



**CELCOM AXIATA BERHAD
CELCOM MOBILE SDN BHD
CELCOM NETWORKS SDN BHD**

ACCESS REFERENCE DOCUMENT

5 August 2016

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1. INTRODUCTION

1.1 This Access Reference Document (ARD) is made by:-

Celcom Axiata Berhad (Company No: 167469-A), **Celcom Mobile Sdn Bhd** (Company No. 27910-A) and **Celcom Networks Sdn Bhd** (Company No. 195821-V), companies incorporated under the laws of Malaysia and having its registered office at Level 5, Axiata Centre, 9 Jalan Stesen Sentral 5, Kuala Lumpur Sentral, Kuala Lumpur.

(collectively herein after referred to "Celcom" or "Access Provider")

on 5 August 2016 pursuant to :-

- (i) Subsection 5.3.2 of the Commission Determination on the Mandatory Standard on Access (Determination No.2 of 2005) and subsection 3(c) of the Variation to Commission Determination on the Mandatory Standard on Access, Determination No.2 of 2005, (Determination No. 2 of 2009) ("**MSA Determinations**");
- (ii) Commission Determination on Access List, Determination No. 2 of 2015 ("**Access List Determination**");
- (iii) Commission Determination on the Mandatory Standard On Access Pricing (Determination No.1 of 2012)
- (iv) Variation to Commission Determination on the Mandatory Standard on Access Pricing, Determination No.1 of 2012, (Determination No. 4 of 2015)

1.2 This Access Reference Document is hereby referred to as Celcom's ARD.

2. LEGISLATIVE BACKGROUND

2.1 Subsection 5.3.2 of Commission Determination on the Mandatory Standard on Access (Determination No.2 of 2005)

Each Access Provider shall prepare and maintain an ARD in relation to Facilities or Services on the Access List Determination which that Access Provider provides to itself or third parties and which;

- (i) contains terms and conditions which are consistent with the rights and obligations set out in the MSA Determinations; and
- (ii) does not include terms and conditions which are inconsistent with the rights and obligations set out in the MSA Determinations.

2.2 The Facilities and Services listed in the Access List Determination are provided under this ARD by the entities of Celcom collectively insofar as they are authorised by their respective Licences. However, in the event any of the entities of Celcom ceases to be licensed to provide any or all of the Facilities

or Services, the remaining entities of Celcom are not obliged to provide such Facilities or Services to the Access Seeker, except where one or more of remaining parties are licensed to provide such Facilities or Services.

- 2.3 Where relevant, the rights and obligations set out in the MSA Determinations shall be applicable to Celcom's ARD.
- 2.4 Celcom considers Celcom's ARD to be consistent with:
- (i) the standard access obligations stipulated under Section 4.1.1 of the MSA Determination and section 149 of the Communications and Multimedia Act 1998 ("the Act") ; and
 - (ii) the principles of non-discrimination stipulated under Sections 4.1.5 and 4.1.6 of the MSA Determination.
- 2.5 For the purposes of clarification, the terms and conditions of Celcom's ARD are only applicable to the Facilities or Services on the Access List Determination. If the Access Seeker requests Facilities or Services outside Celcom's ARD, the terms and conditions for the provision of such Facilities or Services shall remain outside the scope of Celcom's ARD.
- 2.6 The drawings, diagrams in this ARD are merely for illustration purposes only.
- 2.7 If an Access Seeker requests Celcom to provide it with Facilities or Services other than on the terms and conditions contained in Celcom's ARD, Celcom and the Access Seeker will:
- (i) negotiate in good faith in relation to such terms and conditions; and
 - (ii) enter into and conduct negotiations in a timely manner.

Additional Services

- 2.8 In addition, the Operators are free to consider Celcom's ARD when negotiating the terms and conditions for the supply of other Facilities or Services that are not listed in the Access List.

Making the Access Reference Document

- 2.9 Subsection 5.3.4 of Commission Determination on the Mandatory Standard on Access (Determination No.2 of 2005) (amended by Variation to Commission Determination on the Mandatory Standard on Access, Determination No.2 of 2005, (Determination No. 2 of 2009)

Each Access Provider shall ensure that an ARD prepared by it shall;

- (a) be in writing (which includes legible electronic format)
- (b) contains all information required to be included under this subsection 5.3 of the MSA Determination.
- (c) be accurate
- (d) be modular, so that details of the terms and conditions including the rates for each facilities and services are available individually and separately under an ARD;
- (e) be made available to an Access Seeker on request in paper form at the operator's principal place of business in Malaysia and on a publicly accessible website.

3. COMMENCEMENT AND DURATION OF THE ACCESS REFERENCE DOCUMENT

- 3.1 Celcom's ARD comes into force and takes effect immediately from the date of this document and continues until the earlier occurrence of:
- (i) the expiry of the ARD terms; or
 - (ii) a Review; or
 - (i) withdrawal in accordance with this Celcom's ARD
- 3.2 Celcom's ARD has no effect on contractual arrangements for the supply of Facilities and Services by Celcom to an Access Seeker prior to the commencement date unless and until such contractual arrangement is subsequently renegotiated and agreed between Celcom and the Access Seekers.

4. AMENDMENT TO CELCOM'S ARD

- 4.1 Celcom shall, within ten (10) Business Days of making any amendment to the Celcom's ARD, provide a copy of the amendments, or an amended copy of Celcom's ARD to:
- (i) the Access Seeker who is being provided with access to Facilities or Services listed on the Access List Determination under Celcom's ARD; and
 - (ii) the Access Seeker who has requested Celcom's ARD within the period of ninety (90) days prior to the making of such amendments, unless the Access Seeker has already indicated that it does not wish to proceed with an Access Request.
- 4.2 If the SKMM revokes, varies or replaces the Access List Determination relating to the Facilities or Services listed on the Access List Determination under section 56 of the Act, Celcom may, by giving written notice to all Access Seekers to whom it is supplying Facilities or Services under Celcom's ARD, withdraw or replace Celcom's ARD with effect from a date no earlier than the effective date of the SKMM's revocation, variation or replacement.

- 4.3 Celcom shall comply with Sections 6.4.2 and 6.4.3 of the MSA Determination where it withdraws or varies Celcom's ARD pursuant to the above.
- 4.4 In addition to the above, Celcom may give the Access Seeker to whom it is supplying Facilities and Services under Celcom's ARD a notice of a variation or replacement of Celcom's ARD to effect such variations that are necessary or appropriate in the event of:
- (i) the occurrence of a legislative event that materially affects the rights or obligations of Celcom under Celcom's ARD; or
 - (ii) the occurrence of a regulatory event that relates to Celcom; or a review by the SKMM of the MSA Determination pursuant to Section 6.5 of the MSA Determination.

Notwithstanding the above, Celcom may subject, replace Celcom's ARD at any time without prior notice and consent.

5. AVAILABILITY

- 5.1 Celcom's ARD shall be made available to an Access Seeker:
- (i) on written request, at Celcom's principal place of business; and
 - (ii) on a publicly accessible website.
- 5.2 Any communication in respect of Celcom's ARD should be made in writing to:

Attention: Head
Regulatory Management

Address: Celcom Axiata Berhad
Level 15 Menara Celcom
82, Jalan Raja Muda Abdul Aziz
50300 Kuala Lumpur

Facsimile: 03-26810350

6. FACILITIES AND SERVICES

6.1 FIXED NETWORK ORIENTATION SERVICE

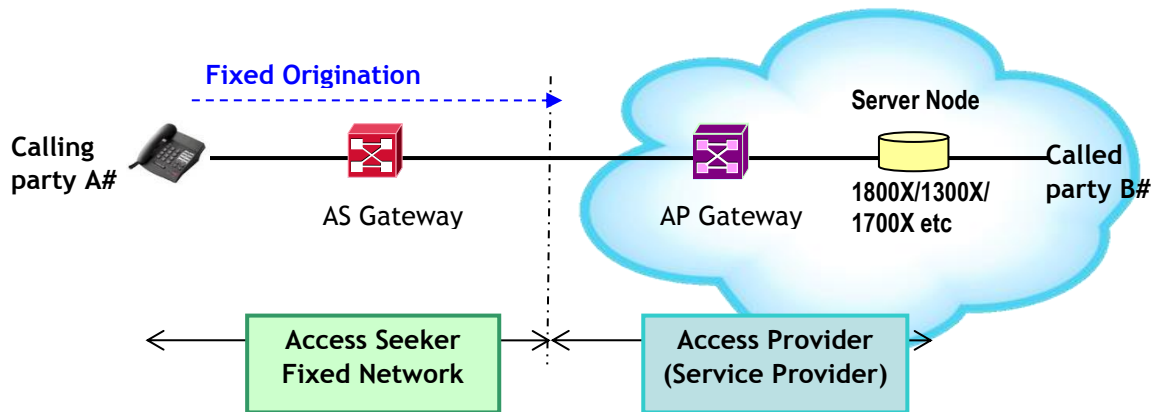


Figure 1: Fixed Network Origination Service

6.1.1 A Fixed Network Origination Service is an Interconnection service provided by means of a Fixed Network for the carriage of Call Communications from "A" party to a POI. The Fixed Network Origination Service comprises transmission and switching, whether packet or circuit, for Fixed Network-to-Fixed Network, Fixed Network-to-Mobile Network and Fixed Network-to-International outgoing calls insofar as they relate to freephone 1800 number services, toll free 1300 number services, and other similar services which require Any-to-Any Connectivity.

