COUNTY OF ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

Special Election
37th Senatorial District
Experience Report
April 2, 2019

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April 2, 2019 Special Election to fill the vacancy in the 37th State Senate District due to the resignation of Guy Reschenthaler.

Of the 195,257 registered voters in the 37th State Senate District, 58,507 – 29.96% voted at the April 2, 2019 special election. This level of turnout is higher than previous "stand-alone" special elections.

A total 1641 absentee ballots were issued and 15 provisional ballots were cast.

Approximately 40,000 "emergency" ballots were supplied to the 214 polling places in the event that at least one half of the voting machines in a precinct were non-functional. No emergency ballots were issued.

2 Candidates appeared on the ballot.

Accessibility

All 1,322 polling places in this County have now been classified as "accessible" pursuant to the standards promulgated by the Secretary of the Commonwealth of Pennsylvania.

Logic and Accuracy Testing

Extensive automated and manual Logic and Accuracy Testing (L&A) was performed. Automated L&A was performed on every iVotronic voting machine and Personalized Electronic Ballot (PEB) deployed on Election Day. Manual L&A was also performed for each of the approximately 35 different municipalities that comprise the Senatorial District. Those parties and organizations permitted by Pennsylvania law to be present during this process were duly notified.

A "test deck" comprised of over 1,100 ballots, containing different vote totals for each candidate, was used to verify that the 7 ES&S Model 650 high-speed ballot counters would accurately count the absentee, provisional and emergency optical scan paper ballots to be used at the Election. This test was conducted prior to the Election as well as before final certification of the election results. In both tests, the ballot scanners produced an accurate count. The required public notice of the pre-election test was given.

Firmware Verification

Allegheny County employed the services of "GRP Consulting Group, LLC" to verify that the software resident on the iVotronic voting devices contain the "trusted build" version certified by the Pennsylvania Department of State. This process has been employed since 2008 and no instance of uncertified software have been detected. Copies of the reports prepared for the April 2, 2019 Special Election are attached below.

Network Security

Also following past practice, an independent third-party review was conducted both prior to and after the past Special Election to assure that our election network was isolated and not connected to any external network. A copy of the report produced by "Solutions4Networks" is attached below.

Parallel Testing

Since the November 2006 Election, Allegheny County has employed a Certified Public Accounting firm to ensure that the functionality of the iVotronic voting machine devices have not been compromised. The parallel testing performed at the April 2, 2019 Special Election demonstrated that the randomly-selected voting devices recorded and counted all votes completely and correctly. A copy of the report issued by Baker Tilly is attached below.

GRP Consulting Group, LLC
4915 Twin Lakes Rd
Suite 15
Boulder, Colorado 80301
tel: 303/249-0445

GRP Consulting Group, LLC

Allegheny County Pre-May 21, 2019
Municipal Primary Election
ES&S iVotronics
Firmware Verification Study

Executive Summary

Developed for:

Allegheny County
Division of Elections
State of Pennsylvania

Document Number GCG-AC-iVo-FRPT-000241

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1. INTRODUCTION: ALLEGHENY COUNTY ES&S IVOTRONICS FIRMWARE VERIFICATION STUDY

The Allegheny County, Pennsylvania Division of Elections requested GRP Consulting Group to audit and verify the firmware source code on twenty (20) ES&S iVotronic DRE voting machines before conducting the May 21, 2019 Municipal Primary Election. The devices to be audited were randomly selected from the County's 4700 devices. The purpose was to verify that the samples have in residence on the U1 designated Electronic Erasable Programmable Read Only Memory (EEPROM) chip, the firmware version 9.1.4.1, and all applied firmware versions are accurate and true to the State of Pennsylvania's Trusted Build, as held in escrow by the Secretary of State's Office in Harrisburg. The study was accomplished by applying the *'Allegheny County iVotronic Firmware Verification Protocol'* and was performed on location at the Allegheny County Division of Elections warehouse, located at 901 Pennsylvania Ave., Pittsburgh, Pennsylvania. GRP Consulting Group and Allegheny County staff performed this firmware audit on February 11, 2019.

It is the finding of GRP Consulting Group that the firmware verification audit applied to the resident code on the sample population was found to be unaltered versions of the 9.1.4.1 firmware.

1.1 Approach

1.1.1 Study's Focus

The focus of the exercise was:

1. Implementation of a fair and statically correct random selection process.
2. Deploy the verification protocol, known as the *'Allegheny County iVotronic Firmware Verification Protocol'*, to verify on twenty (20) randomly chosen ES&S iVotronics DRE voting devices that they hold in residence on the U1 designated EEPROM chip, the exact, true and unaltered version of the 9.1.4.1 certified firmware source code, as held in escrow at the Secretary of State's office.

1.1.2 Study's Concentration

The GRP Consulting Group analyst was tasked to independently apply a repeatable and validated verification protocol to verify that the ES&S firmware version 9.1.4.1 that resides in escrow by the Secretary of State's office and is resident on the Allegheny County iVotronic Direct-Recording Entry (DRE) – touch screen voting devices – are exact, true and unaltered versions of the certified firmware source code.

1.1.3 Study's Phases

GRP Consulting Group organized the project primary phases, each incorporating the flexibility to accommodate additional requirements, as they may have become known. The general strategy employed was comprised of the following aspects:

1. Setup, configure and control the verification environment and the parameters associated with each verification cycle;
2. Apply the SHA256 algorithm to verify that before the May 21, 2019 Municipal Primary Election, the 9.1.4.1 firmware on the iVotronic DREs is the true and certified version of the firmware and has not been altered;
3. Execute twenty (20) verification cycles;
4. Conduct reviews and analyses of all verification results and anomalies obtained during the twenty (20) verification execution cycles;
5. Advise the County on possible root cause(s) of any and all anomalies; and
6. Prepare and deliver a report of the verification activities, the results of all verification executions, and conclusions and recommendations in Executive Summary and Final Report formats.

2. FINDINGS

GRP Consulting Group was engaged by the Allegheny Division of Elections on site at 901 Pennsylvania Ave., Pittsburgh, PA on February 11, 2019. The purpose of the engagement was to apply the '*Allegheny County iVotronic Firmware Verification Protocol'* to verify the ES&S iVotronic firmware version 9.1.4.1 is resident on the Allegheny County iVotronic population.

On February 11, 2019, the GRP Consulting Group analyst completed the verification process of the firmware on twenty (20) Allegheny County iVotronics chosen at random from the population of approximately 4700 machines. It is the findings of GRP Consulting Group that the firmware version 9.1.4.1 residing on the twenty (20) randomly chosen machines, do represent the population, and furthermore, that the firmware version as resident on the U1 designated Electronic Erasable Programmable Read Only Memory (EEPROM) chip is an exact, true, and unaltered version of the NVLAP federally-certified trusted build as held in archive at SysTest Labs and in escrow by the Pennsylvania Secretary of State in Harrisburg, PA.

County of Allegheny

Pre/Post-Election Air Gap Analysis of the Tabulation Network

8 April 2019

Research and Recommendations Provided by:

a network infrastructure company

Prepared by:
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Network Security Practice Lead
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Overview

The County of Allegheny has engaged solutions4networks to perform a network air gap analysis of their elections tabulation network located in Pittsburgh, PA. An **air gap**, **air wall** or **air gapping** is a network security measure employed on one or more computers to ensure that a secure computer network is physically isolated from unsecured networks, such as the public Internet or an unsecured local area network. solutions4networks has been tasked to verify the tabulation network is a stand-alone, isolated network and to assess the networks' vulnerability to external access and/or tampering. In addition to the network, solutions4network has been asked to assess and document the general physical security of the warehouse building.

A pre-election onsite visit was made by Frank Calderone of solutions4networks on April 1, 2019. The purpose of this document is to report the results of the assessment, identify security concerns and to make recommendations for the remediation of these concerns. A post-election onsite visit was made by Jacob Winkle of solutions4networks on April 4, 2019. This report covers both the pre-election assessment and the post-election review. Post-election review updates will be noted in red.

Site Contacts

Elizabeth Dell
Elizabeth.Dell@AlleghenyCounty.US
412-350-6059

Robin Gigliotti
Robin.Gigliotti@AlleghenyCounty.US
412-350-6647

901 Pennsylvania Avenue
Pittsburgh, PA 15233

General Physical Security/Building Access

Physical Security/Building Access - No Issues Found

There are several suites within the warehouse. There is only one sign identifying space within the warehouse belonging to Allegheny County and it is taped to the window of the main entrance. It is for Suite 5 and is for the 'Allegheny County Human Services - Transportation Division'. The building phone at the main entrance also did not have any entries to dial for the County of Allegheny.

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Building Main Entrance:

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Main Entrance Suite 5 Sign:

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The Elections Tabulation is in Suite 6, there is no exterior monitoring at the entrance of Suite 6, to gain entrance one must have a key or card access to the steel door or contact someone within the warehouse.

Suite 6 Door Locks:

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04/01/2019 - solutions4networks engineer, Frank Calderone, was met at the street entrance of 901 Pennsylvania Ave., Suite 6, by Robin Gigliotti after placing a call to her mobile phone. Before entrance was allowed proof of identification was requested and was provided via a valid Pennsylvania driver's license.

04/04/2019 - solutions4networks engineer, Jacob Winkle, was met at the street entrance of 901 Pennsylvania Ave., Suite 6, by Robin Gigliotti after placing a call to her mobile phone. Before entrance was allowed proof of identification was requested and was provided via a valid Pennsylvania driver's license.

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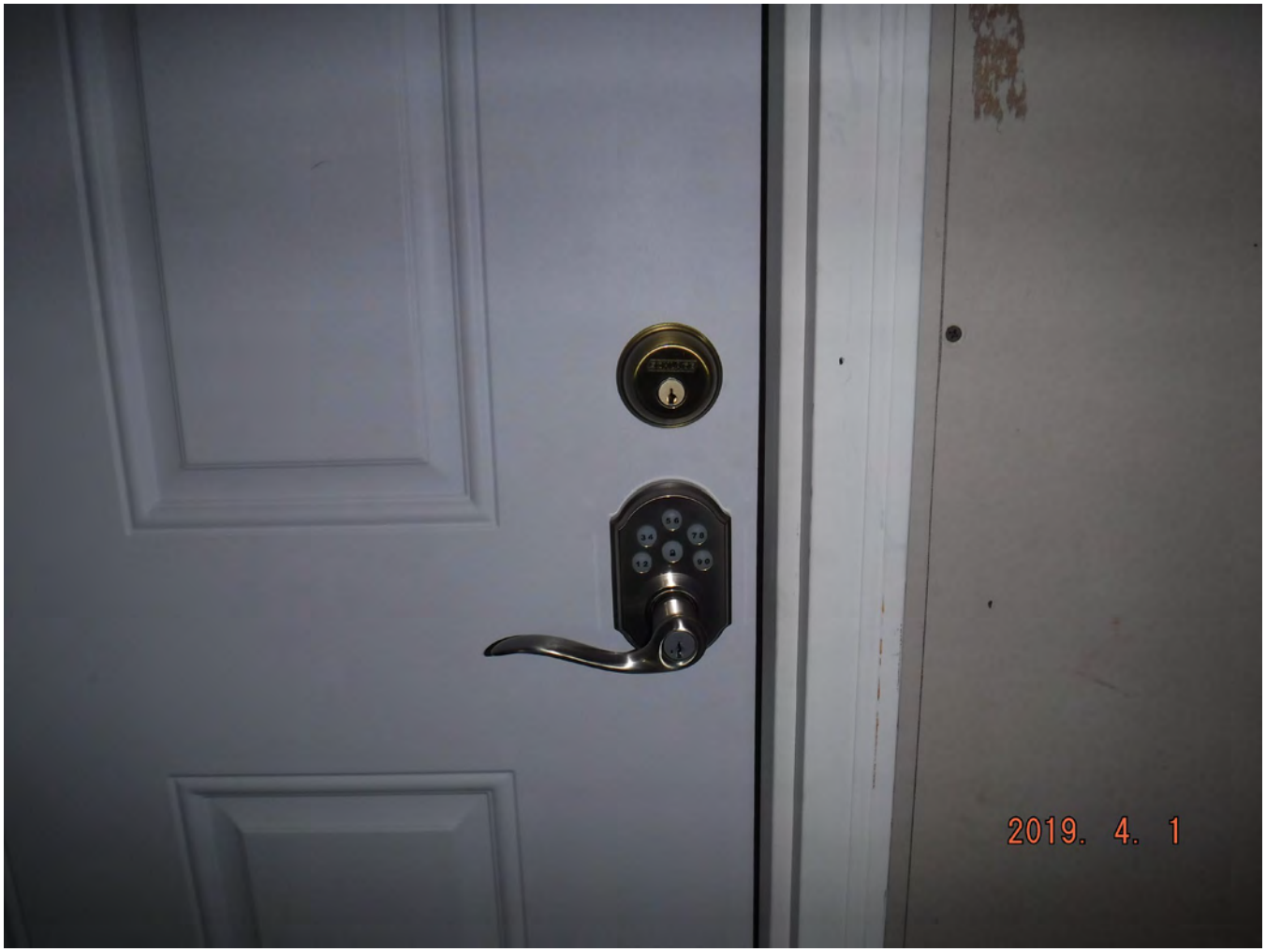
The first door in the warehouse required a security code, but it was a physical, non-electronic lock:



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Entrance into the Computer Room requires a code or a physical key and is monitored by a security camera:

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This document contains Confidential and Proprietary information for use only by solutions4networks and its intended recipients, and must not be disclosed to unauthorized individuals, without prior, express written consent from solutions4networks.

Entrance to the tabulation room required an electronic badge or key:

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Security Camera in Tabulation Room:

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There are several signs posted in the tabulation room stating 'No Cell Phones Permitted':

Physical Post-Election Review: All items indicated above remained the same.

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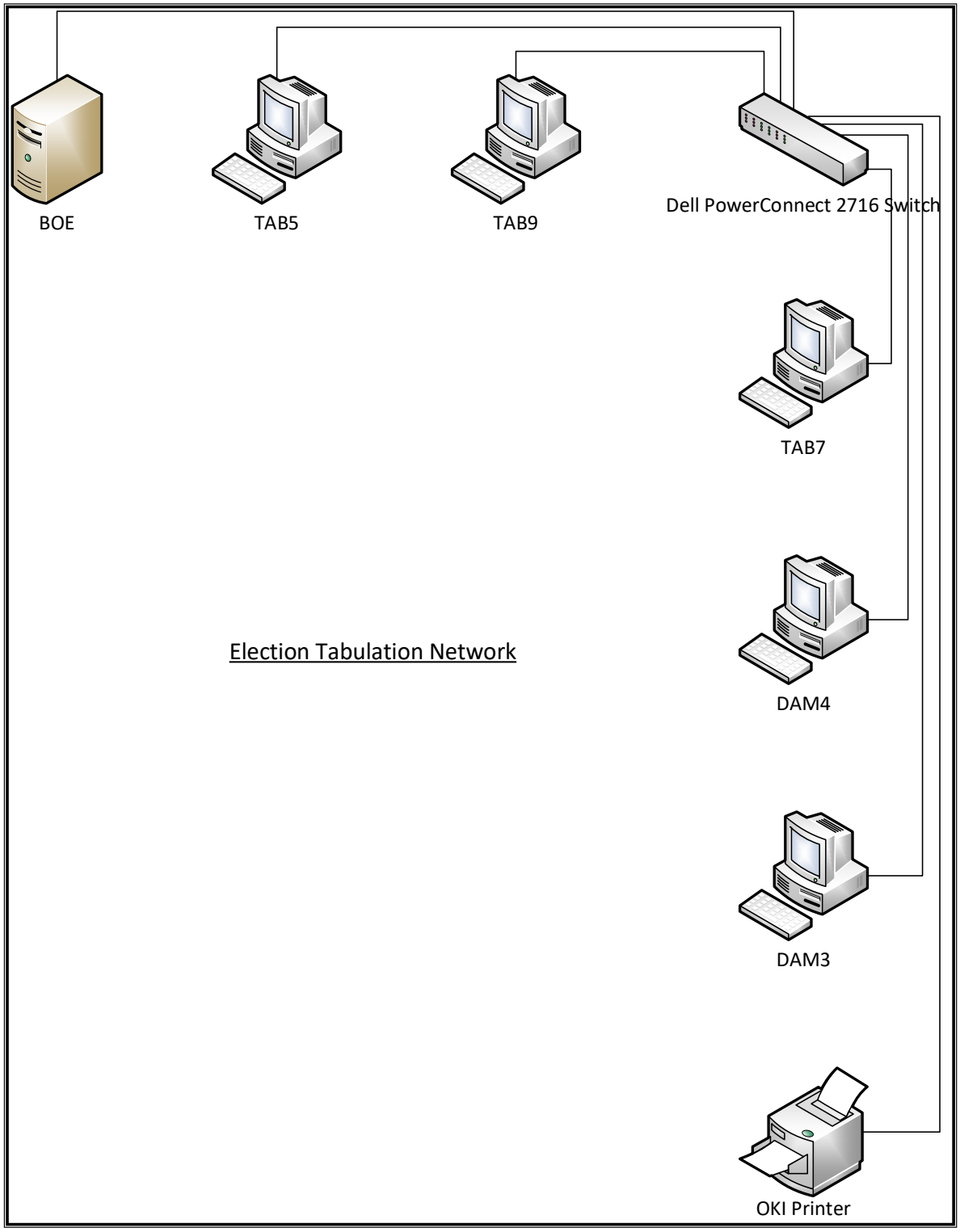
Election Tabulations Network

Network Overview

The solutions4networks engineer created the following network drawing based off the observed finding from the onsite physical inspections performed during the air gap analysis.



