





National e-Government Network

Network Operation Center(NOC)

Bangladesh Computer Council



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Introducing Basic Network Topology



Scope of Maintenance Work

NTTN SCOPE:

- **Optical fiber Cable**
- Media Converter
- **UTP Cable (MC to AR)**
- **I TJ Box**
- Patch cord

BCC SCOPE:

- Bangla Govt. Router(Cisco)
- □ Medium Router (MR)
- □ Access Router (AR)

User Office Scope:

LAN CablePC LAN Card

Introducing Basic Network Devices

Huawei AR 157 Router

Media Converter & patch Cord



Front Side View



Back side View



LAN Cable (CAT-5/6)



Physical Connectivity at Last Mile Office

A) Physical Connection Check:

<u>RouterAR157VW:</u> Connect Cable with DATA Port 1 or Port 2 as Picture



<u>RouterAR1220VW:</u> Connect Cable End using DATA Port 0,1,2,4,5 as Picture



Physical Connectivity at Last Mile Office



Desktop Computer

Media Converter

Materials List at Client End

DC Office (Aggregation)		UNO Office (Aggregation)		Last mile Office		
Item Name	Quantity	Item Name	Quantity	Item Name	Quantity	
Backbone Router	01	MR	01	AR	01	
MR	01	AR	01	MC (D-link / On net)	01	
AR	01	MC (D-link / On net)	01	LAN cable	02	
MC (D-link /	01	LAN cable	02			
LAN cable 02		D-Link Switch	02			
D-Link Switch	02/03					

POWER SUPPLY:

Ensure power source of device (MC & Huawei Router AR157) connection 24/7



Restart Computer....





Cancel

PHYSICAL CONNECTIVITY:

- Avoid loose connection of LAN cable
- Ensure proper connection of MC to Router











Ensure the installation of LAN card driver on PC



AR157 Router LED Status:



If the lights are ON at same time, then the router should be hang

MC (Media Converter) STATUS:

- Ensure the power LED (on /off)
- □ Identify the MC all LED (on /off)
- □ Check the FX/FP LED (on/off)
- □ Check the TX/TP LED (on/off)







Media Converter LED Status:



Open your Desktop/laptop Got to Control Panel ->Network Connection

Go to LAN Connection ->properties Local Area Connection/ Network



× Local Area Connection 2 Properties Networking Authentication Sharing Connect using: Intel(R) 82579LM Gigabit Network Connection Configure... This connection uses the following items: Client for Microsoft Networks VirtualBox Bridged Networking Driver QoS Packet Scheduler File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Uninstall Install... Properties Description Allows your computer to access resources on a Microsoft network. Select Internet Protocol Version 4 (TCP/IPv4) OK Cancel

2nd Step:

You can get IP settings assigned a this capability. Otherwise, you nee for the appropriate IP settings.	automatically if your network supports ed to ask your network administrator	
 Obtain an IP address automa Use the following IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address a 	atically	Select Obtain an IP Address automatically & Obtain DNS server address automatically- then press OK
Preferred DNS server: Alternate DNS server:	· · · ·	

3rd Step:

Finish this Process to Press OK

letworking Authentic	ation Sharing					
Connect using:						
1ntel(R) 82579L	M Gigabit Network Connection					
	Configure					
This connection uses	the following items:					
This connection uses	the following items.					
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Got to Control Panel ->Network Connection Go to Local Area Connection/ Network





For open command prompt ->Ctrl + R

Administrator: C:\Windows\system32\cmd.exe	x
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	
C:\Users\a00307777>cd\	
C:\> C:\> C:\>ping 4.2.2.1 -t	
Pinging 4.2.2.1 with 32 bytes of data: Reply from 4.2.2.1: bytes=32 time=570ms TTL=49 Reply from 4.2.2.1: bytes=32 time=541ms TTL=49 Reply from 4.2.2.1: bytes=32 time=543ms TTL=49 Reply from 4.2.2.1: bytes=32 time=604ms TTL=49	

90	
ile Edit	View Favorites Tools Help ▼ 🔄 🖶 ▼ Page ▼ Safety ▼ Tools ▼ 🕢 ▼ 💭 🖏 🗑
8	There is a problem with this website's security certificate.
	The security certificate presented by this website was not issued by a trusted certificate authority.
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
	We recommend that you close this webpage and do not continue to this website.
	Click here to close this webpage.
	Continue to this website (not recommended).
	More information

Terminal Security Management (TSM) NAC log-in:

- Install TSM software in your Computer.
- Put user name & password provided by BCC to log-in into NAC Agent.
- Select save password & authentication option.
- Account name is Different and Password is Common (Infosarker2)
- Put the actual server IP -(Dhaka-172.22.120.131) in advance option.

http://infosarker.bcc.net.bd/tsm

🕖 NA	C Agent
Account type:	Common account
Account:	Ufpo_Munshiganjsadar
Password:	••••
	d Auto authentication Forget password

Account type:	Common account	-
Account:	Dagrio_Dhaka	
Password:	•••••	
Save password	d 🔲 Auto authenticatior 🛛 For	rget password
Advanced<<	Login	Close
Connect Setting		
Server:	127.0.0.1	Restore Default

TSM (NAC) log-in:

□ If login okay then check the PC network icon

□ If found error code- 204 please check again previous procedure

🕡 NA	C Agent		
Account type:	Common account		
Account: Ufpo_Munshiganjsadar			
CICCO GITCI			
Password:	•••••		



V NAC Agent		
Authenticating, plea	se wait 🧊))	intranet
Save password	Auto authentication	orget password
Advanced<<	Login	Close

Authentication Process

Error Code:

- Error Code 204:
 - 1. The IP address of the server is incorrectly specified.
 - **2.** The terminal host and server are un-routable.
- Error Code 207:

Slow Network connection resulting in authentication timeout.

• Error Code 1106:

Account name or password is entered incorrectly

• Error Code 1506:

Although it's an error, but client connectivity is okay and client can use internet.

• Error Code 503:

Web server is currently unable to handle the HTTP request due to a temporary overloading or maintenance of the server.



- If found (GK cross), check-
- ✓ VC monitor to Huawei router LAN cable
 ✓ MC to Huawei router
- If found Not regestered window then communicate with BCC concern



Safety and Awareness

- Keep away devices from dust & liquid.
- Keep the device in safety place.
- Keep away the LAN cable and Patch cord from the Rat.









Fault Escalation & Feedback Process



Escalation Matrix

1st contact BCC NOC (For all issue) Phone No.: +88 02 55006823 or +88 02 8181029 Email: noc@bcc.gov.bd



Procedure of H323 ID by Using VC Remote Control

1. VC remote physical view.



- Press home button to go at Advanced option (Please see next picture).
- 2. After pressing the Home button **Example**; in the bottom of left side monitor **Advanced** option will appear.



After appearing Advanced option press ok button the VC remote and below page will appear.





3. On that page go to Settings option by using VC remote left and





4. After entering in to **Settings** the **Network** page will appear.

	Go to "Network," Settings				
	Installation	General	Display		
Advanced	Conference	Video	Audio	Г	
	Network	Becurity			Network Option

- > Press **OK** button again to enter.
- 5. After entering in to **Network** option the bellow page will appear in where we have to enter the **IP** option by clicking OK button





Set the network interface mode.

 P

 Auto detection
 Save
 Save
 Connection type
 Static IP
 Default

IPv6

6. After entering into **IP** option the bellow page will appear.

7. Please press the right arrow button to enter the H.323 page.





8. After thenin the **H.323 ID** option please change the VC Site name.

 Please modify the VC site name as far the format: Zilla_Upazilla (Info Sarker)