6.1.2 The functionalities of the Fixed Network Origination Service include:

- transmission and switching(whether packet or circuit) and
- the signaling required to support the Interconnection Service.

Examples of technologies used in the provision of the Fixed Network Origination service include PSTN, Integrated Service Digital Network (ISDN), other IP based networks and any other fixed network technology which is currently available or which may be developed in future that involves the carriage of Call Communications.

6.1.3 For avoidance of doubt, freephone 1800 number service, toll free 1300 number service and call forwarding 1700 number service refer to existing services which are being provided on the above-mentioned service platform. The services may be provided using other numbering range but has the attributes of origination services.

Handover basis

- 6.1.4 All calls to freephone 1800 service numbers, toll free 1300 service numbers and call forwarding 1700 service numbers shall be handed over on a Near end Handover basis.
- 6.1.5 VOIP Services provided by an Operator to the Customer of the Other Operator will be by way of freephone 1800 number service and the terms and conditions shall, *inter alia*, apply to VOIP services.

Rates

- 6.1.6 Fixed Network Origination Service supplied will, only to the extent necessary, be subject to the Charges listed in **Table A1 and Table A2** below and shall be applied for the carriage of voice Call Communications (including facsimile) only. For the purposes of clarification, all other Fixed Network Origination Service not listed in tables below are to be provided at negotiated charges.

TABLE A1: ACCESS CHARGE FOR FIXED NETWORK ORIGINATION SERVICE FOR PSTN NETWORK ONLY

Interconnect Chargeable Calls: Fixed Network Origination Service from the PSTN Network	
Type of Charge	Sen per minute, 24 hour weighted average
	1 Jan 2015 to 30 June 2017
Local origination charge	1.82
Single tandem origination charge	4.54
Double tandem origination charge	6.53
Double tandem origination charge using submarine cable	17.68

- 6.1.7 **TABLE A2: ACCESS CHARGE FOR FIXED NETWORK ORIGINATION SERVICE WITH RESPECT TO TSOIP NUMBERS ON IP BASED NETWORK**

Interconnect Chargeable Calls: Fixed Network Origination Service from the TSOIP Number	
Type of Charge	Sen per minute, 24 hour weighted average
	1 Jan 2015 to 30 June 2017
National	1.28

6.1.8 Time Units for Charging

The time units for calculating the Charges for Fixed Network Origination Service, on a call by call basis, for all types of voice Call Communication are set out in **Table A3** below.

TABLE A3: TIME UNIT FOR CALL COMMUNICATIONS

Type Of Call	Time Units For Charging (On A Call By Call Basis)
All voice Calls Involving a Fixed Component	One (1) second or part thereof.

Where the charging unit is smaller than a minute, the rate for each unit shall be expressed in 6 decimal points for RM and 4 decimal points for sen for the purposes of calculating the Charges.

6.2 FIXED NETWORK TERMINATION SERVICE

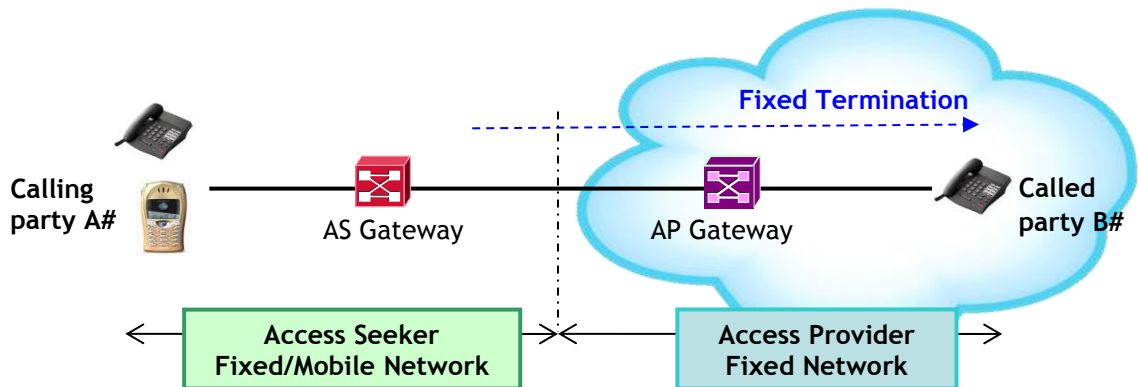


Figure 2: Fixed Network Termination Service

6.2.1 A Fixed Network Termination Service is an Interconnection service provided by means of a Fixed Network for the carriage of Call Communications from POI to a "B" party. The Fixed Network Termination Service comprises transmission and switching, whether packet or circuit, for Fixed Network-to-Fixed Network, Mobile Network-to-Fixed Network and incoming international-to-Fixed Network calls and messages which require Any-to-Any Connectivity.

6.2.2 The functionalities of the Fixed Network Termination Service include:

- (a) transmission and switching, whether packet or circuit, and
- (b) the signalling required to support the Interconnection service

6.2.3 Examples of technologies used in the provision of the Fixed Network Termination service include PSTN, Integrated Service Digital Network (ISDN) and other IP based networks and any other fixed network technology which is currently available or which may be developed in future that involves the carriage of Call Communications.

Rates

6.2.4 Fixed Network Termination Service supplied will, only to the extent necessary, be subject to the Charges listed in **Table B1 and B2** below and shall be applied for the carriage of voice Call Communications (including facsimile) only. For the purposes of clarification, all other Fixed Network Termination Service not listed in tables below are to be provided at negotiated charges.

TABLE B1: ACCESS CHARGE FOR FIXED NETWORK TERMINATION SERVICE FOR PSTN NETWORK ONLY

Interconnect Chargeable Calls: Fixed Network Termination Service to the PSTN Network	
Type of Charge	Sen per minute, 24 hour weighted average
	1 Jan 2015 to 30 June 2017
Local termination charge	1.65
Single tandem termination charge	4.10
Double tandem termination charge	4.83
Double tandem termination charge using submarine cable	17.44

6.2.5 **TABLE B2: ACCESS CHARGE FOR FIXED NETWORK TERMINATION SERVICE WITH RESPECT TO TSOIP NUMBERS ON IP BASED NETWORK**

Interconnect Chargeable Calls: Fixed Network Termination Service to the TSOIP Number	
Type of Charge	Sen per minute, 24 hour weighted average
	1 Jan 2015 to 30 June 2017
National	1.53

6.2.6 Time Units for Charging

The time units for calculating the Charges for Fixed Network Origination Service, on a call by call basis, for all types of voice Call Communication are set out in **Table B3** below.

TABLE B3: TIME UNIT FOR CALL COMMUNICATIONS

Type Of Call	Time Units For Charging (On A Call By Call Basis)
All voice Calls Involving a Fixed Component	One (1) second or part thereof.

Where the charging unit is smaller than a minute, the rate for each unit shall be expressed in 6 decimal points for RM and 4 decimal points for sen for the purposes of calculating the Charges.

6.3 MOBILE NETWORK ORIGINATION SERVICE

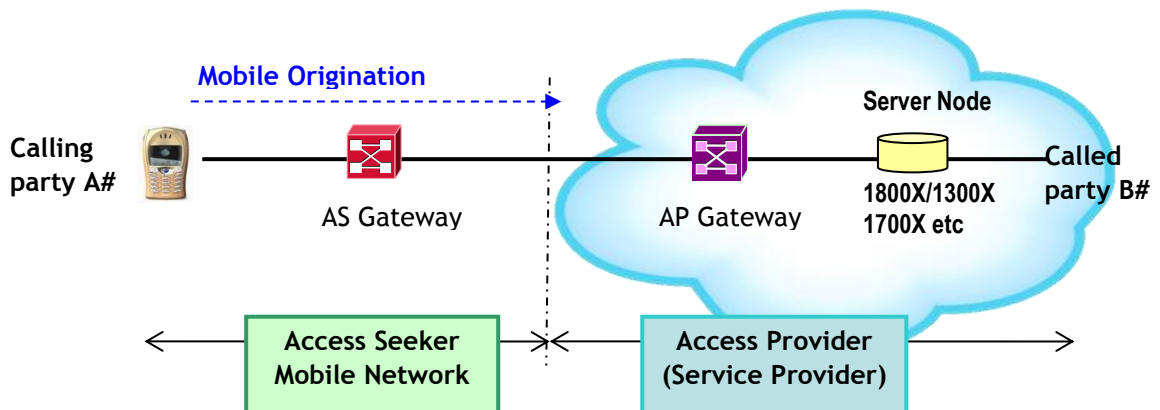


Figure 3 : Mobile Network Origination Service

6.3.1 A Mobile Network Origination Service is an Interconnection Service for the carriage of Call Communications from a 'A' party to a POI. The Mobile Network Origination Service supports Mobile Network-to-Mobile Network, Mobile Network-to-Fixed Network and Mobile Network-to-international outgoing calls insofar as they relate to Freephone 1800 number services, toll free 1300 number services, and other similar services which require Any-to-Any connectivity.

