WORKING PROCEDURE OF DATA AND INTERNET SERVICE OF BTCL

BY

Lob Kishur Dey
ID: 162-15-8086

This Report in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

Supervised By

Narayan Ranjan Chakraborty
Assistant Professor

Department of CSE

Daffodil International University

DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

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APPROVAL

This internship title **"WORKING PROCEDURE OF DATA AND INTERNET SERVICE OF BTCL"** Submitted by **Lob Kishur Dey, ID No: 162-15-8086** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents.

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Department of CSE

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Associate Professor

Department of Computer Science and Engineering

United International University

DECLARATION

I hereby declare that, this internship report is prepared by me, **Lob Kishur Dey** to the department of Computer Science and Engineering, Daffodil International University. Under the supervisor of **Narayan Ranjan Chakraborty, Assistant Professor, Department of CSE,** Daffodil International University.

I also declare that neither this internship report nor any part of this internship report has been submitted elsewhere for award of any Degree or Diploma. I also declare that, I collect information from is **Bangladesh Telecommunication Company Limited (BTCL)**, Data and Internet service & Telecommunication Based Company.

Supervised By:

Name: Narayan Ranjan Chakraborty
Assistant Professor
Department of CSE
Daffodil International University

Submitted by:

Name: Lob Kishur Dey
ID: 162-15-8086
Department of CSE
Daffodil International University

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Finally, we must acknowledge with due respect the constant support and patience of our parents.

ABSTRACT

I have report on "Data and Internet Service maintenance and working procedure". This report requirement of the internship program for my Bachelor of Science course degree. Internship report gives an overview about history of Bangladesh Telecommunications Company Limited, its role in IT sectors, Network administration and Security System running network system. There have main responsibilities data connection check, domain names, rules & regulation, bandwidth provides, Submarine cable capacity, Telephone's data exchange maintaining, Network operation controlling. This report written about the purpose of the specific server using and service on GGC, NIX, GPON, ADSL, BRAS, NOC choosing software's, Bandwidth Transmission process and Domain creating, rules regulation. There have main responsibilities data connection check, domain names, rules & regulation, bandwidth provides, Submarine cable capacity, Telephone's data exchange maintaining, Network operation controlling. That's why I choose this interesting subject "WORKING PROCEDURE OF DATA AND INTERNET SERVICE". This report written about the purpose of the specific server using and service on GGC, NIX, GPON, ADSL, BRAS,NOC choosing software's ,Bandwidth Transmission process and Domain creating, rules regulation.

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INTRODUCTION

1.1 Introduction

It's still time for IT. Currently, the network is widely used in the world and is used as a server component. As a BSc student, I have already done internship activities at Bangladesh Telecommunication Company Limited. My main task was to support a network administrator and gather knowledge about bandwidth service maintenance. Currently the network is no longer used in every sector. Telephone service, Internet connection data transmission networks are completed by connecting to various devices via computer, switch, router, hub cable or wireless signal. Sharing different information requires communicating with each and it requires to the Internet. During internship I learned to apply routing protocols, connect to various networking devices, domains, telephone landlines, internet providers, virtual private network systems, national Internet exchanges, and a variety of servers.

1.2 Motivation

My main goal is to increase my network skills and select network work as my professional job. I am currently pursuing my Bachelors in Computer Science and Engineering at Daffodil International University, for which I am developing the correct practical knowledge of the internship. This option is a work in networking year to work in Science and Technology department of my internship program. The Internet is the most part of information technology today. My internship program involves students pursuing a networking system analysis degree to work in the science and technology department. The internship not only gives experience, but a student is taught how to communicate, work properly, maintain official requirements. As an intern, I'm proud of myself. The internship provides me with a vast knowledge of networking sites, skills, and know-how of how to properly maintain its responsibilities. An internship student to responsible, on the field experience. Internships increase many abilities. I am very interesting in computer networks and want to further my career as an IT Engineer. Without a strong networking system, the vision of creating "Digital Bangladesh" would not be possible. My internship experience at BTCL will give me an idea of my future life and will be a drastic step in my future education and career. My internship experience at BTCL will give me my future education and career and will fulfill my desired aspirations this internship.

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1.3 Internship Objectives

My objectives in the internship are to support networking activities, share resources, share information, protects the server and network administrators thereby. The internship program has many main goals, among them my main goal is to determine what the job market currently is. Today, in this competitive job market, establish yourself as a skilled person through an internship. An internship is essential for developing skills. To prove yourself proficient, certain quality and real-life work experience will lot of impact on the IT sector through internship, which we will be able to use a lot of more broadly. We can be sure of the revolutionary change in the internship IT sector, we have gained a lot of income and experience during our work at BTCL. Many professional people have been connection.

The main purpose report:

- Learn basic computer and network knowledge.
- Networking material and technology acquisition.
- Broadband share.
- DOMAIN Registration on BTCL.
- Knowledge Data, Internet.
- Achieve LAN and router.
- Access to the TCP / IP protocol.
- Achieve telecommunications experience.
- NOC up /down the server.
- Practical networking situation.
- Submarines in BTCL simply gain knowledge.
- Official environment and situation.
- Acquire network operations center knowledge.
- Katie and Jaika work on the project.
- Acquire ADSL and GPON connection knowledge.
- DOMAIN Registration on BTCL.

1.4 Introduction of Company

Bangladesh Telecommunication Company Limited (BTCL) is a telecommunications carrier, IIG, ADSL, ISP, NOC NIX, NTTN and country domain (.bd), as well as domain registrars, telephone land line connections / broadband, copper lines, Optical fiber zipper number, optical fiber and microwave network, data on telephone or internet cable line etc. BTCL is now operating under a state-owned company. Landline telephone, dial-up connection, ADSL dial-up, GPON, VPN, point high-speed, domain name registration, web hosting operator connection to the services. There are many server cells and sections to handle all of these tasks. There are many new advanced technologies for internet service. Huawei and Cisco are related to managing BTCL.

Bangladesh Telecommunications Company Ltd (BTCL)

Telejogajog Bhaban, 37/E, Eskaton Garden

Dkaka-1000, Bangladesh.

