

VIDEO CALL INTERCONNECTION SERVICE AGREEMENT

THIS AGREEMENT is made on the

**PARTIES:**

- 1.
- 2.

**RECITALS:**

- A. The Parties are telecommunications operators licensed under the Telecommunications Ordinance (Cap. 106) to provide 3G Mobile Services in Hong Kong.
- B. The Parties have agreed to implement Video Call Interconnection Service to enable their respective Customers to make and receive Video Calls to and from each other.
- C. In furtherance of recital B, the Parties have agreed to enter into this Agreement to regulate the terms and conditions for Video Call Interconnection Service and to set out the billing and settlement procedures for Video Call Interconnection Service Charge.

**OPERATIVE PROVISIONS:**

**1 DEFINITIONS AND INTERPRETATION**

- 1.1 The following terms used in this Agreement shall have the following meanings, unless the context otherwise requires:

“3G Mobile Services”	means the Public Mobile Radiocommunication Services based on the IMT-2000 standard provided by and under their respective Mobile Carrier Licence;
“Affiliate”	of a Party means an entity which controls, is controlled by, or is under common control with, that Party;
“Agreement”	means these terms and conditions (including any Annexes attached hereto) as may be amended by the Parties from time

to time;

“Applicable Laws”

means all laws, including rules of common law, principles of equity, ordinance, statutory instruments, regulations, orders, other legislative provisions, court judgment and statutory licence, license conditions and, if they have the force or effect of law, directions, codes of practice, policies and guidelines or any applicable operational requirement of any governmental or competent authority having jurisdiction over a Party;

“Business Day”

means a day except Sunday on which banks are ordinarily open for business in Hong Kong;

“Call Completion Rate”

means, in respect of a Party, its ratio of successfully completed Video Calls to the Terminating Operator’s network facility over the total number of attempted Video Calls to the Terminating Operator’s network facility, expressed as a percentage. For the avoidance of doubt, the ratio shall be calculated based on the Terminating Operator’s records of Video Calls made using the Inter-Operator Video Call Service;

“Commercial Launch Date”

means \_\_\_\_\_, or such later date as the Parties may agree;

“Commercial Video Call”

means a Video Call containing commercial content and/or applications but shall not include any such Video Calls which both Parties have specifically agreed in writing after the date hereof to interconnect upon such terms and interconnection charge to be agreed;

“Customer”

means a subscriber of a Party’s 3G Mobile Services which enables the subscriber to make and receive Video Calls;

“Interconnect Link”

means the dedicated fixed network circuit or link necessary to establish one or more transmission paths between the Parties’ network facilities at the agreed points of interconnection for use in the Video Call Interconnection Service;

"Inter-Operator Video Call Service"	means the service where Customers of both Parties may make and receive Video Calls to and from each other pursuant to the Video Call Interconnection Service implemented pursuant to this Agreement;
"Intellectual Property Right"	means all intellectual property rights (whether registered or unregistered and including applications for registration) and all rights or forms of protection having equivalent or similar effect anywhere in the world, including without limitation patents, registered designs, trade marks, service marks, logos, get-up, trade names, internet domain names and service marks (whether registered or not), copyright (including rights in computer software), moral rights, database rights, design rights, and all similar property rights, including those subsisting (in any part of the world) in inventions, designs, drawings, performances, semi-conductor topographies, utility models, confidential information, know-how, business names, goodwill and applications for protection of any of the above rights;
"network facility"	means, in relation to a Party, any part of that Party's infrastructure or system, or series of systems, that carries, or is capable of carrying communications and such other computers, IT infrastructure, software, firmware and electronic hardware in relation to the provision of the Video Call Service;
"OFTA"	means the Office of the Telecommunications Authority of Hong Kong;
"personnel"	means, in relation to a Party, any of its director, consultant, officer, agent, employee and servant;
"Originating Operator"	means the Party from which a Video Call originates and which is intended to terminate at the Terminating Operator's network facility;
"Party"	means either ;

- “Parties” means both ;
- “Technical Specifications” means the technical specifications for the Video Call Interconnection Service as set out in Schedule 1;
- “Telecommunications Authority” means the Telecommunications Authority established under the Telecommunications Ordinance (Cap 106);
- “Terminating Operator” means the Party whose network facility terminates a Video Call originating from the Originating Operator;
- “Unsolicited Promotional Video Calls” means Video Calls of a promotional or similar nature which the intended recipient has not given his/her explicit prior consent to receive;
- “Video Call Interconnection Service” means the service more particularly described in the Technical Specifications where each Party makes available its respective network facilities to the other and to interconnect at the agreed points of interconnection;
- “Video Call Interconnection Service Charge” means each Party’s charges for providing the Video Call Interconnection Service to the other;
- “Video Call” means a signal or series of signals conforming to the Technical Specifications; and
- “Video Call Service” means the Video Call service provided to a Party’s Customers.