6.3.2 The functionalities of the Mobile Network Origination Service include:
 (i) transmission and switching, whether packet or circuit; and
 (ii) the signalling required to support the Interconnection Service.

6.3.3 Examples of Technologies used in the Mobile Network Origination Service would be:

- (i) Global System for Mobile Communications ("GSM"); and
- (ii) International Mobile Telecommunications 2000 ("IMT-2000" or "3G").
- (iii) Worldwide Interoperability for Microwave Access ("WiMAX");
- (iv) Long Term Evolution ("LTE");
- (v) International Mobile Telecommunications – Advanced ("IMT-Advanced" or "LTE- Advanced"); and
- (vi) any other mobile technology which is currently available or which may be developed in future that involves the carriage of Call Communications.

Rates

6.3.4 Mobile Network Origination Service supplied will only to the extent necessary, be subject to the Charges listed in **Table C1** for carriage of voice Call Communications (including facsimile) only and will include International Inbound Calls. For the purposes of clarification, all other Services not listed in **Table C1** are to be provided at negotiated charges.

6.3.5 Freephone 1800 Service

For calls from the Operator's Mobile Numbers to the Free phone Numbers of the Operator providing the Freephone 1800 Service, that Operator shall charge the Operator providing the Freephone 1800 Service the Mobile Network Origination charge. The Operator providing the Freephone 1800 Service shall not charge the other Operator any termination charge for call destined to its Freephone Numbers.

The Operator agrees not to charge the Calling Party the retail rates of the Operator for calls to the Freephone Number.

6.3.6 Toll Free 1300 Services

For calls from an Operator's Mobile Numbers to Toll Free 1300 Numbers of the Operator providing the Toll Free Service, that Operator shall charge the Operator providing the providing the Toll Free 1300 Service the Mobile Network Origination Charge. The Operator providing the Toll Free 1300 Service shall not charge the other Operator any termination charge for call destined to its Toll Free 1300 Number.

For calls from an Operator's Mobile Numbers to the Toll Free Numbers of the Operator providing the Toll Free 1300 Service, that Operator shall:-

- (i) retain the local call charge levied on its originating Mobile Number; and

- (ii) charge the Operator providing the Toll Free 1300 Service, the Mobile Network Origination charge,

while the other revenues generated by the call shall be retained by the Operator providing the Toll Free 1300 Service.

TABLE C1: ACCESS CHARGE FOR MOBILE NETWORK ORIGINATION SERVICE

Interconnect Chargeable Calls: Mobile Network Origination Service from the Mobile Network	
Type of Charge	Sen per minute, 24 hour weighted average
	1 Jan 2015 to 30 June 2017
Mobile local origination charge	3.89
Mobile national origination charge	3.92
Mobile national with submarine cable origination charge	15.76

6.3.7 Time Units for Charging

The time units for calculating the Charges, on a call by call basis, for Call Communications are set out in Table **C2** below.

TABLE C2: TIME UNIT FOR CALL COMMUNICATIONS

Type Of Call	Time Units For Charging (On A Call By Call Basis)
All Calls Involving a Mobile Component	One (1) second or part thereof.

Where the charging unit is smaller than a minute, the rate for each unit shall be expressed in 6 decimal points for RM and 4 decimal points for sen for the purposes of calculating the Charges.

6.4 MOBILE NETWORK TERMINATION SERVICE

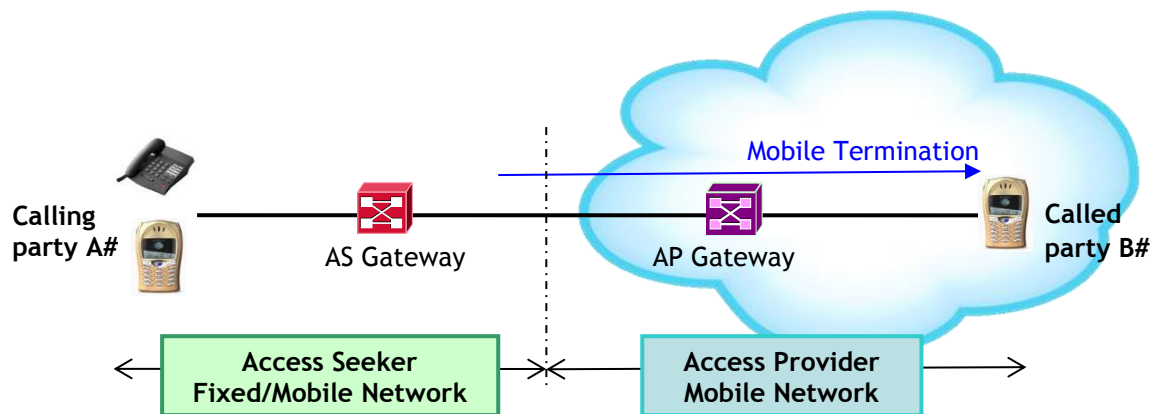


Figure 4: Mobile Network Termination Service

- 6.4.1 A Mobile Network Termination Service is an Interconnection Service for the carriage of Call Communications from a POI to a 'B' party. The Mobile Network Termination Service supports Mobile Network-to-Mobile Network, Fixed Network-to-Mobile Network, incoming international-to-Mobile Network calls and messages which require Any-to-Any Connectivity.
- 6.4.2 The functionalities of the Mobile Network Termination Service include:
- transmission and switching, whether packet or circuit; and
 - the signalling required to support the Interconnection Service.
- 6.4.3 Examples of Technologies used in the Mobile Network Origination Service would be:
- Global System for Mobile Communications ("GSM"); and
 - International Mobile Telecommunications 2000 ("IMT-2000" or "3G").
 - Worldwide Interoperability for Microwave Access ("WiMAX");
 - Long Term Evolution ("LTE");
 - International Mobile Telecommunications – Advanced ("IMT-Advanced" or "LTE- Advanced"); and
 - any other mobile technology which is currently available or which may be developed in future that involves the carriage of Call Communications.

Rates

- 6.4.4 Mobile Network Termination Service supplied will only to the extent necessary, be subject to the Charges listed in **Table D1** for carriage of voice Call Communications (including facsimile) only and will include International Inbound Calls. For the purposes of clarification, all other Services not listed in **Table D1** are to be provided at negotiated charges.

TABLE D1: ACCESS CHARGE FOR MOBILE NETWORK TERMINATION SERVICE

Interconnect Chargeable Calls: Mobile Network Termination Service to the Mobile Network	
Type of Charge	Sen per minute, 24 hour weighted average
	1 Jan 2015 to 30 June 2017
Mobile local termination charge	3.65
Mobile national termination charge	3.88
Mobile national with submarine cable termination charge	15.73

6.4.5 Time Units for Charging

The time units for calculating the Charges, on a call by call basis, for Call Communications are set out in Table **D2** below.

TABLE D2: TIME UNIT FOR CALL COMMUNICATIONS

TYPE OF CALL	TIME UNITS FOR CHARGING (On a call by call basis)
All Calls Involving a Mobile Component	One (1) second or part thereof.

Where the charging unit is smaller than a minute, the rate for each unit shall be expressed in 6 decimal points for RM and 4 decimal points for sen for the purposes of calculating the Charges.

6.4.6 Mobile Network SMS Termination Service Charges, as more specifically set out in **Table D3**, shall be based on Chargeable SMS Communications.**TABLE D3: SMS TERMINATION CHARGES**

Type Of Handover	SMS Termination Charges
Mutually agreed dedicated POI	5 sen per SMS

6.4.7 The MMS Charges are specifically detailed in **Table D4** below.**TABLE D4: MMS CHARGES**

Type of Handover	MMS Charge
Mutually agreed handover point	15 sen MMS Communication sent which may be mutually reviewed from time to time.

The Operators agree that an MMS Communication is deemed sent and the Charge referred to in **Table D4** above is payable when the MMS Communications which originate from the Access Seeker's Customer's mobile phone are routed through its Network and terminates at the Access Provider's Network, regardless of whether the MMS Communications is successfully delivered to the Access Provider's Customer mobile phone.