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The Election Tabulation Network consisted of the following devices:

- 1 Dell PowerConnect 2716 Ethernet Switch
- 1 Windows Server
- 5 Client PC's
    - Two DAM (Dial Access Modem) Servers
    - 3 Windows XP Clients
- 1 Printer

Network Overview - Logical

All the devices had an address from RFC1918 private network 192.168.1.0/24. The Windows Server with address 192.168.1.20 provided DHCP, DNS and WINS services. A default gateway of 192.168.1.1 was configured, but no such device was found on the network. All devices on the network could ping each other so the network was fully self-contained and each node was accessible to one another.

Post-Election Review: All items indicated above remained the same.

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Network Overview – Physical

Dell Server PE-SC1420	Dell Optiplex 790	Dell Optiplex 790	Dell Optiplex 790	Dell Optiplex 790	Dell Optiplex 790	Okidata Printer B6300
BOE.elections.local	TAB5.elections.local	TAB9.elections.local	TAB7.elections.local	DAM4.elections.local	DAM3.elections.local	
provides DHCP, WINS, DNS Services	DHCP enabled	DHCP enabled	DHCP enabled	static	DHCP enabled/	DHCP Reserved
Win2003 SP1	Win XP Pro ver 2002 SP3	Win XP Pro ver 2002 SP3	Win XP Pro ver 2002 SP3	WinXP SP3	WinXP SP3	
Dell Server PESC1420						
intel Xeon CPU 3.20 GHZ	Intel core i5-2400 CPU 3.1 GHz	Intel core i5-2400 CPU 3.1 GHz	Intel core i5-2400 CPU 3.1 GHz	Intel Xeon 5110@1.60GHz		
3.19 GHz 2.00 GB RAM	3.09 GHZ, 3.16 GB Ram	3.09 GHZ, 3.16 GB Ram	3.09 GHZ, 3.16 GB Ram	1.60 GHz, 2.00 GB Ram		
2GB Ram	4 GB Ram	4 GB Ram	4 GB Ram	4 GB Ram	4 GB Ram	
IP: 192.168.1.20 (static)	IP: 192.168.1.10	IP: 192.168.1.12	IP: 192.168.1.40	IP: 192.168.1.101	IP: 192.168.1.41	IP: 192.168.1.50
netmask: 255.255.255.0	netmask: 255.255.255.0	netmask: 255.255.255.0	netmask: 255.255.255.0	netmask: 255.255.255.0	netmask: 255.255.255.0	netmask: 255.255.255.0
gateway: 192.168.1.1	gateway: 192.168.1.1 (doesn't exist)	gateway: 192.168.1.1 (doesn't exist)	gateway: 192.168.1.1 (doesn't exist)	none	gateway: 192.168.1.1 (doesn't exist)	
DNS: 192.168.1.20	DHCP Server: 192.168.1.20	DHCP Server: 192.168.1.20	DHCP Server: 192.168.1.20		DHCP Server: 192.168.1.20	
WINS: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	
	Wins Server: 192.168.1.20	Wins Server: 192.168.1.20	Wins Server: 192.168.1.20			
wired keyboard	wired keyboard	wired keyboard	wired keyboard	wired keyboard	wired keyboard	
wired mouse	wired mouse	wired mouse	wired mouse	wired mouse	wired mouse	
Intel Pro 1000 MT LAN connection	Gigabit LAN connection	Gigabit LAN connection	Gigabit LAN connection	Gigabit LAN connection	Gigabit LAN connection	

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BOE.elections.local

BOE Front

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BOE Rear

Information Collected from BOE CLI:

C:\Documents and Settings\Administrator>hostname

BOE

C:\Documents and Settings\Administrator>whoami

elections\administrator

C:\Documents and Settings\Administrator>ipconfig /all

Windows IP Configuration

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Host Name . . . . . : BOE

Primary Dns Suffix . . . . . : elections.local

Node Type . . . . . : Hybrid

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

DNS Suffix Search List. . . . . : elections.local

Ethernet adapter Server LAN NIC:

Connection-specific DNS Suffix . :

Description . . . . . : Intel(R) PRO/1000 MT Network Connection

Physical Address. . . . . : 00-14-22-60-3F-94

DHCP Enabled. . . . . : **No**

IP Address. . . . . : **192.168.1.20**

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . : **192.168.1.1**

DNS Servers . . . . . : 192.168.1.20

Primary WINS Server . . . . . : 192.168.1.20

C:\Documents and Settings\Administrator>arp -a

Interface: 192.168.1.20 --- 0x10003

Internet Address	Physical Address	Type
192.168.1.1	00-00-00-00-00-00	invalid
192.168.1.10	18-03-73-14-1c-2c	dynamic

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```
C:\Documents and Settings\Administrator>netstat -rn

IPv4 Route Table
===========================================================================
Interface List
0x1 ........................... MS TCP Loopback interface
0x10003 ...00 14 22 60 3f 94 ...... Intel(R) PRO/1000 MT Network Connection
===========================================================================
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0      192.168.1.1     192.168.1.20     10
        127.0.0.0        255.0.0.0        127.0.0.1        127.0.0.1      1
      192.168.1.0    255.255.255.0     192.168.1.20     192.168.1.20     10
    192.168.1.20  255.255.255.255        127.0.0.1        127.0.0.1     10
  192.168.1.255  255.255.255.255     192.168.1.20     192.168.1.20     10
        224.0.0.0        240.0.0.0     192.168.1.20     192.168.1.20     10
  255.255.255.255  255.255.255.255     192.168.1.20     192.168.1.20      1
Default Gateway:       192.168.1.1
===========================================================================
Persistent Routes:
  None
```


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C:\Documents and Settings\Administrator>netstat -an

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:25	0.0.0.0:0	LISTENING
TCP	0.0.0.0:42	0.0.0.0:0	LISTENING
TCP	0.0.0.0:53	0.0.0.0:0	LISTENING
TCP	0.0.0.0:80	0.0.0.0:0	LISTENING
TCP	0.0.0.0:88	0.0.0.0:0	LISTENING
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:389	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:464	0.0.0.0:0	LISTENING
TCP	0.0.0.0:593	0.0.0.0:0	LISTENING
TCP	0.0.0.0:636	0.0.0.0:0	LISTENING
TCP	0.0.0.0:691	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1026	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1027	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1068	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1074	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1076	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1077	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1078	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1081	0.0.0.0:0	LISTENING

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TCP	0.0.0.0:1097	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1103	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1155	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1164	0.0.0.0:0	LISTENING
TCP	0.0.0.0:1167	0.0.0.0:0	LISTENING
TCP	0.0.0.0:2160	0.0.0.0:0	LISTENING
TCP	0.0.0.0:2161	0.0.0.0:0	LISTENING
TCP	0.0.0.0:2260	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3052	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3268	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3269	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3389	0.0.0.0:0	LISTENING
TCP	0.0.0.0:6001	0.0.0.0:0	LISTENING
TCP	0.0.0.0:6002	0.0.0.0:0	LISTENING
TCP	0.0.0.0:6004	0.0.0.0:0	LISTENING
TCP	0.0.0.0:6358	0.0.0.0:0	LISTENING
TCP	0.0.0.0:6548	0.0.0.0:0	LISTENING
TCP	0.0.0.0:8081	0.0.0.0:0	LISTENING
TCP	0.0.0.0:10000	0.0.0.0:0	LISTENING
TCP	0.0.0.0:34571	0.0.0.0:0	LISTENING
TCP	0.0.0.0:34572	0.0.0.0:0	LISTENING
TCP	0.0.0.0:34573	0.0.0.0:0	LISTENING
TCP	127.0.0.1:389	127.0.0.1:48177	**ESTABLISHED**
TCP	127.0.0.1:389	127.0.0.1:48499	TIME_WAIT
TCP	127.0.0.1:1090	127.0.0.1:389	CLOSE_WAIT

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TCP	127.0.0.1:1111	127.0.0.1:389	CLOSE_WAIT
TCP	127.0.0.1:1160	127.0.0.1:389	CLOSE_WAIT
TCP	127.0.0.1:1170	127.0.0.1:389	CLOSE_WAIT
TCP	127.0.0.1:48177	127.0.0.1:389	**ESTABLISHED**
TCP	192.168.1.20:135	192.168.1.20:1175	**ESTABLISHED**
TCP	192.168.1.20:135	192.168.1.20:48493	**ESTABLISHED**
TCP	192.168.1.20:135	192.168.1.20:48494	**ESTABLISHED**
TCP	192.168.1.20:135	192.168.1.20:48497	**ESTABLISHED**
TCP	192.168.1.20:135	192.168.1.40:1536	**ESTABLISHED**
TCP	192.168.1.20:135	192.168.1.101:1074	**ESTABLISHED**
TCP	192.168.1.20:139	0.0.0.0:0	LISTENING
TCP	192.168.1.20:389	192.168.1.20:48162	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48163	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48164	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48165	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48166	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48167	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48168	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48169	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48170	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48171	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48173	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48174	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48176	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48178	**ESTABLISHED**

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TCP	192.168.1.20:389	192.168.1.20:48180	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48182	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48183	**ESTABLISHED**
TCP	192.168.1.20:389	192.168.1.20:48410	FIN_WAIT_2
TCP	192.168.1.20:389	192.168.1.20:48422	TIME_WAIT
TCP	192.168.1.20:389	192.168.1.20:48504	TIME_WAIT
TCP	192.168.1.20:389	192.168.1.20:48505	**ESTABLISHED**
TCP	192.168.1.20:691	192.168.1.20:1110	**ESTABLISHED**
TCP	192.168.1.20:691	192.168.1.20:1165	**ESTABLISHED**
TCP	192.168.1.20:691	192.168.1.20:1173	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:1106	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:1220	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:1360	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:47884	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:48481	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:48495	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.20:48498	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.40:1537	**ESTABLISHED**
TCP	192.168.1.20:1026	192.168.1.101:1075	**ESTABLISHED**
TCP	192.168.1.20:1092	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:1106	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:1110	192.168.1.20:691	**ESTABLISHED**
TCP	192.168.1.20:1114	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:1141	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:1143	192.168.1.20:389	CLOSE_WAIT

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TCP	192.168.1.20:1144	192.168.1.20:3268	CLOSE_WAIT
TCP	192.168.1.20:1145	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:1146	192.168.1.20:3268	CLOSE_WAIT
TCP	192.168.1.20:1161	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:1165	192.168.1.20:691	**ESTABLISHED**
TCP	192.168.1.20:1173	192.168.1.20:691	**ESTABLISHED**
TCP	192.168.1.20:1175	192.168.1.20:135	**ESTABLISHED**
TCP	192.168.1.20:1220	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:1360	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:3268	192.168.1.20:48179	**ESTABLISHED**
TCP	192.168.1.20:3268	192.168.1.20:48181	**ESTABLISHED**
TCP	192.168.1.20:3268	192.168.1.20:48184	**ESTABLISHED**
TCP	192.168.1.20:3268	192.168.1.20:48186	**ESTABLISHED**
TCP	192.168.1.20:47884	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:48162	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48163	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48164	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48165	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48166	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48167	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48168	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48169	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48170	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48171	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48173	192.168.1.20:389	**ESTABLISHED**

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TCP	192.168.1.20:48174	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48175	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:48176	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48178	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48179	192.168.1.20:3268	**ESTABLISHED**
TCP	192.168.1.20:48180	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48181	192.168.1.20:3268	**ESTABLISHED**
TCP	192.168.1.20:48182	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48183	192.168.1.20:389	**ESTABLISHED**
TCP	192.168.1.20:48184	192.168.1.20:3268	**ESTABLISHED**
TCP	192.168.1.20:48186	192.168.1.20:3268	**ESTABLISHED**
TCP	192.168.1.20:48327	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:48410	192.168.1.20:389	CLOSE_WAIT
TCP	192.168.1.20:48481	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:48493	192.168.1.20:135	**ESTABLISHED**
TCP	192.168.1.20:48494	192.168.1.20:135	**ESTABLISHED**
TCP	192.168.1.20:48495	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:48497	192.168.1.20:135	**ESTABLISHED**
TCP	192.168.1.20:48498	192.168.1.20:1026	**ESTABLISHED**
TCP	192.168.1.20:48500	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.20:48501	192.168.1.20:3268	TIME_WAIT
TCP	192.168.1.20:48502	192.168.1.20:53	TIME_WAIT
TCP	192.168.1.20:48503	192.168.1.20:53	TIME_WAIT
TCP	192.168.1.20:48505	192.168.1.20:389	**ESTABLISHED**
UDP	0.0.0.0:42	*:*	

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```
UDP    0.0.0.0:135          *:*
UDP    0.0.0.0:445          *:*
UDP    0.0.0.0:500          *:*
UDP    0.0.0.0:1035         *:*
UDP    0.0.0.0:1065         *:*
UDP    0.0.0.0:1073         *:*
UDP    0.0.0.0:1082         *:*
UDP    0.0.0.0:1098         *:*
UDP    0.0.0.0:1104         *:*
UDP    0.0.0.0:1168         *:*
UDP    0.0.0.0:1221         *:*
UDP    0.0.0.0:1434         *:*
UDP    0.0.0.0:2160         *:*
UDP    0.0.0.0:2161         *:*
UDP    0.0.0.0:3456         *:*
UDP    0.0.0.0:3457         *:*
UDP    0.0.0.0:4500         *:*
UDP    0.0.0.0:7846         *:*
UDP    0.0.0.0:38293        *:*
UDP    127.0.0.1:53         *:*
UDP    127.0.0.1:123        *:*
UDP    127.0.0.1:1064       *:*
UDP    127.0.0.1:1066       *:*
UDP    127.0.0.1:1083       *:*
UDP    127.0.0.1:1091       *:*
```


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UDP	127.0.0.1:1101	*:*
UDP	127.0.0.1:1107	*:*
UDP	127.0.0.1:1154	*:*
UDP	127.0.0.1:1158	*:*
UDP	127.0.0.1:1169	*:*
UDP	127.0.0.1:1176	*:*
UDP	127.0.0.1:1185	*:*
UDP	127.0.0.1:1188	*:*
UDP	127.0.0.1:1193	*:*
UDP	127.0.0.1:1215	*:*
UDP	127.0.0.1:1337	*:*
UDP	127.0.0.1:1446	*:*
UDP	127.0.0.1:3456	*:*
UDP	127.0.0.1:3457	*:*
UDP	192.168.1.20:53	*:*
UDP	192.168.1.20:67	*:*
UDP	192.168.1.20:68	*:*
UDP	192.168.1.20:88	*:*
UDP	192.168.1.20:123	*:*
UDP	192.168.1.20:137	*:*
UDP	192.168.1.20:138	*:*
UDP	192.168.1.20:389	*:*
UDP	192.168.1.20:464	*:*
UDP	192.168.1.20:2535	*:*

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C:\Documents and Settings\Administrator>systeminfo

Host Name: BOE

OS Name: Microsoft(R) Windows(R) Server 2003 for Small Business Server

OS Version: 5.2.3790 Service Pack 1 Build 3790

OS Manufacturer: Microsoft Corporation

OS Configuration: Primary Domain Controller

OS Build Type: Multiprocessor Free

Registered Owner: Allegheny County, PA

Registered Organization: Board of Elections

Product ID: 74995-OEM-4211904-03020

Original Install Date: 5/8/2006, 1:24:53 PM

System Up Time: 35 Days, 0 Hours, 46 Minutes, 33 Seconds

System Manufacturer: Dell Inc.