- 1.2 In this Agreement, unless the context otherwise requires:
- (a) any reference to a provision of any Ordinance is a reference to that provision as amended, extended or re-enacted from time to time;
  - (b) unless the context otherwise requires, words importing the singular number shall include the plural and vice versa, persons shall include bodies corporate and partnerships, references to any gender shall include all genders and references to any agreement or other instrument shall be deemed to include references to such agreement or other instrument as varied or replaced from time to time;

- (c) any reference to days are to calendar days, and any reference to months or years are to calendar months or years.

## 2 PROVISION OF VIDEO CALL INTERCONNECTION SERVICE

- 2.1 The Parties shall implement and enable Video Call Interconnection Service by interconnecting their applicable network facilities at the agreed points of interconnection and commercially provide Inter-Operator Video Call Service to its Customers on the Commercial Launch Date.
- 2.2 The Parties shall observe the Technical Standards and such other operational standards and guidelines imposed by law on the Video Call Interconnection Service.
- 2.3 The Parties shall at all times comply with OFTA's "*The Numbering Plan for Telecommunications Services in Hong Kong*" (as updated from time to time) in respect of the Video Call Interconnection Service.
- 2.4 Each Party agrees that it shall use technically reasonable endeavours to ensure that Video Call Interconnection Service shall be available on a continuous basis. Notwithstanding the generality of the foregoing, the Parties shall resolve all technical faults in relation to the Video Call Interconnection Service as soon as technically possible in accordance with the operational and maintenance procedures set out in Schedule 3.
- 2.5 Subject to Clause 8.5, each Party agrees that the Terminating Operator will use technically reasonable endeavours to terminate each Video Call to the Customer's 3G mobile terminal to whom the Video Call is addressed.
- 2.6 Each Party undertakes to the other that in the course of its marketing and/or sale of the Inter-Operator Video Call Service to its Customers, it shall not encourage nor promote its personnel and sales agents to engage in any conduct that may injure the other Party's reputation and goodwill in the Inter-Operator Video Call Service. Notwithstanding the foregoing, if a Party becomes aware that any of its personnel or sales agents is engaging in such conduct, it shall forthwith take all reasonable commercial steps to prevent such conducts.
- 2.7 Each Party agrees to provide a non-binding forward forecast of its originating traffic in the form set out in Schedule 4 before the end of March, June, September and December of each year.
- 2.8 Each Party shall be responsible for the operation of its own network facility and in performing its obligations herein it shall ensure that its network facility does not endanger the safety and health of the other Party's personnel, and does not cause any technical or physical damage to any part of the other Party's network facility. In the event that either Party intends to introduce any new or additional features to the Inter-Operator Video Call Service after the date hereof, both Parties shall, in good faith, use reasonable commercial endeavours to conduct joint testing of the new or additional feature to be introduced.
- 2.9 Each Party indemnifies the other Party against all awards, judgments, costs, charges and expenses directly and reasonably incurred by that other Party as a result of or in connection with any claim against it arising out of the death of or personal injury to any of its personnel

in the performance of any of their duties pursuant to this Agreement, save where the death or injury was caused by the other Party or its agents' gross negligence or any act or omission intended to cause death or personal injury.

- 2.10 The Parties agree that, on the Commercial Launch Date, the Video Call traffic pursuant to the Video Call Interconnection Service as contemplated herein shall transit over \_\_\_\_\_, and that each Party shall be solely responsible for negotiating and solely liable for its transit and originating charges payable to \_\_\_\_\_. The Parties shall review this transit arrangement from time to time.

### 3 CHARGES AND PAYMENT

- 3.1 The Video Call Interconnection Service Charge chargeable for the Video Call Interconnection Service and the billing and settlement procedures shall be governed by Schedule 2.
- 3.2 The Parties shall exchange and compare their calculations of the other Party's Call Completion Rate every three calendar months. In the event of a difference of more than 10% in the Call Completion Rates of the Parties measured over the same period, the Party with the higher Call Completion Rate may request the other Party (being the Originating Operator) to take appropriate measures to reduce or address its disproportionately higher number of unsuccessful Video Call attempts originating from its network facility within a reasonable time. Such measures may include the implementation of a technical solution to overcome the problem or the introduction of an additional call attempt charge in order to compensate the Terminating Operator with the higher Call Completion Rate.
- 3.3 Each Party shall be solely responsible for its own costs and charges for the provisioning and maintaining of any Interconnect Links for traffic originating from its network facility until the agreed points of interconnection.

### 4 INDEMNITIES FOR PROVISION OF INTER-OPERATOR VIDEO CALL SERVICE

- 4.1 Each Party ("*Indemnifying Party*") agrees that in relation to the marketing, sale and provision of the Inter-Operator Video Call Service to its Customers, or any part thereof, it will indemnify the other Party ("*Indemnified Party*") from any damage, loss or cost (including legal costs) and protect the Indemnified Party from any claim or proceeding by the Indemnifying Party's Customers.
- 4.2 Each Party shall be solely responsible for the use of the Inter-Operator Video Call Service or any part thereof by its Customers. Neither Party shall be liable to the other Party or its Customers for any failure or delay in the provision of the Inter-Operator Video Call Service.
- 4.3 For the avoidance of doubt, the Video Call Interconnection Service is intended only for the provision of the Inter-Operator Video Call Service to the Parties' Customers and the Parties shall under no circumstances use the Video Call Interconnection Service to provide any services to any person other than its Customers.