6.4.8 3G Video Telephony Charges

- (a) The Operators agree that a 3G Video Telephony Call Communication is successful and the Charge referred to below is payable when the originating exchange receives the answer signal from the terminating exchange resulting from the Customer answering the video call. The chargeable duration is the period from the receipt of the answer signal to the receipt of the clear forward or forced release signal.
- (b) The Charges for Video Call Communications are specifically detailed in **Table D5** below.

TABLE D5: VIDEO CALL COMMUNICATIONS

Type of Handover	Charge
Mutually agreed handover point	Each Video Call Communication shall be on "Senders Keepers" basis. For avoidance of doubt, "Senders Keepers" shall mean that there is no interconnect settlement between the Operators for 3G Video Telephony termination service.

6.5 INTERCONNECT LINK SERVICE

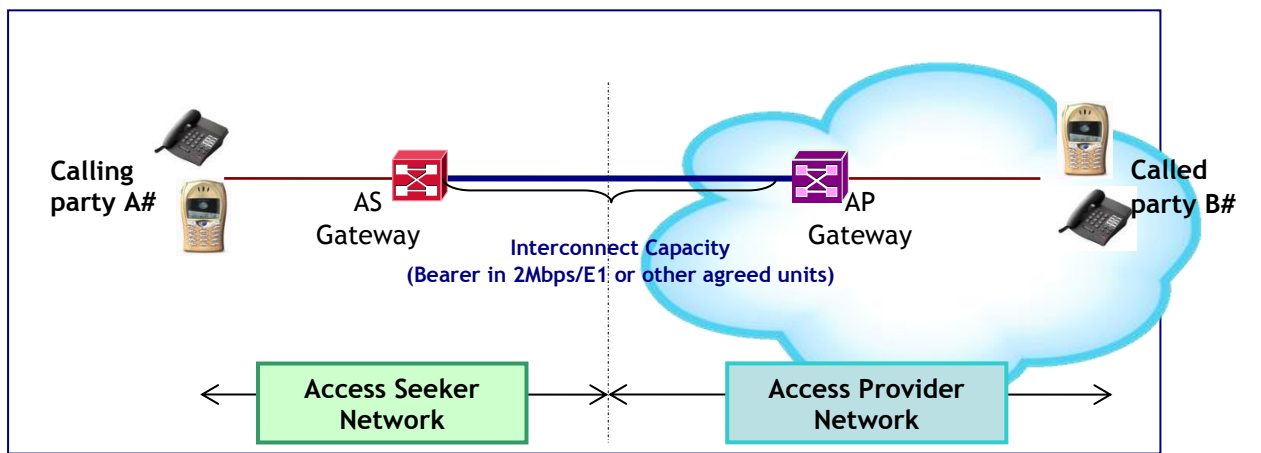


Figure 5: Interconnect Link Service

6.5.1 Interconnect Link Service means a Facility or Service which enables:

- (i) the physical connection between the network of Celcom and the network of an Access Seeker for the purpose of Interconnection Service ; and
- (ii) the interconnection of the Signalling System Number Seven (SS7) network of Celcom to the SS7 network of an Access Seeker at the signal transfer points.

6.5.2 Celcom shall not be obliged to provide to the Access Seeker Interconnect Link Service unless the Access Seeker has first applied and subscribed to:-

- (i) Fixed Network Origination Service;
- (ii) Fixed Network Termination Service,
- (iii) Mobile Network Origination Service;
- (iv) Mobile Network Termination Service.

In-span Interconnection

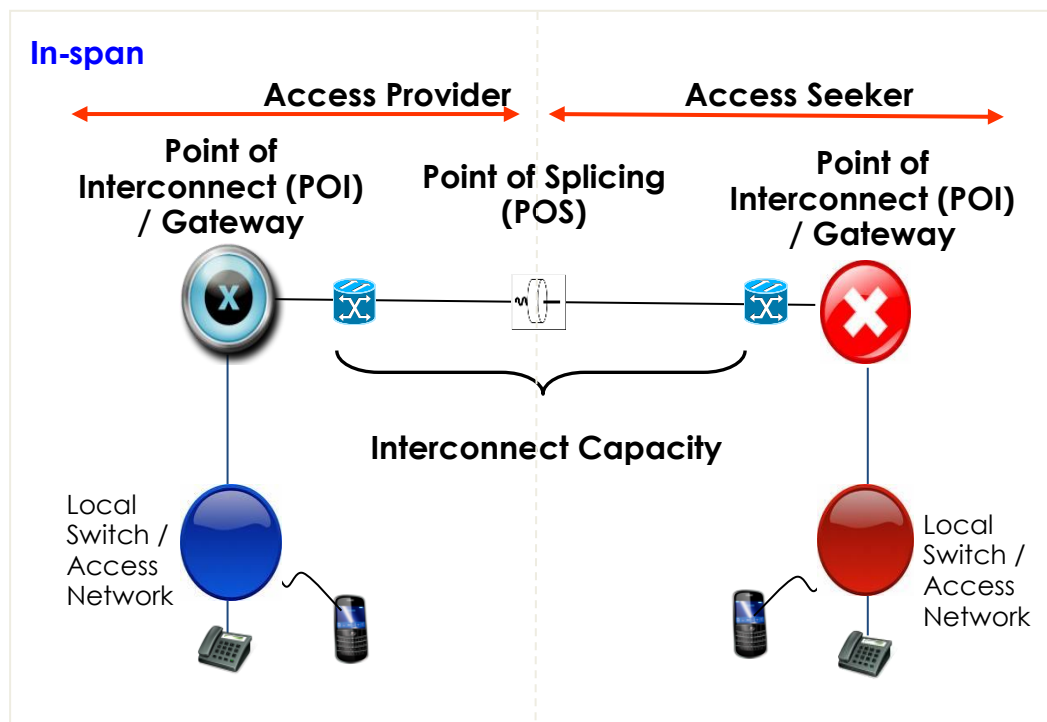


Figure 5a: In- span

6.5.3 The preferred mode of provisioning Interconnect Link Service between Celcom and the Access Seeker shall be In-span Interconnection subject to the following conditions:-

- i) the total traffic both incoming and outgoing reach 70% of STM-1/63E1;
- ii) agreement between both parties on the location and the time of installation of the POI;
- iii) the Access Seeker holds a Network Facilities Provider Individual licence.

Where In-span Interconnection is utilised between the Operators, each Operator shall pay to the Other Operator the Charges for Interconnect Conditioning Charges. For the avoidance of doubt, in the event the total traffic does not reach the above said threshold, than the parties shall agree to proceed with Full-span Interconnection.

6.5.4 For the purposes of clarification:-

- (i) such Interconnect Conditioning Charges are only payable in respect of the Gateway;
- (ii) no other Charges shall be payable in respect of such in-span Interconnect Link Service between the Operators unless otherwise agreed; and
- (iii) In-span Interconnection shall be provided by means of optical fibre circuits except where as agreed, due to location, speed or other reasons, microwave or other methods may be used to provide the Interconnection for an interim period.

