



Measure #: 2024-063

TOWN COUNCIL MEASURE SUBMITTAL

Date: 2/26/2024

Submitted By: Town Manager

Telephone #: 508-699-0100

MEASURE DESCRIPTION:

Authorization of payment of an FY23 invoice for Hub Technical Services totaling \$1,891.50 for the I.T. Department

Signed: _____

PURPOSE AND JUSTIFICATION:

Per the invoice, we had a contractor do some networking work for us starting 6/6/2023. However, the tech did not close out the ticket, which did not generate the invoice until 11/29/2023, which was also later getting to me.

SPECIAL REQUIREMENTS:

ATTACHMENTS:

REFER TO SUB-COMMITTEE: Finance

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Telephone #: 508-699-0100

PURPOSE AND JUSTIFICATION CONTINUED:



HUB Technical Services, LLC.
 44 Norfolk Ave
 South Easton, MA 02375
 (508) 238-9887

Date	Invoice
11/29/2023	23-21328
Account	
Town Of North Attleboro 0001262	

Bill To:
Town Of North Attleboro 43 South Washington Street North Attleborough, MA 02760 United States

Ship To
Town Of North Attleboro Attn: Keith Mueller 43 South Washington Street North Attleborough, MA 02760 United States

Terms	Due Date	PO Number	Reference
Net 30 days	12/29/2023		

Service Request Number	208872
Summary	Network VLAN Configuration Assistance for AVAYYA Project (#325)
Billing Method	Actual Rates \$195.00
Resolution	<p>Tue 6/6/2023/3:30 PM UTC-04/ James Paull (time)- - Called Steve - Connected to Network remotely and worked with Steve to troubleshoot and test routing configuration - Found issues with routing functionality - Some correctly configured routes don't appear to work and could be a switch issue - Need to work with NAED to configure more routes on their gateway for testing. - Scheduling a meeting for tomorrow.</p> <p>Mon 6/5/2023/3:48 PM UTC-04/ James Paull (time)- OK Steve,</p> <p>I'll send out a scheduling invite.</p> <p>I believe that's the route I specified in the work plan I created last time we worked together. If that works out for you, then You would need to create an additional route for each of the Phone networks, and obviously perform the rest of the work laid out in the plan for each of the subnets.</p> <p>Here is the basic plan I generated with you from before.</p> <p>High Level Work Plan: All Configurations are relative to each specific VLAN to be configured</p> <p>If Proxy Arp is enabled on NAED gateway and/or routing will work:</p> <p>DHCP Configuration: Create VoIP DHCP Scope on 172.27.0.11 Router 192.168.6.250 DNS 172.27.0.11,172.27.0.12 Domain natown.local</p> <p>DHCP Options:</p>

Default VLAN Option 242 gives VLAN info to the phone:
L2Q=1,L2QVLAN=2606,VLANTEST=0

Voice VLAN Option 242 gives the Phone system IP and File Server IP:
MCIPADD=10.12.0.41,MCPORT=1719,HTTPSRVR=10.12.0.41,VLANTEST=0

Town MDF Config:

```
config
ip route 10.12.6.0/24 192.168.1.254
```

Place IP Helper-Address 172.27.0.11,172.27.0.12 to IPOffice VLAN on 192.168.6.20 switch:

```
vlan 2606
ip helper-address 172.27.0.11
ip helper-address 172.27.0.12
```

Configure Switch ports for Phones:
Untagged to Server
Untagged on default VLAN
Tagged on VoIP VLAN

Plug in phone and test

NAED work:

10.12.6.0 255.255.255.0 via 192.168.6.20

If there is no Proxy ARP and/or routing will not work:

DHCP Configuration:

Create VoIP DHCP Scope on 172.27.0.11:
Router 10.12.6.250
DNS 172.27.0.11,172.27.0.12
Domain natown.local

DHCP Options:

Default VLAN Option 242 gives VLAN info to the phone:
L2Q=1,L2QVLAN=2606,VLANTEST=0

Voice VLAN Option 242 gives the Phone system IP and File Server IP:
MCIPADD=10.12.0.41,MCPORT=1719,HTTPSRVR=10.12.0.41,VLANTEST=0

On Town MDF:

```
vlan 2606
Ip address 10.12.6.20/24
Tagged *(Uplink to NAED)
```

At each site, tag the IP Office VLAN to NAED uplink: (Probably port 25 on each switch)

For switch 192.168.6.20:

```
vlan 2606
tagged A21
```

Configure Switch ports for Phones:
 Untagged to Server
 Untagged on default VLAN
 Tagged on VoIP VLAN

Plug in phone and test

NAED work:

vlan 2606
 name "PD_IPOffice"(Example)

```
interface Vlan2606
description ***PD IP Office VLAN***
ip vrf forwarding TOWN
ip address 10.12.6.250 255.255.255.0
ip helper-address 172.27.0.11
```

Tag Uplink site Switch:

```
interface TenGigabitEthernet2/7
switchport trunk allowed vlan 2606
```

Same Tagging config for Uplink to Town Core:

```
interface TenGigabitEthernet*/*(whatever the core uplink port is)
switchport trunk allowed vlan 2606
```

Company Name Town Of North Attleboro
 Contact Name Steve Almeida

	Hours	Rate	Amount
<u>Billable Services</u>	9.70	195.00	\$1,891.50
	Total Services:		\$1,891.50
Make checks payable to HUB Technical Services, LLC.	Invoice Subtotal:		\$1,891.50
	Sales Tax:		\$0.00
	Invoice Total:		\$1,891.50
	Payments:		\$0.00
	Credits:		\$0.00
	Balance Due:		\$1,891.50

A finance charge of 1.5% per month, 18% annually will be assessed on past due amounts.