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WHOLESALE BITSTREAM ACCESS REFERENCE OFFERING

From

eircom Limited

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Version Control

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Version 3.4b		Addition of NGA FTTC Bitstream Plus Service Schedule 303. eircom changed to open eir	13th November
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This document follows change control procedure:

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- Historical Document History Table located at end of Document.
- Publish means the action of uploading a document to the website regardless of status or location.
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Preface

- 1.1 The Wholesale Bitstream Access Reference Offer, which is presented in the form of a standard contract, deals with specific Bitstream Services which ~~eircom~~ open eir offers to Operators authorised under the Authorisation Regulations, operating in the Irish market.
- 1.2 ~~eircom~~ open eir will not be responsible for the content of data conveyed through its Bitstream Service.
- 1.3 This Wholesale Bitstream Access Reference Offer takes effect from the date approved by the National Regulator and shall continue in effect until superseded by a revised Bitstream Reference Offer.
- 1.4 ~~eircom~~ open eir reserves the right to review and to revise this Wholesale Bitstream Access Reference Offer on a regular basis. Further, ~~eircom~~ open eir shall review and revise this Reference Offer when required to do so by the National Regulator acting in exercise of the powers conferred on by it by the Access Regulations. The National Regulator may also exercise its powers conferred by the Access Regulations in respect of compliance with the treatment of information exchanged between parties in respect of this Reference Offer.
- 1.5 Any revision of the terms of this Wholesale Bitstream Access Reference Offer shall be subject to the approval of the National Regulator. Once approved by the National Regulator, the revised Bitstream Reference Offer shall replace or amend this Wholesale Bitstream Access Reference Offer. Such revised or amended Wholesale Bitstream Access Reference Offer shall be published within one (1) week of its approval by the National Regulator. The implementation of such changes shall be subject to Clause 23 of this Agreement.
- 1.6 Without prejudice to the paragraph 1.5 above, where appropriate, ~~eircom~~ open eir will consult with industry prior to the submission of revisions to the National Regulator.



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- 1.7 References to legislative provisions herein are to be construed as references to such provisions as the same may be amended from time to time.



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**STANDARD
BITSTREAM
AGREEMENT**

DATED

Between

Operator Name

And

eircom Limited

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This Bitstream AGREEMENT (hereinafter "Agreement" or "Bitstream Agreement")

is made on [Date] between [Operator Name] having its registered office at the [Operator Address] (hereinafter referred to as "the Operator" or "Operator")

and

eircom Limited having its ~~Branch-branch Address-address~~ at 1 Heuston South Quarter, St. John's Road,

Dublin 8, (hereinafter referred to as "~~eircom~~open eir")

1. Introduction

WHEREAS

- A. The Operator is authorised under the Authorisation Regulations to provide an electronic communication network or electronic communication service in Ireland.
- B. ~~eircom~~open eir is required to comply with obligations imposed in accordance with Regulations 5.6, 5.7 and 9 – 14 of the Access Regulations.
- C. The Parties entering into this Bitstream Agreement recognise the necessity of effective provision of quality telecommunications services to their respective customers and that accordingly:
 - (a) the Parties should exchange technical information willingly in order to make the provision of Bitstream Services effective, without prejudice to commercial confidentiality;
 - (b) the Parties should at all times act so as to facilitate the speedy and effective operation of this Bitstream Agreement, to the benefit of customers and to their mutual advantage;



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- (c) in implementing services and facilities under this Bitstream Agreement, both Parties should endeavour to minimise the attendant costs, provided that this does not result in additional cost attribution to other products and services provided by either Party and is consistent with agreed quality standards.

In consideration of the mutual covenant and obligations contained in this Agreement, the Parties **HEREBY AGREE AS FOLLOWS:**

2. Definitions and Interpretation

- 2.1 In this Bitstream Agreement, except if the context requires otherwise, words and expressions are as defined in Annex A or the relevant Annex C Service Schedule.
- 2.2 References to Acts, Statutory Instruments and other legislation including European Community legislation are to such legislation as amended from time to time, any legislation of which it is a re-enactment and also includes any sub-ordinate legislation made from time to time under that legislation.
- 2.3 Terms defined in relevant European Union legislation concerning the provision of electronic communications networks and/or services or in consequent Irish implementing legislation (which, for the avoidance of doubt includes Decisions published by the National Regulator) shall, where used in this Agreement, have the meanings ascribed to them in such legislation.
- 2.4 The following documents form part of this Bitstream Agreement and, in the event of any inconsistencies between them, the order of precedence shall (unless expressly stated to the contrary) be as follows:

- 1. Main body of Bitstream Agreement including;

Annex A Definitions



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Annex B Billing and Payments

Annex C Service Schedules

2. Product Descriptions

3. ~~eircom~~ open eir Bitstream Price List

4. Service Level Agreements

5. Forms – Billing and Order forms when submitted

As same may be amended from time to time pursuant to the terms of this Agreement.