- 4.4 Any use of the other Party's trade name, trade marks or service marks in relation to the marketing, sale and provision of any part of the Inter-Operator Video Call Service to its Customers shall be subject to Clause 5.
- 4.5 Save where it would require a Party to engage in unethical, illegal, misleading or deceptive conduct, neither Party shall, in the course of selling or providing customer services to its Customers, attribute responsibility on the other Party for any fault or other circumstance in respect of the Inter-Operator Video Call Service.

## 5 INTELLECTUAL PROPERTY RIGHTS

- 5.1 Nothing in this Agreement shall be construed as assigning any Intellectual Property Rights of a Party to the other; or the grant of any licence of any Intellectual Property Rights to the other Party other than as expressly permitted herein.
- 5.2 Neither Party is entitled to use any trade names, trade marks or service marks (whether registered or not) of the other Party in any document or other medium, without the prior written consent of that other Party.
- 5.3 Each Party indemnifies the other Party and its personnel against any action, claim, loss, liability, cost or expense (including all legal costs and expense) that may be brought against or suffered or incurred by any of them arising from a claim by a third party that use of the first Party's Intellectual Property Rights as permitted under this Agreement infringes the rights of that third party.
- 5.4 The indemnity in Clause 5.3 is the only remedy and form of compensation available to a Party in respect of any breach of Intellectual Property Rights relating to the Video Call Interconnection Service.

## 6 CONFIDENTIALITY

- 6.1 Each Party agrees to keep and procure to be kept secret all written and/or oral information of any kind ("*Confidential Information*") obtained from the other Party pursuant to this Agreement.
- 6.2 Each Party shall not at any time divulge, disclose or otherwise furnish to any third Party any information relating to the affairs or business of the other Party.
- 6.3 Each Party shall reveal the Confidential Information only to its employees, agents, contractors, consultants or Affiliates to whom disclosure is necessary for each of them to perform his duties for this purpose of this Agreement. Each Party shall require the above obligation of confidentiality from the foregoing persons to whom the Confidential Information was disclosed.
- 6.4 The foregoing obligations shall not apply, however, to any part of the Confidential Information which:-
- (a) was already known to the receiving Party prior to receipt thereof;

- (b) was already in the public domain or becomes so through no fault of the recipient Party;
- (c) was acquired by the receiving Party from a third party having the right to convey the Confidential Information to the receiving Party without any obligation of confidentiality not to disclose the same;
- (d) is independently developed by the receiving Party;
- (e) is approved for release by prior written authorization of the disclosing Party;
- (f) is required to be disclosed by law, pursuant to a juridical order or request made by a government authority or a stock exchange pursuant to its listing rules, but only to the extent so ordered or required and provided that the receiving Party has given sufficient prior notice to the disclosing Party of the requirement for disclosure to enable the disclosing Party to seek an appropriate protective remedy and the receiving Party shall immediately following disclosure advise the disclosing Party the contents of the disclosure made.

6.5 Subject to the provision in Clause 6.4 above, these obligations of confidentiality shall survive after the termination of this Agreement.

6.6 The terms of this Agreement shall remain private and confidential between the Parties and neither Party shall, without the prior written consent of the other Party, divulge to any third Party (other than professional or financial advisers of either Party) or use for any purpose other than for the performance of its obligations under this Agreement, any information concerning this Agreement save for the purpose of any filing of information with or requirement of government bodies under statutory requirements, or a stock exchange in which either Party's shares are traded.

6.7 Upon the execution of this Agreement, the obligations of confidentiality herein shall supercede any non-disclosure agreements previously entered into by the Parties. The Parties agree that they shall continue to be bound by the obligations of confidentiality under the terms of the aforementioned non-disclosure agreements for all confidential information disclosed prior to the execution of this Agreement for the term stipulated in Clause 6.5.

## 7 TERM

7.1 This Agreement shall commence from the date hereof and continue in force until terminated in accordance with Clause 9 or superceded by a new agreement in respect of the same subject-matter herein.

## 8 SUSPENSION OF SERVICE

8.1 A Party ("*Suspending Party*") may suspend the Video Call Interconnection Service or its Inter-Operator Video Call Service, or any part thereof, by giving the other Party Business Days written notice if in its reasonable opinion:-

- (a) the other Party's network facility has an adverse effect on the efficient operation of the Suspending Party's network facility and the other Party has failed to rectify the



material adverse effect before the end of the Business Days written notice;