System Model: PowerEdge SC1420

System Type: X86-based PC

Processor(s): 2 Processor(s) Installed.

[01]: x86 Family 15 Model 4 Stepping 3 GenuineIntel ~

3192 Mhz

[02]: x86 Family 15 Model 4 Stepping 3 GenuineIntel ~

3192 Mhz

BIOS Version: DELL - 7

Windows Directory: C:\WINDOWS

System Directory: C:\WINDOWS\system32

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Boot Device: \Device\HarddiskVolume2

System Locale: en-us;English (United States)

Input Locale: en-us;English (United States)

Time Zone: (GMT-05:00) Eastern Time (US & Canada)

Total Physical Memory: 2,046 MB

Available Physical Memory: 1,104 MB

Page File: Max Size: 3,435 MB

Page File: Available: 2,247 MB

Page File: In Use: 1,188 MB

Page File Location(s): C:\pagefile.sys

Domain: elections.local

Logon Server: \\BOE

Hotfix(s): 19 Hotfix(s) Installed.

[01]: File 1

[02]: File 1

[03]: File 1

[04]: File 1

[05]: File 1

[06]: File 1

[07]: File 1

[08]: File 1

[09]: File 1

[10]: Q147222

[11]: KB896358 - Update

[12]: KB896422 - Update

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[13]: KB896424 - Update

[14]: KB896688 - Update

[15]: KB901214 - Update

[16]: KB902400 - Update

[17]: KB904706 - Update

[18]: KB908519 - Update

[19]: KB912919 - Update

Network Card(s): 1 NIC(s) Installed.

[01]: Intel(R) PRO/1000 MT Network Connection

Connection Name: Server LAN NIC

DHCP Enabled: No

IP address(es)

[01]: 192.168.1.20

C:\Documents and Settings\Administrator>

Microsoft Windows [Version 5.2.3790]

(C) Copyright 1985-2003 Microsoft Corp.

*****Test to see if device can reach the Internet*** (It cannot)**

C:\Documents and Settings\Administrator>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

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Request timed out.

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

*****Test to see if device can reach default gateway*** (It cannot)**

C:\Documents and Settings\Administrator>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\Administrator>

****Test to see of BOE can reach devices on Local Network ****

DAM3

Pinging 192.168.1.41 with 32 bytes of data:

Reply from 192.168.1.41: bytes=32 time<1ms TTL=128

Reply from 192.168.1.41: bytes=32 time<1ms TTL=128

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Reply from 192.168.1.41: bytes=32 time<1ms TTL=128

Reply from 192.168.1.41: bytes=32 time<1ms TTL=128

DAM4

Pinging 192.168.1.101 with 32 bytes of data:

Reply from 192.168.1.101: bytes=32 time<1ms TTL=128

Reply from 192.168.1.101: bytes=32 time<1ms TTL=128

Reply from 192.168.1.101: bytes=32 time<1ms TTL=128

Reply from 192.168.1.101: bytes=32 time<1ms TTL=128

TAB5

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

TAB7

Pinging 192.168.1.40 with 32 bytes of data:

Reply from 192.168.1.40: bytes=32 time<1ms TTL=128

Reply from 192.168.1.40: bytes=32 time<1ms TTL=128

Reply from 192.168.1.40: bytes=32 time<1ms TTL=128

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Reply from 192.168.1.40: bytes=32 time<1ms TTL=128

TAB9

Pinging 192.168.1.12 with 32 bytes of data:

Reply from 192.168.1.12: bytes=32 time<1ms TTL=128

Reply from 192.168.1.12: bytes=32 time<1ms TTL=128

Reply from 192.168.1.12: bytes=32 time<1ms TTL=128

Reply from 192.168.1.12: bytes=32 time<1ms TTL=128

BOE Post Review:

The minor difference in the arp table is not enough to warrant a red flag. It was still a device on the local network.

BOE Post Election Review - Passed.

TAB5.elections.local

TAB5 Front

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TAB5 Rear

Information Collected from TAB5 CLI:

C:\Documents and Settings\administrator.ELECTIONS>hostname

TAB5

C:\Documents and Settings\administrator.ELECTIONS>ipconfig /all

Windows IP Configuration

Host Name . . . . . : TAB5

Primary Dns Suffix . . . . . : elections.local

Node Type . . . . . : Hybrid

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

DNS Suffix Search List. . . . . : elections.local

elections.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . : elections.local

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Description . . . . . : Intel(R) 82579LM Gigabit Network Connection

Physical Address. . . . . : 18-03-73-14-1C-2C

Dhcp Enabled. . . . . : **Yes**

Autoconfiguration Enabled . . . . : Yes

IP Address. . . . . : **192.168.1.10**

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . : **192.168.1.1**

DHCP Server . . . . . : **192.168.1.20**

DNS Servers . . . . . : 192.168.1.20

Primary WINS Server . . . . . : 192.168.1.20

Lease Obtained. . . . . : Friday, March 29, 2019 8:10:03 AM

Lease Expires . . . . . : Saturday, April 06, 2019 8:10:03 AM

C:\Documents and Settings\administrator.ELECTIONS>arp -a

Interface: 192.168.1.10 --- 0x2

Internet Address	Physical Address	Type
192.168.1.20	00-14-22-60-3f-94	dynamic

C:\Documents and Settings\administrator.ELECTIONS>netstat -rn

Route Table

==========

Interface List

0x1 ..... MS TCP Loopback interface

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0x2 ...18 03 73 14 1c 2c ..... Intel(R) 82579LM Gigabit Network Connection - Packet Scheduler Miniport

===

===

Active Routes:

Network Destination	Netmask	Gateway	Interface	Metric
0.0.0.0	0.0.0.0	192.168.1.1	192.168.1.10	10
127.0.0.0	255.0.0.0	127.0.0.1	127.0.0.1	1
192.168.1.0	255.255.255.0	192.168.1.10	192.168.1.10	10
192.168.1.10	255.255.255.255	127.0.0.1	127.0.0.1	10
192.168.1.255	255.255.255.255	192.168.1.10	192.168.1.10	10
224.0.0.0	240.0.0.0	192.168.1.10	192.168.1.10	10
255.255.255.255	255.255.255.255	192.168.1.10	192.168.1.10	1

Default Gateway: 192.168.1.1

===

Persistent Routes:

None

C:\Documents and Settings\administrator.ELECTIONS>netstat -an

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING

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```
TCP    127.0.0.1:1037       127.0.0.1:1038       ESTABLISHED
TCP    127.0.0.1:1038       127.0.0.1:1037       ESTABLISHED
TCP    127.0.0.1:1043       0.0.0.0:0            LISTENING
TCP    127.0.0.1:1044       0.0.0.0:0            LISTENING
TCP    192.168.1.10:139     0.0.0.0:0            LISTENING
TCP    192.168.1.10:1385    192.168.1.20:135     TIME_WAIT
TCP    192.168.1.10:1386    192.168.1.20:1026    TIME_WAIT
TCP    192.168.1.10:1420    192.168.1.20:445     TIME_WAIT
UDP    0.0.0.0:445          *:*
UDP    0.0.0.0:500          *:*
UDP    0.0.0.0:4500         *:*
UDP    127.0.0.1:123        *:*
UDP    127.0.0.1:1025       *:*
UDP    127.0.0.1:1048       *:*
UDP    127.0.0.1:1775       *:*
UDP    127.0.0.1:1900       *:*
UDP    192.168.1.10:123     *:*
UDP    192.168.1.10:137     *:*
UDP    192.168.1.10:138     *:*
UDP    192.168.1.10:1900    *:*
```

C:\Documents and Settings\administrator.ELECTIONS>systeminfo

Host Name: TAB5

OS Name: Microsoft Windows XP Professional

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OS Version: 5.1.2600 Service Pack 3 Build 2600

OS Manufacturer: Microsoft Corporation

OS Configuration: Member Workstation

OS Build Type: Multiprocessor Free

Registered Owner: admin

Registered Organization:

Product ID: 76487-OEM-0060807-79698

Original Install Date: 8/2/2016, 6:04:17 PM

System Up Time: 35 Days, 0 Hours, 44 Minutes, 25 Seconds

System Manufacturer: Dell Inc.

System Model: OptiPlex 790

System type: X86-based PC

Processor(s): 1 Processor(s) Installed.

[01]: x86 Family 6 Model 42 Stepping 7 GenuineIntel ~

3092 Mhz

BIOS Version: DELL - 6222004

Windows Directory: C:\WINDOWS

System Directory: C:\WINDOWS\system32

Boot Device: \Device\HarddiskVolume1

System Locale: en-us;English (United States)

Input Locale: en-us;English (United States)

Time Zone: (GMT-05:00) Eastern Time (US & Canada)

Total Physical Memory: 3,241 MB

Available Physical Memory: 2,703 MB

Virtual Memory: Max Size: 2,048 MB

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Virtual Memory: Available: 2,008 MB

Virtual Memory: In Use: 40 MB

Page File Location(s): C:\pagefile.sys

Domain: elections.local

Logon Server: \\BOE

Hotfix(s): 250 Hotfix(s) Installed.

[01]: File 1

[02]: File 1

[03]: File 1

[04]: File 1

[05]: File 1

[06]: File 1

[07]: File 1

[08]: File 1

[09]: File 1

[10]: File 1

[11]: File 1

[12]: File 1

[13]: File 1

[14]: File 1

[15]: File 1

[16]: File 1

[17]: File 1

[18]: File 1

[19]: File 1

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[20]: File 1

[21]: File 1

[22]: File 1

[23]: File 1

[24]: File 1

[25]: File 1

[26]: File 1

[27]: File 1

[28]: File 1

[29]: File 1

[30]: File 1

[31]: File 1

[32]: File 1

[33]: File 1

[34]: File 1

[35]: File 1

[36]: File 1

[37]: File 1

[38]: File 1

[39]: File 1

[40]: File 1

[41]: File 1

[42]: File 1

[43]: File 1

[44]: File 1

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[45]: File 1

[46]: File 1

[47]: File 1

[48]: File 1

[49]: File 1

[50]: File 1

[51]: File 1

[52]: File 1

[53]: File 1

[54]: File 1

[55]: File 1

[56]: File 1

[57]: File 1

[58]: File 1

[59]: File 1

[60]: File 1

[61]: File 1

[62]: File 1

[63]: File 1

[64]: File 1

[65]: File 1

[66]: File 1

[67]: File 1

[68]: File 1

[69]: File 1

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[70]: File 1

[71]: File 1

[72]: File 1

[73]: File 1

[74]: File 1

[75]: File 1

[76]: File 1

[77]: File 1

[78]: File 1

[79]: File 1

[80]: File 1

[81]: File 1

[82]: File 1

[83]: File 1

[84]: File 1

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[87]: File 1

[88]: File 1

[89]: File 1

[90]: File 1

[91]: File 1

[92]: File 1

[93]: File 1

[94]: File 1

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[95]: File 1

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[97]: File 1

[98]: File 1

[99]: File 1

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[106]: File 1

[107]: File 1

[108]: File 1

[109]: File 1

[110]: File 1

[111]: File 1

[112]: File 1

[113]: File 1

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[115]: File 1

[116]: File 1

[117]: File 1

[118]: File 1

[119]: File 1

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[120]: File 1

[121]: File 1

[122]: Q147222

[123]: KB2378111_WM9

[124]: KB2803821-v2_WM9

[125]: KB952069_WM9

[126]: KB954155_WM9

[127]: KB973540_WM9

[128]: KB975558_WM8

[129]: KB978695_WM9

[130]: KB2564958 - Update

[131]: KB936929 - Service Pack

[132]: KB2115168 - Update

[133]: KB2229593 - Update

[134]: KB2296011 - Update

[135]: KB2347290 - Update

[136]: KB2387149 - Update

[137]: KB2393802 - Update

[138]: KB2419632 - Update

[139]: KB2423089 - Update

[140]: KB2443105 - Update

[141]: KB2478960 - Update

[142]: KB2478971 - Update

[143]: KB2479943 - Update

[144]: KB2481109 - Update

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[145]: KB2483185 - Update

[146]: KB2485663 - Update

[147]: KB2506212 - Update

[148]: KB2507938 - Update

[149]: KB2508429 - Update

[150]: KB2509553 - Update

[151]: KB2510581 - Update

[152]: KB2535512 - Update

[153]: KB2536276-v2 - Update

[154]: KB2544893-v2 - Update

[155]: KB2566454 - Update

[156]: KB2570947 - Update

[157]: KB2584146 - Update

[158]: KB2585542 - Update

[159]: KB2592799 - Update

[160]: KB2598479 - Update

[161]: KB2603381 - Update

[162]: KB2619339 - Update

[163]: KB2620712 - Update

[164]: KB2631813 - Update

[165]: KB2653956 - Update

[166]: KB2655992 - Update

[167]: KB2659262 - Update

[168]: KB2661637 - Update

[169]: KB2676562 - Update

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[170]: KB2686509 - Update

[171]: KB2691442 - Update

[172]: KB2698365 - Update

[173]: KB2705219-v2 - Update

[174]: KB2712808 - Update

[175]: KB2719985 - Update

[176]: KB2723135-v2 - Update

[177]: KB2727528 - Update

[178]: KB2757638 - Update

[179]: KB2770660 - Update

[180]: KB2780091 - Update

[181]: KB2802968 - Update

[182]: KB2807986 - Update

[183]: KB2813345 - Update

[184]: KB2820917 - Update

[185]: KB2834886 - Update

[186]: KB2847311 - Update

[187]: KB2850869 - Update

[188]: KB2859537 - Update

[189]: KB2862152 - Update

[190]: KB2862330 - Update

[191]: KB2862335 - Update

[192]: KB2864063 - Update

[193]: KB2868038 - Update

[194]: KB2868626 - Update

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[195]: KB2876217 - Update

[196]: KB2876331 - Update

[197]: KB2884256 - Update

[198]: KB2892075 - Update

[199]: KB2893294 - Update

[200]: KB2898715 - Update

[201]: KB2900986 - Update

[202]: KB2904266 - Update

[203]: KB2909212 - Update

[204]: KB2914368 - Update

[205]: KB2916036 - Update

[206]: KB2922229 - Update

[207]: KB2929961 - Update

[208]: KB2930275 - Update

[209]: KB2936068 - Update

[210]: KB2964358 - Update

[211]: KB923561 - Update

[212]: KB942288-v3 - Update

[213]: KB946648 - Update

[214]: KB950762 - Update

[215]: KB950974 - Update

[216]: KB951376-v2 - Update

[217]: KB952004 - Update

[218]: KB95

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NetWork Card(s): 1 NIC(s) Installed.

[01]: Intel(R) 82579LM Gigabit Network Connection

Connection Name: Local Area Connection

DHCP Enabled: Yes

DHCP Server: 192.168.1.20

IP address(es)

[01]: 192.168.1.10

*****Test to see if device can reach the Internet*** (It cannot)**

C:\Documents and Settings\administrator.ELECTIONS>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

*****Test to see if device can reach default gateway*** (It cannot)**

C:\Documents and Settings\administrator.ELECTIONS>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

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Request timed out.

Request timed out.

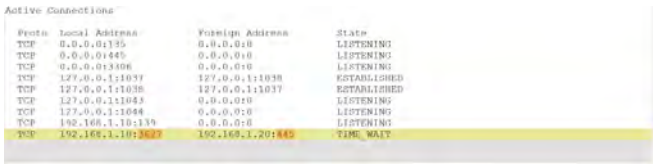
Request timed out.

Request timed out.

Ping statistics for 192.168.1.1:

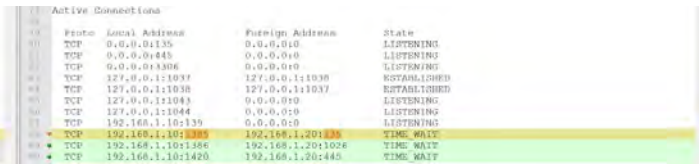
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

TAB5 Post Review:



Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1037	127.0.0.1:1038	ESTABLISHED
TCP	127.0.0.1:1038	127.0.0.1:1037	ESTABLISHED
TCP	127.0.0.1:1043	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1044	0.0.0.0:0	LISTENING
TCP	192.168.1.10:139	0.0.0.0:0	LISTENING
TCP	192.168.1.10:3627	192.168.1.20:445	TIME_WAIT



Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1037	127.0.0.1:1038	ESTABLISHED
TCP	127.0.0.1:1038	127.0.0.1:1037	ESTABLISHED
TCP	127.0.0.1:1043	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1044	0.0.0.0:0	LISTENING
TCP	192.168.1.10:139	0.0.0.0:0	LISTENING
TCP	192.168.1.10:1385	192.168.1.20:135	TIME_WAIT
TCP	192.168.1.10:1386	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.10:1420	192.168.1.20:445	TIME_WAIT

Differing connections to the DHCP/DNS/WINS server are not a concern as that is part of the local area network.

TAB5 Post Election Review – Passed.

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TAB9.elections.local

TAB9 Front

TAB9 Rear

Information Collected from TAB9 CLI:

C:\Documents and Settings\Administrator.ELECTIONS>hostname

TAB9

C:\Documents and Settings\Administrator.ELECTIONS>ipconfig /all

Windows IP Configuration

Host Name . . . . . : TAB9

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Primary Dns Suffix . . . . . : elections.local

Node Type . . . . . : Hybrid

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

DNS Suffix Search List. . . . . : elections.local

elections.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . : elections.local

Description . . . . . : Intel(R) 82579LM Gigabit Network Connection

Physical Address. . . . . : 18-03-73-15-97-68

Dhcp Enabled. . . . . : **Yes**

Autoconfiguration Enabled . . . . : Yes

IP Address. . . . . : **192.168.1.12**

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . : **192.168.1.1**

DHCP Server . . . . . : **192.168.1.20**

DNS Servers . . . . . : 192.168.1.20

Primary WINS Server . . . . . : 192.168.1.20

Lease Obtained. . . . . : Monday, April 01, 2019 8:37:10 AM

Lease Expires . . . . . : Tuesday, April 09, 2019 8:37:10 AM

C:\Documents and Settings\Administrator.ELECTIONS>arp -a

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```
Interface: 192.168.1.12 --- 0x2
  Internet Address      Physical Address      Type
  192.168.1.20          00-14-22-60-3f-94     dynamic
C:\Documents and Settings\Administrator.ELECTIONS>netstat -rn


Route Table
===========================================================================
Interface List
0x1 ........................... MS TCP Loopback interface
0x2 ...18 03 73 15 97 68 ...... Intel(R) 82579LM Gigabit Network Connection - Packet Scheduler Miniport
===========================================================================
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0      192.168.1.1    192.168.1.12      10
        127.0.0.0        255.0.0.0        127.0.0.1       127.0.0.1       1
      192.168.1.0    255.255.255.0     192.168.1.12    192.168.1.12      10
    192.168.1.12  255.255.255.255        127.0.0.1       127.0.0.1      10
  192.168.1.255  255.255.255.255     192.168.1.12    192.168.1.12      10
        224.0.0.0        240.0.0.0     192.168.1.12    192.168.1.12      10
  255.255.255.255  255.255.255.255     192.168.1.12    192.168.1.12       1
Default Gateway:       192.168.1.1
===========================================================================
Persistent Routes:
  None
```