TEL: PABX: (880) 2 9320075-6, 9320080-3

E-mail: ddt@btcl.net.bd

Head Office:

Managing Director Phone: +880 2 48311500

Fax: +880 2 9320002 Email: md@btcl.net.bd

Web Administrator:

DDT, Email: ddt@btcl.net.bd duralaponi@gmail.com

1.5 Report Layout

I am completing my internship network at BTCL. We discuss the role, motivation and internship objectives of BTCL, Introduction to Organizational Information, BTCL History, Basic. BTCL will discuss the information structure, infrastructure connection and our work and internship, events and their activities and maintain their work style. Then I discussed skills, smart plans and thinking according to my work style. Finally discuss the networking career opportunities discussed.

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CHAPTER 2
ORGANIZATION

2.1 Introduction

In the context of the Information Technology (IT) era, a strong and transitory system has been established to support the IT activities of a country, in addition to telecommunication and information communication. Telecommunication Development and Information Technology (ICT) has been connected to the telephone for economic growth as well as In the context of the Information Technology (IT) era, a strong and transitory system has been established to support the IT activities of a country, in addition to telecommunication and information communication. Telecommunication Development and Information Technology (ICT) connected the telephone for economic growth as well as integration around and the socio-economic conditions of the country have been changed. BTCL is one of the largest and most popular telecommunication company in Bangladesh. After independence in 1971BTTB) was established.. Later it became a renowned public company and became a famous BTCL for it. The company builds infrastructure by providing copper cabling, microwave links, satellite links, optical fiber networks, land line telephones, the Internet, and a plethora of data. Which combines optical fiber networks with high power routers and switches in the country. BTCL is connected to the global upstream through SA-ME-WAY-4 ITC. Confirms Daffodil Online Limited is under temporary employment for training. Daffodil Online Limited prides itself on being an experienced established company among Bangladesh's leading ISP ICT service providers. Whereas his basic business ethics are extremely pleased with Long Ten's relationships with clients and what they have achieved, and likewise their vision for the future has grown significantly. I gave a BTCL logo which is Figure 2.1

Fig 2.1: Bangladesh Telecommunications Company Limited Logo

2.2 Product and Market Situation

Bangladesh is a developing country and its goal is to become digital by 2021. So, in every case of ours, every company in the country should be digitized, providing online services and services for the development of server installation system, in fact BTCL online is linked to other network companies. I am convinced that BTCL is the most important in the IT sector for market conditions and that it enjoys the high quality opportunities of other IT departments. BTCL routers, IPs, servers, network projects are provided by the national Internet service providers in Bangladesh.

General Chat Lounge

• Internet Service Provider

• Information Centers

• Information connection

• All Internet Solutions

• Security assurance

• Web site development process

• Marketing and communications,

• Providing various technical assistance to the United Nations.

• To provide various online services for Internet users

• Support for the development of a support server installation system

• Landline phone service across the country

• Copper line based optical fiber zipper number service

• Land Phone provides all value added services

• Call excluding / short dial / conference call / call waiting / call message / call forward. / Shot line

• Telephone service.

• Internet Benefits:

- Dial up service Of ADSL

- GPON

- VPN service

- Adjoining   a local rental line point through points and multiple points of voice grade.

- Digital Information Node Services.

- International private rental circuits are addressed.

- .bd Domain Name Registration.

- Web Hosting Processes

- Inter operator connection.

- Two-way voice carriers.

- Fill out a web based form for submitting complaints

2.3 Target Group

Business advocates include small to medium sized companies, featuring their new companies. BTCL plans to focus on directing customers as the ideal target for our new high-speed contribution and maintains the best development capabilities for the company. To transform BTCL into a dynamic organization and operate the country's telecommunications infrastructure, telecommunications department, data and bandwidth services together. With state-of-the-art Meni remaina Technologies, provide the country's telecommunications and Internet services at low cost without cost. Improve customer quality to provide better quality customers; Meet the demand for telephone lines and internet connection. Increasing organization efficiency, hiring advanced network plans and managing revenue. In addition, the new LLI connection, Google Cache bandwidth, bandwidth upgrade / downgrade, bandwidth shift, additional IP address and IP release, change ownership, change IP address, Change ip address new name of the new client name change and add loop to the new fiber. There are many things like router switches, cables, etc. Extraordinary evaluation of the parts of this commercial center and their careers are in great demand and make it a reliable customer.

2.4 SWOT Analysis

Power

- Customer Service / Support

- Flexibility

- Domain

- Internet service through landline phones.

- No matter the extra work, just doing the right thing

- Collection of traditions

Negative

- Proper planning lacks efficient planning.

- Technical development training.

Opportunity

- The system also extends by providing services to the upazila and unions of the country

- Optical fiber lines across the country.

Weakness

- Problems with cable lines for setting up fiber lines

- Evaluates the Benefit option

- optical fiber line

Threats

- Manpower supports machine support in the environment

- Fund raising

- Customers can restrict access to the Internet

2.5 Organizational Structure

BTCL is a large communications company. This company is also very large in the IT sector and is organized by the government.

Description: The organizational structure of BTCL mogbazar exchange under given below in figure number 2.2
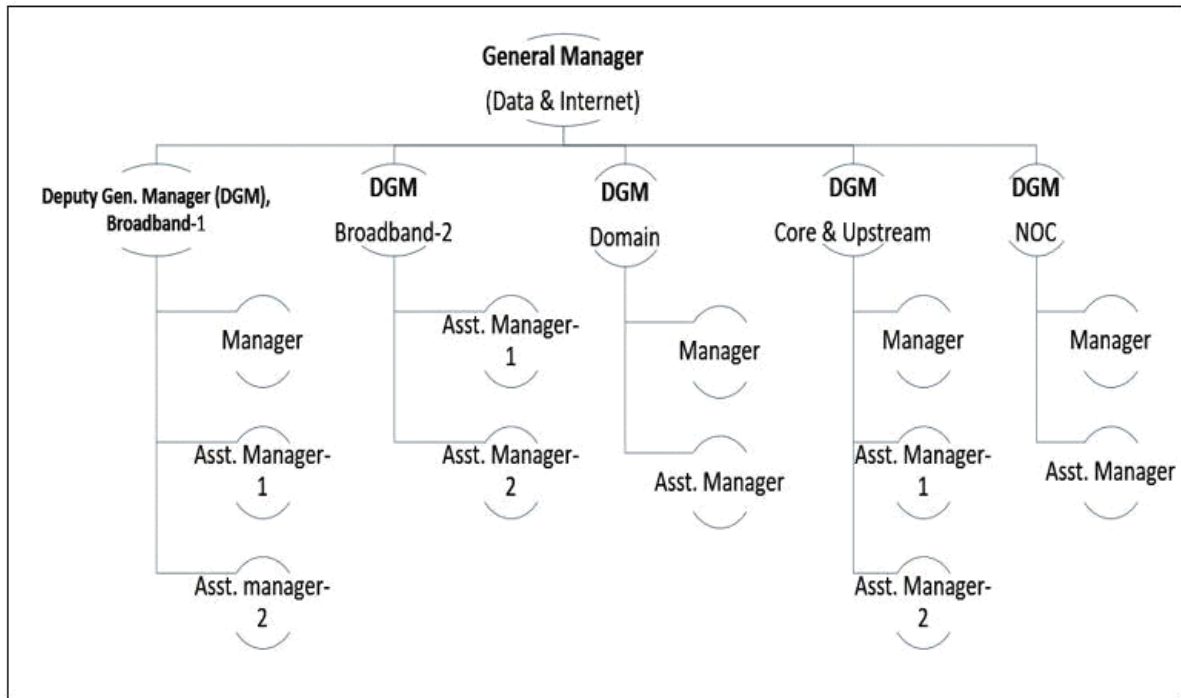
Figure2.2: Organizational structure of BTCL