Full-span Interconnection

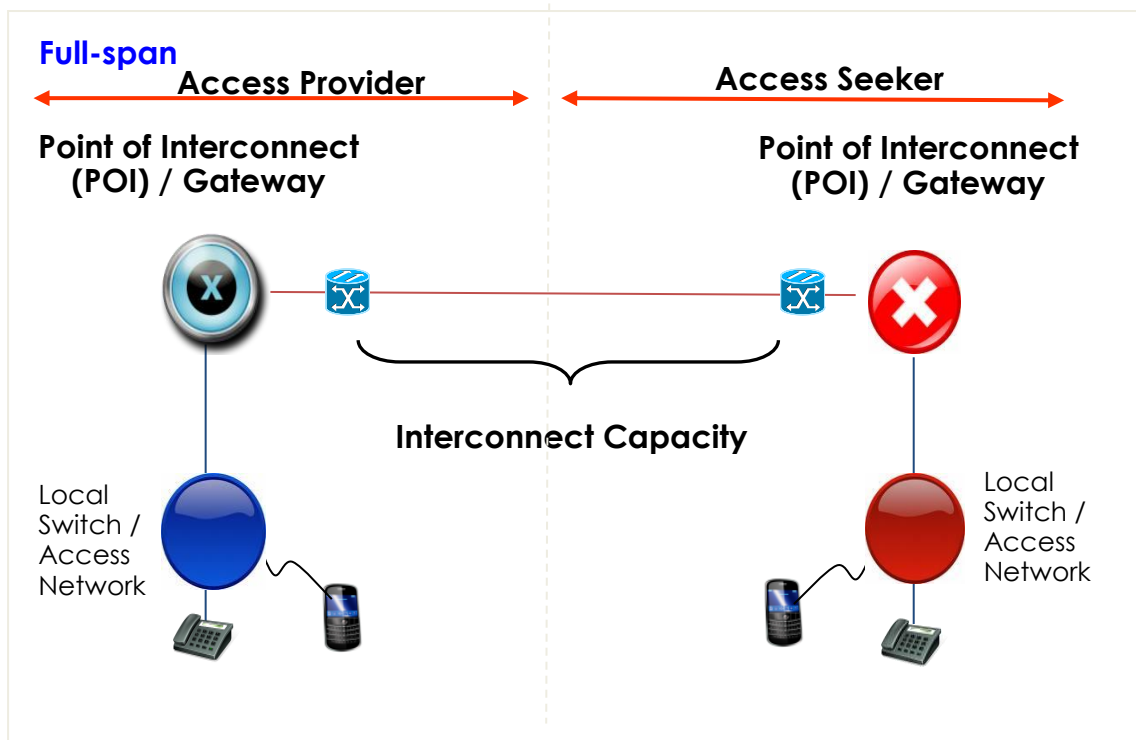


Figure 5b: Full-span

6.5.5 Interconnect Link Service provided on behalf of the Access Seeker (Full span):-

- (i) Where Celcom provides Interconnect Link Service from its Gateway to the Access Seeker's Gateway (via the POI) for and on behalf of the Access Seeker, the Charges for Interconnect Link Service, which is inclusive of Interconnect Conditioning Charges for DTS or MSC originating and/or terminating capacity, shall apply.
- (ii) Where such Interconnect Link Service provided for and on behalf of the Access Seeker uses CCS7 signalling on a particular route as agreed between the Operators, then the Charges, for the provision of such circuits for both incoming and outgoing traffic (two way Interconnect Link Service) is to be based on utilisation of the Interconnect Link Service on that route. For the purpose of clarification, Interconnect Link Service shall be provided on unidirectional circuits unless otherwise agreed by the Operators.

Rates

Table E1: Full-span Interconnection for Peninsular Malaysia

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Trunk Segment:	
Through-Connection	119
Above 0 to 5 km	215
Above 5 to 10 km	403
Above 10 to 20 km	691
Above 20 to 30 km	1,075
Above 30 to 40 km	1,459
Above 40 to 50 km	1,843
Above 50 to 60 km	2,227
Above 60km, for each additional km	38

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
2 Mbps	
Trunk Segment:	
Through-Connection	873
Above 0 to 5 km	1,575
Above 5 to 10 km	2,950
Above 10 to 20 km	5,055
Above 20 to 30 km	7,862
Above 30 to 40 km	10,669
Above 40 to 50 km	13,476
Above 50 to 60 km	16,283
Above 60km, for each additional km	281
34 Mbps	
Trunk Segment:	
Through-Connection	4,421
Above 0 to 5 km	7,973
Above 5 to 10 km	14,936
Above 10 to 20 km	25,593
Above 20 to 30 km	39,803
Above 30 to 40 km	54,012
Above 40 to 50 km	68,222
Above 50 to 60 km	82,431
Above 60km, for each additional km	1,421
155 Mbps	
Trunk Segment:	
Through-Connection	9,856
Above 0 to 5 km	17,775
Above 5 to 10 km	33,297
Above 10 to 20 km	57,056
Above 20 to 30 km	88,734
Above 30 to 40 km	120,413
Above 40 to 50 km	152,091
Above 50 to 60 km	183,769
Above 60km, for each additional km	3,168

Table E2: Full-span interconnection for East Malaysia

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Trunk Segment:	
Through-Connection	120
Above 0 to 5 km	235
Above 5 to 10 km	461
Above 10 to 20 km	806
Above 20 to 30 km	1,267
Above 30 to 40 km	1,728
Above 40 to 50 km	2,188
Above 50 to 60 km	2,649
Above 60km, for each additional km	46
2 Mbps	
Trunk Segment:	
Through-Connection	879
Above 0 to 5 km	1,721
Above 5 to 10 km	3,371
Above 10 to 20 km	5,897
Above 20 to 30 km	9,266
Above 30 to 40 km	12,634
Above 40 to 50 km	16,002
Above 50 to 60 km	19,370
Above 60km, for each additional km	337
34 Mbps	
Trunk Segment:	
Through-Connection	4,449
Above 0 to 5 km	8712
Above 5 to 10 km	17,067
Above 10 to 20 km	29,856
Above 20 to 30 km	46,907
Above 30 to 40 km	63,959
Above 40 to 50 km	81,010
Above 50 to 60 km	98,062
Above 60km, for each additional km	1,705

For East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
155 Mbps	
Trunk Segment:	
Through-Connection	9,919
Above 0 to 5 km	19,422
Above 5 to 10 km	38,049
Above 10 to 20 km	66,560
Above 20 to 30 km	104,574
Above 30 to 40 km	142,588
Above 40 to 50 km	180,601
Above 50 to 60 km	218,615
Above 60km, for each additional km	3,801

TABLE E3: CABLE RENTAL CHARGES (FOR IN-SPAN INTERCONNECTION)

For each pair of fiber cable for in-span interconnection	Ringgit Malaysia per km per year
	1 Jan 2015 to 30 June 2017
Link employing a fibre cable	332.24

Notes:

- * The Charges shall be calculated based on cable length.
- ** The Charges in Table E3 are only applicable to each principal pair of active physical fibre core irrespective of bandwidth. The said charges do not apply to the pair of active physical fibre core which is used for back-up purposes.
- *** Rates for services other than those specified in Table E1, E2 and E3 shall be agreed upon by both Parties.

6.6 NETWORK CO-LOCATION

6.6.1 The Network Co-Location Service is a Facility and/or Service which comprises:

- (i) physical co-location (Figure 6), which refers to the provision of space at Celcom's premises to enable the Access Seeker to install and maintain equipment necessary for the provision of the Access Seeker's services through the Facilities and/or Services of any operator. Physical co-location includes physical space, power, environmental services (such as heat, light, ventilation and air-conditioning), security, site maintenance and access for the personnel of the Access Seeker;
- (ii) virtual co-location (Figure 6a), which refers to the provision of facilities or services at Celcom's premises to enable the acquisition by the Access Seeker of Facilities and Services on the Access List, where equipment is owned and maintained by Celcom;
- (iii) in-span interconnection, which is the provision of a POI at an agreed point on a physical cable linking Celcom's network facilities to Access Seeker's network facilities.

6.6.2 Network premises at which co-location is to be provided includes switching sites, earth stations, exchange buildings, other Customer Access Modules including roadside cabinets and such other network facilities locations associated with the provision of a Facility or Service on the Access List, and includes co-location provided at any location where main distribution frame is housed.

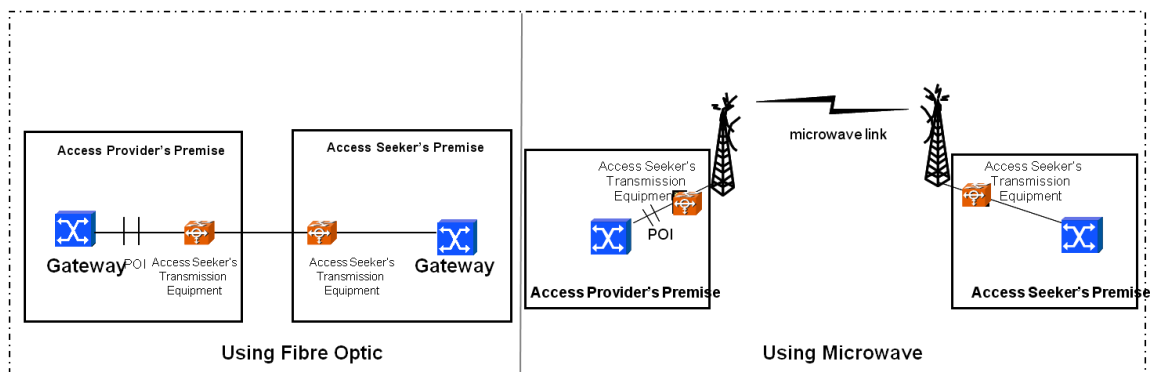


Figure 6: Physical Co-location

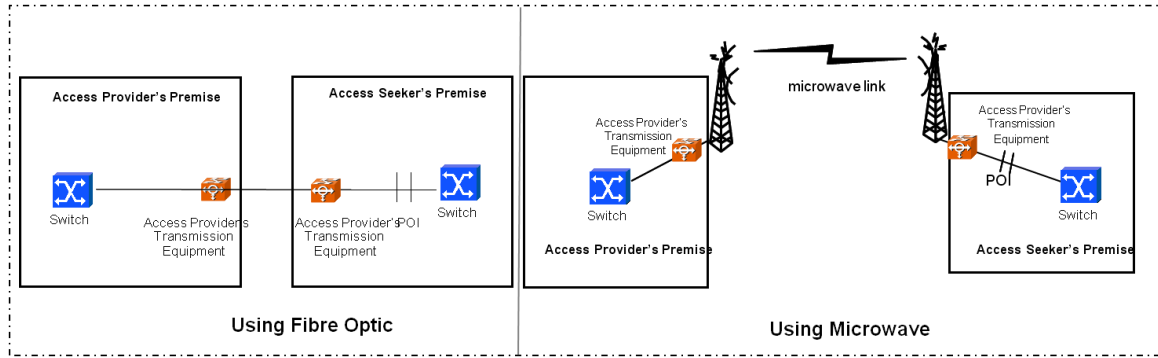


Figure 6a: Virtual Co-location

6.6.3 Celcom offers to provide Network Co-location at designated sites subject to the following conditions:

- (i) Celcom is the sole or beneficial owner of the space to be occupied or the Access Seeker has gained permission from the rightful owner(s) of the space for physical co-location;
- (ii) The Access Seeker has the appropriate license from the related authorities to operate the service for the purpose for which the equipment is to be installed;
- (iii) There being no space constraints at the designated sites; and
- (iv) That it is not technically infeasible to implement Network Co-location at the designated site.