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C:\Documents and Settings\Administrator.ELECTIONS>netstat -an

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1037	127.0.0.1:1038	**ESTABLISHED**
TCP	127.0.0.1:1038	127.0.0.1:1037	**ESTABLISHED**
TCP	127.0.0.1:1043	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1051	0.0.0.0:0	LISTENING
TCP	192.168.1.12:139	0.0.0.0:0	LISTENING
TCP	192.168.1.12:1768	192.168.1.20:135	TIME_WAIT
TCP	192.168.1.12:1769	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.12:1796	192.168.1.20:139	**ESTABLISHED**
TCP	192.168.1.12:1798	192.168.1.20:135	TIME_WAIT
TCP	192.168.1.12:1799	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.12:1803	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.12:1806	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.12:1807	192.168.1.20:445	TIME_WAIT
TCP	192.168.1.12:1812	192.168.1.20:389	TIME_WAIT
UDP	0.0.0.0:445	*:*	
UDP	0.0.0.0:500	*:*	

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```
UDP    0.0.0.0:4500         *:*
UDP    127.0.0.1:123        *:*
UDP    127.0.0.1:1025       *:*
UDP    127.0.0.1:1047       *:*
UDP    127.0.0.1:1810       *:*
UDP    127.0.0.1:1900       *:*
UDP    192.168.1.12:123     *:*
UDP    192.168.1.12:137     *:*
UDP    192.168.1.12:138     *:*
UDP    192.168.1.12:1900    *:*
```

```
C:\Documents and Settings\Administrator.ELECTIONS>systeminfo

Host Name:                 TAB9
OS Name:                   Microsoft Windows XP Professional
OS Version:                5.1.2600 Service Pack 3 Build 2600
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Member Workstation
OS Build Type:             Multiprocessor Free
Registered Owner:          admin
Registered Organization:
Product ID:                76487-OEM-0060807-79698
Original Install Date:     8/2/2016, 6:04:17 PM
System Up Time:            0 Days, 0 Hours, 24 Minutes, 47 Seconds
```


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System Manufacturer: Dell Inc.

System Model: OptiPlex 790

System type: X86-based PC

Processor(s): 1 Processor(s) Installed.

[01]: x86 Family 6 Model 42 Stepping 7 GenuineIntel ~

3092 Mhz

BIOS Version: DELL - 6222004

Windows Directory: C:\WINDOWS

System Directory: C:\WINDOWS\system32

Boot Device: \Device\HarddiskVolume1

System Locale: en-us;English (United States)

Input Locale: en-us;English (United States)

Time Zone: (GMT-05:00) Eastern Time (US & Canada)

Total Physical Memory: 3,241 MB

Available Physical Memory: 2,760 MB

Virtual Memory: Max Size: 2,048 MB

Virtual Memory: Available: 2,008 MB

Virtual Memory: In Use: 40 MB

Page File Location(s): C:\pagefile.sys

Domain: elections.local

Logon Server: \\BOE

Hotfix(s): 250 Hotfix(s) Installed.

[01]: File 1

[02]: File 1

[03]: File 1

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[04]: File 1

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[100]: File 1

[101]: File 1

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[103]: File 1

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[104]: File 1

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[114]: File 1

[115]: File 1

[116]: File 1

[117]: File 1

[118]: File 1

[119]: File 1

[120]: File 1

[121]: File 1

[122]: Q147222

[123]: KB2378111_WM9

[124]: KB2803821-v2_WM9

[125]: KB952069_WM9

[126]: KB954155_WM9

[127]: KB973540_WM9

[128]: KB975558_WM8

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[129]: KB978695_WM9

[130]: KB2564958 - Update

[131]: KB936929 - Service Pack

[132]: KB2115168 - Update

[133]: KB2229593 - Update

[134]: KB2296011 - Update

[135]: KB2347290 - Update

[136]: KB2387149 - Update

[137]: KB2393802 - Update

[138]: KB2419632 - Update

[139]: KB2423089 - Update

[140]: KB2443105 - Update

[141]: KB2478960 - Update

[142]: KB2478971 - Update

[143]: KB2479943 - Update

[144]: KB2481109 - Update

[145]: KB2483185 - Update

[146]: KB2485663 - Update

[147]: KB2506212 - Update

[148]: KB2507938 - Update

[149]: KB2508429 - Update

[150]: KB2509553 - Update

[151]: KB2510581 - Update

[152]: KB2535512 - Update

[153]: KB2536276-v2 - Update

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[154]: KB2544893-v2 - Update

[155]: KB2566454 - Update

[156]: KB2570947 - Update

[157]: KB2584146 - Update

[158]: KB2585542 - Update

[159]: KB2592799 - Update

[160]: KB2598479 - Update

[161]: KB2603381 - Update

[162]: KB2619339 - Update

[163]: KB2620712 - Update

[164]: KB2631813 - Update

[165]: KB2653956 - Update

[166]: KB2655992 - Update

[167]: KB2659262 - Update

[168]: KB2661637 - Update

[169]: KB2676562 - Update

[170]: KB2686509 - Update

[171]: KB2691442 - Update

[172]: KB2698365 - Update

[173]: KB2705219-v2 - Update

[174]: KB2712808 - Update

[175]: KB2719985 - Update

[176]: KB2723135-v2 - Update

[177]: KB2727528 - Update

[178]: KB2757638 - Update

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[179]: KB2770660 - Update

[180]: KB2780091 - Update

[181]: KB2802968 - Update

[182]: KB2807986 - Update

[183]: KB2813345 - Update

[184]: KB2820917 - Update

[185]: KB2834886 - Update

[186]: KB2847311 - Update

[187]: KB2850869 - Update

[188]: KB2859537 - Update

[189]: KB2862152 - Update

[190]: KB2862330 - Update

[191]: KB2862335 - Update

[192]: KB2864063 - Update

[193]: KB2868038 - Update

[194]: KB2868626 - Update

[195]: KB2876217 - Update

[196]: KB2876331 - Update

[197]: KB2884256 - Update

[198]: KB2892075 - Update

[199]: KB2893294 - Update

[200]: KB2898715 - Update

[201]: KB2900986 - Update

[202]: KB2904266 - Update

[203]: KB2909212 - Update

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[204]: KB2914368 - Update

[205]: KB2916036 - Update

[206]: KB2922229 - Update

[207]: KB2929961 - Update

[208]: KB2930275 - Update

[209]: KB2936068 - Update

[210]: KB2964358 - Update

[211]: KB923561 - Update

[212]: KB942288-v3 - Update

[213]: KB946648 - Update

[214]: KB950762 - Update

[215]: KB950974 - Update

[216]: KB951376-v2 - Update

[217]: KB952004 - Update

[218]: KB95

NetWork Card(s): 1 NIC(s) Installed.

[01]: Intel(R) 82579LM Gigabit Network Connection

Connection Name: Local Area Connection

DHCP Enabled: Yes

DHCP Server: 192.168.1.20

IP address(es)

[01]: 192.168.1.12

*****Test to see if device can reach the Internet*** (It cannot)**

This document contains Confidential and Proprietary information for use only by solutions4networks and its intended recipients, and must not be disclosed to unauthorized individuals, without prior, express written consent from solutions4networks.

C:\Documents and Settings\Administrator.ELECTIONS>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

*****Test to see if device can reach default gateway*** (It cannot)**

C:\Documents and Settings\Administrator.ELECTIONS>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

TAB9 Post Review:

This document contains Confidential and Proprietary information for use only by solutions4networks and its intended recipients, and must not be disclosed to unauthorized individuals, without prior, express written consent from solutions4networks.

```
Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:3306           0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1036         127.0.0.1:1037         ESTABLISHED
  TCP    127.0.0.1:1037         127.0.0.1:1036         ESTABLISHED
  TCP    127.0.0.1:1043         0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1051         0.0.0.0:0              LISTENING
  TCP    192.168.1.12:139       0.0.0.0:0              LISTENING

  UDP    0.0.0.0:445            *:*
  UDP    0.0.0.0:500            *:*
  UDP    0.0.0.0:4500           *:*
  UDP    127.0.0.1:123          *:*
  UDP    127.0.0.1:1025         *:*
  UDP    127.0.0.1:1043         *:*

  UDP    127.0.0.1:1900         *:*
  UDP    192.168.1.12:123       *:*
  UDP    192.168.1.12:137       *:*
  UDP    192.168.1.12:138       *:*
  UDP    192.168.1.12:1900      *:*
```

```
Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:3306           0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1037         127.0.0.1:1036         ESTABLISHED
  TCP    127.0.0.1:1036         127.0.0.1:1037         ESTABLISHED
  TCP    127.0.0.1:1043         0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1051         0.0.0.0:0              LISTENING
  TCP    192.168.1.12:139       0.0.0.0:0              LISTENING
  TCP    192.168.1.12:1768      192.168.1.20:135       TIME_WAIT
  TCP    192.168.1.12:1769      192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.12:1796      192.168.1.20:139       ESTABLISHED
  TCP    192.168.1.12:1798      192.168.1.20:135       TIME_WAIT
  TCP    192.168.1.12:1799      192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.12:1803      192.168.1.20:389       TIME_WAIT
  TCP    192.168.1.12:1806      192.168.1.20:389       TIME_WAIT
  TCP    192.168.1.12:1807      192.168.1.20:445       TIME_WAIT
  TCP    192.168.1.12:1812      192.168.1.20:389       TIME_WAIT
  UDP    0.0.0.0:445            *:*
  UDP    0.0.0.0:500            *:*
  UDP    0.0.0.0:4500           *:*
  UDP    127.0.0.1:123          *:*
  UDP    127.0.0.1:1025         *:*
  UDP    127.0.0.1:1043         *:*
  UDP    127.0.0.1:1810         *:*
  UDP    127.0.0.1:1900         *:*
  UDP    192.168.1.12:123       *:*
  UDP    192.168.1.12:137       *:*
  UDP    192.168.1.12:138       *:*
  UDP    192.168.1.12:1900      *:*

C:\Documents and Settings\Administrator.ELECTIONS>netstat -an

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:3306           0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1037         127.0.0.1:1036         ESTABLISHED
  TCP    127.0.0.1:1038         127.0.0.1:1037         ESTABLISHED
  TCP    127.0.0.1:1043         0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1051         0.0.0.0:0              LISTENING
  TCP    192.168.1.12:139       0.0.0.0:0              LISTENING
  TCP    192.168.1.12:1768      192.168.1.20:135       TIME_WAIT
  TCP    192.168.1.12:1769      192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.12:1796      192.168.1.20:139       ESTABLISHED
  TCP    192.168.1.12:1798      192.168.1.20:135       TIME_WAIT
  TCP    192.168.1.12:1799      192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.12:1803      192.168.1.20:389       TIME_WAIT
  TCP    192.168.1.12:1806      192.168.1.20:389       TIME_WAIT
  TCP    192.168.1.12:1807      192.168.1.20:445       TIME_WAIT
  TCP    192.168.1.12:1812      192.168.1.20:389       TIME_WAIT
  UDP    0.0.0.0:445            *:*
  UDP    0.0.0.0:500            *:*
  UDP    0.0.0.0:4500           *:*
  UDP    127.0.0.1:123          *:*
  UDP    127.0.0.1:1025         *:*
  UDP    127.0.0.1:1047         *:*
  UDP    127.0.0.1:1810         *:*
  UDP    127.0.0.1:1900         *:*
  UDP    192.168.1.12:123       *:*
  UDP    192.168.1.12:137       *:*
  UDP    192.168.1.12:138       *:*
  UDP    192.168.1.12:1900      *:*
```

Differing connections to the DHCP/DNS/WINS server are not a concern as that is part of the local area network.

TAB9 Post Election Review - Passed

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TAB7.elections.local

TAB7 Front

TAB7 Rear

Information Collected from TAB7 CLI:

C:\Documents and Settings\Administrator.ELECTIONS>hostname

TAB7

C:\Documents and Settings\Administrator.ELECTIONS>ipconfig /all

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Windows IP Configuration

Host Name . . . . . : TAB7

Primary Dns Suffix . . . . . : elections.local

Node Type . . . . . : Hybrid

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

DNS Suffix Search List. . . . . : elections.local

elections.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . : elections.local

Description . . . . . : Intel(R) 82579LM Gigabit Network Connection

Physical Address. . . . . : 18-03-73-1B-CF-E2

Dhcp Enabled. . . . . : **Yes**

Autoconfiguration Enabled . . . . : Yes

IP Address. . . . . : **192.168.1.40**

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . : **192.168.1.1**

DHCP Server . . . . . : **192.168.1.20**

DNS Servers . . . . . : 192.168.1.20

Primary WINS Server . . . . . : 192.168.1.20

Lease Obtained. . . . . : Monday, April 01, 2019 8:29:37 AM

Lease Expires . . . . . : Tuesday, April 09, 2019 8:29:37 AM

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```
C:\Documents and Settings\Administrator.ELECTIONS>arp -a

Interface: 192.168.1.40 --- 0x2
  Internet Address      Physical Address      Type
  192.168.1.20          00-14-22-60-3f-94     dynamic

C:\Documents and Settings\Administrator.ELECTIONS>netstat -rn

Route Table
===========================================================================
Interface List
0x1 ........................... MS TCP Loopback interface
0x2 ...18 03 73 1b cf e2 ...... Intel(R) 82579LM Gigabit Network Connection - Packet Scheduler Miniport
===========================================================================
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0      192.168.1.1    192.168.1.40      10
        127.0.0.0        255.0.0.0        127.0.0.1       127.0.0.1       1
      192.168.1.0    255.255.255.0     192.168.1.40    192.168.1.40      10
    192.168.1.40  255.255.255.255        127.0.0.1       127.0.0.1      10
  192.168.1.255  255.255.255.255     192.168.1.40    192.168.1.40      10
        224.0.0.0        240.0.0.0     192.168.1.40    192.168.1.40      10
  255.255.255.255  255.255.255.255     192.168.1.40    192.168.1.40       1
```