- (b) the other Party is in breach or likely to be in breach of any of its obligations herein;  
or
  - (c) the other Party attempted to use, is likely to use, or has used the Video Call Interconnection Service in contravention of any Applicable Laws or in non-conformity with any part of the Technical Specifications or applicable standards or guidelines, whether with or without the authorisation or permission of the Suspending Party.
- 8.2 In relation to the following events, the Suspending Party may suspend the Video Call Interconnection Service or its Inter-Operator Video Call Service, or any part thereof immediately with written notice, if in its reasonable opinion:
- (a) the Video Call Interconnection Service or the Inter-Operator Video Call Service poses a threat to the life or safety of any person, a hazard to equipment or the property of any person, including the Suspending Party; or an imminent threat to the normal operation, access, integrity or security of the Suspending Party's network facility or any third party's network facility;
  - (b) the other Party is experiencing or is likely to experience the events referred to in Clause 9.2(b);
  - (c) there is an emergency situation that in the Suspending Party's reasonable opinion requires the suspension of the Video Call Interconnection Service or its Inter-Operator Video Call Service;
  - (d) the continued provision of the Video Call Interconnection Service or its Inter-Operator Video Call Service would be unlawful; or
  - (e) the suspension is pursuant to a lawful governmental or regulatory direction.
- 8.3 The right of suspension under Clauses 8.1 and 8.2 shall be subject to the following:-
- (a) A Party may only suspend the Video Call Interconnection Service or its Inter-Operator Video Call Service to the extent reasonably necessary to address the relevant event; and
  - (b) The Suspending Party shall restore the suspended Video Call Interconnection Service or Inter-Operator Video Call Service as soon as it is practicable after the relevant event has been addressed.
- 8.4 The suspension of services pursuant to Clauses 8.1 and 8.2 shall not affect the payment obligations for any outstanding charges or the charges for the unaffected parts of the Video Call Interconnection Service.
- 8.5 Without prejudice to either Party's rights and/or obligations under any applicable directions, statements, orders, codes of practice and instruments issued by OFTA, either Party may in good faith refuse to:-

- (a) terminate any Video Calls that are intended for any of its Customers if, in its reasonable belief, the said Video Calls constitute an Unsolicited Promotional Video Call;
- (b) originate any Video Calls by any of its Customers that are intended to terminate at the other Party's network facility or terminate any Video Calls originating from the other Party's network facility that are intended for any of its Customers if, in its reasonable belief, the said Video Calls constitute a Commercial Video Call.

For the avoidance of doubt, nothing in this Agreement shall restrict any of the Party's rights under their service agreement with their Customers.

- 8.6 A Party's exercise of its right to suspend any Video Call Interconnection Service and its Inter-Operator Video Call Service shall be without prejudice to any other right or remedy available to that Party, including any right to terminate this Agreement.

**9 TERMINATION**

9.1 Without cause

Either Party may terminate this Agreement at any time without cause by giving to the other Party written notice to that effect.

9.2 With cause

Either Party shall have the right to terminate this Agreement forthwith at any time by giving to the other Party written notice to that effect in any of the following events:

- (a) if the other Party is in breach of any of its obligations hereunder and fails to remedy such breach (if capable of remedy) within days of receiving a written notice to do so;
- (b) if the other Party is unable to pay its debt as they fall due or is subject to the law as to insolvency and/or bankruptcy or makes any arrangements or composition with its creditors or has a Receiver appointed or enters into liquidation (other than a voluntary liquidation for the purpose of solvent reconstruction or amalgamation);
- (c) any license, consent or approval required in connection with its 3G Mobile Services is revoked, withdrawn, suspended or expires (without a replacement license being granted immediately) which will make it unlawful to provide Video Call Service to its Customers.
- (d) if the Video Call Interconnection Service or a Party's Inter-Operator Video Call Service is suspended under Clause 8 for more than Business Days and if the relevant event for the suspension continue to exist at the time, then either Party may terminate this Agreement with immediate effect by giving the other Party written notice.

- 9.3 Termination of this Agreement shall not relieve either Party of any liability for breach of this Agreement or as may otherwise be established or affect the rights of the Parties which accrued prior to the date of termination.

**10 LIMITATION AND EXCLUSION OF LIABILITY**

- 10.1 Save for a breach of Clause 5 or Clause 6 herein, under no circumstances (including negligence or breach of statutory duty) shall either Party be liable to the other Party or to any other person, body of persons or corporation for any indirect or consequential loss including but not limited to loss of revenue, business or profits suffered or alleged to have been suffered by the other Party or any other party or any other person, body of persons or corporation resulting from any reason or cause whatsoever under this Agreement.
- 10.2 Save for a breach of Clause 5 or Clause 6 herein, each Party's aggregate liability under this Agreement or in respect of the performance of any obligations thereof shall be limited to HK\$50 million.

**11. INSURANCE**

- 11.1 Each Party shall at all times during the term of this Agreement, effect and maintain at its own expense with a reputable insurance company the following insurance policies:-
- (a) third party insurance covering the legal liability of the Party for injury to persons or loss or damage to property to the value of \_\_\_\_\_ in respect of each claim;
  - (b) public liability insurance for \_\_\_\_\_ in respect of each claim; and
  - (c) property insurance in respect of the Party's network facility (whether owned by it or not) to the value of \_\_\_\_\_.
- 11.2 Upon request, the requested Party shall produce evidence of its compliance with Clause 11.1.

**12 APPLICABLE LAW AND SETTLEMENT OF DISPUTE**

- 12.1 The validity and interpretation of this Agreement shall be governed in all respects by the laws of the Hong Kong Special Administrative Region. Save for the alternative dispute resolution procedures set out herein, the Parties shall submit to the exclusive jurisdiction of the courts of the Hong Kong Special Administrative Region for settlement on any dispute.

