

## General Tariff Information

Service Provider Name	Qatar National Broadband Network Company
Tariff Number	R-05
Marketing Name of the Retail Offer	Mass Network End to End Cabinet to Cabinet Product
Tariff Type	Standard Permanent
Duration	Permanent
Customer Group	Retail
Tariff Effective Date	10 July 2023
Tariff Version Number	V1

## 1 Definitions

**“Agreement”** means the Agreement entered into between Qnbn and the Customer for the supply, installation and related services of the Product. The Agreement comprises the Master Service Agreement, together with this Tariff Document. Additional schedules (addressing such as matters as operational details, civil works, etc.) may be agreed with the Customer;

**“Business Day”** means any day other than Friday, Saturday or a public holiday in the State of Qatar;

**“C2C”** is a Street Cabinet-to-Street Cabinet fiber connectivity in which one or more dedicated fiber strands serve a single location.

**“Calendar Day”** or **“Day”** means any day of the week;

**“Charge(s)”** means the consideration payable by the Customer for the Products (including any ancillary goods or services) set out or referred to in the Tariff Document and/or the commercial offer;

**“Central Office”** or **“CO”** means Qnbn’s premises housing Qnbn’s ODF from where the feeder cable originates towards the outside plant;

**“Connection”** may refer to any one or all of the various passive fiber elements, links or Products, depending on the context;

**“CO-CO”** is a fiber connectivity between a CO and another CO

**“Coverage Area”** means the territory of the State of Qatar where Qnbn has deployed its network;

**“Customer”** means a Qualifying Person or Persons who takes a service from Qnbn under its retail tariffs;

**“Effective Date”** means the date on which this Tariff is available to the general market;

**“Fiber Termination Box”** or **“FTB”** means a device used typically at the customer premises to terminate the end of a Wireline;

**“License”** means the telecommunication license issued by the RA to Qnbn and/or the Customer (as required by the context) pursuant to Decree Law No. (34) of 2006 on the promulgation of the Telecommunications Law in the State of Qatar;

**“Master Service Agreement”** means the document that describes Qnbn’s General Terms and Conditions;

**“Monthly Recurring Charges”** refers to the charges the Customer shall pay for a given Product on a monthly basis computed from the beginning of the month (or part of month in which the Product is provided);



**“Network”** refers to a telecommunication system of a party which is used or intended to be used for telecommunications;

**“Non-Recurring Charges”** refers to the charges the Customer shall pay for a given Product on a one time basis only;

**“Optical Distribution Frame”** or **“ODF”** means the facility used typically at the CO, telecoms room, and/or customer premises to terminate the end of a Wireline;

**“Outage”** means any Product ceasing to function;

**“Patching”** means the patching service connecting two patching points in an ODF with an optical patch cord;

**“Product”** means any product and service as described in this Tariff Document for provisioning by Qnbn;

**“Qnbn Point of Presence”** or **PoP** means a third party location where the customer is present (e.g. data centre) and Qnbn has the right to terminate its Product and the Customer to connect thereto;

**“Ready for Service location”** or **RFS** refers to premises or locations where Qnbn offers to readily provision the Product to the telecom room of the Customer location and/or the specific Point of Presence;

**“Regulatory Authority”** or **RA** refers to the Telecommunications Regulatory Authority of the State of Qatar;

**“QR”** or **“Qatari Riyal”** means the currency of Qatar;

**“Tariff Document”** means this document;

**“Term”** means the initial term of the Agreement, or any extension thereof in writing;

**“Wireline”** means passive optical fiber cable deployed and owned by Qnbn.

## 2 Tariff Terms and Conditions

This Tariff is for a permanent standard service.

This Tariff only applies to the Product as described in section 3 Product Description.

This Tariff is only applicable to Qnbn retail Customers, as described in Qnbn's License.

This Tariff will cease in case:

- Qnbn publishes a new approved Tariff; or
- Qnbn notifies and publishes the end of effectiveness of the Tariff.

Qnbn may publish promotions or Product re-adjustments that would suspend or modify this Tariff as described in the applicable document.

The Product is only available within Qnbn coverage area and the specific locations as defined by Qnbn and confirmation to offer it shall be subject to a feasibility study. Qnbn has no obligation to provide the Product outside of such area and locations.

