



# **EtherNet/IP™ - ODVA Conformance Test Results**

Test Information	
Scheduled Test Date	September 4, 2014
Composite Test Revision	CT11
ODVA File Number	11310.01
Test Type	Single Product

Vendor Information	
Vendor Name	Tolomatic

Device Information						
Device Information from Identity Object Instance* 1						
For multiple identity object in	For multiple identity object instances, additional Device Information tables are inserted into the report.					
Identity Object Attribute Value						
Attribute 1	Vendor ID (decimal)	1230				
Attribute 2	Device Type (hex)	0x2b				
Not an Attribute	Device Profile Name	Generic Device (keya	able)			
Attribute 4	Product Revision (decimal)	Major Rev	2	Minor rev	037	
Identity Object	Attribute	Value for Device 1 Value for Device 2		ce 2		
Attribute 3	Product Code (decimal)	9046		N/A		
Attribute 7	Product Name	ACS Drive & Contro	oller	N/A		

<sup>\*</sup>For multiple instances, additional Device Information tables should be inserted into the report.

TSP Information		
TSP Location	ODVA TSP - Ann Arbor	
Engineer Initials or Name	wbh	
Completion Date	September 4, 2014	
Test Result	PASS	
All advisories, warnings, and failures are summarized and described in Table 1 below.		





# **EtherNet/IP™ - ODVA Conformance Test Results**

#### **Table 1 Conformance Failures and Advisories**

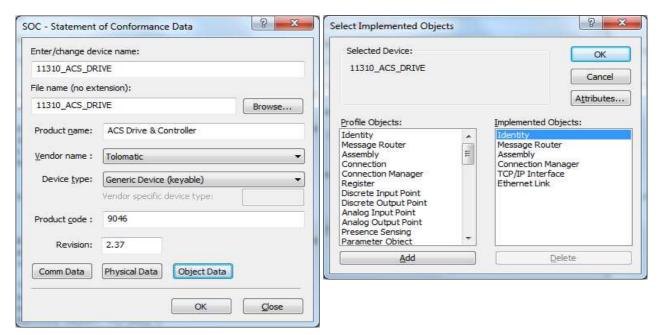
**NOTE**: **Advisories** indicate recommendations, Warnings indicate behavior that may be required to be changed before subsequent tests as indicated in Warning description, and **Failures** must be resolved to pass

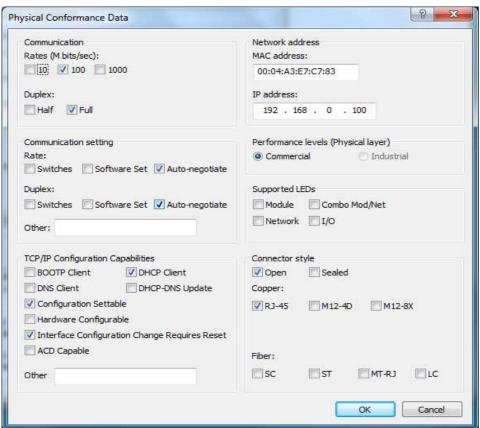
Index	Test Item	Advisories and Failures: Observed DUT Behavior	Required Behavior & Specification Reference
1	Protocol Test	Test passes - no errors	
2			
3			
4			
5			
6			
7			
8			





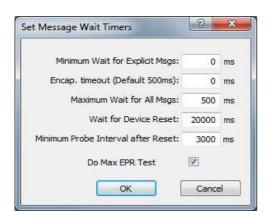
## **EtherNet/IP™ Device Under Test**

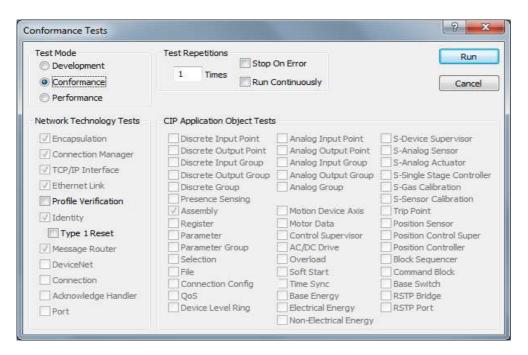
















# **EtherNet/IP<sup>™</sup> Conformance Composite Test Results - CT11**

DUT Name:	ACS Drive & Controller

#### 1 Protocol Conformance Test

Protocol Test Software Revision	CT11
SOC File Name	11310_ACS_DRIVE.stc
Protocol Test Log Files	11310_ACS_DRIVE.log 11310_ACS_DRIVE_ProfileTest.log
Result Pass/Fail	Pass

## 2 Physical Layer Test

If the product includes an LED identified by a label name defined in Chapter 9 of <u>EtherNet/IP Adaptation of CIP</u>, the product supports the LED. Supported LEDs must have the behaviors described below.