**13 NO PARTNERSHIP**

- 13.1 Nothing in this Agreement shall constitute or be deemed to constitute a partnership between the Parties hereto or constitute or be deemed to constitute that one Party act as an agent of the other for any purpose whatsoever and neither Party shall have the authority or power to bind the other or create a liability against the other in any way or for any purpose.

**14 ASSIGNMENT**

- 14.1 Neither Party shall assign, transfer, convey, license or otherwise dispose of, wholly or partially, the rights and obligations under this Agreement except with the prior written

consent of the other Party (such consent not to be unreasonably withheld).

- 14.2 Notwithstanding the provisions of Clause 14.1, in the event of an assignment being made as a result of a reconstruction, reorganisation or merger within the group of companies of either Party, the consent of the other Party to the assignment is not necessary. Prior notification of any such assignment shall be given.

**15 ENTIRE UNDERSTANDING**

- 15.1 This Agreement embodies the entire understanding between the Parties in relation to the subject matter hereof and there are no promises, terms, conditions or obligations, oral or written expressed or implied other than those contained herein. No amendment or variation of this Agreement shall be effective unless it is in writing and signed by the Parties hereto.

**16 NOTICES**

- 16.1 Any notice required to be given hereunder shall be in writing and shall be deemed to have been sufficiently given if (i) delivered personally, (ii) transmitted by facsimile or (iii) sent by registered post to the principal or registered office of the Party to whom the notice is to be served.

- 16.2 All notices and other communications shall be effective on (i) the date of receipt if delivered personally, (ii) the date of acknowledgement of receipt of the registered letter containing the notice by the addressee if delivered by registered post, or (iii) the date of transmission if transmitted by facsimile (printed transmission report to the correct fax number being evidence of such delivery), whichever shall first occur.

- 16.3 Notwithstanding Clause 16.1, the Parties may agree to other forms of communication of notices in respect of technical and operational matters required pursuant to the performance of this Agreement.

**17 SEVERABILITY**

- 17.1 If any provision of this Agreement shall be construed to be illegal or invalid, they shall not affect the legality validity and enforceability of the other provisions of this Agreement. The illegal or invalid provision shall be deleted from this Agreement and no longer incorporated herein but all other provisions of this Agreement shall continue.

**18 HEADINGS**

- 18.1 The headings of the Clauses or paragraphs contained herein are for convenience only and do not define, limit, describe or constitute the contents of such paragraphs.

**19 INCONSISTENCY**

- 19.1 In the event of any inconsistency between these terms and conditions and any Annex , the provision of these terms and conditions shall prevail.

IN WITNESS WHEREOF the Parties hereto have executed this Agreement on the day and year first above written.

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Schedule 1**Technical Specifications****Introduction**

At the time of interconnection commencement, there is no regulatory standard from OFTA regarding the specifications for mobile network-to-network connection for video call services. There is not such a standard stipulating the detailed network interconnect requirement for mobile video calls as well.

Without any standard reference, the technical specification here is based on Issue 3 of HKTA 2202 specification for Network-to-Network Connection of the Public Telecommunications Networks using Signalling System No. 7 (C7), with additional description below which has been identified during the interconnection test between

**Specification for video call interconnection****2.1 Signaling parameters****▪ Call handling**

For video call, the used bearer must be "64k unrestricted digital information" (UDI) which is also an essential requirement of transit exchange to support this type of transmission requirement

**▪ ISDN-BC**

To allow the requested Bearer Capability from UE to be carried to terminating UE, the BC from originating UE should be properly mapped to ISDN-BC in USI.

**▪ ISDN-LLC**

The LLC information from mobile network should be transferred to ISDN-LLC properly.

**2.2 Signaling message**

Below is the list of key messages (with parameters) that would be used for video call setup. The originating and terminating MSC are required to support these messages and parameters highlighted in grey according to the interconnection test results between

\* For those parameters definition, please refer to ITU (12/99) Q.762-764 standard.

- IAM "Initial Address"

Table 32/Q.763

Message Type: Initial address

Parameter	Reference (subclause)	Type	Length (octets)	Value (Hex)
Message type	2.1	F	1	
Nature of connection indicators	3.35	F	1	
Forward call indicators	3.23	F	2	
Calling party's category	3.11	F	1	
Transmission medium requirement	3.54	F	1	
Called party number (Note 2)	3.9	V	4-?	
Transit network selection (national use)	3.53	O	4-?	
Call reference (national use)	3.8	O	7	
Calling party number (Note 2)	3.10	O	4-?	
Optional forward call indicators	3.38	O	3	
Redirecting number (Note 2)	3.44	O	4-?	
Redirection information	3.45	O	3-4	
Closed user group interlock code	3.15	O	6	
Connection request	3.17	O	7-9	
Original called number (Note 2)	3.39	O	4-?	
User-to-user information	3.61	O	3-131	
Access transport	3.3	O	3-?	
User service information	3.57	O	4-13	
User-to-user indicators	3.60	O	3	
Generic number (Notes 1 and 2)	3.26	O	5-?	
Propagation delay counter	3.42	O	4	
User service information prime	3.58	O	4-13	
Network specific facility (national use)	3.36	O	4-?	
Generic digit (national use) (Note 1)	3.24	O	4-?	
Origination ISC point code	3.40	O	4	
User teleservice information	3.59	O	4-5	
Remote operations (national use)	3.48	O	8-?	
Parameter compatibility information	3.41	O	4-?	