The Product is only available with the features described in this Tariff. Qnbn has no obligation to provide a Product with different features.

Should the Customer request and Qnbn accept to provide an offer outside of the above said area and locations or with different features, such will be treated under specified terms and conditions.

These service terms and conditions are in addition to the terms and conditions specified in Qnbn's Master Services Agreement.

## 3 Product Description

This End to End Cabinet to Cabinet Product is a passive optical fiber product that allows the Customer to connect its street cabinets, within the Qnbn Coverage Area. The Product grants the use of two (2) or multiple dedicated fiber strands with their full transmission media capacity.

This End to End Cabinet to Cabinet Product is for use in projects requiring very substantial and significant rollout deployments in which a large number of links are ordered, designed and built simultaneously. Furthermore, C2C link connects specifically street cabinets that usually serves outdoor customer's equipment (ie CCTV) with fixed connectivity within a relatively small geographical area such as an intersection to connect red light cameras or a highway to connect radar cameras along the way. Hence no indoor work is needed, this leads to major savings in capital required and shorter delivery cycles. In Qnbn, this is typically for projects with excess of 100 links.

It is a condition to access this Product offering that the Customer orders a minimum of 100 links simultaneously with the scope increasing on a regular basis.

### 3.1 Product Structure

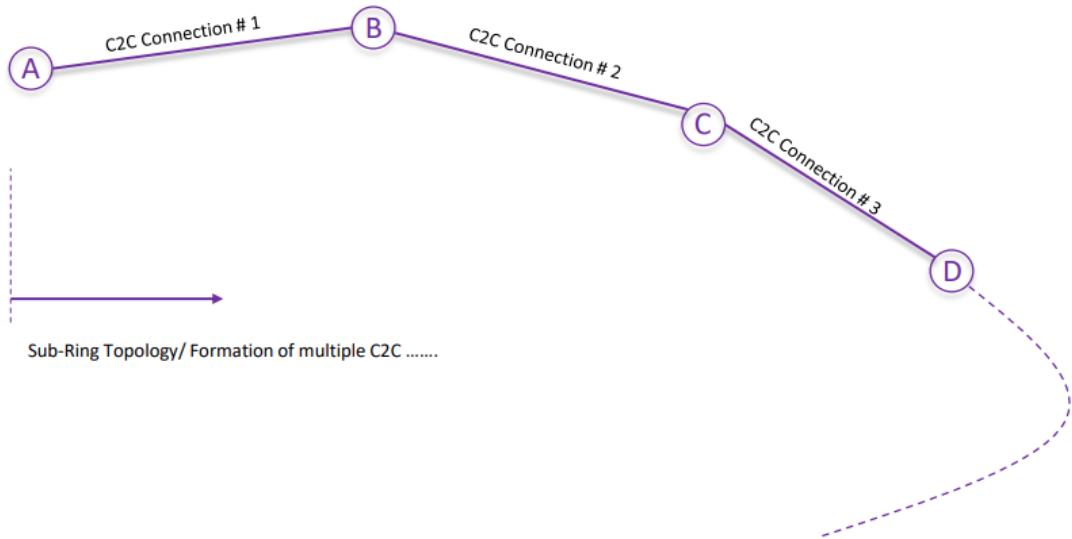
#### 3.1.1 Qnbn Network

The Qnbn passive optical fiber network comprises:

- a) **C2C**-2 fiber links with two fiber strands each link between Customer locations of Street Cabinets,
- b) The multiple links of C2C forms Ring topology (Closed and Flat)

#### 3.1.2 Product Configurations

To provide this End to End Cabinet to Cabinet Product between two service delivery locations, Qnbn will use, whenever applicable, single C2C links elements, with the required Patching in the network elements along the route. The diagram below shows the Product in a typical structure:



### 3.2 Demarcation Points

The Customer will have access to the Product at the Street Cabinet of the Customer.

Unless otherwise agreed with the Customer, the demarcation point will be an **ODF** or **FTB** placed in the Cabinet. In that case the ODF or FTB will be owned by Qnbn.

No physical access shall be granted to the Customer to Qnbn's ODF or FTB and the interface shall be terminated by Qnbn staff at Qnbn's ODF or FTB at both ends and handed over to the Customer for connecting to their equipment.