Diagram of Tower at BTCL Moghbazar

Figure 2.3: BTCL Tower.

CHAPTER 3

TASKS, PROJECTS AND ACTIVITIES

3.1 Daily Tasks and Activities

Month-1: At first month of internship on BTCL they have teach and exercise me the following

• Informed basic networking devices.

• Basic routing configuration.

• Service Provider of nationwide.

• Leased Line Internet (LLI).

• Virtual Private Network (VPN).

• IP Address.

• Google Global Cache (GGC).

Month-2: After one month of internship on BTCL they have trained under the given topics:

• National Internet Exchange (NIX).

• Domain

• Asymmetric Digital Subscriber Line

• Project Jhika and KT

Month-3: The last month of internship BTCL I have learned exercise the following topics:

• Broadband Remote Access Server (BRAS).

• Digital Subscriber Line

• Network Operation Center (NOC).

3.1.1 Data and internet related service of BTCL

As an operator, BTCL provides public / private in-house customer data and internet connection. Other ISP operator data and internet have been provided. Which is given below in the figure. Now I given the data and internet organogram which is in figure 3.1.
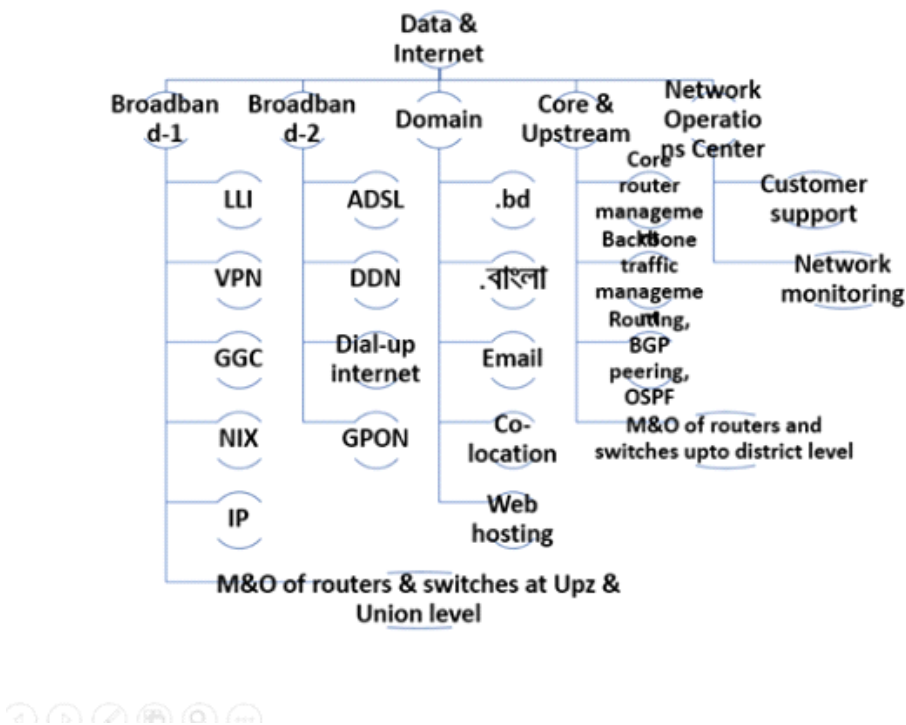
Figure3.1.1: 5 division working procedure of BTCL

3.1.2 Broadband -1 Division

LLI(Leased Line Internet)

NIX(National Internet Exchange)

VPN (Virtual Private Network)

GGC (Google Global Cache)

IP(Internet Protocol

3.1.3 LLI (Leased Line Internet)

It is usually supplied by optical fiber. (Speed 10 Gbps +),

• This service is governed by the Division of Broadband-1

• Features:

Bandwidth (Mbps to 10 Gbps +)

• Full duplex (download speed = upload speed versus ADSL service)

• It is usually connected through a real IP address.

Now let give you a picture of the LLI service, which is in Figure

Figure 3.1.3: Leased line internet service

3.1.4 Configured Leased line internet

Directly from router port:

 • VLN is not required

 • Bandwidth is configured from router to port via IP

 • IP address and SPF associated

• Switch from the router

• By VPN and NAT

3.1.5 NIX (National Internet Exchange)

Many of BTCL's services include Internet exchange services. This is considered to be an ISP neutral meeting point. Peering ISP is the main drive among its members when it comes to exchanging domestic Internet traffic. It improves the service quality of its capabilities for the ISP customer, a member of the international bandwidth. Avoiding several hopes reduces latency by causing disasters at work. All types of interfaces are open for BTCL's NIX connection. The following is an example of the NIX process, which is depicted in Figure 3.1.5

