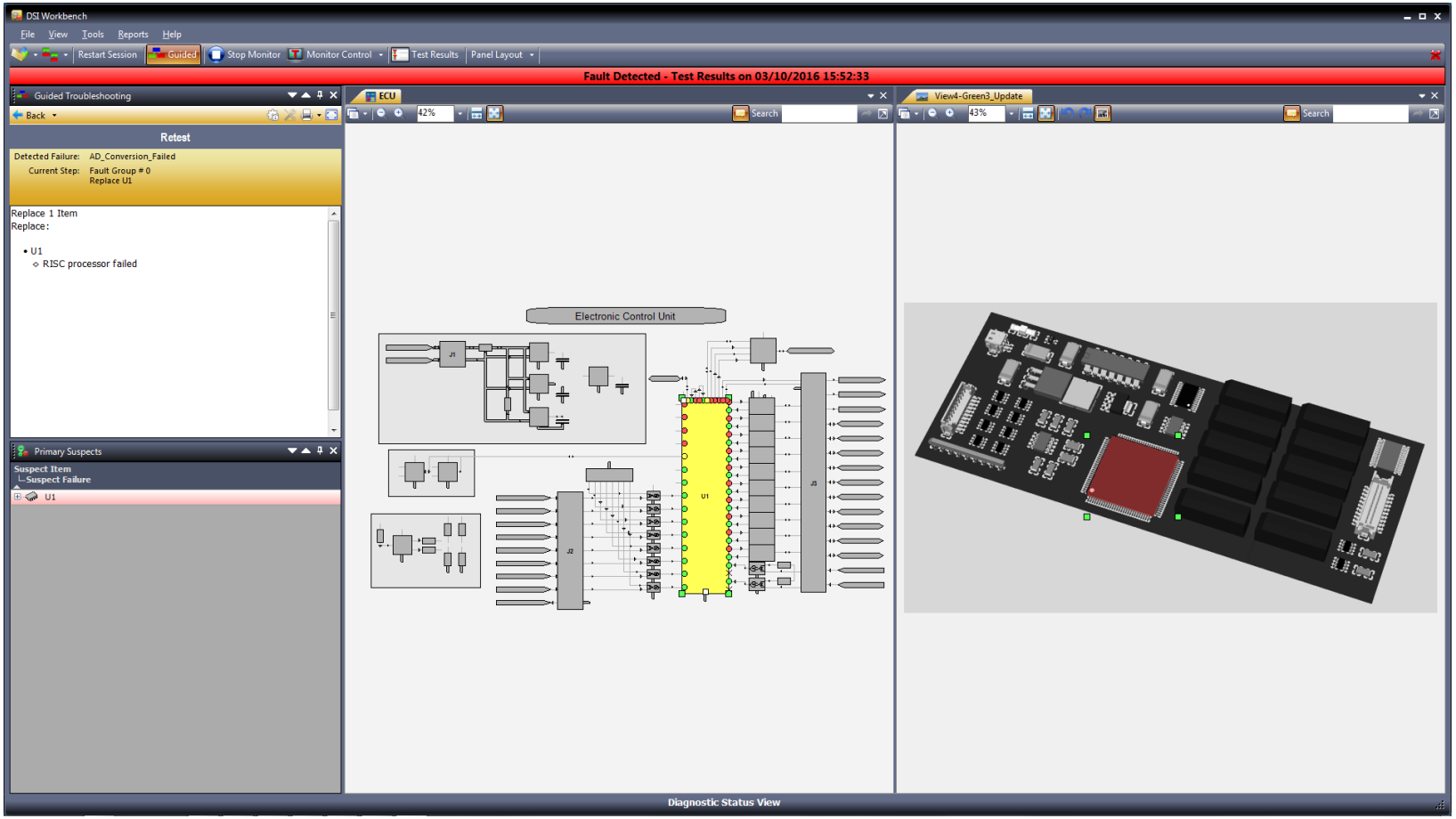
Reading Test Results



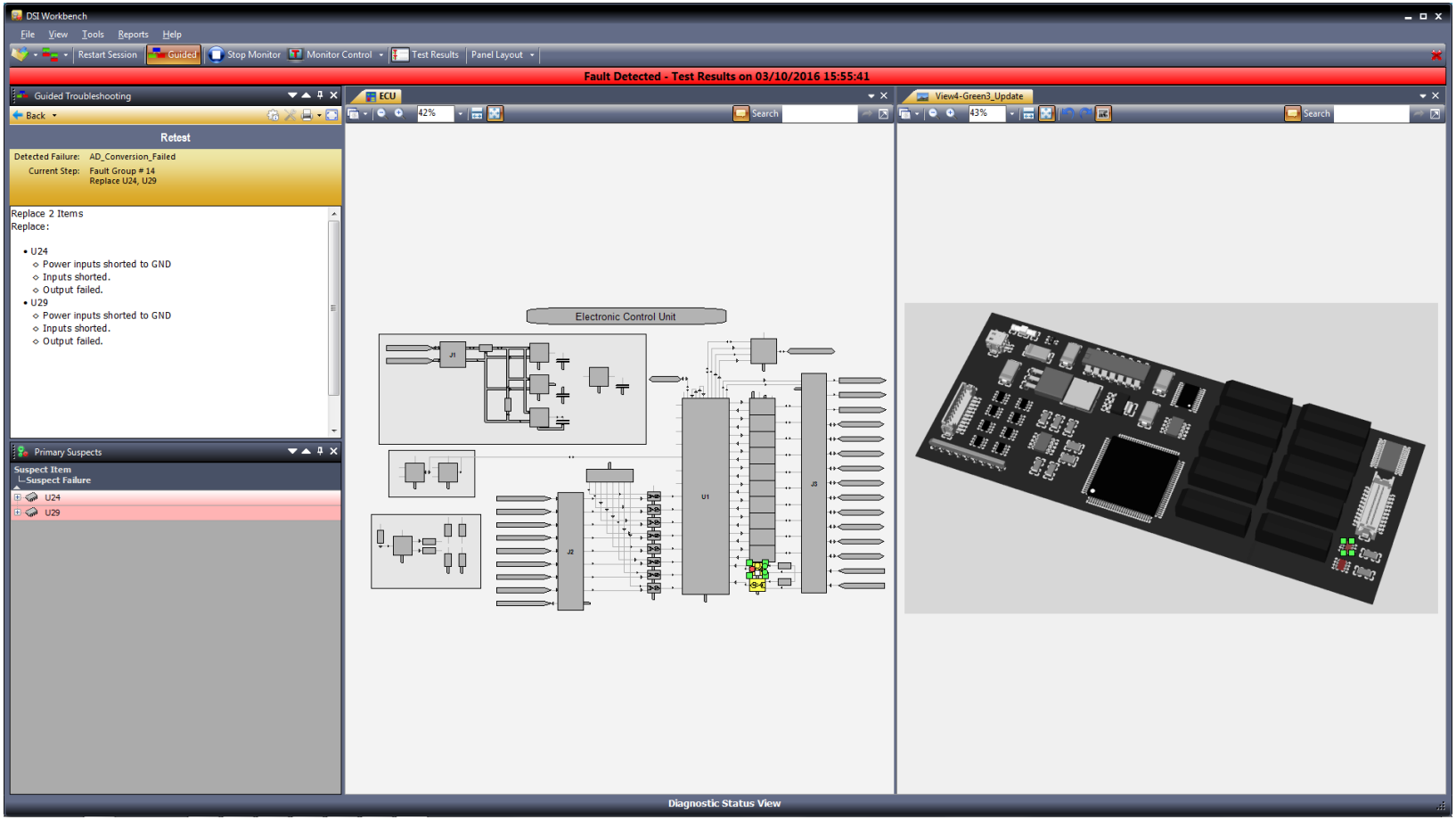
New Failure U1



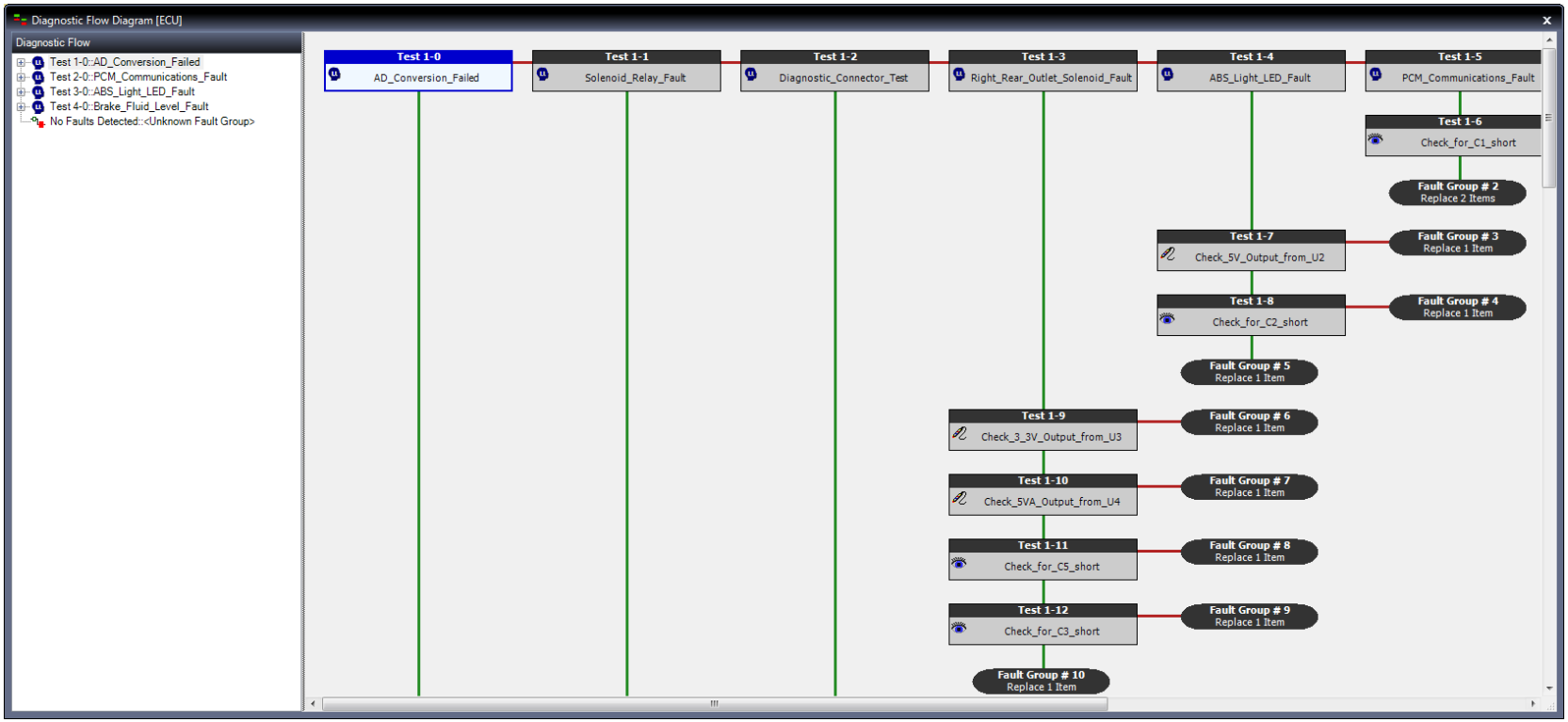
Test Results U1 - Failure



Ambiguous Fault Groups

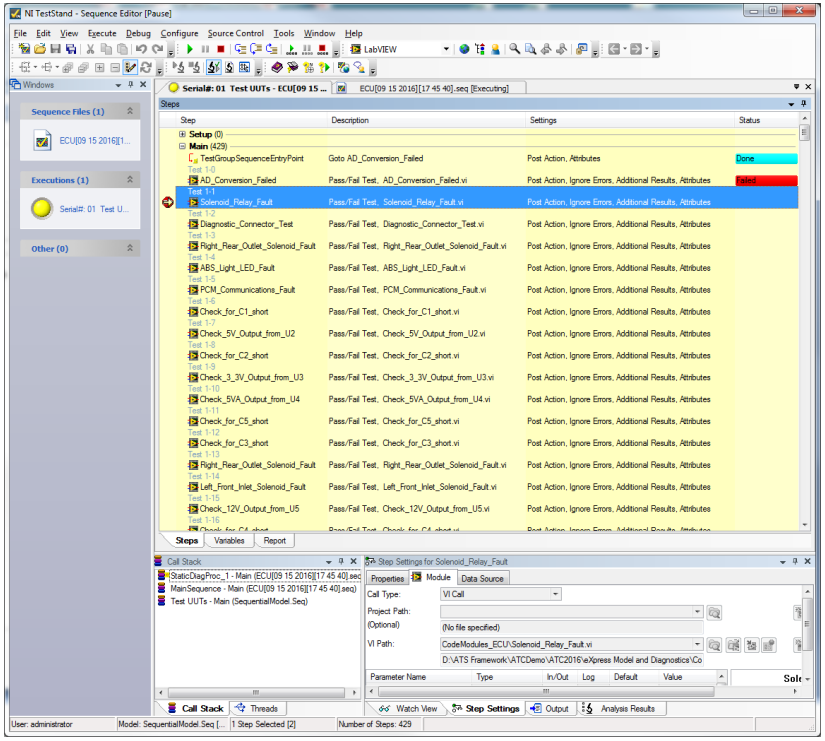


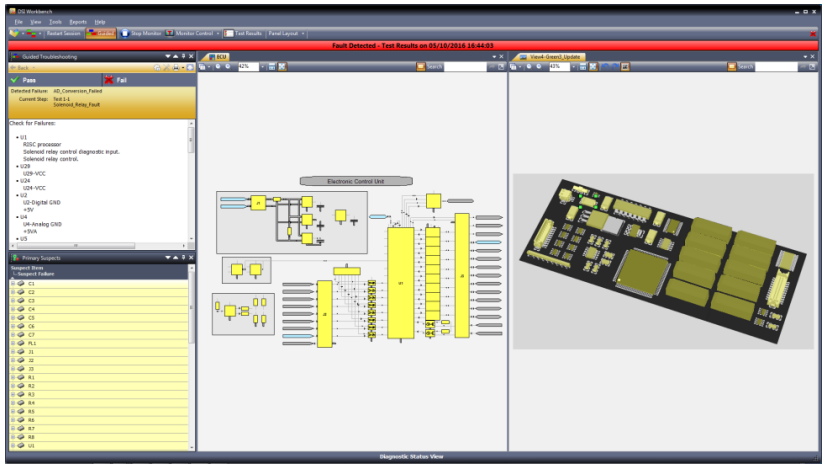