### **3.3 Physical Interfaces and Acceptance Criteria**

Qnbn shall connect the Patch Cables using standard LC/APC (Angled Polished) connectors.

The acceptance criteria for the link shall be the optical power loss measurement as mentioned below.

The optical power loss of the fiber strands will be less than 0.3 dB per connector+ 0.7 dB/km of physical cable length (splice + cable loss).

To verify that the connections meet the specified optical performance criteria, testing will be conducted by Qnbn at wavelengths of 1310 nm and 1550 nm.

### **3.4 Operational Matters**

Provisioning, acceptance, handover, fault management, escalation, access policies, and other operational issues may be added in the Agreement.

This may include the following operational matters:

- i. Qnbn assumes that each Customer location has internal ducts, access route and entry point to the telecom room.
- ii. Qnbn operations and maintenance staff will be granted access to the Customer buildings up to the Qnbn's ODF in the telecom room on 24x7 basis to provide support and O&M services.
- iii. The proposed implementation plan will be finalized after survey.
- iv. The Customer will support Qnbn to secure access to both Customer locations telecom rooms and duct routes connecting telecom rooms to the outside plant.
- v. The Customer is responsible for providing the patch cords and carrying out the fiber connectivity between Customer's telecom rooms (Qnbn ODF) or Qnbn FTB to the Customer equipment.
- vi. Qnbn will provide the Customer with at least two (2) Business Days' notice for any planned activities that may cause an Outage.
- vii. In the event of a fault which requires carrying out planned Qnbn maintenance activities for a permanent solution after a work around or a temporary fix or any other reason, Qnbn will endeavor to notify the Customer as soon as reasonably practicable after becoming aware of the event and will also endeavor to provide the Customer with the links that will, or are likely to be, impacted by the activities; and the expected timeframes for the planned Qnbn maintenance.

## **4 Product Charges**

Recurring and Non-Recurring Charges applied to each element in the Product.

The Monthly Recurring Charges are monthly fees for the product rental applied to each C2C-2 and CO-CO elements. The amount varies with the radial distance between the two ends of each link

element, according to a number of distance segments. The total Monthly Recurring Charges between two service delivery locations will be the sum of the monthly charges corresponding to the C2C-2 and CO-CO link elements that are necessary to connect the service delivery locations.

Additional C2C-2 and CO-CO link elements sharing the same physical route, end to end, for a given Product configuration, will be the same as the first connection on the same route.

The Non-Recurring Charges of the link elements are set-up charges related to the ordinary product ordering and provisioning and Customer specific charges as follows:

- i. Set-up charges related to the ordinary product ordering and provisioning;
- ii. Additional charges related to extra work necessary to provision the Customer, whenever necessary, to be determined on a case-by-case basis;
- iii. Patching charges for the connection of the different elements that compose the Product;
- iv. Disconnection charges related to work required for disconnecting the Product. The disconnection charges will be 50% the amount of the ordinary set-up charges.

#### 4.1 Charges for C2C-2 Link Elements

##### Basic Segment Pricing – Retail/ MassNet

Customer	Segment	MRC		MRC		MRC		MRC		MRC	
		NRC	0 km	1.8 km	5 km	10 km	20 km	>30 km			
Retail/ MassNet	C2C - 2F	2,100	1,650	1,650	5,940	8,220	16,500	NA			
Retail/ MassNet	COCO - 2F	3,500	10,140	10,140	10,140	30,420	30,420	NA			

#### 4.2 Change of Location

In case of change of location of one of the service delivery location of the Customer, and subject to feasibility, the Non-Recurring Charges that correspond to the new C2C-2 and/or CO-CO link elements will apply. The Monthly Recurring Charges might be updated accordingly to the new link elements included or eliminated and the new segments of distance involved. Additional Patching charges for the reconfiguration of the connection will apply.

#### **4.3 Project Specific Charges**

Other charges, such as additional civil works, will be agreed separately with the Customer and are not part of this Tariff Document.

#### **4.4 Minimum Service Period**

The minimum service period for the Product is a term of three (3) months. Should the Customer terminate the rental of the Product before the end of the period commitment, the Customer shall pay the full charges outstanding for the remainder of such period commitment.

### **5 Tariff Version Control**

Tariff Version Number	Effective Date	Tariff Modification
V1.0	10 July 2023	

\*\*\* End of Tariff \*\*