6.6.4 Network Co-location at Satellite Earth Station

For access to designated sites at Satellite Earth Stations, the Access Seeker must have acquired or entered into the following before Celcom provides such access at those places:

- (i) a [Satellite Transponder Lease Agreement] ("**TLA**") or [Inmarsat Land Earth Station Operator Agreements] ("**LESOA**") with the relevant satellite owner; or
- (ii) any such licences as required from time to time to operate satellite services.

6.6.5 **Rates**

The Price below for Network Co-Location Service shall be applied for physical co-location for space, environmental services (heat, light, ventilation and air-conditioning), security, and maintenance at switching sites, earth stations and exchange buildings.

Physical Co-Location	Ringgit Malaysia per square metre per year 1 Jan 2015 to 30 June 2017
Space (including services)	233.00

6.7 TRUNK TRANSMISSION SERVICE

- 6.7.1 The Trunk Transmission Service (Transmission Service in Figure 7) is a Facility and/or Service for the carriage of communications between any two technically feasible network transmission points, not being End User locations or Access Seeker Points of Presence, on Celcom's network, via such network interfaces at such transmission rates may be agreed between Celcom and the Access Seeker on a permanent or virtual basis.
- 6.7.2 Network interfaces may use any technology as may be agreed between Celcom and the Access Seeker including, for example, Ethernet interfaces.
- 6.7.3 The functionalities of the Trunk Transmission Service include:
- (i) Transmission and switching, whether packet or circuit.
 - (ii) The signalling required to support the technology or to provide a service.
 - (iii) Termination at either end by a port, router, network termination unit, switch, submarine cable landing centre or earth station; and
 - (iv) A digital protocol including Internet Protocols.
- 6.7.4 A technically feasible network transmission point in subparagraph 6.8.1 may include a submarine cable or satellite link between Sabah and Sarawak and Peninsular Malaysia, submarine cable landing centre or on earth.
- 6.7.5 The Trunk Transmission Service may be for the carriage of communications which comprise of content application service.
- 6.7.6 An Access Seeker for the Trunk Transmission Service which includes but not limited to a network facilities provider or network service provider which is only authorised to provide limited network facilities or network services such as in the last mile, but wishes to acquire the Trunk Transmission Service in order to connect its limited network facilities or network services.

Rates

- 6.7.7 Please refer Table **F** on the next page.

Table F1: Trunk Transmission Service for Peninsular Malaysia

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Trunk Segment:	
Through-Connection	119
Above 0 to 5 km	215
Above 5 to 10 km	403
Above 10 to 20 km	691
Above 20 to 30 km	1,075
Above 30 to 40 km	1,459
Above 40 to 50 km	1,843
Above 50 to 60 km	2,227
Above 60km, for each additional km	38
2 Mbps	
Trunk Segment:	
Through-Connection	873
Above 0 to 5 km	1,575
Above 5 to 10 km	2,950
Above 10 to 20 km	5,055
Above 20 to 30 km	7,862
Above 30 to 40 km	10,669
Above 40 to 50 km	13,476
Above 50 to 60 km	16,283
Above 60km, for each additional km	281
34 Mbps	
Trunk Segment:	
Through-Connection	4,421
Above 0 to 5 km	7,973
Above 5 to 10 km	14,936
Above 10 to 20 km	25,593
Above 20 to 30 km	39,803
Above 30 to 40 km	54,012
Above 40 to 50 km	68,222
Above 50 to 60 km	82,431
Above 60km, for each additional km	1,421

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
155 Mbps	
Trunk Segment:	
Through-Connection	9,856
Above 0 to 5 km	17,775
Above 5 to 10 km	33,297
Above 10 to 20 km	57,056
Above 20 to 30 km	88,734
Above 30 to 40 km	120,413
Above 40 to 50 km	152,091
Above 50 to 60 km	183,769
Above 60km, for each additional km	3,168

Table F2: Trunk Transmission Service for East Malaysia

For East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Trunk Segment:	
Through-Connection	120
Above 0 to 5 km	235
Above 5 to 10 km	461
Above 10 to 20 km	806
Above 20 to 30 km	1,267
Above 30 to 40 km	1,728
Above 40 to 50 km	2,188
Above 50 to 60 km	2,649
Above 60km, for each additional km	46
2 Mbps	
Trunk Segment:	
Through-Connection	879
Above 0 to 5 km	1,721
Above 5 to 10 km	3,371
Above 10 to 20 km	5,897
Above 20 to 30 km	9,266
Above 30 to 40 km	12,634
Above 40 to 50 km	16,002
Above 50 to 60 km	19,370
Above 60km, for each additional km	337

For East Malaysia	Ringgit Malaysia per year per circuit	
	1 Jan 2015 to 30 June 2017	
34 Mbps		
Trunk Segment:		
Through-Connection		4,449
Above 0 to 5 km		8,712
Above 5 to 10 km		17,067
Above 10 to 20 km		29,856
Above 20 to 30 km		46,907
Above 30 to 40 km		63,959
Above 40 to 50 km		81,010
Above 50 to 60 km		98,062
Above 60km, for each additional km		1,705
155 Mbps		
Trunk Segment:		
Through-Connection		9,919
Above 0 to 5 km		19,422
Above 5 to 10 km		38,049
Above 10 to 20 km		66,560
Above 20 to 30 km		104,574
Above 30 to 40 km		142,588
Above 40 to 50 km		180,601
Above 50 to 60 km		218,615
Above 60km, for each additional km		3,801

6.8 WHOLESALE LOCAL LEASED CIRCUIT

6.8.1 A Wholesale Local Leased Circuit (as per Figure 7) is a Facility and/or Service for the carriage of communications by way of a private circuit between a POI at the Access Provider's premises and an End User location or an Access Seeker Point of Presence, available only at one end of a private circuit. The Wholesale Local Leased Circuit comprises transmission and switching, whether packet or circuit, at such transmission rates as may be agreed between the Access Provider and the Access Seeker on a permanent or virtual basis.

6.8.2 The functionalities of the Wholesale Local Leased Circuit Service include:

- (i) transmission and switching, whether packet or circuit;
- (ii) the signalling required to support the Interconnect Link Service or onward transmission via a Trunk Transmission Service provided by the same Access Provider; and
- (iii) a digital protocol including Internet Protocols.

Examples of technologies used in the Wholesale Local Leased Circuit Service would be Integrated Service Digital Network ("ISDN"), IP based networks and Ethernet interfaces.

6.8.3 Rates

Please refer Tables G on the next page.