- Ip address

- ASN

- Prefix

- Peer

For NISX configuration using NSP software. This service is provided for clients by the Broadband-1 department
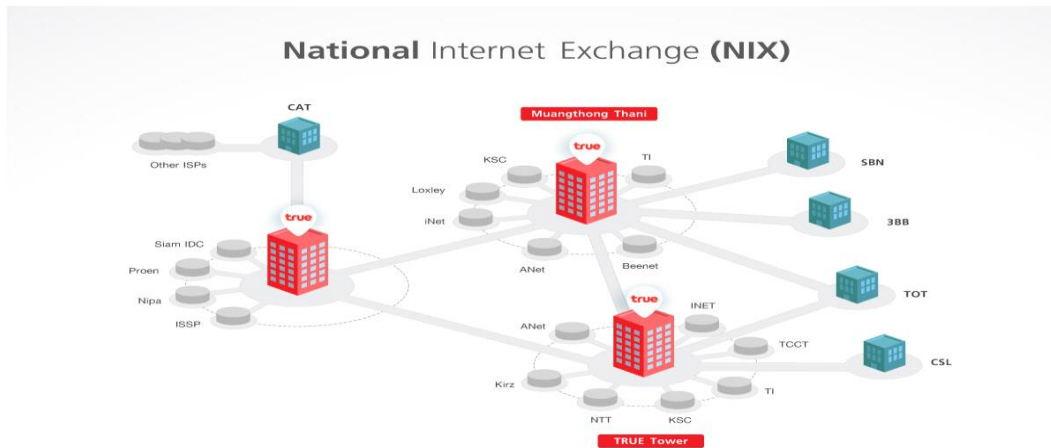
Figure 3.1.5: Example of NIX process.

3.1.6 VPN (Virtual Private Network)

VPN Mining is virtual private network. It is a technology network that extends to a private network across public networks the Internet service provider's public network and sends data to the public network and creates a secure network connection over the network. I maintained the VGPN process by Cacti software which is Figure 3.1.6

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Service This service controls the Broadband-1 category

• Features:

• Speed (Mbps to 10 Gb +)

• Full duplex (upload speed == download speed)

• Uses may be greater than level 2 or 2.
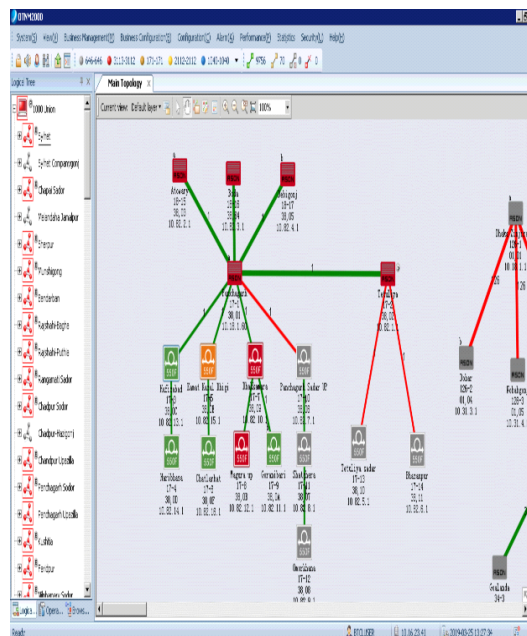
Figure 3.1.6: Maintaining VPN process by Cacti software.

3.1.7 GGC(Google global Cache)

BTCL has Google cache servers installed from Google and has its own premises. Speeding up the delivery of web content provides a temporary storage mechanism that is installed by completing the Google cache. Cache servers retain copies of their cache and rich media at various points in the network to retrieve the cache and send them to various points across the network to retrieve it. Access to YouTube and other sites at high level speeds from BTCL. This service is controlled by the Broadband-1 Division. I gave the GGC switches in the BTCL server room which is in Figure 3.1.7 [3]

Features:

Dedicated data speed (MB to 10 Gb +)

Full duplex (upload speed == download speed)

 Low cost)
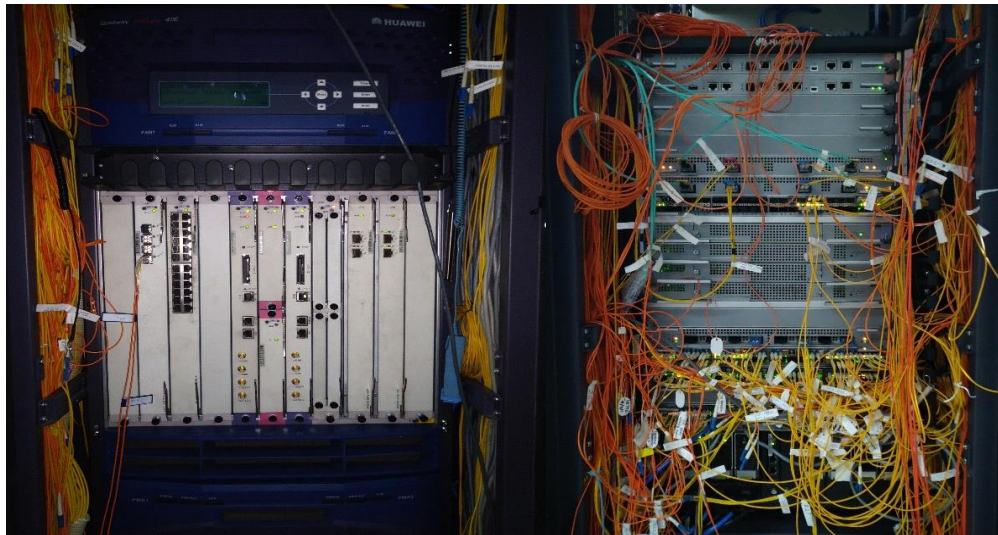
Figure 3.1.7: GGC Switches in BTCL server room

3.1.8 IP (Internet Protocol)

IP Address Service:

BTCL blocks of Public IP address bought from APNIC who is the Asia Pacific regional

Organization of public IP address

- •IP addresses are sold to LLI clients by Broadband-1 division maintain

- •IP address blocks owned by BTCL:

- •180.211.128.0 to 180.211.255.255

- •203.112.192.0 to 203.112.224.255

- •123.49.0.0 to 123.49.63.255

- •BTCL IPv6 block is: 2407:5000:90/32 which contains around $7.92*10^{28}$

- •IP blocks are given on per year basis to renew each year by customers.

In the figure 3.1.8.1IP address

How does an IP address Look Like?