3. Commencement and Duration

3.1 This Agreement takes effect on the date hereof and shall continue until:

3.1.1 the Operator ceases to be authorised to provide an electronic communications network or electronic communications service, pursuant to the provision of the Authorisation Regulations; or,

3.1.2 Termination pursuant to this Agreement.

4. Bitstream Services and General Requirements

4.1 The Service Schedules attached at Annex C provide detail on the services, which ~~eircom~~ open eir will provide under this Agreement. Any variation to the terms of this Clause will be expressly stated in the respective Service Schedule.

4.2 The Operator shall not use the Bitstream Services or allow or permit any Customer to use the Operator Service:

4.2.1 other than in accordance with all applicable laws, including, but not limited to, the terms of any licence applicable to the Operator or the



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Customer (as applicable), data privacy laws, the laws of copyright and intellectual property rights;

4.2.2 in any way that contravenes the criminal law or to export or re-export any material in violation of any applicable export control laws and regulations;

4.2.3 Other than in accordance with the acceptable usage policies of any connected networks;

4.2.4 other than in accordance with any instructions and/or notice given by ~~eircom~~ open eir

4.2.5 other than in accordance with the provisions of the applicable product description as specified in each Annex C Service Schedule.

4.3 The Operator shall include and maintain in its contracts with Customers provisions which are no less onerous than those contained in this Agreement. The Operator shall be responsible for the enforcement of all such provisions with Customers.

4.4 The Operator acknowledges and agrees that it is the Operator's sole responsibility to ensure that, insofar as is required by national legislation, any Operator Material and third party material complies with all applicable laws and regulations. The Operator further acknowledges and agrees that ~~eircom~~ open eir has no responsibility in relation to any such Operator Material or third party material.

4.5 Due to ~~eircom's~~ open eir's Universal Service Obligations, the Operator shall use its reasonable endeavours to ensure the continuing integrity of ~~eircom~~



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open eir voice services during installation and operation of the IP Service. If during the term of this Agreement ~~eircom's~~open eir's Universal Service Obligation is affected or degraded the Operator will use its best endeavours to work with ~~eircom~~open eir to resolve the matter and shall comply with all established current industry processes.

4.6 The Operator shall indemnify eircom, its employees, servants and agents in full on demand against any liability, loss, cost, damage and expense (including but not limited to reasonable legal fees) incurred by it and arising directly or indirectly from any claim or proceeding instituted or threatened against ~~eircom~~open eir by a third party alleging that:

4.6.1 the Service has been used in breach of the provisions of Clause 4.2; or

4.6.2 resulting from the Operator's installation of any equipment relating to the Bitstream Services; or

4.6.3 the Operator Service is faulty or cannot be used by that third party; or

4.6.4 The Operator's failure to comply with the terms of Clause 2.7 which disrupts and/or interferes with ~~eircom's~~open eir's ability to fulfil its Universal Service Obligations.

4.6.5 In order for ~~eircom~~open eir to recover from the Gaining Operator under the Indemnity, ~~eircom~~open eir shall:



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- (a) Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation;
- (b) Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
- (c) Allow the Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses; and
- (d) Provide all reasonable assistance to the Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

5. Charging for Bitstream Services

5.1 The charging structure and charging levels applicable to each Service Schedule are as published in the ~~eircom~~open eir Bitstream Price List on the ~~eircom~~open eir website. Any change to these prices will be subject to the Publication Requirements.

6. New Services

6.1 The Operator (Requesting Party) may, at any time, request from ~~eircom~~open eir Requested Party) to avail of a service or facility which the Requested Party

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does not already make available. The Requesting Party and the Requested Party shall enter into negotiations in good faith for the provision of such service.