Table 32/Q.763

Message Type: Initial address

Parameter	Reference (subclause)	Type	Length (octets)	Value (Hex)
Generic notification indicator (Note 1)	3.25	O	3	
Service activation	3.49	O	3-?	
Generic reference (reserved)	3.27	O	5-?	
MLPP precedence	3.34	O	8	
Transmission medium requirement prime	3.55	O	3	
Location number (Note 2)	3.30	O	4-?	
Forward GVNS	3.66	O	5-26	
CCSS	3.63	O	3-?	
Network management controls	3.68	O	3-?	
Circuit assignment map	3.69	O	6-7	
Correlation id	3.70	O	3-?	
Call diversion treatment indicators	3.72	O	3-?	
Called IN number (Note 2)	3.73	O	4-?	
Call offering treatment indicators	3.74	O	3-?	
Conference treatment indicators	3.76	O	3-?	
SCF id	3.71	O	3-?	
UID capability indicators	3.79	O	3-?	
Echo control information	3.19	O	3	
Hop counter	3.80	O	3	
Collect call request	3.81	O	3	
End of optional parameters	3.20	O	1	
NOTE 1 – This parameter may be repeated.				
NOTE 2 – Peer-to-peer interworking with an earlier version of ISUP may result in format errors and lead to the release of the call.				

\* - means the parameters is likely included in a call request for video call (Aug. 2002)

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• ACM "Address Complete"

Message Type: Address complete

Parameter	Reference (subclause)	Type	Length (octets)	Value (Hex)
Message type	2.1	F	1	
Backward call indicators	3.5	F	2	
Optional backward call indicators	3.37	O	3	
Call reference (national use)	3.8	O	7	
Cause indicators	3.12	O	4-?	
User-to-user indicators	3.60	O	3	
User-to-user information	3.61	O	3-131	
Access transport	3.3	O	3-?	
Generic notification indicator (Note 1)	3.25	O	3	
Transmission medium used	3.56	O	3	
Echo control information	3.19	O	3	
Access delivery information	3.2	O	3	
Redirection number (Note 2)	3.46	O	5-?	
Parameter compatibility information	3.41	O	4-?	
Call diversion information	3.6	O	3	
Network specific facility (national use)	3.36	O	4-?	
Remote operations (national use)	3.48	O	8-?	
Service activation	3.49	O	3-?	
Redirection number restriction indicator	3.47	O	3	
Conference treatment indicators	3.76	O	3-?	
UID action indicators	3.78	O	3-?	
End of optional parameters	3.20	O	1	-

NOTE 1 -- This parameter may be repeated.

NOTE 2 -- Peer-to-peer interworking with an earlier version of ISUP may result in format errors and lead to the release of the call.

\* - means the parameters is likely included in a ACM message for video call (Aug. 2002)

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- ANM "Answer"

Table 22/Q.763

Message Type: Answer

Parameter	Reference (subclause)	Type	Length (octets)	Value (Hex)
Message type	2.1	F	1	
Backward call indicators	3.5	O	4	
Optional backward call indicators	3.37	O	3	
Call reference (national use)	3.8	O	7	
User-to-user indicators	3.60	O	3	
User-to-user information	3.61	O	3-131	
Connected number (Note 2)	3.16	O	4-?	
Access transport	3.3	O	3-?	
Access delivery information	3.2	O	3	
Generic notification indicator (Note 1)	3.25	O	3	
Parameter compatibility information	3.41	O	4-?	
Backward GVNS	3.62	O	3-?	
Call history information	3.7	O	4	
Generic number (Notes 1 and 2)	3.26	O	5-?	
Transmission medium used	3.56	O	3	
Network specific facility (national use)	3.36	O	4-?	
Remote operations (national use)	3.48	O	8-?	
Redirection number (Note 2)	3.46	O	5-?	
Service activation	3.49	O	3-?	
Echo control information	3.19	O	3	
Redirection number restriction indicator	3.47	O	3	
Display information	3.77	O	3-?	
End of optional parameters	3.20	O	1	-

NOTE 1 – This parameter may be repeated.  
 NOTE 2 – Peer-to-peer interworking with an earlier version of ISUP may result in format errors and lead to the release of the call.