An IPv4 address (dotted-decimal notation)

172 . 16 . 254 . 1

10101100.00010000.11111110.00000001

One byte = Eight bits

Thirty-two bits (4 * 8), or 4 bytes
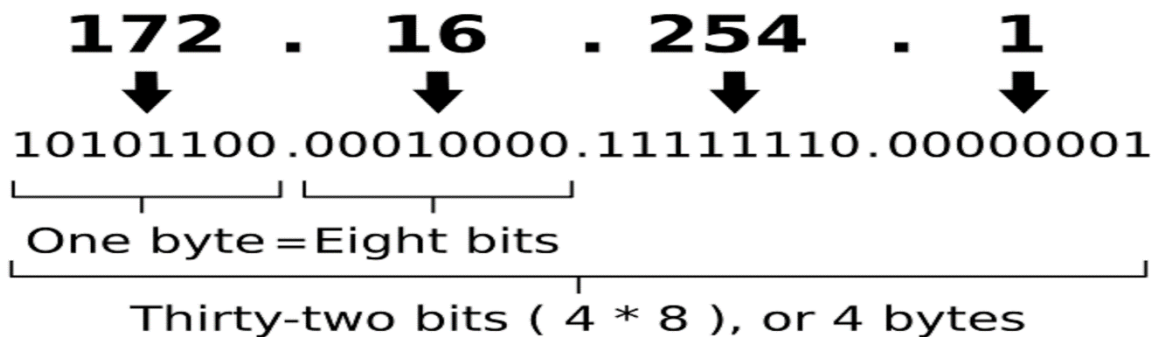
Figure 3.1.8.1: IP address

3.1.8.2 Private IP Addresses

A personal IP address is a non-Internet going through IP tackle on an interior network. Private IP addresses are supplied by using network devices, such as routers, using community address translation (NAT) Private IP addressing uses addresses from the classification C range reserved for NAT. Now I given private IP address figure in 3.1.8.2

Private Network Ranges	Start of range	End of range	Total addresses
24-bit Block (/8 prefix, 1 x A)	10.0.0.0	10.255.255.255	16,777,216
20-bit Block (/12 prefix, 16 x B)	172.16.0.0	172.31.255.255	1,048,576
16-bit Block (/16 prefix, 256 x C)	192.168.0.0	192.168.255.255	65,536

Figure 3.1.8.2: Private IP address

3.1.9 Domain Division

Domain

• BTCL is the owner and seller of two cc TLD (Country Code Top Level Domain)

• .bd

• .বাংলা

• The later one allows to write web addresses in Bengali Language

• This service is provided to clients by Domain division

• All Government sector use BTCL domain.

If anybody buy any domain by BTCL they can apply the BTCL domain registration web site

Registration process screenshot given below. I given the domain registration figure which is in

figure 3.1.9
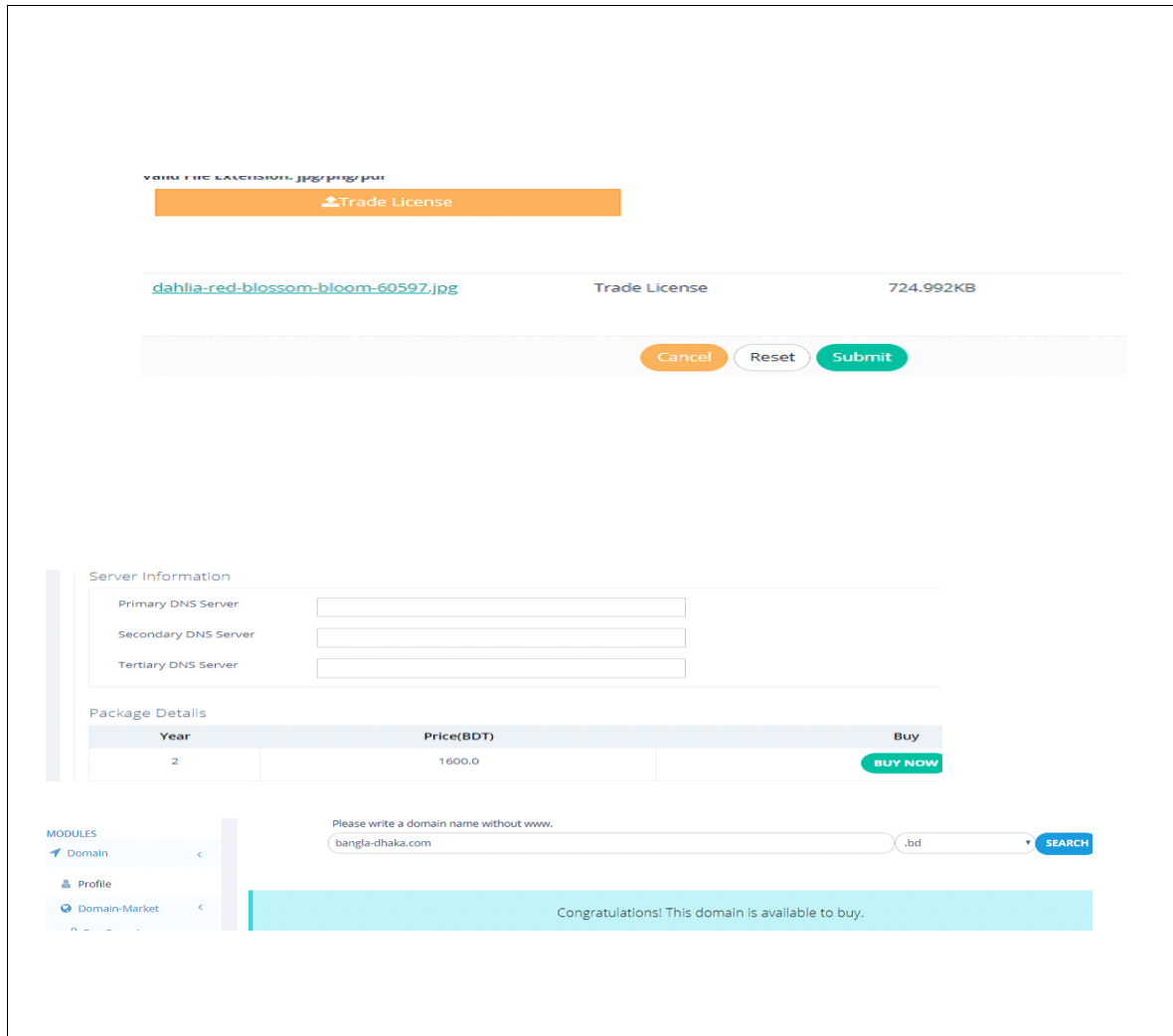
Figure 3.1.9: Apply for Domain Registration

3.1.10 DIGITAL SUBSCRIBER LINE (DSL)

DSL is a household of technologies that are used to transmit digital statistics over Telephone lines. The most frequently installed DSL technology for web access.