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Default Gateway: 192.168.1.1

==========

Persistent Routes:

None

C:\Documents and Settings\Administrator.ELECTIONS>netstat -an

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1045	127.0.0.1:1046	**ESTABLISHED**
TCP	127.0.0.1:1046	127.0.0.1:1045	**ESTABLISHED**
TCP	127.0.0.1:1047	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1055	0.0.0.0:0	LISTENING
TCP	192.168.1.40:139	0.0.0.0:0	LISTENING
TCP	192.168.1.40:2095	192.168.1.20:135	TIME_WAIT
TCP	192.168.1.40:2096	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.40:2101	192.168.1.20:445	**ESTABLISHED**
TCP	192.168.1.40:2103	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.40:2106	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.40:2109	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.40:2110	192.168.1.20:445	TIME_WAIT

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```
  TCP    192.168.1.40:2115      192.168.1.20:389       TIME_WAIT

  UDP    0.0.0.0:445            *:*

  UDP    0.0.0.0:500            *:*

  UDP    0.0.0.0:4500           *:*

  UDP    127.0.0.1:123          *:*

  UDP    127.0.0.1:1025         *:*

  UDP    127.0.0.1:1041         *:*

  UDP    127.0.0.1:1900         *:*

  UDP    192.168.1.40:123       *:*

  UDP    192.168.1.40:137       *:*

  UDP    192.168.1.40:138       *:*

  UDP    192.168.1.40:1900      *:*

C:\Documents and Settings\Administrator.ELECTIONS>systeminfo


Host Name:                 TAB7

OS Name:                   Microsoft Windows XP Professional

OS Version:                5.1.2600 Service Pack 3 Build 2600

OS Manufacturer:           Microsoft Corporation

OS Configuration:          Member Workstation

OS Build Type:             Multiprocessor Free

Registered Owner:          admin

Registered Organization:

Product ID:                76487-OEM-0060807-79698

Original Install Date:     8/2/2016, 6:04:17 PM

System Up Time:            0 Days, 0 Hours, 35 Minutes, 46 Seconds
```


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System Manufacturer: Dell Inc.

System Model: OptiPlex 790

System type: X86-based PC

Processor(s): 1 Processor(s) Installed.

[01]: x86 Family 6 Model 42 Stepping 7 GenuineIntel ~

3093 Mhz

BIOS Version: DELL - 6222004

Windows Directory: C:\WINDOWS

System Directory: C:\WINDOWS\system32

Boot Device: \Device\HarddiskVolume1

System Locale: en-us;English (United States)

Input Locale: en-us;English (United States)

Time Zone: (GMT-05:00) Eastern Time (US & Canada)

Total Physical Memory: 3,241 MB

Available Physical Memory: 2,863 MB

Virtual Memory: Max Size: 2,048 MB

Virtual Memory: Available: 2,008 MB

Virtual Memory: In Use: 40 MB

Page File Location(s): C:\pagefile.sys

Domain: elections.local

Logon Server: \\BOE

Hotfix(s): 250 Hotfix(s) Installed.

[01]: File 1

[02]: File 1

[03]: File 1

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[04]: File 1

[05]: File 1

[06]: File 1

[07]: File 1

[08]: File 1

[09]: File 1

[10]: File 1

[11]: File 1

[12]: File 1

[13]: File 1

[14]: File 1

[15]: File 1

[16]: File 1

[17]: File 1

[18]: File 1

[19]: File 1

[20]: File 1

[21]: File 1

[22]: File 1

[23]: File 1

[24]: File 1

[25]: File 1

[26]: File 1

[27]: File 1

[28]: File 1

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[29]: File 1

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[32]: File 1

[33]: File 1

[34]: File 1

[35]: File 1

[36]: File 1

[37]: File 1

[38]: File 1

[39]: File 1

[40]: File 1

[41]: File 1

[42]: File 1

[43]: File 1

[44]: File 1

[45]: File 1

[46]: File 1

[47]: File 1

[48]: File 1

[49]: File 1

[50]: File 1

[51]: File 1

[52]: File 1

[53]: File 1

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[54]: File 1

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[59]: File 1

[60]: File 1

[61]: File 1

[62]: File 1

[63]: File 1

[64]: File 1

[65]: File 1

[66]: File 1

[67]: File 1

[68]: File 1

[69]: File 1

[70]: File 1

[71]: File 1

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[73]: File 1

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[75]: File 1

[76]: File 1

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[78]: File 1

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[79]: File 1

[80]: File 1

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[83]: File 1

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[88]: File 1

[89]: File 1

[90]: File 1

[91]: File 1

[92]: File 1

[93]: File 1

[94]: File 1

[95]: File 1

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[97]: File 1

[98]: File 1

[99]: File 1

[100]: File 1

[101]: File 1

[102]: File 1

[103]: File 1

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[104]: File 1

[105]: File 1

[106]: File 1

[107]: File 1

[108]: File 1

[109]: File 1

[110]: File 1

[111]: File 1

[112]: File 1

[113]: File 1

[114]: File 1

[115]: File 1

[116]: File 1

[117]: File 1

[118]: File 1

[119]: File 1

[120]: File 1

[121]: File 1

[122]: Q147222

[123]: KB2378111_WM9

[124]: KB2803821-v2_WM9

[125]: KB952069_WM9

[126]: KB954155_WM9

[127]: KB973540_WM9

[128]: KB975558_WM8

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[129]: KB978695_WM9

[130]: KB2564958 - Update

[131]: KB936929 - Service Pack

[132]: KB2115168 - Update

[133]: KB2229593 - Update

[134]: KB2296011 - Update

[135]: KB2347290 - Update

[136]: KB2387149 - Update

[137]: KB2393802 - Update

[138]: KB2419632 - Update

[139]: KB2423089 - Update

[140]: KB2443105 - Update

[141]: KB2478960 - Update

[142]: KB2478971 - Update

[143]: KB2479943 - Update

[144]: KB2481109 - Update

[145]: KB2483185 - Update

[146]: KB2485663 - Update

[147]: KB2506212 - Update

[148]: KB2507938 - Update

[149]: KB2508429 - Update

[150]: KB2509553 - Update

[151]: KB2510581 - Update

[152]: KB2535512 - Update

[153]: KB2536276-v2 - Update

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[154]: KB2544893-v2 - Update

[155]: KB2566454 - Update

[156]: KB2570947 - Update

[157]: KB2584146 - Update

[158]: KB2585542 - Update

[159]: KB2592799 - Update

[160]: KB2598479 - Update

[161]: KB2603381 - Update

[162]: KB2619339 - Update

[163]: KB2620712 - Update

[164]: KB2631813 - Update

[165]: KB2653956 - Update

[166]: KB2655992 - Update

[167]: KB2659262 - Update

[168]: KB2661637 - Update

[169]: KB2676562 - Update

[170]: KB2686509 - Update

[171]: KB2691442 - Update

[172]: KB2698365 - Update

[173]: KB2705219-v2 - Update

[174]: KB2712808 - Update

[175]: KB2719985 - Update

[176]: KB2723135-v2 - Update

[177]: KB2727528 - Update

[178]: KB2757638 - Update

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[179]: KB2770660 - Update

[180]: KB2780091 - Update

[181]: KB2802968 - Update

[182]: KB2807986 - Update

[183]: KB2813345 - Update

[184]: KB2820917 - Update

[185]: KB2834886 - Update

[186]: KB2847311 - Update

[187]: KB2850869 - Update

[188]: KB2859537 - Update

[189]: KB2862152 - Update

[190]: KB2862330 - Update

[191]: KB2862335 - Update

[192]: KB2864063 - Update

[193]: KB2868038 - Update

[194]: KB2868626 - Update

[195]: KB2876217 - Update

[196]: KB2876331 - Update

[197]: KB2884256 - Update

[198]: KB2892075 - Update

[199]: KB2893294 - Update

[200]: KB2898715 - Update

[201]: KB2900986 - Update

[202]: KB2904266 - Update

[203]: KB2909212 - Update

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[204]: KB2914368 - Update

[205]: KB2916036 - Update

[206]: KB2922229 - Update

[207]: KB2929961 - Update

[208]: KB2930275 - Update

[209]: KB2936068 - Update

[210]: KB2964358 - Update

[211]: KB923561 - Update

[212]: KB942288-v3 - Update

[213]: KB946648 - Update

[214]: KB950762 - Update

[215]: KB950974 - Update

[216]: KB951376-v2 - Update

[217]: KB952004 - Update

[218]: KB95

NetWork Card(s): 1 NIC(s) Installed.

[01]: Intel(R) 82579LM Gigabit Network Connection

Connection Name: Local Area Connection

DHCP Enabled: Yes

DHCP Server: 192.168.1.20

IP address(es)

[01]: 192.168.1.40

*****Test to see if device can reach the Internet*** (It cannot)**

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C:\Documents and Settings\Administrator.ELECTIONS>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

*****Test to see if device can reach default gateway*** (It cannot)**

C:\Documents and Settings\Administrator.ELECTIONS>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

TAB7 Post Review:

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Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1044	127.0.0.1:1045	ESTABLISHED
TCP	127.0.0.1:1045	127.0.0.1:1044	ESTABLISHED
TCP	127.0.0.1:1046	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1054	0.0.0.0:0	LISTENING
TCP	192.168.1.40:139	0.0.0.0:0	LISTENING
TCP	192.168.1.40:4066	192.168.1.40:16992	ESTABLISHED
TCP	192.168.1.40:4068	192.168.1.40:16992	SYN_SENT
TCP	192.168.1.40:16992	192.168.1.40:4066	ESTABLISHED
UDP	0.0.0.0:445	*:*	
UDP	0.0.0.0:500	*:*	
UDP	0.0.0.0:4500	*:*	
UDP	127.0.0.1:123	*:*	
UDP	127.0.0.1:1025	*:*	
UDP	127.0.0.1:1040	*:*	
UDP	127.0.0.1:1900	*:*	
UDP	192.168.1.40:123	*:*	
UDP	192.168.1.40:137	*:*	
UDP	192.168.1.40:138	*:*	
UDP	192.168.1.40:1900	*:*	

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1045	127.0.0.1:1046	ESTABLISHED
TCP	127.0.0.1:1046	127.0.0.1:1045	ESTABLISHED
TCP	127.0.0.1:1047	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1055	0.0.0.0:0	LISTENING
TCP	192.168.1.40:139	0.0.0.0:0	LISTENING
TCP	192.168.1.40:2095	192.168.1.20:135	TIME_WAIT
TCP	192.168.1.40:2096	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.40:2101	192.168.1.20:445	ESTABLISHED
TCP	192.168.1.40:2103	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.40:2106	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.40:2107	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.40:2110	192.168.1.20:445	TIME_WAIT
TCP	192.168.1.40:2115	192.168.1.20:389	TIME_WAIT
UDP	0.0.0.0:445	*:*	
UDP	0.0.0.0:500	*:*	
UDP	0.0.0.0:4500	*:*	
UDP	127.0.0.1:123	*:*	
UDP	127.0.0.1:1025	*:*	
UDP	127.0.0.1:1043	*:*	
UDP	127.0.0.1:1900	*:*	
UDP	192.168.1.40:123	*:*	
UDP	192.168.1.40:137	*:*	
UDP	192.168.1.40:138	*:*	
UDP	192.168.1.40:1900	*:*	

Differing connections to the DHCP/DNS/WINS server are not a concern as that is part of the local area network.

TAB7 Post Election Review - Passed

DAM4.elections.local

DAM4 Front

DAM4 Rear

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Information Collected from DAM4 CLI:

C:\Documents and Settings\Administrator.ELECTIONS>hostname

DAM4

C:\Documents and Settings\Administrator.ELECTIONS>ipconfig /all

Windows IP Configuration

Host Name . . . . . : DAM4
Primary Dns Suffix . . . . . : elections.local
Node Type . . . . . : Broadcast
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : elections.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) 82579LM Gigabit Network Connection
Physical Address. . . . . : 18-03-73-2D-8F-CA
Dhcp Enabled. . . . . : **No**
IP Address. . . . . : **192.168.1.101**
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DNS Servers . . . . . : 192.168.1.20

C:\Documents and Settings\Administrator.ELECTIONS>arp -a

Interface: 192.168.1.101 --- 0x2

Internet Address	Physical Address	Type
192.168.1.20	00-14-22-60-3f-94	dynamic

C:\Documents and Settings\Administrator.ELECTIONS>netstat -rn

Route Table
==========
Interface List
0x1 ..... MS TCP Loopback interface
0x2 ...18 03 73 2d 8f ca ..... Intel(R) 82579LM Gigabit Network Connection - Packet Scheduler Miniport
==========
==========
Active Routes:

Network Destination	Netmask	Gateway	Interface	Metric
127.0.0.0	255.0.0.0	127.0.0.1	127.0.0.1	1

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```
    192.168.1.0    255.255.255.0    192.168.1.101   192.168.1.101      10
  192.168.1.101  255.255.255.255       127.0.0.1       127.0.0.1      10
  192.168.1.255  255.255.255.255   192.168.1.101   192.168.1.101      10
      224.0.0.0       240.0.0.0   192.168.1.101   192.168.1.101      10
 255.255.255.255  255.255.255.255   192.168.1.101   192.168.1.101       1
===========================================================================
Persistent Routes:
  None

C:\Documents and Settings\Administrator.ELECTIONS>netstat -an

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1032         127.0.0.1:1033         ESTABLISHED
  TCP    127.0.0.1:1033         127.0.0.1:1032         ESTABLISHED
  TCP    127.0.0.1:1042         0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1053         0.0.0.0:0              LISTENING
  TCP    192.168.1.101:139      0.0.0.0:0              LISTENING
  TCP    192.168.1.101:1080     192.168.1.20:135       TIME_WAIT
  TCP    192.168.1.101:1081     192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.101:1084     192.168.1.20:445       ESTABLISHED
  TCP    192.168.1.101:1086     192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.101:1090     192.168.1.20:389       TIME_WAIT
  TCP    192.168.1.101:1093     192.168.1.20:389       TIME_WAIT
  TCP    192.168.1.101:1094     192.168.1.20:445       TIME_WAIT
  TCP    192.168.1.101:1099     192.168.1.20:389       TIME_WAIT
  UDP    0.0.0.0:445            *:*
  UDP    0.0.0.0:500            *:*
  UDP    0.0.0.0:4500           *:*
  UDP    127.0.0.1:123          *:*
  UDP    127.0.0.1:1025         *:*
  UDP    127.0.0.1:1049         *:*
  UDP    127.0.0.1:1900         *:*
  UDP    192.168.1.101:123      *:*
  UDP    192.168.1.101:137      *:*
  UDP    192.168.1.101:138      *:*
  UDP    192.168.1.101:1900     *:*


C:\Documents and Settings\Administrator.ELECTIONS>systeminfo

Host Name:              DAM4
OS Name:                Microsoft Windows XP Professional
OS Version:             5.1.2600 Service Pack 3 Build 2600
OS Manufacturer:        Microsoft Corporation
```


