To: Nicole Nollette[nicole.nollette@dominionvoting.com]; Mark McKinney[mark.mckinney@dominionvoting.com]; Ronald Morales[ronald.morales@dominionvoting.com]
From: Eric Coomer
Sent: Sat 3/28/2020 2:08:26 AM
Subject: Re: VPN

I do not think we need to, nor should we, implement vpn connectivity to the wineds system. That insulated us from the "official" tally system and I believe both city and county staff are familiar enough with wineds that they can handle those activities, especially with phone support.

I believe Mark agrees as well.

Thx for the update Ronald.

ERIC D. COOMER | DIRECTOR, PRODUCT STRATEGY AND SECURITY

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From: Ronald Morales <ronald.morales@dominionvoting.com>
Sent: Friday, March 27, 2020 7:46:28 PM
To: Nicole Nollette <nicole.nollette@dominionvoting.com>; Mark McKinney <mark.mckinney@dominionvoting.com>
Cc: Eric Coomer <eric.coomer@dominionvoting.com>
Subject: RE: VPN

Hi Nicole,

There are some technical aspects that I need to work on my side, then, I will coordinate with both CITY and COOK IT people to start working in the connectivity/configuration to our system.
- A unique user will be requested for DVS personnel for VPN access, in this way, we can assure that only one person/session can be connected to account at the same time. (this will be encompassed with the notifications and monitoring the access guidelines)
- An aspect that will be necessary to work in parallel, is the VPN connection to the WinEDS network in both COOK & CITY, because, they are different networks and will require additional work.
- In regards to the EMS VPN connections for COOK & CITY, the best way that we could handle it is with the use of virtual machines (created from RTM stations deployed for both counties) and from those virtual machines remote into the servers. The reasons this approach are:
   o Dominion, CITY & COOK are using different VPN technologies that are not compatible with each other. DVS and COOK are using Cisco technology, however, the VPN authentication methods are different. CITY uses Juniper, which if it is installed along with Cisco software may cause instability in the computers.
   o Once the VPN connections are established the connection is isolated, this means that

we cannot access anything other than the CITY or COOK network. This is a security feature, but, it will make impossible to add the video connectivity, or check anything else in our computer.

o The VM will provide us a cleaner connection between DVS and the county network, due to the fact the VM is just used for that purpose.

o The VPN connection in CITY, still uses a trial VPN software that can be used for 30 days, after that the computer requires to be rebuilt every time after 30 days (because, software leaves trace of previous installation and cannot be reinstalled)

- If the use of virtual machines is not a viable option, the other option would be using unique laptops to VPN to each customer, keeping in mind that will not be possible to do any Zoom or share screen during the VPN session, and, in the case of CITY it will be necessary to configure

In regards of the last two questions in the document:

- The two-factor authentication is not possible because that feature is not enabled in neither CITY or COOK VPN networks. This is an ideal extra layer of security but is not a must-have feature.
- The IT administrators of COOK and CITY could trace the VPN connections that we are making into their networks.

I will not be contacting anybody in CITY or COOK, until I get your approval for that.

Best,

RONALD MORALES | SENIOR SYSTEMS MANAGER
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From: Nicole Nollette <nicole.nollette@dominionvoting.com>
Sent: Friday, March 27, 2020 3:09 PM
To: Mark McKinney <mark.mckinney@dominionvoting.com>
Cc: Eric Coomer <eric.coomer@dominionvoting.com>; Ronald Morales <ronald.morales@dominionvoting.com>
Subject: VPN

Mark,

Does the attached sound reasonable / doable / secure to you?

If we can establish some SOP's on the VPN access we will be approved to move forward.

I have received comments from Eric – would appreciate yours and Ronald's input. I am most interested in what we *should* be doing to get this right.

Thank you,
Nicole

Nicole Nollette | EVP Operations

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