Industrial Grade Claimed in SOC	No		
2.1 Indicator check: LEDs supported		Present in DUT	Result
	Module Status LED	No	Pass
	Network Status LED	No	Pass
2.2 Module status LED operation			Result
The product contains a re	ed/green indicator for	the module status.	N/A
The indicator is labeled "MS", "	'Mod", "Mod Status",	or "Module Status".	N/A
Indicator operation (0.25 sec G	GREEN, then 0.25 sec	RED at a self-test).	N/A
2.3 Network status LED operation			Result
The product contains a re-	d/green indicator for	the network status.	N/A
The indicator is labeled "NS", "Net", "Net Status", or "Network Status".			N/A
Indicator operation (0.25 sec G	GREEN, then 0.25 sec	RED at a self-test).	N/A
2.4 Network connector		Present in DUT	Result
The DUT has a connector per Volume 2, Chapter 8 - (I	No "pigtail" allowed)	Yes	Pass
The DUT has a connector per Volume N/A if Industrial Grade is			N/A

#### 3 EDS File Test

5 LD3 The Test		
3.1 EDS File Syntax Utility	EZ-EDS Revision	on: 3.9
EDS File Name 3604	9654.eds	
EDS File Revision 1.3		
3.2 EDS File Minimum Content		Result
ProdType (must match Identity Object Attribute 2)	ProdType = 42	Pass
ProdCode (must match Identity Object Attribute 3)	ProdCode = 9046	Pass
MajRev (must match Identity Object Attribute 4, byte	0) MajRev = 2	Pass
EZ-EDS Result - Minimum Content		Pass
3.3 EDS File Connection Entries		Result
All connections defined: Keyword - Path and Sizes		Pass
3.4 EDS File Port Labels (multiple Ethernet Ports	only)	Result
All Ethernet Link Interface sections labels match Ethernet Link object labels		N/A





# 4 TCP/IP Interface Object Tests Object 0xF5 (245) (See EtherNet/IP Interoperability Specification for details)

(See Editerriet, In Interoperation	·, ·p········,		
4.1 Interface Configuration and Subnet Test Cases			Result
Interface Configuration - BOOTP (use Attribut	e 3 or other applicable interface to configure)		N/A
Interface Configuration - DHCP Client (use Att	ribute 3 or other interface to configure)		Pass
Interface Configuration - SW Configurable (us	ing stored values - use Attribute 3 to configure	e)	Pass
Interface Configuration - HW Configurable (se	tting address switches - use switches and attr	3)	N/A
Subnet test case 1 (Reply) (DHCP Server used	for setup - Get_Attribute_Single for request)		Pass
Subnet test case 2 (No reply) (PC interface Pr	operties - Get_Attribute_Single for request)		Pass
Subnet test case 3 (Reply) (DHCP Server used	for setup - Network Settings/DUT power cycl	e)	Pass
Subnet test case 4 (No reply) (Network Conne	ections -> Properties)		Pass
Subnet test case 5 (Reply) (DHCP Server use	d for setup - Network Settings/DUT power cyc	ile)	Pass
Subnet test case 6 (Widest Subnet - Reply) (S	Subnet mask for DUT - use 255.0.0.0)		Pass
TTL Test (Attr. 8) - See TTL Test Below	Get_AttributeSingle Status Code/Value:	0x14	N/A
MCast Test (Attr 9) - See TTL Test Below	Get_AttributeSingle Status Code/Value:	0x14	N/A
4.2 TCP/IP Objects - Multiple Interfaces Tests			Result
4.4.1 N/A if only one instance of the TCP/IP o	bject		N/A

#### 5 Ethernet Link Object Tests

Object 0xF6 (246)

Connect straight into the device for speed test cases(DO NOT USE A HUB - a crossover cable may be needed)

5.1 Ethernet Link Object Test Cases	Result
Speed test cases (Attribute 1) - Force PC NIC to 10Mbps (Full or Half) - Value reported OK	Pass
Speed test cases (Attribute 1) - Force PC NIC to 100Mbps, Full Duplex - Value reported OK	Pass
Interface Flags test cases (Attribute 2) - Force PC NIC to 100Mbps Full - Value reported OK	Pass
Interface Flags test cases (Attribute 2) - Force PC NIC to 100Mbps Half - Value reported OK	Pass
Force DUT and PC NIC to 100Mbps Full Duplex - DUT and PC communicate	N/A
Force DUT and PC NIC to 100Mbps Half Duplex - DUT and PC communicate	N/A
Force DUT and PC NIC to 10Mbps Full Duplex - DUT and PC communicate	N/A
Force DUT and PC NIC to 10Mbps Half Duplex - DUT and PC communicate	N/A
Physical Address test cases (attribute 3) - Match IEEE OUI listings - See wireshark capture	Pass

## 6 Port Scans (Direct connection from PC to DUT)

6.0 Port	0 Port Scans - Verify Device Reacheable during and after each Ports Scan session		
Index	Protocol		Result
1	TCP <nmap -n="" -ox="" -pscan-delay="" -r="" -v="" 1ms="" dut.ip.addr="" tcp.xml=""></nmap>	44818	Pass
2	UDP <nmap -n="" -ox="" -pscan-delay="" -r="" -su="" -v="" 1ms="" dut.ip.addr="" udp.xml=""></nmap>	2222, 44818	Pass
3	IP <nmap -n="" -ox="" -pscan-delay="" -r="" -so="" -v="" 1ms="" dut.ip.addr="" ip.xml=""></nmap>	1, 2, 6, 17	Pass

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