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OS Configuration: Member Workstation
OS Build Type: Multiprocessor Free
Registered Owner: admin
Registered Organization:
Product ID: 76487-OEM-0060807-79698
Original Install Date: 8/2/2016, 6:04:17 PM
System Up Time: 0 Days, 0 Hours, 40 Minutes, 58 Seconds
System Manufacturer: Dell Inc.
System Model: OptiPlex 790
System type: X86-based PC
Processor(s): 1 Processor(s) Installed.
[01]: x86 Family 6 Model 42 Stepping 7 GenuineIntel ~
3093 Mhz
BIOS Version: DELL - 6222004
Windows Directory: C:\WINDOWS
System Directory: C:\WINDOWS\system32
Boot Device: \Device\HarddiskVolume1
System Locale: en-us;English (United States)
Input Locale: en-us;English (United States)
Time Zone: (GMT-05:00) Eastern Time (US & Canada)
Total Physical Memory: 3,241 MB
Available Physical Memory: 2,886 MB
Virtual Memory: Max Size: 2,048 MB
Virtual Memory: Available: 2,008 MB
Virtual Memory: In Use: 40 MB
Page File Location(s): C:\pagefile.sys
Domain: elections.local
Logon Server: \\BOE
Hotfix(s): 248 Hotfix(s) Installed.
[01]: File 1
[02]: File 1
[03]: File 1
[04]: File 1
[05]: File 1
[06]: File 1
[07]: File 1
[08]: File 1
[09]: File 1
[10]: File 1
[11]: File 1
[12]: File 1
[13]: File 1
[14]: File 1
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[17]: File 1
[18]: File 1
[19]: File 1

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[20]: File 1
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[111]: File 1
[112]: File 1
[113]: File 1
[114]: File 1
[115]: File 1

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[116]: File 1
[117]: File 1
[118]: File 1
[119]: File 1
[120]: File 1
[121]: Q147222
[122]: KB2378111_WM9
[123]: KB2803821-v2_WM9
[124]: KB952069_WM9
[125]: KB954155_WM9
[126]: KB973540_WM9
[127]: KB975558_WM8
[128]: KB978695_WM9
[129]: KB2564958 - Update
[130]: KB936929 - Service Pack
[131]: KB2115168 - Update
[132]: KB2229593 - Update
[133]: KB2296011 - Update
[134]: KB2347290 - Update
[135]: KB2387149 - Update
[136]: KB2393802 - Update
[137]: KB2419632 - Update
[138]: KB2423089 - Update
[139]: KB2443105 - Update
[140]: KB2478960 - Update
[141]: KB2478971 - Update
[142]: KB2479943 - Update
[143]: KB2481109 - Update
[144]: KB2483185 - Update
[145]: KB2485663 - Update
[146]: KB2506212 - Update
[147]: KB2507938 - Update
[148]: KB2508429 - Update
[149]: KB2509553 - Update
[150]: KB2510581 - Update
[151]: KB2535512 - Update
[152]: KB2536276-v2 - Update
[153]: KB2544893-v2 - Update
[154]: KB2566454 - Update
[155]: KB2570947 - Update
[156]: KB2584146 - Update
[157]: KB2585542 - Update
[158]: KB2592799 - Update
[159]: KB2598479 - Update
[160]: KB2603381 - Update
[161]: KB2619339 - Update
[162]: KB2620712 - Update
[163]: KB2631813 - Update

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[164]: KB2653956 - Update
[165]: KB2655992 - Update
[166]: KB2659262 - Update
[167]: KB2661637 - Update
[168]: KB2676562 - Update
[169]: KB2686509 - Update
[170]: KB2691442 - Update
[171]: KB2698365 - Update
[172]: KB2705219-v2 - Update
[173]: KB2712808 - Update
[174]: KB2719985 - Update
[175]: KB2723135-v2 - Update
[176]: KB2727528 - Update
[177]: KB2757638 - Update
[178]: KB2770660 - Update
[179]: KB2780091 - Update
[180]: KB2802968 - Update
[181]: KB2807986 - Update
[182]: KB2813345 - Update
[183]: KB2820917 - Update
[184]: KB2834886 - Update
[185]: KB2847311 - Update
[186]: KB2850869 - Update
[187]: KB2859537 - Update
[188]: KB2862152 - Update
[189]: KB2862330 - Update
[190]: KB2862335 - Update
[191]: KB2864063 - Update
[192]: KB2868038 - Update
[193]: KB2868626 - Update
[194]: KB2876217 - Update
[195]: KB2876331 - Update
[196]: KB2892075 - Update
[197]: KB2893294 - Update
[198]: KB2898715 - Update
[199]: KB2900986 - Update
[200]: KB2904266 - Update
[201]: KB2909212 - Update
[202]: KB2914368 - Update
[203]: KB2916036 - Update
[204]: KB2922229 - Update
[205]: KB2929961 - Update
[206]: KB2930275 - Update
[207]: KB2936068 - Update
[208]: KB2964358 - Update
[209]: KB923561 - Update
[210]: KB942288-v3 - Update
[211]: KB946648 - Update

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[212]: KB950762 - Update
[213]: KB950974 - Update
[214]: KB951376-v2 - Update
[215]: KB952004 - Update
[216]: KB952954 - Update
[217]: KB953356 - Update
[

NetWork Card(s): 1 NIC(s) Installed.
[01]: Intel(R) 82579LM Gigabit Network Connection
Connection Name: Local Area Connection
DHCP Enabled: No
IP address(es)
[01]: 192.168.1.101

*****Test to see if device can reach the Internet*** (It cannot)**

C:\Documents and Settings\Administrator.ELECTIONS>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.

Ping statistics for 8.8.8.8:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

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DAM4 Post Review:

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1035	127.0.0.1:1036	ESTABLISHED
TCP	127.0.0.1:1036	127.0.0.1:1035	ESTABLISHED
TCP	127.0.0.1:1042	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1043	0.0.0.0:0	LISTENING
TCP	192.168.1.101:139	0.0.0.0:0	LISTENING
TCP	192.168.1.101:1080	192.168.1.20:139	ESTABLISHED
UDP	0.0.0.0:445	*:*	
UDP	0.0.0.0:500	*:*	
UDP	0.0.0.0:4500	*:*	
UDP	127.0.0.1:123	*:*	
UDP	127.0.0.1:1025	*:*	
UDP	127.0.0.1:1049	*:*	
UDP	127.0.0.1:1900	*:*	
UDP	192.168.1.101:123	*:*	
UDP	192.168.1.101:137	*:*	
UDP	192.168.1.101:138	*:*	
UDP	192.168.1.101:1900	*:*	

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1032	127.0.0.1:1033	ESTABLISHED
TCP	127.0.0.1:1033	127.0.0.1:1032	ESTABLISHED
TCP	127.0.0.1:1042	0.0.0.0:0	LISTENING
TCP	127.0.0.1:1043	0.0.0.0:0	LISTENING
TCP	192.168.1.101:139	0.0.0.0:0	LISTENING
TCP	192.168.1.101:1080	192.168.1.20:139	TIME_WAIT
TCP	192.168.1.101:1081	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.101:1084	192.168.1.20:445	ESTABLISHED
TCP	192.168.1.101:1086	192.168.1.20:1026	TIME_WAIT
TCP	192.168.1.101:1090	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.101:1093	192.168.1.20:389	TIME_WAIT
TCP	192.168.1.101:1094	192.168.1.20:445	TIME_WAIT
TCP	192.168.1.101:1099	192.168.1.20:389	TIME_WAIT
UDP	0.0.0.0:445	*:*	
UDP	0.0.0.0:500	*:*	
UDP	0.0.0.0:4500	*:*	
UDP	127.0.0.1:123	*:*	
UDP	127.0.0.1:1025	*:*	
UDP	127.0.0.1:1049	*:*	
UDP	127.0.0.1:1900	*:*	
UDP	192.168.1.101:123	*:*	
UDP	192.168.1.101:137	*:*	
UDP	192.168.1.101:138	*:*	
UDP	192.168.1.101:1900	*:*	

Differing connections to the DHCP/DNS/WINS server are not a concern as that is part of the local area network.

DAM4 Post Election Review - Passed

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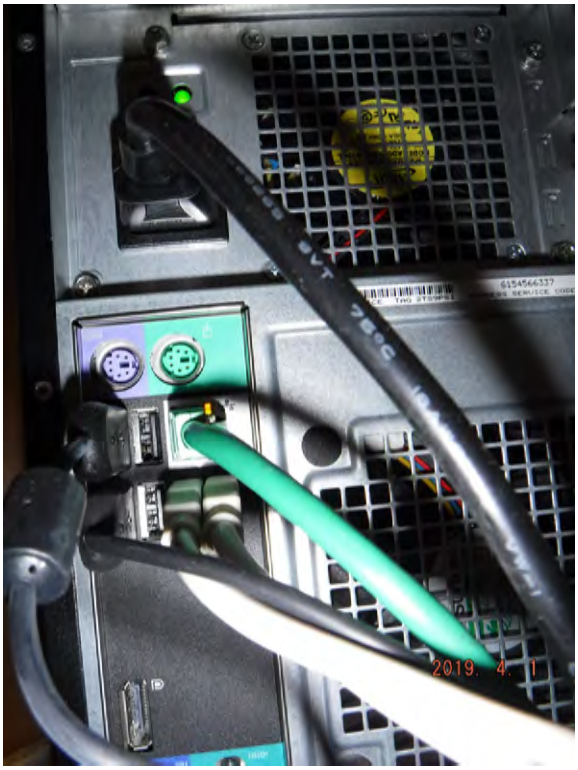
DAM3.elections.local

DAM3 Front

DAM3 Rear



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Information Collected from DAM3 CLI:

C:\Documents and Settings\Administrator.ELECTIONS>hostname

DAM3

C:\Documents and Settings\Administrator.ELECTIONS>ipconfig /all

Windows IP Configuration

Host Name . . . . . : DAM3

Primary Dns Suffix . . . . . : elections.local

Node Type . . . . . : Hybrid

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

DNS Suffix Search List. . . . . : elections.local

elections.local

Ethernet adapter Local Area Connection 2:

Connection-specific DNS Suffix . : elections.local

Description . . . . . : Intel(R) 82579LM Gigabit Network Connection

Physical Address. . . . . : D4-BE-D9-A4-D1-C5

Dhcp Enabled. . . . . : **Yes**

Autoconfiguration Enabled . . . . : Yes

IP Address. . . . . : **192.168.1.41**

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . : **192.168.1.1**

DHCP Server . . . . . : **192.168.1.20**

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```
    DNS Servers . . . . . . . . . . . : 192.168.1.20
    Primary WINS Server . . . . . . . : 192.168.1.20
    Lease Obtained. . . . . . . . . . : Monday, April 01, 2019 7:30:02 AM
    Lease Expires . . . . . . . . . . : Tuesday, April 09, 2019 7:30:02 AM

C:\Documents and Settings\Administrator.ELECTIONS>arp -a

Interface: 192.168.1.41 --- 0x2
  Internet Address      Physical Address      Type
  192.168.1.20          00-14-22-60-3f-94     dynamic

C:\Documents and Settings\Administrator.ELECTIONS>netstat -rn

Route Table
===========================================================================
Interface List
0x1 ........................... MS TCP Loopback interface
0x2 ...d4 be d9 a4 d1 c5 ...... Intel(R) 82579LM Gigabit Network Connection - Packet Scheduler Miniport
===========================================================================
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0      192.168.1.1    192.168.1.41      10
        127.0.0.0        255.0.0.0        127.0.0.1       127.0.0.1       1
      192.168.1.0    255.255.255.0     192.168.1.41    192.168.1.41      10
```


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```
    192.168.1.41  255.255.255.255       127.0.0.1       127.0.0.1       10
   192.168.1.255  255.255.255.255     192.168.1.41    192.168.1.41       10
       224.0.0.0       240.0.0.0     192.168.1.41    192.168.1.41       10
 255.255.255.255  255.255.255.255     192.168.1.41    192.168.1.41        1
Default Gateway:       192.168.1.1
===========================================================================
Persistent Routes:
  None

C:\Documents and Settings\Administrator.ELECTIONS>netstat -an

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1045         127.0.0.1:1046         ESTABLISHED
  TCP    127.0.0.1:1046         127.0.0.1:1045         ESTABLISHED
  TCP    127.0.0.1:1051         0.0.0.0:0              LISTENING
  TCP    127.0.0.1:1057         0.0.0.0:0              LISTENING
  TCP    192.168.1.41:139       0.0.0.0:0              LISTENING
  TCP    192.168.1.41:1082      192.168.1.20:135       TIME_WAIT
  TCP    192.168.1.41:1083      192.168.1.20:1026      TIME_WAIT
  TCP    192.168.1.41:1087      192.168.1.20:445       ESTABLISHED
  TCP    192.168.1.41:1089      192.168.1.20:1026      TIME_WAIT
```


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```
  TCP    192.168.1.41:1092      192.168.1.20:389       TIME_WAIT