Diagnostic Tree



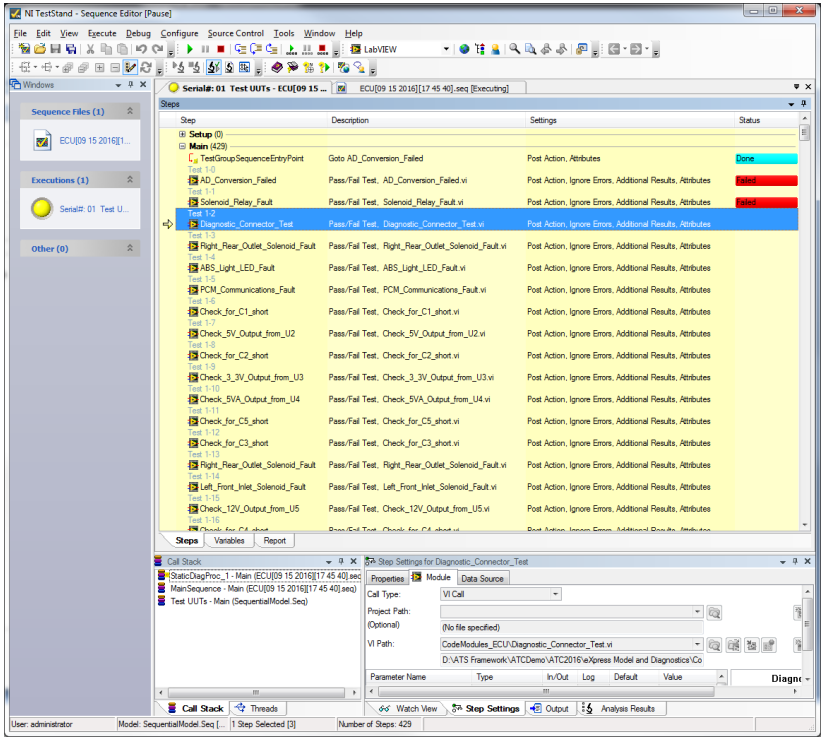
Step By Step Diagnostics

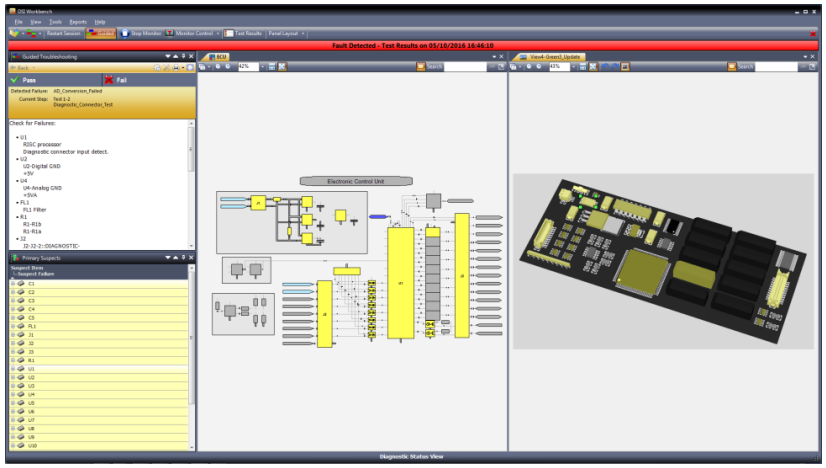
Step By Step Diagnostics



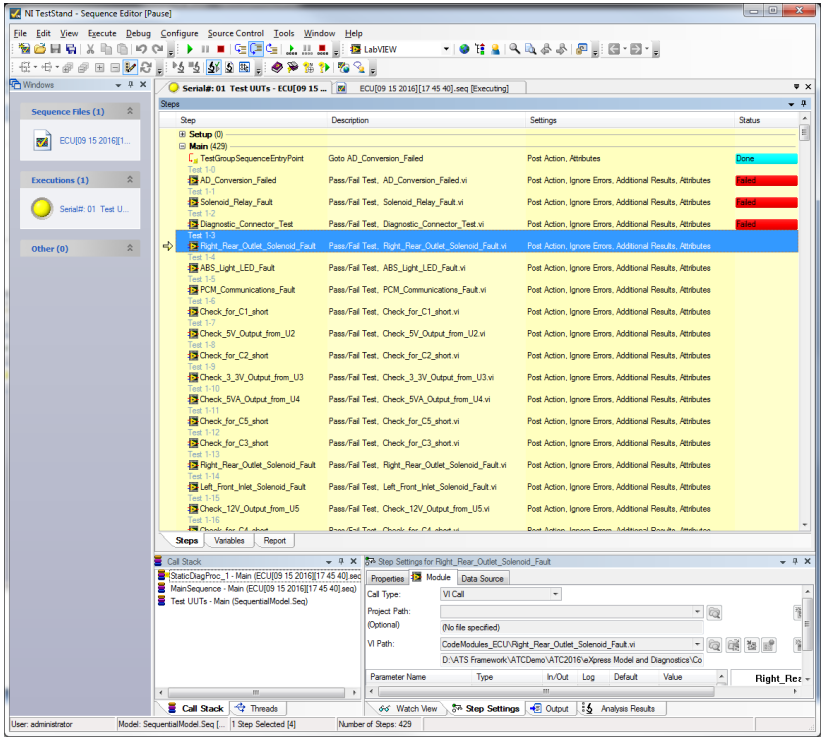


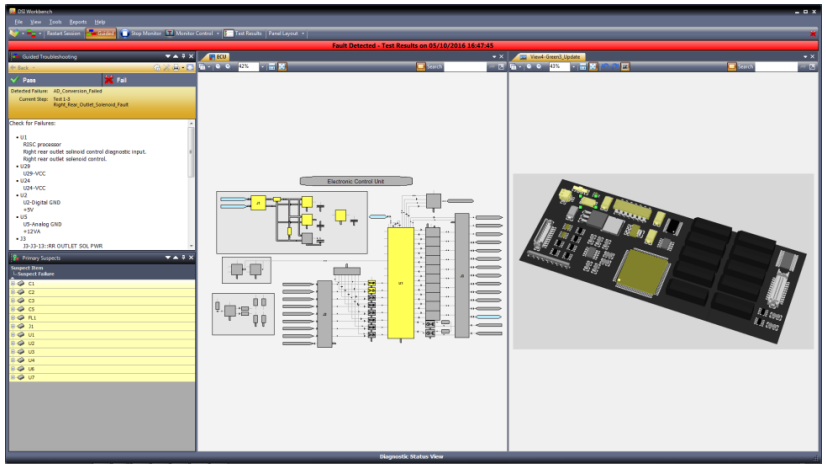
Step By Step Diagnostics