Description: Network Management System used for DSL monitoring and accessed. Here under given three screenshots of NMS software in figure number 3.10.1, 3.10.2,
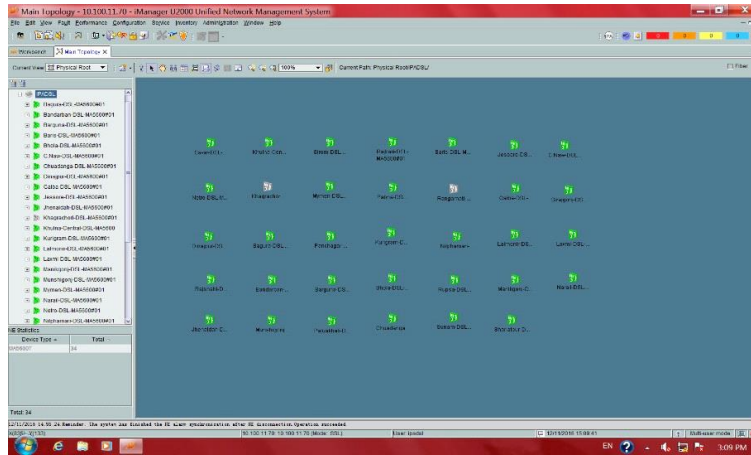
Fig. 3.10.1: A screenshot of NMS part1.
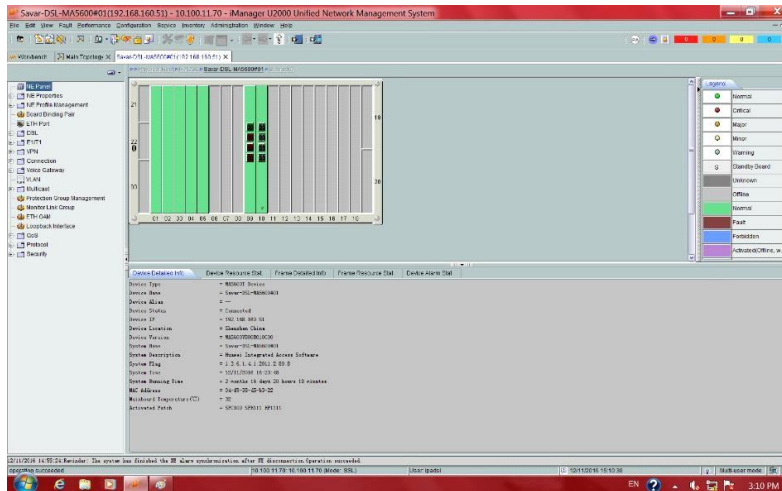
Fig. 3.10.2: A screenshot of NMS part2.

3.1.11 Broadband-2 Division

ADSL (Asymmetric Digital Subscriber Line)

BTCL provides with broadband internet over telephone line known as ADSL
(Asymmetric Digital Subscriber Line)

•Features:

•Dedicated data speed (upto 1.5Mbps)

•Download speed is higher than upload speed

•Connected via copper cable (telephone line)

•BTCL is recently providing with GPON internet connection with higher speed (upto 10Mbps) via land phone. It is provided from telecom division.

•This service is provided to clients by Broadband-2 division

•ADSL is a data communications technology that enables fast data transmission over copper pairs with the aid of using high frequencies that not used by way of normal phone lines.

•ADSL uses the FDM technology to classify telephone lines into everyday telephone line channels, and downstream channels, avoiding Interference .the one of the white port is 100g In the figure 3.1.11 I given the ADSL connectivity diagram.

ADSL INTERNET EQUIPMENTS

•DSLAM

•BRAS

•AAS Server

•Billing Server

ADSL Connectivity Diagram
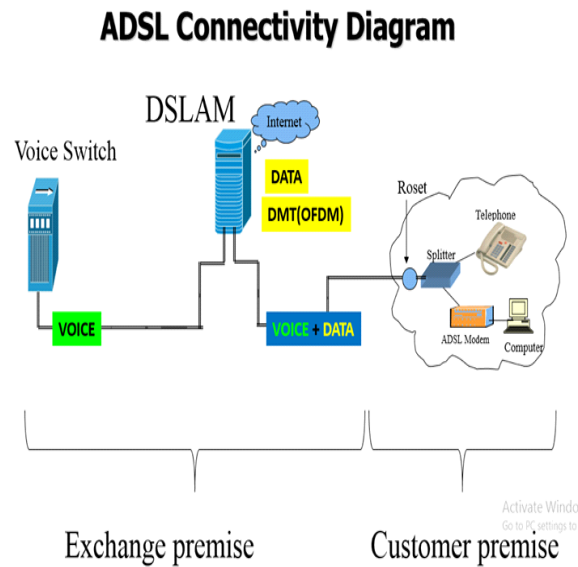
Figure 3.1.11.1: ADSL connectivity diagram Practical connection Of ADSL

When we configure the ADSL connection we need a land phone, one router and one splitter device. At the time we use optical fiber port entered into the splitter, splitter has two gate ways, one use for land phone and one for optical fiber port which use is in router. In this way data can transfer from the splitter. Now I given a ADSL connection image. Which is configured by me. [4]

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In given a Configure ADSL connection which is in figure 3.11.1.2


```
MOG_MA56_C# display interface adsl 0/0/1

MOG_MA56_C#
  Adsl  0/ 0/ 1 is up
  The ADSL link is active
  Description : (898)9350435(pc-9347250)30.5.16
  Bind line-profile No.1002 ADSL LINE PROFILE 1002
  Bind alarm-profile No.   1 DEFVAL
  Bind no ext-profile
  BTV user bind profile name : --
  Hardware is ATU-C
  Last up time                           : 2017-11-21   12:16:08.770
  Last down time                         : 2017-11-21   12:15:41.200
  Current operational mode               : G992.1-Annex A
  Current downstream Rate (kbps)         : 4288
  Current upstream Rate (kbps)           : 992
  Total count of line training           : 1641
  Total up stream cells num (cell)       : 1900238113
  Total up stream packets num (packet)   : 504930340
  Total down stream cells num (cell)     : 70794787
  Total down stream packets num (packet) : 661835080
  Total down stream packets num discarded
  Due to congestion (packet)             : 4071

  PVC   0/35
  PVC encapsulation                      : Bridge LLC
  Rx-cttr                                : 6
  Tx-cttr                                : 6
  VLAN                                   : 1003
  Max mac-address learning count         : 255
  Support down multicast stream          : disable
  Up stream cells num (cell)             : 1900238113
  Up stream packets num (packet)         : 504930340
  Down stream cells num (cell)           : 70794787
  Down stream packets num (packet)       : 661835080

MOG_MA56_C#_
```

Figure 3.11.1.2 Configure ADSL connection by using command, land

Phone, splitter and router.