  TCP    192.168.1.41:1095      192.168.1.20:389       TIME_WAIT

  TCP    192.168.1.41:1096      192.168.1.20:445       TIME_WAIT

  TCP    192.168.1.41:1101      192.168.1.20:389       TIME_WAIT

  TCP    192.168.1.41:1105      192.168.1.20:445       ESTABLISHED

  UDP    0.0.0.0:445            *:*

  UDP    0.0.0.0:500            *:*

  UDP    0.0.0.0:1025           *:*

  UDP    0.0.0.0:1026           *:*

  UDP    0.0.0.0:4500           *:*

  UDP    127.0.0.1:123          *:*

  UDP    127.0.0.1:1027         *:*

  UDP    127.0.0.1:1043         *:*

  UDP    127.0.0.1:1900         *:*

  UDP    192.168.1.41:123       *:*

  UDP    192.168.1.41:137       *:*

  UDP    192.168.1.41:138       *:*

  UDP    192.168.1.41:1900      *:*

C:\Documents and Settings\Administrator.ELECTIONS>systeminfo


Host Name:                 DAM3

OS Name:                   Microsoft Windows XP Professional

OS Version:                5.1.2600 Service Pack 3 Build 2600

OS Manufacturer:           Microsoft Corporation

OS Configuration:          Member Workstation
```


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OS Build Type: Multiprocessor Free

Registered Owner: ess

Registered Organization:

Product ID: 76487-OEM-0060807-79692

Original Install Date: 3/30/2016, 10:52:49 AM

System Up Time: 0 Days, 0 Hours, 45 Minutes, 36 Seconds

System Manufacturer: Dell Inc.

System Model: OptiPlex 790

System type: X86-based PC

Processor(s): 1 Processor(s) Installed.

[01]: x86 Family 6 Model 42 Stepping 7 GenuineIntel ~

3092 Mhz

BIOS Version: DELL - 6222004

Windows Directory: C:\WINDOWS

System Directory: C:\WINDOWS\system32

Boot Device: \Device\HarddiskVolume1

System Locale: en-us;English (United States)

Input Locale: en-us;English (United States)

Time Zone: (GMT-05:00) Eastern Time (US & Canada)

Total Physical Memory: 3,241 MB

Available Physical Memory: 2,879 MB

Virtual Memory: Max Size: 2,048 MB

Virtual Memory: Available: 1,972 MB

Virtual Memory: In Use: 76 MB

Page File Location(s): C:\pagefile.sys

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Domain: elections.local

Logon Server: \\BOE

Hotfix(s): 10 Hotfix(s) Installed.

[01]: File 1

[02]: File 1

[03]: File 1

[04]: File 1

[05]: Q147222

[06]: KB936929 - Service Pack

[07]: KB942288-v3 - Update

[08]: KB953356 - Update

[09]: KB954550-v5 - Update

[10]: KB835221WXP - Update

NetWork Card(s): 1 NIC(s) Installed.

[01]: Intel(R) 82579LM Gigabit Network Connection

Connection Name: Local Area Connection 2

DHCP Enabled: Yes

DHCP Server: 192.168.1.20

IP address(es)

[01]: 192.168.1.41

*****Test to see if device can reach the Internet*** (It cannot)**

C:\Documents and Settings\Administrator.ELECTIONS>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

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Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

*****Test to see if device can reach the Internet*** (It cannot)**

C:\Documents and Settings\Administrator.ELECTIONS>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

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External Connections on Client Devices

The only outside (external) connections found on the network were the dial-up modems on the 2 DAM servers which are part of the application and are outbound only. No other external connections were found on the network. Each server/workstation was tested and none of them had Internet access. The 7 Ethernet connections on the Dell 2716 switch were traced to valid devices. No other cables were connected to the Dell Switch and no loose cables were observed near the switch.

Modem Bank

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Dell PowerConnect 2716

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OKI B6300 Printer

No Wireless Adapters or Bluetooth Capability Found on Client Devices

Each PC was physically inspected for the presence of a wireless adapter or Bluetooth adapter and none were found.

The Windows "Device Manager" of each device was also inspected for the presence of any wireless devices.

No Wireless Keyboards and Mice

The keyboards and mice all had physical wires connected to the computers.

Scan for the presence of Wireless Devices

A scan was performed from the solution4networks laptop for the presence of wireless APs or networks the following SSIDs were found.

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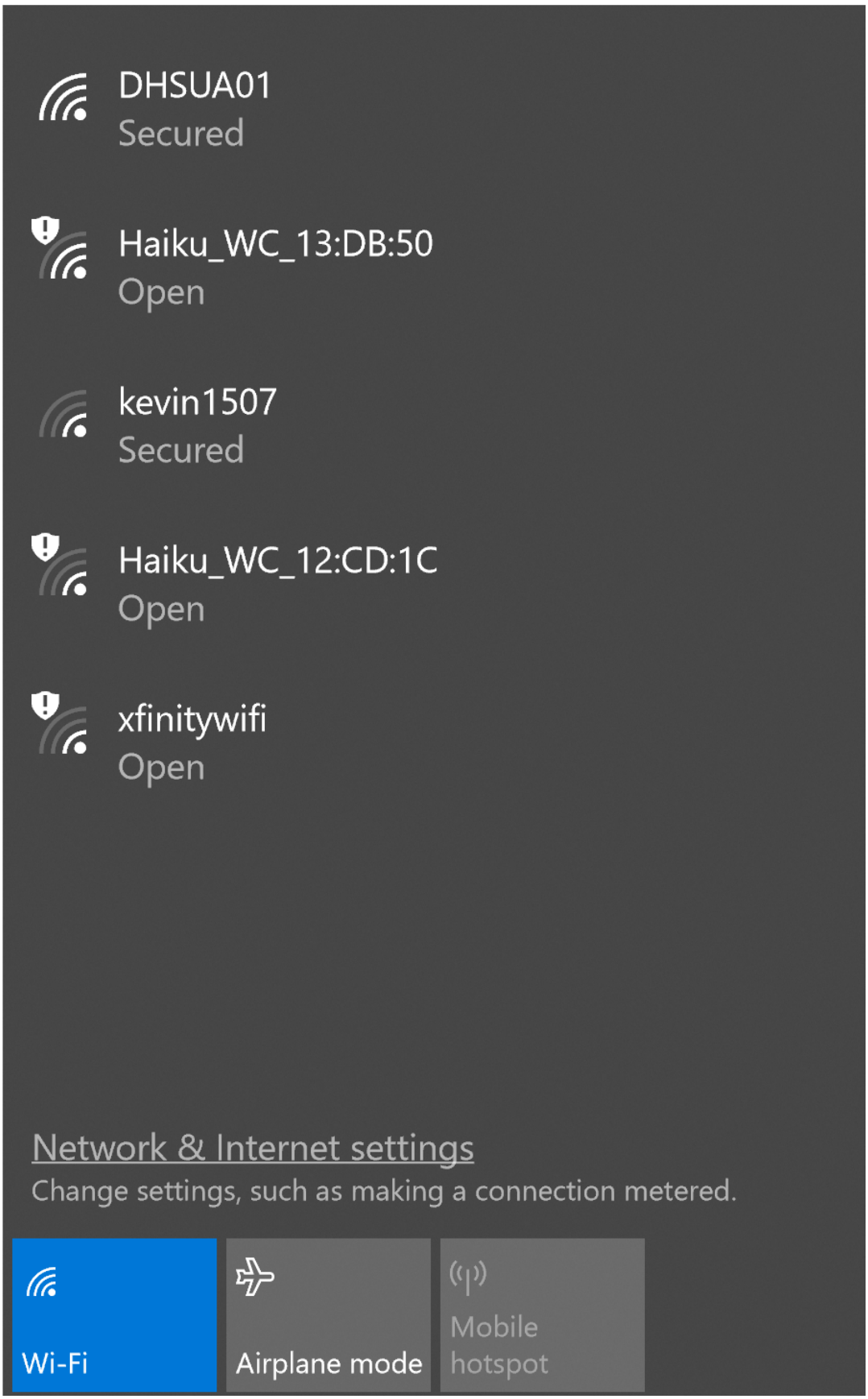

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Post-Election Review: All items indicated above remained the same.

Overall Network Air Gap Analysis

No major issues found. Minor areas of improvement recommended see below.

Recommendations for isolating a network for the purposes of an air gap

- Disable any removable or unused USB ports and other media slots such as CD drives (some IT managers use superglue and others use endpoint protection software) so that no external media can be attached to your computer to infect or exfiltrate any data there are also USB Port Blockers available.
- Install special TEMPEST-style radio frequency protection, to trap any errant RF monitoring from your most sensitive computers. (Faraday cages)
- DO NOT connect your PC to the Internet.
- Keep cellphones away from your PCs. They have so many communications pathways that it can be almost impossible to keep anything securely from them.
- Secure the machine offsite or in a safeguarded room.
- Make sure all cables that are in unsecured areas are in inaccessible or in conduit.
- Turn the machine off when it is not in use (and unplug it from power).
- Encrypt your data.

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County of Allegheny, Commonwealth of Pennsylvania

Parallel Test Report
Special Election

April 2, 2019

bakertilly

County of Allegheny, Commonwealth of Pennsylvania

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April 2, 2019

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Exhibit G - Random Sample Selection	
Attachment - 4 Video Tapes	

Mr. William McKain, County Manager
County of Allegheny, Commonwealth of Pennsylvania
Office of the County Manager
436 Grant Street
Room 119 Courthouse
Pittsburgh, PA 15219

To assist with your evaluation of County of Allegheny's electronic voting machines, we randomly selected an election day polling location, scripted votes for parallel testing, and tested the functionality of the Direct Recording Electronic equipment, ES&S iVotronic voting machines. The test was performed on April 2, 2019, the date of the special election. The scripting component included creating hypothetical ballots for parallel testing by mimicking voter behavior and voting patterns from data and statistics provided by County of Allegheny, Department of Elections, for Precinct 42, Bethel Park Ward 1 District 2. Our engagement was performed in accordance with the consulting standards prescribed by the American Institute of Certified Public Accountants.

The results of the work performed indicate that the two voting machines tested, accurately recorded and counted the results of 207 ballots cast for the selected polling location. Our results are supported by visual evidence that the electronic voting machine recorded and maintained the vote counts properly. At the beginning of the process, we verified that the zero tape did in fact contain zero vote counts for each candidate in each race. Testing was done under video surveillance, capturing votes as they were entered into each voting machine from the scripted ballots. At the end of the election process, we compared the vote totals in the script, the Master Personalized Electronic Ballot (PEB), the Final Results Tape, and Flash Cards from the machines tested and found them to be in agreement. There were no discrepancies between the number of ballots cast, ballots cast for a particular party, votes for a particular candidate, the number of under-votes, the number of canceled votes, and the audio ballot cast for the visually impaired.

Because of its special purpose, this report is not suited for any purpose other than to assist you in your evaluation and, as such, is intended only for your internal use.

Baker Tilly Virchow Krause, LLP

Pittsburgh, Pennsylvania
April 2, 2019

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COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
RECONCILIATION OF VOTE TOTALS IN SCRIPT TO FINAL RESULTS TAPE, FLASH CARDS AND MASTER PEB
APRIL 2, 2019

PRECINCT: BETHEL PARK WARD 1 DISTRICT 2

	Voter Terminal Data per Script			Final Results Tape	Flash Card Data (from Precinct Report)			Master PEB Data	Differences
	V5187562	V5170902	Total		V5187562	V5170902	Total		
Public Count	116	0	**116**	**116**	116	0	**116**	**116**	0
	0	91	**91**	**91**	0	91	**91**	**91**	0
	116	91	**207**	**207**	116	91	**207**	**207**	0
Straight Party Option									
Democratic	4	3	**7**	**7**	4	3	**7**	**7**	0
Republican	13	10	**23**	**23**	13	10	**23**	**23**	0
Total	17	13	**30**	**30**	17	13	**30**	**30**	0
Member of Council									
Pam Iovino	57	37	**94**	**94**	57	37	**94**	**94**	0
D. Raja	59	54	**113**	**113**	59	54	**113**	**113**	0
Total	116	91	**207**	**207**	116	91	**207**	**207**	0

Exhibit A

The parallel testing work performed was as follows:

Control and Security Procedures

1. We randomly selected a precinct.

2. We selected two ES&S iVotronic voting machines with "tamper-evident" seals from the County of Allegheny warehouse. We test-voted on each of the ES&S iVotronic voting machines.

3. We created a script for parallel testing to mimic voter behavior and voting patterns for the polling location randomly selected.

4. We obtained and secured the Master Personalized Electronic Ballot (PEB) and two Supervisor PEBs. The Master PEB is used to open voting machines and to print the zero tape (a "zero-vote" count tape from the ES&S iVotronic voting machines) before electronic balloting starts, and the Supervisor PEB is used to activate an ES&S iVotronic voting machine for each voter. Each PEB was secured in a locked file in our office prior to election day to prevent access and tampering.

5. We set up parallel test equipment where all actions could be visibly recorded by video surveillance. One video camera was set up to document the votes cast on each of the ES&S iVotronic voting machines selected.

6. We conducted the parallel test in a low traffic area to avoid interruptions.

Casting Votes

1. Ballots were scripted to ensure that "voter turnout" in the mock election closely approximated the projected voter turnout for the randomly selected polling location.

2. The video camera was focused on the ES&S iVotronic voting machine screen in a manner that votes could be seen as they were entered.

3. Actual voting was conducted as follows:

    - First team member: Called out each vote as marked on the ballot script.
    - Second team member: As each vote was called, entered the vote in the ES&S iVotronic voting machine.
    - Second team member: Called back the votes cast as they appeared on the summary screen(s) on the ES&S iVotronic voting machine.
    - First team member: As the second team member called back the votes, verified that the vote was cast as it was read, and made a notation on the script.

The terminals closed at 8:00 PM. The final results tape was printed and the flash card from each voting machine was removed. Video camera tapes were marked according to the applicable voting machine and the time votes were entered into the voting machine selected for testing.

Exhibit B

Terminal S/N: V5170902->
PEB S/N PS206993-_ (FMW 1.07)
Software Version 9.1.4.1
Created 02/01/06 8:50
Copyright ES&S, Inc. 1993-2005
All Rights Reserved
Diagnostic check completed: OK
iVotronic I

37th Senatorial
BETHEL PARK WARD 1 DIST 2
POLLING LOCATION ZERO TAPE

Public Count Statistics
Total Ballots Cast: 0
Total Ballots Counted: 0

Number of Terminals Opened: 2
Individual Voter Terminal Data
S/N V5187562
Public Count: 0
Protective Count: 4951
OPENED 06:05:53 04/02/2019
NOT CLOSED
S/N V5170902
Public Count: 0
Protective Count: 4063
OPENED 06:09:58 04/02/2019
NOT CLOSED

****
PRECINCT: BETHEL PARK WARD 1 DIST 2
Public Count: 0
Ballot Style Counts
Ballot Style #5 0

Straight Party Option		
(Vote for 1)	Total:	0
Dem-Democratic		0
Rep-Republican		0
UnderVotes For Above contest:		0

SEN0037 Senator in the General Assembly		
(Vote for 1)	Total:	0
Dem-Pam Iovino		0
Rep-D. Raja		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

Time/Date: 06:11:46 04/02/2019

Signature: _____

Signature: Lindsay Hochender

Signature: Ronald M. Sanders CLOCKS STILL ON STD TIME

Signature: _____

Exhibit C

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, APRIL 2, 2019
SUMMARY OF SCRIPTS

		Straight Party Option (vote for one)		Representative in Congress (vote for one)		
	Public Count #	Democratic	Republican	Iovino	Raja	Write-In
Machine 1 V5187562	116	4	13	57	59	0
Machine 2 V5170902	91	3	10	37	54	0
Total	207	7	23	94	113	0

Machine #
V5187562

COUNTY OF ALLEGHENY, COMMONWEALTH OF
ELECTION, TUESDAY, APRIL 2, 2019
VOTER SIMULATION PROJECT SCRIPT

	Straight Party Option (vote for one)		Representative in Congress (vote for one)		
Public Count #	Democratic	Republican	Iovino	Raja	Write-In
1				1	
2	1		1		
3			1		
4		1		1	
5				1	
6			1		
7				1	
8				1	
9			1		
10				1	
11			1		
12		1		1	
13		1		1	
14			1		
15			1		
16			1		
17			1		
18				1	
19				1	
20				1	
21			1		
22				1	
23			1		
24			1		
25			1		
26			1		
27				1	
28			1		
29		1		1	
30	1		1		
31			1		
32			1		
33				1	
34				1	
35			1		
36		1		1	
37				1	
38			1		
39			1		
40			1		
41			1		
42				1	
43				1	
44		1		1	
45		1		1	
46			1		
47			1		
48				1	
49			1		
50				1	
51			1		
52				1	
53			1		
54				1	
55				1	
56			1		
57				1	
58			1		
59				1	
60			1		
61		1		1	
62	1		1		
63			1		

Machine #
V5187562

COUNTY OF ALLEGHENY, COMMONWEALTH OF
ELECTION, TUESDAY, APRIL 2, 2019
VOTER SIMULATION PROJECT SCRIPT

	Straight Party Option (vote for one)		Representative in Congress (vote for one)		
Public Count #	**Democratic**	**Republican**	**Iovino**	**Raja**	**Write-In**
64			1		
65				1	
66				1	
67				1	
68			1		
69			1		
70				1	
71			1		
72			1		
73				1	
74				1	
75			1		
76				1	
77				1	
78			1		
79				1	
80				1	
81			1		
82		1		1	
83				1	
84			1		
85				1	
86				1	
87			1		
88				1	
89				1	
90		1		1	
91		1		1	
92			1		
93			1		
94			1		
95			1		
96				1	
97			1		
98				1	
99			1		
100				1	
101			1		
102			1		
103				1	
104			1		
105				1	
106				1	
107		1		1	
108	1		1		
109			1		
110			1		
111				1	
112				1	
113			1		
114		1		1	
115				1	
116			1		
Subtotal	**4**	**13**	**57**	**59**	**0**

Machine #
V5170902

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, APRIL 2, 2019
VOTER SIMULATION PROJECT SCRIPT

	Straight Party Option (vote for one)		Representative in Congress (vote for one)		
Public Count #	Democratic	Republican	Iovino	Raja	Write-In
1			1		
2				1	
3				1	
4			1		
5				1	
6				1	
7		1		1	
8		1		1	
9			1		
10			1		
11			1		
12			1		
13				1	
14				1	
15				1	
16			1		
17				1	
18				1	
19			1		
20				1	
21			1		
22				1	
23				1	
24		1		1	
25	1		1		
26			1		
27			1		
28				1	
29				1	
30				1	
31			1		
32			1		
33				1	
34			1		
35			1		
36				1	
37				1	
38			1		
39				1	
40				1	
41		1		1	
42		1		1	
43			1		
44			1		
45				1	
46			1		
47				1	
48				1	
49				1	
50			1		
51				1	
52				1	

Machine #
V5170902

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, APRIL 2, 2019
VOTER SIMULATION PROJECT SCRIPT

	Straight Party Option (vote for one)		Representative in Congress (vote for one)		
Public Count #	**Democratic**	**Republican**	**Iovino**	**Raja**	**Write-In**
53			1		
54				1	
55			1		
56				1	
57				1	
58		1		1	
59	1		1		
60			1		
61			1		
62				1	
63				1	
64				1	
65		1		1	
66				1	
67			1		
68				1	
69			1		
70			1		
71			1		
72				1	
73		1		1	
74		1		1	
75			1		
76			1		
77				1	
78			1		
79				1	
80				1	
81				1	
82			1		
83				1	
84				1	
85			1		
86				1	
87			1		
88				1	
89				1	
90		1		1	
91	1		1		
Subtotal	**3**	**10**	**37**	**54**	**0**

Exhibit D

Terminal S/N: V5170902->
PEB S/N PS206993-_ (FMW 1.07)
Software Version 9.1.4.1
Created 02/01/06 8:50
Copyright ES&S, Inc. 1993-2005
All Rights Reserved
Diagnostic check completed: OK
iVotronic I

37th Senatorial
BETHEL PARK WARD 1 DIST 2
POLLING LOCATION RESULTS

Public Count Statistics

Total Ballots Cast:	207
Total Ballots Counted:	207

Number of Terminals Opened:	2

Individual Voter Terminal Data

S/N V5187562

Public Count:	116
Protective Count:	5067
OPENED 06:05:53 04/02/2019	
CLOSED 20:05:21 04/02/2019	
Terminal Ballots Counted:	116

S/N V5170902

Public Count:	91
Protective Count:	4154
OPENED 06:09:58 04/02/2019	
CLOSED 20:08:01 04/02/2019	
Terminal Ballots Counted:	91

****
PRECINCT: BETHEL PARK WARD 1 DIST 2

Public Count:	207
Ballot Style Counts	
Ballot Style #5	207
Straight Ticket Counts	
Democratic	6
Republican	23
Straight Party Option	
(Vote for 1) Total:	30
Dem-Democratic	7
Rep-Republican	23
UnderVotes For Above contest:	177
SEN0037 Senator in the General Assembly	
(Vote for 1) Total:	207
Dem-Pam Iovino	94
Rep-D. Raja	113
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

1 - See below

Time/Date: 20:11:23 04/02/2019

Signature:

Signature:

Signature:

Signature:

1- The "straight party option" vote tally for the Democratic candidate recorded 7 ballots cast while the "straight party ticket" vote tally for the Democratic candidate recorded 6 ballots cast. The definition of a "straight party option" in this instance is when the "straight party option" button on the ballot is selected and no changes are made to the ballot. This means that all candidates that were automatically selected by the "straight party option" are not previously or subsequently modified. The definition of a "straight party ticket" in this instance is when the "straight party option" button on the ballot is selected and changes are made to the individual candidates before or after selecting the "straight party option" button. This can result in a vote that is identical to the "straight party option", but because any changes were made to the voting selections it is no longer considered a "straight party option" vote. This is not an error of the voting machine. Instead, this distinction is made by the voting machine in this instance as a result of the second team member selecting the individual candidate first and then selecting the "straight party option" button. This conclusion is supported by video evidence.

Exhibit E