Table G: Wholesale Leased Circuit Service for Peninsular Malaysia

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Installation (non-recurring charge)	318.69
Port (per year)	480.39
Tail segment (per km, per year)	225.34
Trunk Segment:	
Through-Connection	119
Above 0 to 5 km	215
Above 5 to 10 km	403
Above 10 to 20 km	691
Above 20 to 30 km	1,075
Above 30 to 40 km	1,459
Above 40 to 50 km	1,843
Above 50 to 60 km	2,227
Above 60km, for each additional km	38
2 Mbps	
Installation (non-recurring charge)	318.69
Port (per year)	3,512.82
Tail segment (per km, per year)	1,647.78
Trunk Segment:	
Through-Connection	873
Above 0 to 5 km	1,575
Above 5 to 10 km	2,950
Above 10 to 20 km	5,055
Above 20 to 30 km	7,862
Above 30 to 40 km	10,669
Above 40 to 50 km	13,476
Above 50 to 60 km	16,283
Above 60km, for each additional km	281

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
34 Mbps	
Installation (non-recurring charge)	1,613.35
Port (per year)	17,783.64
Tail segment (per km, per year)	8,341.91
Trunk Segment:	
Through-Connection	4,421
Above 0 to 5 km	7,973
Above 5 to 10 km	14,936
Above 10 to 20 km	25,593
Above 20 to 30 km	39,803
Above 30 to 40 km	54,012
Above 40 to 50 km	68,222
Above 50 to 60 km	82,431
Above 60km, for each additional km	1,421
155 Mbps	
Installation (non-recurring charge)	3,596.74
Port (per year)	39,646.26
Tail segment (per km, per year)	18,597.18
Trunk Segment:	
Through-Connection	9,856
Above 0 to 5 km	17,775
Above 5 to 10 km	33,297
Above 10 to 20 km	57,056
Above 20 to 30 km	88,734
Above 30 to 40 km	120,413
Above 40 to 50 km	152,091
Above 50 to 60 km	183,769
Above 60km, for each additional km	3,168

Table F2: Wholesale Leased Circuit Service for East Malaysia

For East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Installation (non-recurring charge)	382.42
Port (per year)	480.39
Tail segment (per km, per year)	270.41
Trunk Segment:	
Through-Connection	120
Above 0 to 5 km	235
Above 5 to 10 km	461
Above 10 to 20 km	806
Above 20 to 30 km	1,267
Above 30 to 40 km	1,728
Above 40 to 50 km	2,188
Above 50 to 60 km	2,649
Above 60km, for each additional km	46
2 Mbps	
Installation (non-recurring charge)	382.42
Port (per year)	3,512.82
Tail segment (per km, per year)	1,977.34
Trunk Segment:	
Through-Connection	879
Above 0 to 5 km	1,721
Above 5 to 10 km	3,371
Above 10 to 20 km	5,897
Above 20 to 30 km	9,266
Above 30 to 40 km	12,634
Above 40 to 50 km	16,002
Above 50 to 60 km	19,370
Above 60km, for each additional km	337

For East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
34 Mbps	
Installation (non-recurring charge)	1,936.01
Port (per year)	17,783.64
Tail segment (per km, per year)	10,010.29
Trunk Segment:	
Through-Connection	4,449
Above 0 to 5 km	8,712
Above 5 to 10 km	17,067
Above 10 to 20 km	29,856
Above 20 to 30 km	46,907
Above 30 to 40 km	63,959
Above 40 to 50 km	81,010
Above 50 to 60 km	98,062
Above 60km, for each additional km	1,705
155 Mbps	
Installation (non-recurring charge)	4,316.09
Port (per year)	39,646.26
Tail segment (per km, per year)	22,316.61
Trunk Segment:	
Through-Connection	9,919
Above 0 to 5 km	19,422
Above 5 to 10 km	38,049
Above 10 to 20 km	66,560
Above 20 to 30 km	104,574
Above 30 to 40 km	142,588
Above 40 to 50 km	180,601
Above 50 to 60 km	218,615
Above 60km, for each additional km	3,801

6.9 END-TO-END TRANSMISSION

- 6.9.1 The End-to-End transmission Service (Figure 7) is a Facility and/or Service for the carriage of communications between:
- (i) two End User locations;
 - (ii) between Access Seeker Points of Presence; or
 - (iii) between one End User location and one Access Seeker Point of Presence,
- via such network interfaces at such transmission rates as may be agreed between Celcom and the Access Seeker on a permanent or virtual basis.
- 6.9.2 Network interfaces may use any technology as may be agreed between Celcom and the Access Seeker including, for example, Ethernet interfaces.
- 6.9.3 The functionalities of the End-to-End Transmission Service include:
- (i) transmission and switching, whether packet or circuit;
 - (ii) the signalling required to support the technology or to provide a service;
 - (iii) termination at either end by a port, router, network termination unit, switch, submarine cable landing centre or earth station;
 - (iv) a digital protocol including the Internet Protocols.
 - (v) an End User location or Access Seeker Point of Presence in subparagraph
 - (vi) may include submarine cable or satellite link between Sabah and Sarawak and Peninsular Malaysia, submarine cable landing centre or on earth station.
- 6.9.4 The End-to-End Transmission Service maybe for the carriage of communications which comprise a content application service.
- 6.9.5 Technologies used to supply End-to-End Transmission Service, such as Metro-E may be requested by Access Seeker and Celcom must supply End-to-End Transmission Service using these technologies on request.
- 6.9.6 An Access Seeker for the End-to-End Transmission Service which includes but not limited to network facilities provider or network service provider which is only authorised to provide limited network facilities or network services such as in the last mile, but wishes to acquire the End-to-End Transmission Service on order to connect its limited network facilities or network Services.
- 6.9.7 For the avoidance of doubt, the End-to-End Transmission Service comprises but is not limited to the Facilities and/or Services specified in the Trunk Transmission Service and the Wholesale Local Leased Circuit Service.

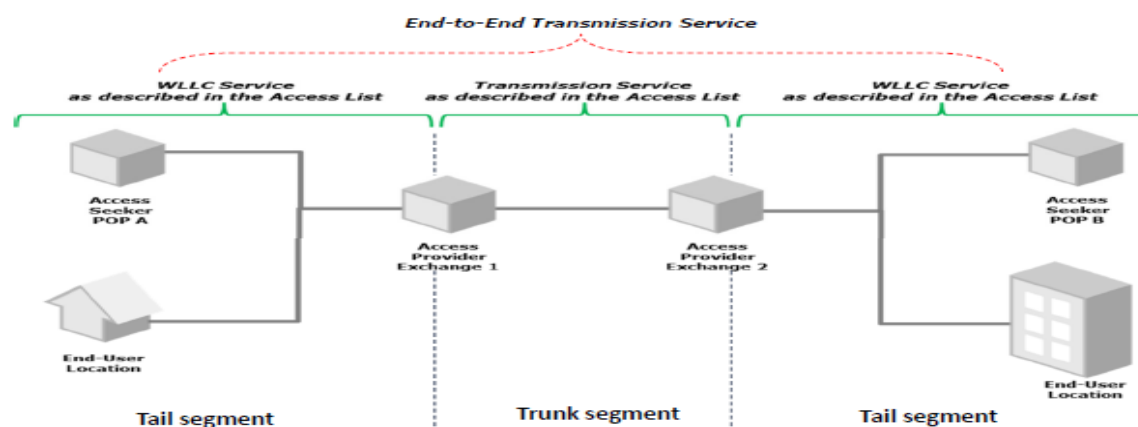


Figure 7

6.9.8 Rates

The rates for End-to-end Transmission Service comprise of the rates for the following services:-

- (i) Wholesale Local Leased Circuit Service; and
- (ii) Trunk Transmission Service

Table G1: Wholesale Local Leased Circuit Service for Peninsular Malaysia

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Installation (non-recurring charge)	318.69
Port (per year)	480.39
Tail segment (per km, per year)	225.34
Trunk Segment:	
Through-Connection	119
Above 0 to 5 km	215
Above 5 to 10 km	403
Above 10 to 20 km	691
Above 20 to 30 km	1,075
Above 30 to 40 km	1,459
Above 40 to 50 km	1,843
Above 50 to 60 km	2,227
Above 60km, for each additional km	38

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
2 Mbps	
Installation (non-recurring charge)	318.69
Port (per year)	3,512.82
Tail segment (per km, per year)	1,647.78
Trunk Segment:	
Through-Connection	873
Above 0 to 5 km	1,575
Above 5 to 10 km	2,950
Above 10 to 20 km	5,055
Above 20 to 30 km	7,862
Above 30 to 40 km	10,669
Above 40 to 50 km	13,476
Above 50 to 60 km	16,283
Above 60km, for each additional km	281
34 Mbps	
Installation (non-recurring charge)	1,613.35
Port (per year)	17,783.64
Tail segment (per km, per year)	8,341.91
Trunk Segment:	
Through-Connection	4,421
Above 0 to 5 km	7,973
Above 5 to 10 km	14,936
Above 10 to 20 km	25,593
Above 20 to 30 km	39,803
Above 30 to 40 km	54,012
Above 40 to 50 km	68,222
Above 50 to 60 km	82,431
Above 60km, for each additional km	1,421

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
155 Mbps	
Installation (non-recurring charge)	3,596.74
Port (per year)	39,646.26
Tail segment (per km, per year)	18,597.18
Trunk Segment:	
Through-Connection	9,856
Above 0 to 5 km	17,775
Above 5 to 10 km	33,297
Above 10 to 20 km	57,056
Above 20 to 30 km	88,734
Above 30 to 40 km	120,413
Above 40 to 50 km	152,091
Above 50 to 60 km	183,769
Above 60km, for each additional km	3,168

Table G2: Trunk Transmission Service for Peninsular Malaysia

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Trunk Segment:	
Through-Connection	119
Above 0 to 5 km	215
Above 5 to 10 km	403
Above 10 to 20 km	691
Above 20 to 30 km	1,075
Above 30 to 40 km	1,459
Above 40 to 50 km	1,843
Above 50 to 60 km	2,227
Above 60km, for each additional km	38