3.1.12 Billing Server OF ADSL

A customer who wants to take BTCL ADSL connection, first they come to BTCL office and pay an amount 400/- and fill up an application. That is demand note. Then an advice note is given to them by Local BTCL main office. Then it is signed by the DE of BTCL and sends it to the Junior Assistant Manager. Then data entered at billing server. After that, data are checked by the JAM and verified and then data are re-checked by the Assistant Manager and approved. After approving the data, a massage including user name and password send to the user. Finally jum pering from BTCL local

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office MDF room, the outside workers reach the line to the user home. Now I given the billing service process which is in figure

Figure 3.1.12: Billing Server of ADS

3.1.13 Email Service

BTCL has its own Email server from which it provides with below e-mail addresses to its internal users: This service is provided to BTCL internal users only by Domain division and graph Fiber COBOL of BTCL.

Figure 3.1.13 Fiber COBOL of BTCL

3.1.14 Core and Up streaming Division

This is the most important one In the BTCL section there are many types of centers and streaming up switch This divisional teacher train me some commend to maintain the server. I give Huawei Switch 12712 which is in figure 3.1.14.
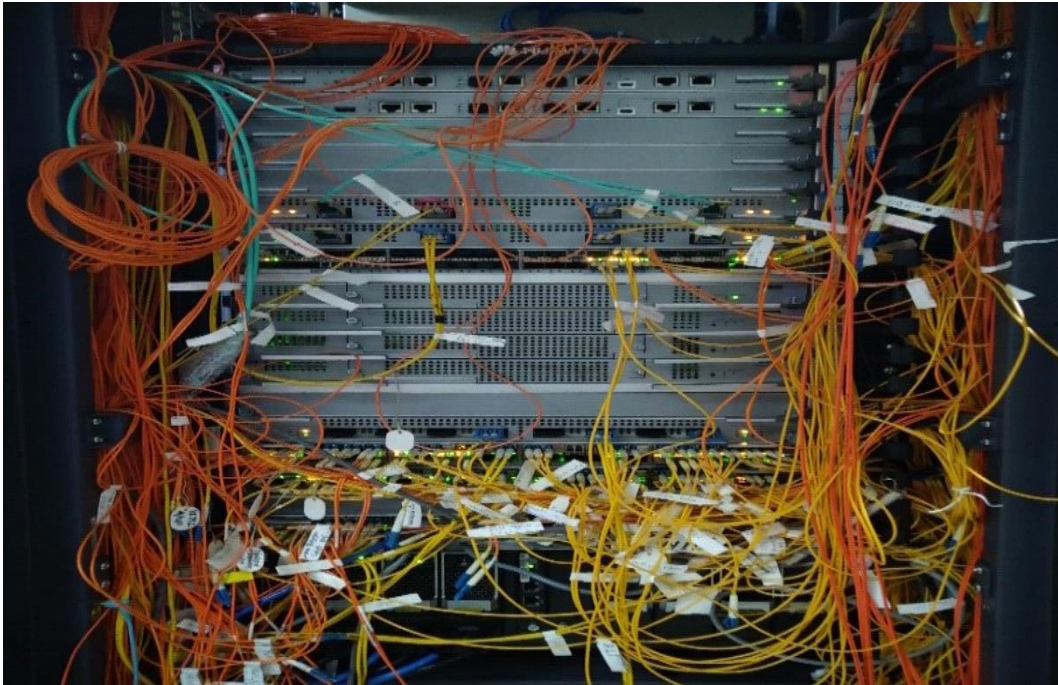
Figure 3.1.14: Huawei Switch 12712

3.1.15 ODF

An ODF is one of the frame which is used to provide for the interconnection between Communication facilities, it can be integrate fiber splicing, fiber termination, fiber optic Adapters. An ODF can additionally work as a protecting gadget to guard the optic fiber connection for damage .To pick out the right ODF it's not for a easy component. Here is   some ODF image. ODF switch have control card. Yellow wire is use for single line and orange many. Now I given the figure of ODF back and front part in figure 3.1.15 [2]

Figure 3.1.15: ODF front and back part

3.1.16 Project JIKA and KT

In the JAIKA project we use the I manager U-2000 Unified Network Management System and for the KT (Korean Telecom) project I manager N-2000 Fixed Network Integrated Management system. In this time I gain knowledge about how can active or deactivate BTCL service users line in any district and we always maintains the NOC room to show which service is up and which is down .In the figure 3.1.16 I given the project JIKA and KT process.
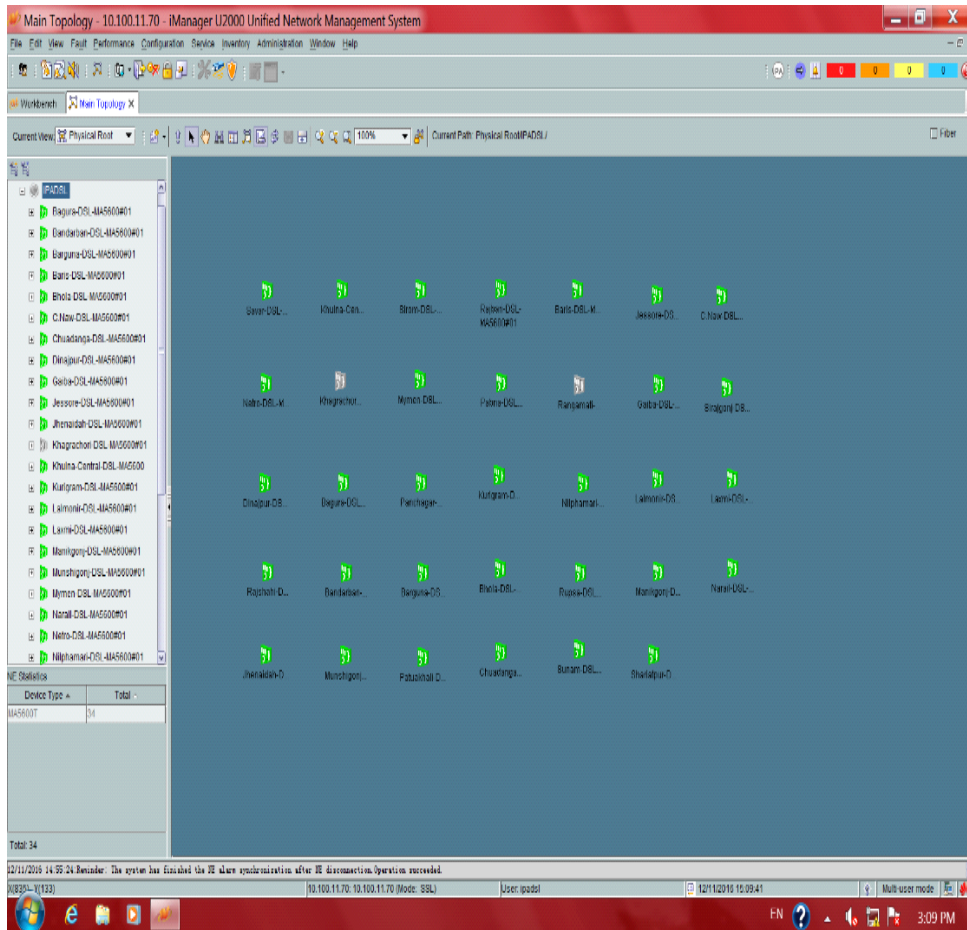
Figure 3.1.16: Project JAIKA and KT by using software I manager