\* - means the parameters is likely included in an answer message for video call (Aug. 2002)

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- CPG "Call Progress"

Table 23/Q.763

Message Type: Call progress

Parameter	Reference (subclause)	Type	Length (octets)	Value (Hex)
Message type	2.1	F	1	
Event information	3.21	F	1	
Cause indicators	3.12	O	4-?	
Call reference (national use)	3.8	O	7	
Backward call indicators	3.5	O	4	
Optional backward call indicators	3.37	O	3	
Access transport	3.3	O	3-?	
User-to-user indicators	3.60	O	3	
Redirection number (Note 2)	3.46	O	5-?	
User-to-user information	3.61	O	3-131	
Generic notification indicator (Note 1)	3.25	O	3	
Network specific facility (national use)	3.36	O	4-?	
Remote operations (national use)	3.48	O	8-?	
Transmission medium used	3.56	O	3	
Access delivery information	3.2	O	3	
Parameter compatibility Information	3.41	O	4-?	
Call diversion information	3.6	O	3	
Service activation	3.49	O	3-?	
Redirection number restriction indicator	3.47	O	3	
Call transfer number (Note 2)	3.64	O	4-?	
Echo control information	3.19	O	3	
Connected number (Note 2)	3.16	O	4-?	
Backward GVNS	3.62	O	3-?	
Generic number (Notes 1 and 2)	3.26	O	5-?	
Call history information	3.7	O	4	
Conference treatment indicators	3.76	O	3-?	
UID action indicators	3.78	O	3-?	
End of optional parameters	3.20	O	1	-

NOTE 1 – This parameter may be repeated.

NOTE 2 – Peer-to-peer interworking with an earlier version of ISUP may result in format errors and lead to the release of the call.

- \* - means the parameters is likely included in a CPG message for video call (Aug. 2002)
- # - means the parameters that is needed to support in later stage (1Q 2003)

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**2.3 Release Cause code**

Below are the failed call scenario with the corresponding release codes specified, that shall be followed by the interconnect MNO.

Scenario	Release Cause
Called subscriber roamed to 2G	
Call subscriber with no video service subscription	39(hex) Bearer cap not authorized
Call subscriber has call bar activated	15(hex) Call Rejected
Call subscriber is busy	11(hex) Busy
Call subscriber does not answer	13(hex) No answer from user
Call subscriber is not reachable	12(hex) No user responding
Call subscriber is detach	12(hex) No user responding
Call subscriber is unknown	1(hex) Unallocated number

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Schedule 2

## Charges, Billings and Settlements

1 CHARGES

- 1.1 A Party shall only be entitled to charge the other Party on the positive balance of the net-off conversation minutes of the Inter-Operator Video Call Service based on the Video Call Interconnection Service Charge set out in clause 1.3 of this Schedule 2. The net-off Video Call conversation minutes of the Inter-Operator Video Call Service is determined based on the following:

The monthly total Video Call conversation minutes terminating at that Party's network facility LESS the monthly total Video Call conversation minutes originating from that Party's network facility

- 1.2 The Party with a positive balance of the net-off conversation minutes ("**Billing Party**") shall bill the other Party ("**Paying Party**") in accordance with Clause 2 of this Schedule 2.

- 1.3 The Billing Party shall charge the Paying Party for the net-off conversation minutes based on the Video Call Interconnection Service Charge set out below:-

- (a) Subject to the volume discounts in paragraphs (b) and (c) below, each Video Call conversation minute (rounded up to the nearest minute for each Video Call) shall be chargeable at HK\$3;
- (b) If the volume of combined voice and Video Call traffic terminating at the Billing Party's network facility exceeds 4 million conversation minutes per month but is less than 8 million conversation minutes per month, each Video Call conversation minute (rounded up to the nearest minute for each Video Call) shall be chargeable at HK\$2;
- (c) If the volume of combined voice and Video Call traffic terminating at the Billing Party's network facility is 8 million conversation minutes or more per month, each Video Call conversation minute (rounded up to the nearest minute for each Video Call) shall be chargeable at HK\$1.

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- 1.4 For the purposes of calculating the combined voice and Video Call traffic under clause 1.3 (b) and (c) of this Schedule 2, the Parties agree to the following:-
- (a) the voice call traffic terminating at the Billing Party's network facility shall include all voice call traffic originating from all mobile telecommunications network of the Paying Party including its 3G, CDMA, GSM and PCS networks, if applicable;
  - (b) for the purposes of calculating combined voice and Video Call traffic under clause 1.3 (b) and (c) of this Schedule 2 terminating at network facility, agrees that it shall include the voice call traffic originating from the mobile telecommunications networks of
  - (c) the calculation of the combined terminating voice and Video Call traffic shall exclude all Commercial Video Calls.
- 1.5 All Commercial Video Calls shall be subject to a separate interconnection charge and terms of interconnection to be agreed in writing by the Parties.

## 2 BILLINGS & SETTLEMENTS

- 2.1 The Billing Party shall invoice the Paying Party no later than the of each calendar month ("*Invoice Date*") for the net-off Video Call conversation minutes for the immediate preceding month. The Paying Party shall settle the undisputed portion of the invoices within after the receipt of the invoice ("*Due Date*").
- 2.2 If payment is not received by the Billing Party by the Due Date, the Billing Party may at its sole discretion charge interest on the undisputed amount outstanding from the Due Date at the rate of over the prevailing prime rate of the Hongkong & Shanghai Banking Corporation in Hong Kong until payment of the undisputed amount is made.
- 2.3 Each Party agrees that discrepancies for the Video Call traffic arising from a monthly invoice shall not be disputed if the aggregate discrepancy is less than HK\$1,000 or 1% of the total net amount of the total charge payable by the Paying Party or due to the Billing Party, whichever amount is higher. Subject to the previous sentence, a Party may set-off any undisputed amounts payable pursuant to this Agreement against any amount which it is owed by the other Party under this Agreement.
- 2.4 For the avoidance of doubt, the Parties acknowledge that each Party is responsible for billing, and collecting its charges from, its own customers for the services it provides to them including, in its capacity as an Originating Operator, for services supplied to its Customers using the Video Call Service, except where the Parties expressly agree otherwise in writing.