```
<HTML>
<PRE>
PRECINCT REPORT
RUN DATE:04/09/19
RUN TIME:09:32 AM

          0042 BETHEL PARK WARD 1 DIST 2
                                                   VOTES  PERCENT
           REGISTERED VOTERS - TOTAL .  .  .  .  .  .    823
           BALLOTS CAST - TOTAL.  .  .  .  .  .  .  .    207
           VOTER TURNOUT - TOTAL  .  .  .  .  .  .  .          25.15


          Straight Party Option
          Vote for One  1
           Democratic (Dem) .  .  .  .  .  .  .  .  .      7   23.33
           Republican (Rep) .  .  .  .  .  .  .  .  .     23   76.67


          Senator in the General Assembly 37TH DISTRICT
          Vote for One  1
           Pam Iovino (Dem) .  .  .  .  .  .  .  .  .     94   45.41
           D. Raja (Rep) .  .  .  .  .  .  .  .  .  .    113   54.59
           WRITE-IN.  .  .  .  .  .  .  .  .  .  .  .      0
</HTML>
</PRE>
```

```
<HTML>
<PRE>
PREC REPORT-GROUP DETAIL
RUN DATE:04/09/19 09:41 AM

0042 BETHEL PARK WARD 1 DIST 2
                                          TOTAL VOTES     %        5170902
5187562
 REGISTERED VOTERS - TOTAL .  .  .  .  .  .     823
 BALLOTS CAST - TOTAL.  .  .  .  .  .  .  .     207                     91
116
 VOTER TURNOUT - TOTAL  .  .  .  .  .  .  .            25.15


Straight Party Option
Vote for One  1
 Democratic (Dem) .  .  .  .  .  .  .  .  .  .       7    23.33            3
  4
 Republican (Rep) .  .  .  .  .  .  .  .  .  .      23    76.67           10
 13


Senator in the General Assembly 37TH DISTRICT
Vote for One  1
 Pam Iovino (Dem) .  .  .  .  .  .  .  .  .  .      94    45.41           37
 57
 D. Raja (Rep) .  .  .  .  .  .  .  .  .  .  .     113    54.59           54
 59
 WRITE-IN.  .  .  .  .  .  .  .  .  .  .  .  .       0                     0
  0
</HTML>
</PRE>
```

Exhibit F

Pseudo	Municipality	Muni Code	Ward	District	Registration
1	ALEPPO	101	0	1	1377
31	BELL ACRES	106	0	1	1163
40	BEN AVON HGTS	109	0	1	327
41	BETHEL PARK	110	1	1	879
42	BETHEL PARK	110	1	2	826
43	BETHEL PARK	110	1	3	835
44	BETHEL PARK	110	2	1	734
45	BETHEL PARK	110	2	2	905
46	BETHEL PARK	110	2	3	1139
47	BETHEL PARK	110	3	1	793
48	BETHEL PARK	110	3	2	958
49	BETHEL PARK	110	3	3	1082
50	BETHEL PARK	110	4	1	1302
51	BETHEL PARK	110	4	2	797
52	BETHEL PARK	110	4	3	895
53	BETHEL PARK	110	5	1	617
54	BETHEL PARK	110	5	2	674
55	BETHEL PARK	110	5	3	1487
56	BETHEL PARK	110	6	1	1301
57	BETHEL PARK	110	6	2	969
58	BETHEL PARK	110	6	3	843
59	BETHEL PARK	110	7	1	1176
60	BETHEL PARK	110	7	2	1121
61	BETHEL PARK	110	7	3	777
62	BETHEL PARK	110	8	1	521
63	BETHEL PARK	110	8	2	550
64	BETHEL PARK	110	8	3	1244
65	BETHEL PARK	110	8	4	452
66	BETHEL PARK	110	9	1	573
67	BETHEL PARK	110	9	2	741
68	BETHEL PARK	110	9	3	1401
89	BRIDGEVILLE	117	0	1	838
90	BRIDGEVILLE	117	0	2	879
91	BRIDGEVILLE	117	0	3	861
92	BRIDGEVILLE	117	0	4	987
128	COLLIER	124	0	1	1243
129	COLLIER	124	0	2	1278
130	COLLIER	124	0	3	1248
131	COLLIER	124	0	4	794
132	COLLIER	124	0	5	994
133	COLLIER	124	0	6	1137
147	CRESCENT	127	1	0	1148
148	CRESCENT	127	2	0	681
183	EDGEWORTH	135	0	1	717
184	EDGEWORTH	135	0	2	770

197	EMSWORTH	138	0	1	794
198	EMSWORTH	138	0	2	969
204	FINDLAY	141	0	1	1363
205	FINDLAY	141	0	2	1769
206	FINDLAY	141	0	3	1214
240	GLEN OSBORNE	184	0	1	457
272	GLENFIELD	148	0	1	152
288	HAYSVILLE	153	0	1	61
289	JEFFERSON HILLS	158	0	1	1617
290	JEFFERSON HILLS	158	0	2	845
291	JEFFERSON HILLS	158	0	3	656
292	JEFFERSON HILLS	158	0	4	683
293	JEFFERSON HILLS	158	0	5	2088
294	JEFFERSON HILLS	158	0	6	952
295	JEFFERSON HILLS	158	0	7	375
303	JEFFERSON HILLS	158	0	8	1183
304	KILBUCK	160	0	1	604
305	LEET	161	0	1	406
306	LEET	161	0	2	780
337	LEETSDALE	162	0	1	875
407	MCDONALD	167	0	5	210
408	MOON	172	0	1	1601
409	MOON	172	0	2	1867
410	MOON	172	0	3	1505
411	MOON	172	0	4	779
412	MOON	172	0	5	2472
413	MOON	172	0	6	2317
414	MOON	172	0	7	1582
415	MOON	172	0	8	999
416	MOON	172	0	9	2010
417	MOON	172	0	10	787
418	MOON	172	0	11	1346
419	MOON	172	0	12	1032
420	MOON	172	0	13	732
421	MT LEBANON	173	1	1	855
422	MT LEBANON	173	1	2	723
423	MT LEBANON	173	1	3	684
424	MT LEBANON	173	1	4	805
425	MT LEBANON	173	1	5	619
426	MT LEBANON	173	1	6	1092
427	MT LEBANON	173	1	7	799
428	MT LEBANON	173	2	1	986
429	MT LEBANON	173	2	2	618
430	MT LEBANON	173	2	3	738
431	MT LEBANON	173	2	4	551
432	MT LEBANON	173	2	5	599
433	MT LEBANON	173	2	6	560

434	MT LEBANON	173	2	7	650
435	MT LEBANON	173	2	8	1023
436	MT LEBANON	173	3	1	670
437	MT LEBANON	173	3	2	902
438	MT LEBANON	173	3	3	714
439	MT LEBANON	173	3	4	772
440	MT LEBANON	173	3	5	710
441	MT LEBANON	173	3	6	476
442	MT LEBANON	173	3	7	851
443	MT LEBANON	173	3	8	337
444	MT LEBANON	173	4	1	814
445	MT LEBANON	173	4	2	924
446	MT LEBANON	173	4	3	747
447	MT LEBANON	173	4	4	686
448	MT LEBANON	173	4	5	636
449	MT LEBANON	173	4	6	686
450	MT LEBANON	173	4	7	828
451	MT LEBANON	173	5	1	644
452	MT LEBANON	173	5	2	469
453	MT LEBANON	173	5	3	617
454	MT LEBANON	173	5	4	602
455	MT LEBANON	173	5	5	640
456	MT LEBANON	173	5	6	487
457	MT LEBANON	173	5	7	811
484	MT LEBANON	173	5	8	1024
485	N FAYETTE	178	0	1	2082
486	N FAYETTE	178	0	2	2549
487	N FAYETTE	178	0	3	2512
488	N FAYETTE	178	0	4	1091
502	N FAYETTE	178	0	5	2577
503	OAKDALE	180	0	1	596
520	OAKDALE	180	0	2	460
521	OHIO	183	0	1	1446
522	OHIO	183	0	2	1690
523	OHIO	183	0	3	2003
987	PENNSBURY VLG	212	0	2	591
988	PLEASANT HILLS	189	0	1	748
989	PLEASANT HILLS	189	0	2	554
990	PLEASANT HILLS	189	0	3	559
991	PLEASANT HILLS	189	0	4	554
992	PLEASANT HILLS	189	0	5	744
993	PLEASANT HILLS	189	0	6	954
994	PLEASANT HILLS	189	0	7	526
995	PLEASANT HILLS	189	0	8	532
996	PLEASANT HILLS	189	0	9	652
1037	PLEASANT HILLS	189	0	10	508
1038	ROBINSON	195	0	1	1653

1039	ROBINSON	195	0	2	993
1040	ROBINSON	195	0	3	678
1041	ROBINSON	195	0	4	816
1042	ROBINSON	195	0	5	613
1043	ROBINSON	195	0	6	894
1044	ROBINSON	195	0	7	1387
1045	ROBINSON	195	0	8	1657
1079	ROBINSON	195	0	9	2502
1098	ROSSLYN FARMS	197	0	1	397
1099	SEWICKLEY	199	1	0	1003
1100	SEWICKLEY	199	2	1	542
1101	SEWICKLEY	199	2	2	632
1102	SEWICKLEY	199	3	0	1079
1103	SEWICKLEY HILLS	201	0	1	545
1141	SEWICKLEY HTS	200	0	1	784
1142	SOUTH FAYETTE	204	0	1	580
1143	SOUTH FAYETTE	204	0	2	1090
1144	SOUTH FAYETTE	204	0	3	1609
1145	SOUTH FAYETTE	204	0	4	862
1146	SOUTH FAYETTE	204	0	5	887
1147	SOUTH FAYETTE	204	0	6	1248
1148	SOUTH FAYETTE	204	0	7	640
1149	SOUTH FAYETTE	204	0	8	1542
1150	SOUTH FAYETTE	204	0	9	645
1151	SOUTH FAYETTE	204	0	10	767
1152	SOUTH FAYETTE	204	0	11	992
1153	SOUTH FAYETTE	204	0	12	550
1154	SOUTH PARK	205	0	1	730
1155	SOUTH PARK	205	0	2	763
1156	SOUTH PARK	205	0	3	622
1157	SOUTH PARK	205	0	4	487
1158	SOUTH PARK	205	0	5	753
1159	SOUTH PARK	205	0	6	871
1160	SOUTH PARK	205	0	7	1118
1161	SOUTH PARK	205	0	8	524
1162	SOUTH PARK	205	0	9	833
1163	SOUTH PARK	205	0	10	865
1164	SOUTH PARK	205	0	11	604
1165	SOUTH PARK	205	0	12	570
1199	SOUTH PARK	205	0	13	1074
1200	THORNBURG	212	0	1	438
1208	UPPER ST CLAIR	215	1	1	713
1209	UPPER ST CLAIR	215	1	2	851
1210	UPPER ST CLAIR	215	1	3	1064
1211	UPPER ST CLAIR	215	1	4	845
1212	UPPER ST CLAIR	215	2	1	997
1213	UPPER ST CLAIR	215	2	2	732

1214	UPPER ST CLAIR	215	2	3	1059
1215	UPPER ST CLAIR	215	2	4	560
1216	UPPER ST CLAIR	215	3	1	1053
1217	UPPER ST CLAIR	215	3	2	871
1218	UPPER ST CLAIR	215	3	3	1193
1219	UPPER ST CLAIR	215	4	1	989
1220	UPPER ST CLAIR	215	4	2	785
1221	UPPER ST CLAIR	215	4	3	622
1222	UPPER ST CLAIR	215	4	4	1088
1223	UPPER ST CLAIR	215	5	1	1335
1224	UPPER ST CLAIR	215	5	2	837
1225	UPPER ST CLAIR	215	5	3	892
1274	WHITEHALL	225	0	1	533
1275	WHITEHALL	225	0	2	589
1276	WHITEHALL	225	0	3	676
1277	WHITEHALL	225	0	4	679
1278	WHITEHALL	225	0	5	689
1279	WHITEHALL	225	0	6	1088
1280	WHITEHALL	225	0	7	439
1281	WHITEHALL	225	0	8	798
1282	WHITEHALL	225	0	9	550
1283	WHITEHALL	225	0	10	609
1284	WHITEHALL	225	0	11	638
1285	WHITEHALL	225	0	12	559
1286	WHITEHALL	225	0	13	445
1287	WHITEHALL	225	0	14	597
1288	WHITEHALL	225	0	15	1003
1289	WHITEHALL	225	0	16	618

Exhibit G

BALLOT	MUNICIPALITY	MUNI	WARD	DISTRICT	TOTAL REGISTERED	SAM_RECNO
42	BETHEL PARK	110	1	2	826	5