For Peninsular Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
2 Mbps	
Trunk Segment:	
Through-Connection	873
Above 0 to 5 km	1,575
Above 5 to 10 km	2,950
Above 10 to 20 km	5,055
Above 20 to 30 km	7,862
Above 30 to 40 km	10,669
Above 40 to 50 km	13,476
Above 50 to 60 km	16,283
Above 60km, for each additional km	281
34 Mbps	
Trunk Segment:	
Through-Connection	4,421
Above 0 to 5 km	7,973
Above 5 to 10 km	14,936
Above 10 to 20 km	25,593
Above 20 to 30 km	39,803
Above 30 to 40 km	54,012
Above 40 to 50 km	68,222
Above 50 to 60 km	82,431
Above 60km, for each additional km	1,421
155 Mbps	
Trunk Segment:	
Through-Connection	9,856
Above 0 to 5 km	17,775
Above 5 to 10 km	33,297
Above 10 to 20 km	57,056
Above 20 to 30 km	88,734
Above 30 to 40 km	120,413
Above 40 to 50 km	152,091
Above 50 to 60 km	183,769
Above 60km, for each additional km	3,168

Table G3: Wholesale Leased Circuit Service for East Malaysia

For East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Installation (non-recurring charge)	382.42
Port (per year)	480.39
Tail segment (per km, per year)	270.41
Trunk Segment:	
Through-Connection	120
Above 0 to 5 km	235
Above 5 to 10 km	461
Above 10 to 20 km	806
Above 20 to 30 km	1,267
Above 30 to 40 km	1,728
Above 40 to 50 km	2,188
Above 50 to 60 km	2,649
Above 60km, for each additional km	46
2 Mbps	
Installation (non-recurring charge)	382.42
Port (per year)	3,512.82
Tail segment (per km, per year)	1,977.34
Trunk Segment:	
Through-Connection	879
Above 0 to 5 km	1,721
Above 5 to 10 km	3,371
Above 10 to 20 km	5,897
Above 20 to 30 km	9,266
Above 30 to 40 km	12,634
Above 40 to 50 km	16,002
Above 50 to 60 km	19,370
Above 60km, for each additional km	337

For East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
34 Mbps	
Installation (non-recurring charge)	1,936.01
Port (per year)	17,783.64
Tail segment (per km, per year)	10,010.29
Trunk Segment:	
Through-Connection	4,449
Above 0 to 5 km	8,712
Above 5 to 10 km	17,067
Above 10 to 20 km	29,856
Above 20 to 30 km	46,907
Above 30 to 40 km	63,959
Above 40 to 50 km	81,010
Above 50 to 60 km	98,062
Above 60km, for each additional km	1,705
155 Mbps	
Installation (non-recurring charge)	4,316.09
Port (per year)	39,646.26
Tail segment (per km, per year)	22,316.61
Trunk Segment:	
Through-Connection	9,919
Above 0 to 5 km	19,422
Above 5 to 10 km	38,049
Above 10 to 20 km	66,560
Above 20 to 30 km	104,574
Above 30 to 40 km	142,588
Above 40 to 50 km	180,601
Above 50 to 60 km	218,615
Above 60km, for each additional km	3,801

Table G4: Trunk Transmission Service for East Malaysia

for East Malaysia	Ringgit Malaysia per year per circuit
	1 Jan 2015 to 30 June 2017
64 kbps	
Trunk Segment:	
Through-Connection	120
Above 0 to 5 km	235
Above 5 to 10 km	461
Above 10 to 20 km	806
Above 20 to 30 km	1,267
Above 30 to 40 km	1,728
Above 40 to 50 km	2,188
Above 50 to 60 km	2,649
Above 60km, for each additional km	46
2 Mbps	
Trunk Segment:	
Through-Connection	879
Above 0 to 5 km	1,721
Above 5 to 10 km	3,371
Above 10 to 20 km	5,897
Above 20 to 30 km	9,266
Above 30 to 40 km	12,634
Above 40 to 50 km	16,002
Above 50 to 60 km	19,370
Above 60km, for each additional km	337

For East Malaysia	Ringgit Malaysia per year per circuit	
	1 Jan 2015 to 30 June 2017	
34 Mbps		
Trunk Segment:		
Through-Connection		4,449
Above 0 to 5 km		8,712
Above 5 to 10 km		17,067
Above 10 to 20 km		29,856
Above 20 to 30 km		46,907
Above 30 to 40 km		63,959
Above 40 to 50 km		81,010
Above 50 to 60 km		98,062
Above 60km, for each additional km		1,705
155 Mbps		
Trunk Segment:		
Through-Connection		9,919
Above 0 to 5 km		19,422
Above 5 to 10 km		38,049
Above 10 to 20 km		66,560
Above 20 to 30 km		104,574
Above 30 to 40 km		142,588
Above 40 to 50 km		180,601
Above 50 to 60 km		218,615
Above 60km, for each additional km		3,801

6.10 DUCT AND MANHOLE ACCESS

6.10.1 Duct and Manhole Access is a Facility and/or Service which comprises provision of physical access to:

- (i) Lead-in Ducts and associated manhole;
- (ii) Mainline Ducts and associated manholes in areas in which a single Operator has exclusive rights to develop or maintain duct and manhole infrastructure, whether or not in combination with other Facilities and Services; and
- (iii) sub-ducts where there is no room for the Access Seeker to install its own sub-ducts.

6.10.2 Provision of physical access includes the provision of:

- (i) space at specific network facilities to enable an Access Seeker to install and maintain its own lines, equipment and sub-ducts; and
- (ii) access for the personnel of the Access Seeker.

6.10.3 Exclusive rights to develop or maintain duct and manhole infrastructure includes exclusive rights in contracts, arrangements or understanding between Celcom and any person.

6.10.4 The applicable rate is under study and will be updated in this ARD.

6.11 MVNO ACCESS

6.11.1 MVNO Access is a Facility and/or Service for access to the Mobile Network used by Celcom to provide public cellular service to the public, for the purpose of the Access Seeker providing public cellular services to the public.

6.11.2 MVNO Access may include access to the Facilities and Services used by the Access Seeker to provide:

- (i) one or more of voice, data and application services, as selected by the Access Seeker; and
- (ii) services over networks including GSM, IMT-2000 or 3G, WiMAX, LTE, IMT-Advanced or LTE-Advanced, and any other mobile networks which are currently available or which may be developed in future.

- 6.11.3 Examples of such Facilities and Services to which the Access Seeker may request access to which includes but not limited to Celcom's:
- (i) radio network;
 - (ii) serving GPRS Support Node and Gateway GPRG Support Node;
 - (iii) Home Location Register;
 - (iv) Value-added service platforms (such as its Short Message Service Centre Multimedia Service Centre and Voicemail Server)
 - (v) SIM provisioning and configuration;
 - (vi) Customer billing; and
 - (vii) Customer relationship management.
- 6.11.4 Access Seeker is not a holder of spectrum assignment or an apparatus assignment under the Communications and Multimedia Act 1998.
- 6.11.5 Access Seeker is an Applications Service Provider license holder and is capable of providing public cellular services to end users.

6.11.6 Minimum requirements:-

Company Background	Malaysian registered Limited ("Bhd") or Private Limited ("Sdn Bhd") company.
	The Directors of the company or group of companies should not be a director OR shareholder of a company which Celcom deems a direct competitor.
Technical Obligations	Must not own or manage any spectrum block allocation in Malaysia
	Manage own billing, BSS and CRM platforms (given current infrastructure limitations within Celcom)
	All data and voice traffic routing will be managed by Celcom
	Re-wholesaling or re-selling Celcom's network Access to 3 rd parties is prohibited
Compliance	Comply to CMA98 and other regulations by MCMC, not limited to the <i>Commission Determination on Mandatory Standard for the Provision of Services Through a Mobile Virtual Network and Guideline on Mobile Virtual Network Business Segment in Malaysia</i> .
	Implement own fraud management and assume all liability for any disputes or fraudulent activity arising from MVNO own customers' utilisation.

Rates (subject to commercial negotiation)

Type of Service	Measurement	MVNO Wholesale Rate (based on Volume Tiers)
Domestic Voice On - net	per Minute Call	2 sen – 15 sen
Domestic Voice Off- net	per Minute Call	5 sen – 18 sen
Domestic SMS On – net	per SMS	1 sen - 6 sen
Domestic SMS Off – net	per SMS	5 sen - 10 sen
Domestic MMS On – net	per MMS	4 sen - 20 sen
Domestic MMS Off – net	per MMS	15 sen - 25 sen
Domestic Data	per GB	RM11 – RM30
International Voice/SMS/MMS	per Minute/SMS/MMS	International Settlement Rate (ISR) + 50%
Roaming Voice/ SMS/MMS	per Minute/SMS/MMS	International Settlement Rate (ISR) + 50%

– END OF ARD –