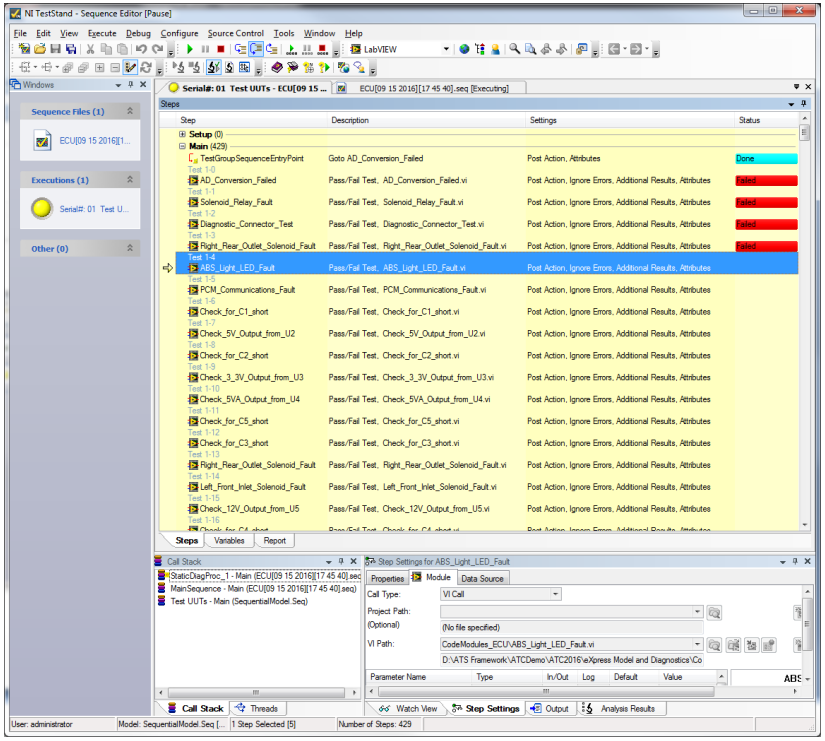


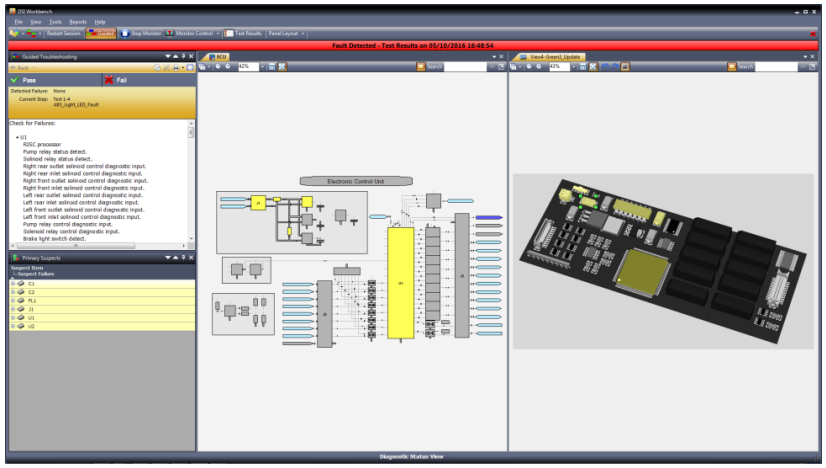
Step By Step Diagnostics



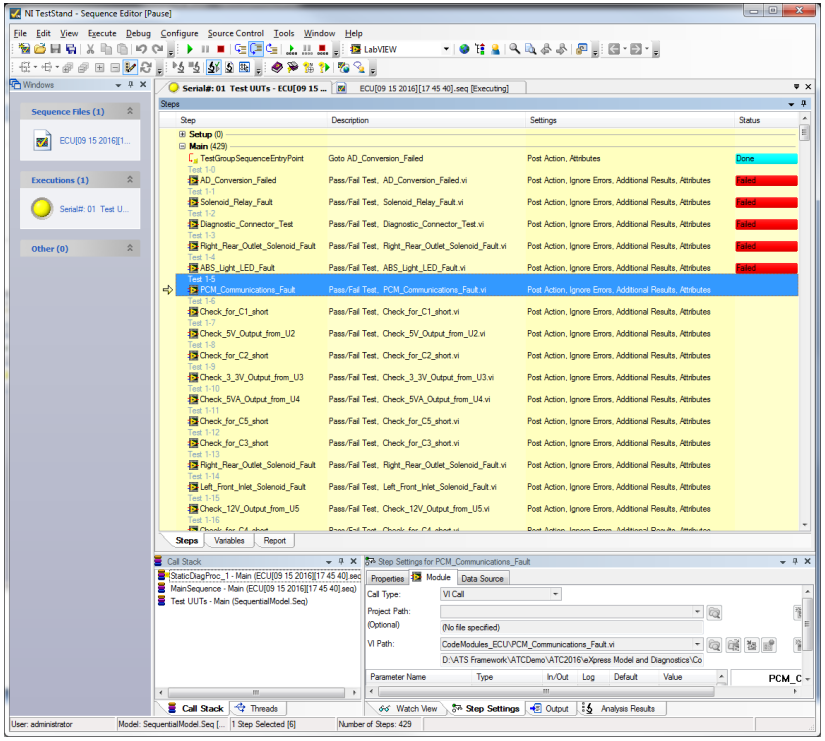


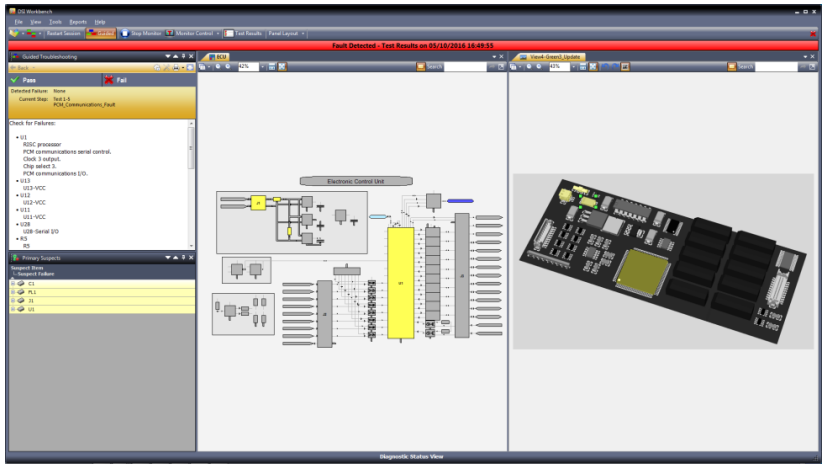
Step By Step Diagnostics



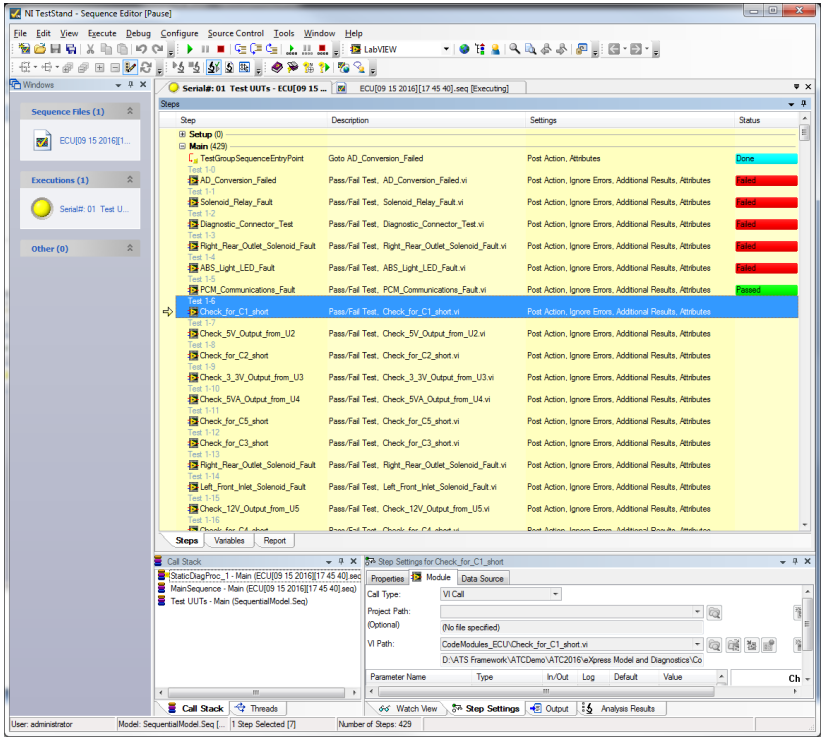


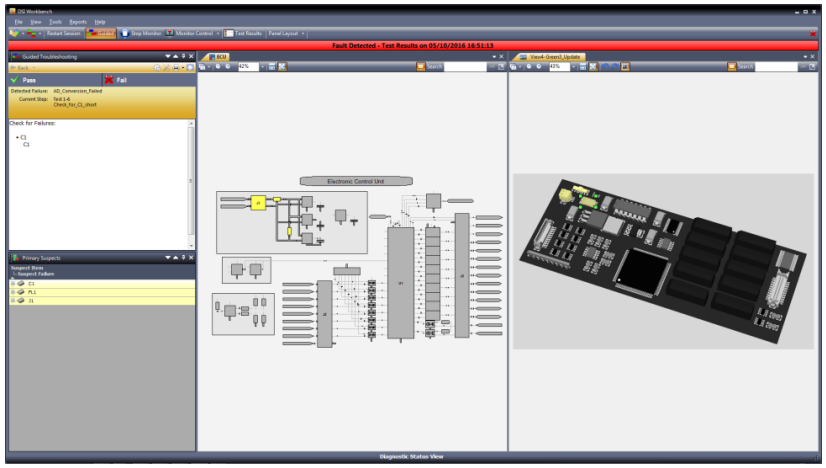