3.1.17 NOC (Network Operation Center)

All the communication company have a NOC server room.so BTCl have a NOC room. Generally BTCL network operation center (NOC) is a central location which from network administrator manage, monitor and control one or more networks. The total function is to maintain optical network operations across a variety of platforms, communications channel and the medium. When I monitor and control in the room. When I collect some screen short which is related NOC work. I given the figure of BTCL NOC room in figure 3.1.17.

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Figure 3.1.17: BTCL NOC Room

3.2 Events and Activities

During my internship while I was at BTCL Data and Internet Exchange in Moghbazar branch I was acquiring knowledge about ADSL and how to connect the ADSL system and also pay the exact price of this connection. We also collect knowledge about VPN, domain, cabling, Karan, Jike and KT projects, domain ID's ID account, permissions and password connectivity, client support over the phone and server rooms, and test optical fibers.

3.3 Project Task and Activities

My internship period under BTCL was 3 months which was divided into 5 sections and I finished my internship a few days before 6 months. BTCL is the main division of data internet exchange and telecommunications in Moghbazar. In this sector there are again 5 sections and in this section we have some functions like real IP delivery, VPN network connectivity, many domain sales in domain language, email server maintenance which is also associated with networking.

3.4 Challenges

DSL is a information communications technology that allows data transmission twisted pairs via using high frequencies that are not used through regular telephone lines .DSL was very sensitive and secure placed all data, voice and important information is passed through the DSL.

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CHAPTER 4

COMPETENCIES AND SMART PLAN

4.1 Competencies Earned

There are many working area of the network side. Some of my communication and network sectors, scale ideas we can learn from. The network is in great demand in the present world and it is well developed, and keeps it. In order to sustain yourself in the current job market, strong expert computer knowledge is needed, which is required for competitive work.

4.2 Smart Plan

My smart plan is to make myself the perfect Internet service head from all these network initiatives. I am now concerned about the future of my career. The real knowledge that I have accumulated in this short internal time will help my future career in the IT firm. Day by day, this innovation is gaining popularity today and it is in demand today with many modern technologies. I completed some project work during the internship with a team. Currently I will try my highest growth knowledge and more practice will help increase growth. My plan is to learn ideas about fully developing, advanced networks and developing network engineers.

4.3 Reflection

It is a real experience in the field of Internet network engineering. It is helping to build engineering work experience. In the meantime, I have acquired a lot of practical knowledge on the network. This experience will play an important role in finding a smart job and engage me in building a strong network. Practices that provide advance planning, methodology, regulatory tours are practiced by internal professionals. Now I know how to control switches, routers, firewalls, IPs, servers, network projects, how to beat basic situations and how to solve these problems through real-life complex situations. Which can be gained on a professional team.

CHAPTER 5

CONCLUSION AND FUTURE CAREER

5.1 Discussion and Conclusion

Now most businesses rely on the internet for their type of work and administration. However, it is not entirely possible to manage the network with the exception of the network. The Internship Network has been a great and rewarding experience. What I can see in the future is that power to me helps many people create the most opportunities to network with me. Through this internship, I discovered that one of the key issues and time management strategies and self-motivation. I am eager to learn to do the final work in my position and look forward to a new job. My internship was done long ago. When I finish the internship, I gain knowledge of these topics, as mentioned in the chapter on Experience Completion. Currently functions, updates, server security all depend on the internet. So we need to speed up the internet machine process. This internship helps me create the opportunity to examine the focus of a specific career. The transmission zone is responsible for establishing submarine backhaul connections for global users, ITC connections, digital exchanges, nationwide, internet, company and data node connections. Upazila and Union Parishad BTCL has a strong transmission network. The BTCL's Nationalization Transmission Network (NTTN) excludes most districts, including optical fiber and most upazilas, which are connected via radio links. Most upazila headquarters are connected to the radio link with their respective district headquarters. However, two of BTCL's ongoing projects have chosen a wireless project. BTCL is providing backhaul hyperlink link for submarine landing station at Cox's Bazar in Bangladesh with 224 GB / high capacity, which consists of unknown optic fiber transmission hyperlink in Dhaka (BTCL's Moghbazar station). Also, BTCL is providing backhaul connectivity to Kuakata Landing Station through 200 GB high efficiency. These transmission links have been re-assigned through the optical fiber of the Bangladesh Power Grid Company. It has been a fantastic experience, all of which I learned through this organization as an internship receiver and operational framework for Internet service maintenance, providing a variety of stable and successful governance and technical opportunities for many data, service records and information.

5.2 Scope for Future Career

Through this internship, our primary goal used to be to use the knowledge involved in the real field. In this internship, I learned about various network ideas and models that help to plan a network. In my opinion, internships in the future will provide a lot of aid that will keep me from the actual challenges of finding a correct job, particularly if I have no work experience. Helps which will assist me to find profession opportunities later. There are many businesses in our country so this will be a great internship for my future. There are many networking companies in our country. Of these companies, BTCL is largest and most famous telecommunications companies. The company's important services are copper cabling, microwave links, satellite links, optical fiber networks, land line telephones, the Internet, and a large quantity of data. Therefore, I will activity to put in area the job deal of network administrator, network engineer, industrial engineer, network analyst, to succeed in any network recruitment test.

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