### 3 DISPUTE AND DISPUTE RESOLUTION

- 3.1 The Parties agree to settle any dispute in respect of a Billing Dispute or a General Dispute in accordance with the procedures set out in this clause 3 of this Schedule 2.
- 3.2 If either Party wishes to raise a Billing Dispute, it must notify the other Party before the Due Date ("*Dispute Notification Date*") in writing specifying the invoice in dispute, the amount in dispute and the reasons and facts for the dispute, after which the Party raising the dispute may withhold payment of the disputed amount. Notwithstanding any dispute with respect to a monthly invoice, the Party raising the dispute shall remain obligated to pay the undisputed portion of the invoiced amount in accordance with clause 2 of this Schedule 2.
- 3.3 The Parties must use their commercially reasonable endeavors to investigate and resolve a Billing Dispute no later than \_\_\_\_\_ from the Dispute Notification Date.
- 3.4 If a General Dispute arises between the Parties, then either Party may by written notice to the other Party refer the General Dispute to the dispute officer of each Party to resolve the General Dispute.
- 3.5 If the General Dispute remains unresolved \_\_\_\_\_ after referral to the dispute officers under clause 3.4 of this Schedule 2, then either Party may by written notice to the other Party, refer the dispute to the Chief Executive Officer of each Party, or a nominee of the Chief Executive Officer, who must confer and endeavour in good faith and on a "without prejudice" basis to resolve the General Dispute by negotiating a commercial settlement.
- 3.6 If the Billing Dispute or General Dispute cannot be resolved within \_\_\_\_\_ from the notification date of the dispute or any other period of time agreed by both Parties, then either Party may refer the matter to arbitration in accordance with the Arbitration Ordinance.
- 3.7 If the Parties are unable to agree on the appointment of an arbitrator, an arbitrator shall be appointed by the President for the time being of the Law Society of Hong Kong.
- 3.8 A decision of the arbitrator will be binding on the Parties except in the event of manifest error or mistake of law. Any amount determined as payable after dispute becomes an undisputed amount.
- 3.9 The costs of the arbitration shall be shared by both Parties equally unless the arbitrator determines that one of the Parties was manifestly unreasonable in respect of the dispute.

3.10 The Billing Party shall send a supplementary invoice setting out the correct outstanding amount upon the settlement of the dispute (if any). The Paying Party shall settle this invoice within     days from the date of receipt of such invoice.

3.11 In this Schedule:

*Billing Dispute* means any dispute about whether an invoice issued by a Billing Party contains any errors.

*General Dispute* means any dispute, other than a Billing Dispute, arising between the Parties in respect of this Agreement.

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Schedule 3

**Operational and Maintenance Procedures**

Other than in the case of emergency outages or a planned outage in accordance with this Schedule, the Parties will not intentionally cause an outage of the network facility.

The Parties will each limit to a minimum any planned outages for scheduled maintenance, such as periodic system patch upgrades or preventative maintenance work, that may cause short service interruption to the other. The Parties each agree to carry out such upgrades or maintenance only in low traffic periods. The Parties will each inform the other at least one day in advance of any planned outage.

Nothing in this agreement shall restrict or prevent the Party from carrying out at any time capacity upgrades or enhancements to the network facility that do not cause outages.

**FAULT REPORTING**

From the Commercial Launch Date, the Parties must each provide the contact details of its Network Operations Centre (NOC). This NOC must be staffed 24 hours a day, 365 days a year. Contact details must be ready before the Commercial Launch Date.

On becoming aware of any fault, which fault is potentially generated by the other party, contact will be made via the NOC to report the fault. For any fault being logged by NOC, a fault docket will be issued with a reference number for cross checking until the fault has been cleared. A formal written report will be provided within \_\_\_\_\_ Days.

If the fault causes any equipment of the reporting party to fail and/or affect the service quality of the reporting party, the reporting party is entitled immediately to suspend/disconnect any communications link by which the other party accesses the reporting party's network facility.

Severity Level	Definition	Response Deadline
P1	<ul style="list-style-type: none"> <li>Total service loss of more than</li> </ul>	normally but no longer than _____ in any case
P2	<ul style="list-style-type: none"> <li>Less than _____ of loss of service, or</li> <li>Loss of redundant link connection</li> </ul>	
P3	<ul style="list-style-type: none"> <li>Minor fault which does not affect normal service operations</li> </ul>	

The target resolution times will be agreed between the Parties on a case by case basis.

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Schedule 4

**Format of Forecast Report**

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