Step By Step Diagnostics



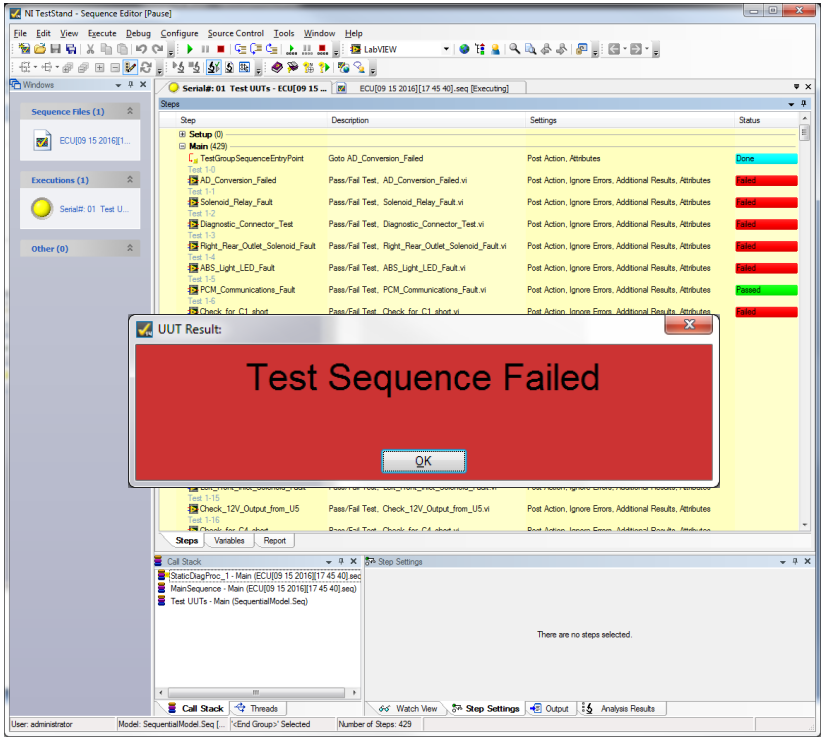


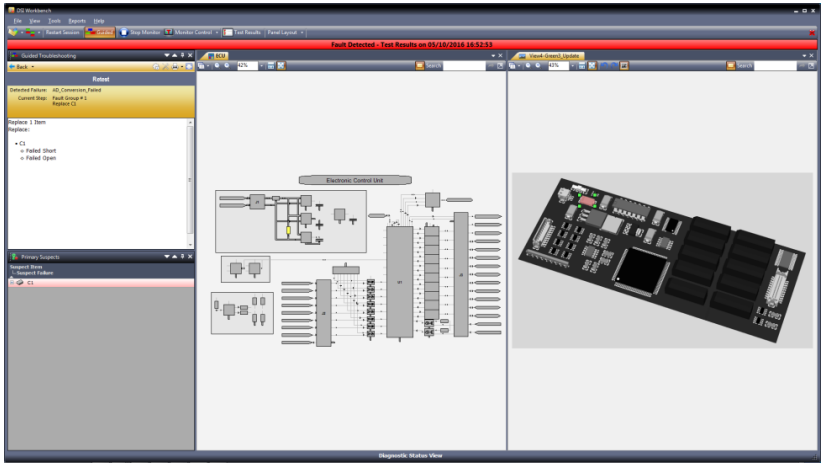
Step By Step Diagnostics



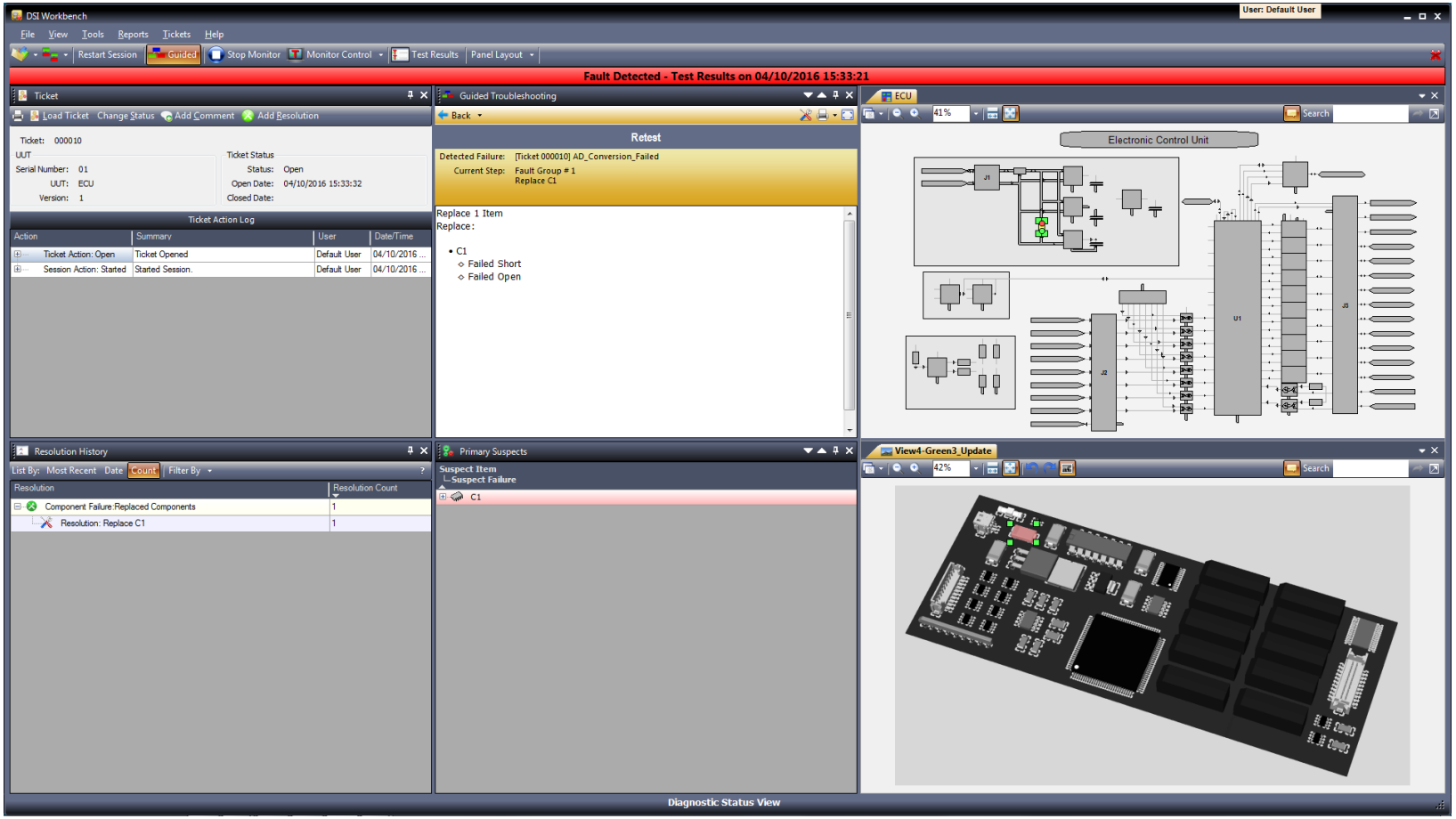


Step By Step Diagnostics

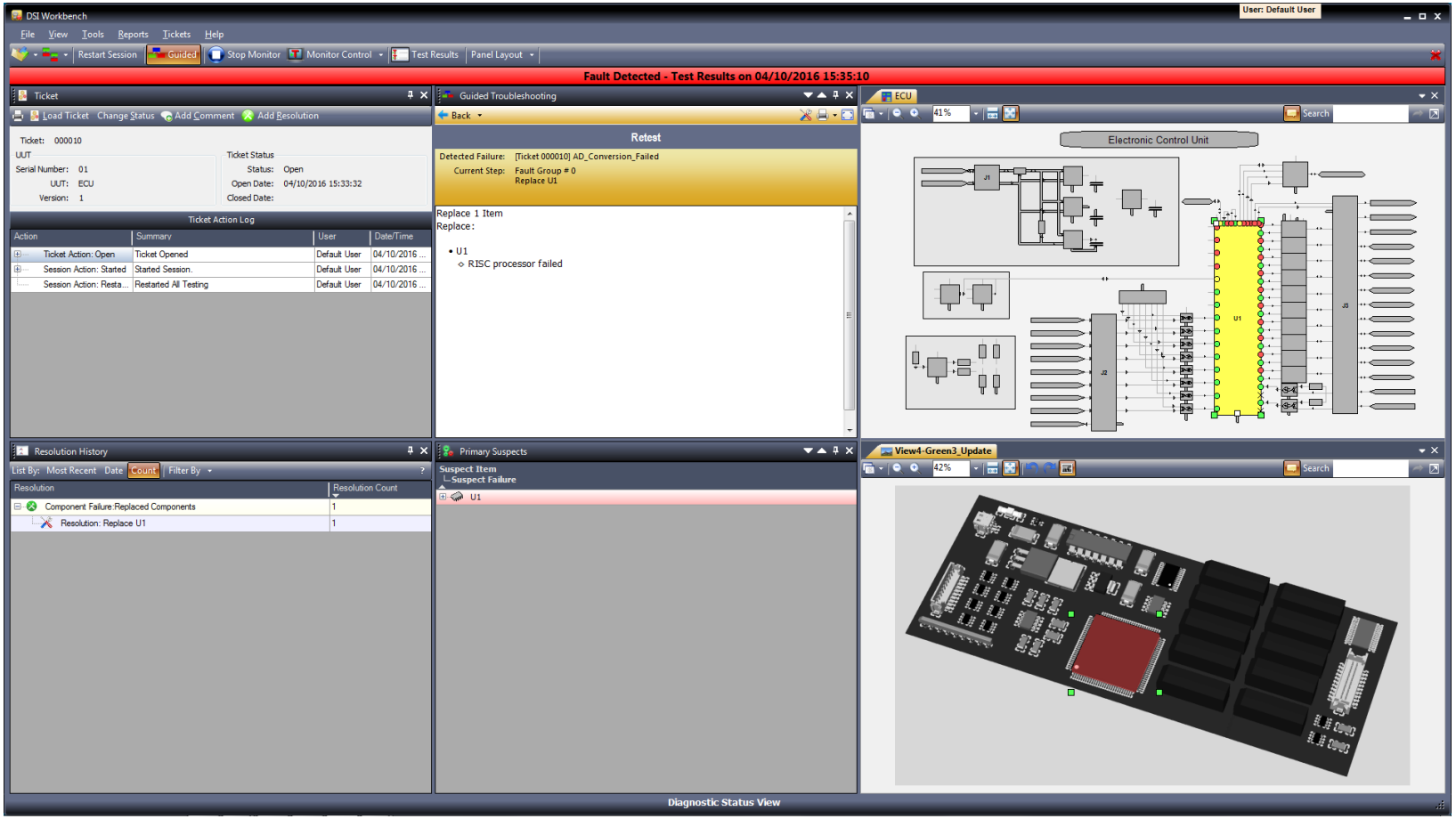
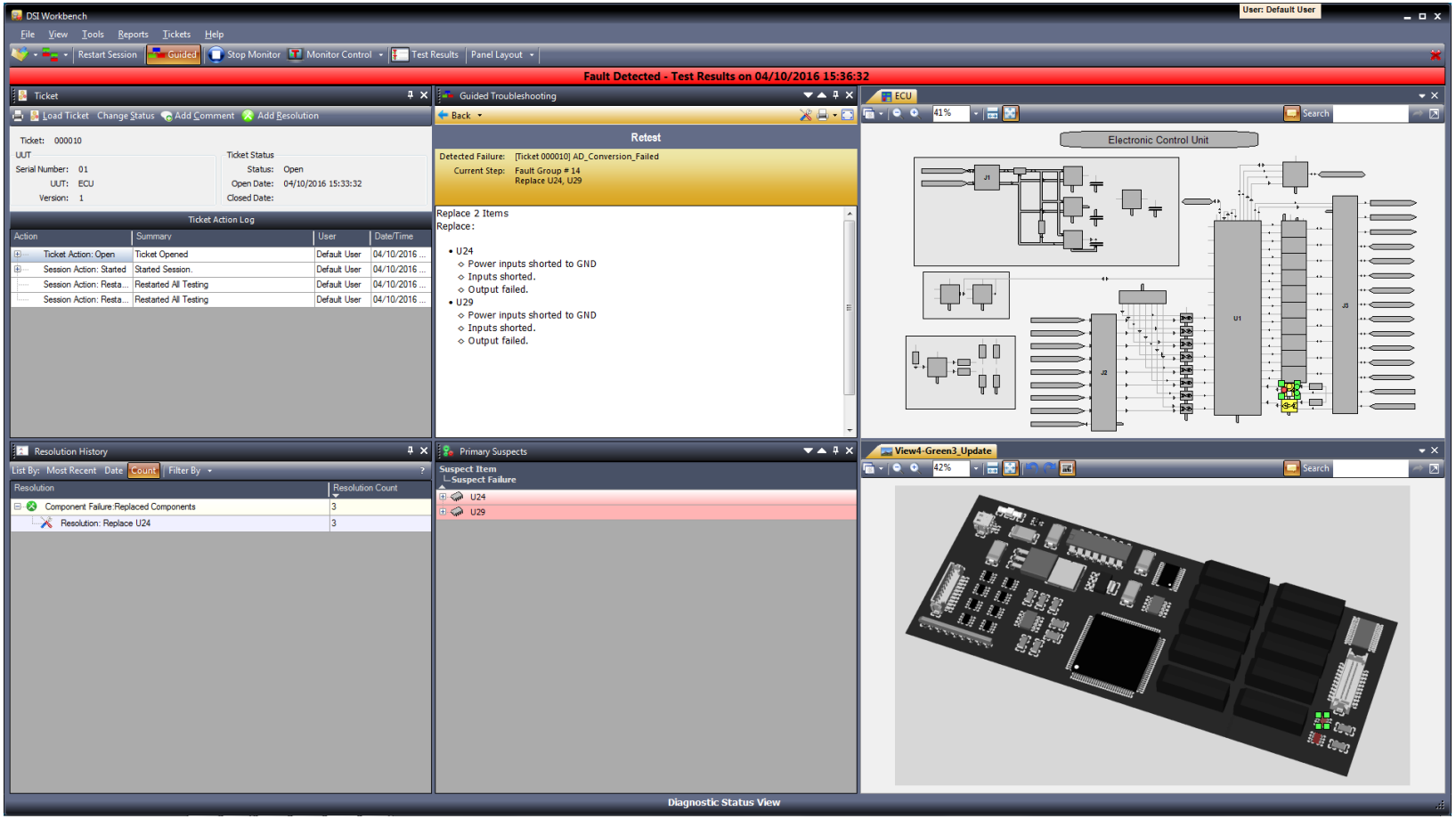




Adding Resolution and Repair History


DSI Workbench
User: Default User
File View Tools Reports Tickets Help
Restart Session Guided Stop Monitor Monitor Control Test Results Panel Layout
Fault Detected - Test Results on 04/10/2016 15:33:21
Ticket
Load Ticket Change Status Add Comment Add Resolution
Ticket: 000010
UUT
Serial Number: 01
UUT: ECU
Version: 1
Ticket Status
Status: Open
Open Date: 04/10/2016 15:33:32
Closed Date:
Ticket Action Log
Action Summary User Date/Time
Ticket Action: Open Ticket Opened Default User 04/10/2016 ...
Session Action: Started Started Session. Default User 04/10/2016 ...
Guided Troubleshooting
Back
Retest
Detected Failure: [Ticket 000010] AD_Conversion_Failed
Current Step: Fault Group # 1
Replace C1
Replace 1 Item
Replace:
C1
Failed Short
Failed Open
ECU
41%
Search
Electronic Control Unit
Resolution History
List By: Most Recent Date Count Filter By
Resolution Resolution Count
Component Failure:Replaced Components 1
Resolution: Replace C1 1
Primary Suspects
Suspect Item
Suspect Failure
C1
View4-Green3_Update
42%
Search
Diagnostic Status View

Step By Step Diagnostics



Step By Step Diagnostics