- 6.2 The Requesting Party shall provide the Requested Party with a written statement of its requirements. The Requested Party shall acknowledge receipt of such a statement of requirements not later than five (5) Working Days after receipt.
- 6.3 Not later than one (1) month, unless otherwise agreed by the Parties, after receipt of a statement of requirements, the Requested Party shall confirm whether the statement of requirements is sufficient. If not, the Requested Party shall request any further clarification it may reasonably require.
- 6.4 Subject to the Requesting Party's statement of requirements being sufficient, the Requested Party shall confirm in writing whether it agrees to provide the service described in the statement of requirements not later than two (2) months after the receipt of the statement of requirements unless otherwise agreed by the Parties. Where the Requested Party declines to meet any such request it will give written reasons for its decision at the time of refusal.
- 6.5 If the Requested Party agrees to provide the new service, the Requested Party shall endeavour to agree the technical and commercial aspects of the new Bitstream Service within seventy five (75) calendar days after receipt of the statement of requirements unless otherwise agreed by the Parties. The agreed technical and commercial terms will be incorporated into a revision to this Wholesale Bitstream Access Reference Offer and submitted to the National Regulator for approval in accordance with the Publication Requirements. ~~eircm-open eir~~ will automatically develop a Service Level Agreement for the new Bitstream Services where appropriate.
- 6.6 If the Requested Party does not agree to provide the service described in the statement of requirements on the ground that the obligations imposed on the Requested Party pursuant to Regulations 9-14 of the Access Regulations do not include an obligation to provide such a service, a Dispute may be deemed



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to have arisen between the Parties and the Parties may invoke the provisions of clause 11 hereof. Negotiations to agree agreeable terms may nevertheless continue pending resolution of the Dispute.

6.7 ~~eircom~~-open eir shall offer new Bitstream Services to all operators and provide notice in accordance with the Publication Requirements.

7. Billing and Payment

7.1 ~~eircom~~-open eir shall bill the Operator and the Operator shall remit payment to ~~eircom~~-open eir in accordance with the provisions outlined in Annex B.

7.2 The charges in this Bitstream Agreement are exclusive of VAT. However VAT will be charged on invoices resulting from this Bitstream Agreement.

7.3 Invoices are due and payable in Euro. Invoices are payable within thirty (30) calendar days from the date of issue of the invoice.

7.4 ~~eircom~~-open eir shall provide invoices of all amounts due to it, calculated in accordance with the provisions of the Services Schedules in Annex C hereof and the ~~eircom~~-open eir Bitstream Price List.

8. Network Safety and Protection

8.1 Each Party is responsible for the safe operation of its Network and shall take all reasonable and necessary steps in its operation and implementation of this Bitstream Agreement to ensure that its Network does not:

8.1.1 endanger the safety or health of employees, contractors, agents or customers of the other Party; or

8.1.2 damage, interfere with or cause any deterioration in the operation of the other Party's Network.

8.2 Neither Party shall connect or knowingly permit the connection to its



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Network of any equipment or apparatus, including, but not limited, to any terminal equipment that is not approved by the relevant approvals authority for attachment to its Network.

9. Provisioning, Operation and Maintenance

- 9.1 The procedures for the provisioning of the Bitstream Services as well as for the continued operation and maintenance thereof shall be as set out in the Service Schedules and the associated Product Descriptions, Process Manuals and Service Level Agreements.

10. Resolution of Disputes

- 10.1 Each Party shall use its reasonable endeavours to resolve any Disputes between them concerning the implementation, application or interpretation of this Bitstream Agreement, including those covered by Annex B, in the first instance through negotiation between the parties through the normal contacts, hereinafter referred to as Level 1.
- 10.2 In the event of the Parties failing to resolve the dispute at Level 1 Negotiation within two (2) weeks either Party shall have a right to invoke the dispute procedures specified herein on the service of notice to that effect upon the other Party. The Party serving the notice (the Disputing Party) shall include with such notice all relevant details including the nature and extent of the Dispute.
- 10.3 Upon service of such notice the Dispute shall be escalated to Level 2. The parties shall consult at Level 2 in good faith to endeavour to resolve the Dispute.
- 10.4 If the endeavours of the parties to resolve the Dispute at Level 2 are not successful within two (2) weeks of escalation of the Dispute to Level 2, either party may upon service of notice to the other escalate the Dispute for

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determination by the National Regulator in accordance with Regulation 31 and/or Regulation 32 of the Framework Regulations, as appropriate, hereinafter referred to as Level 3. All relevant details with regard to the nature and extent of the Dispute shall be furnished to the National Regulator together with a record of matters which have been agreed or not agreed at Levels 1 and 2.

- 10.5 The name of each Party's liaison contact and representative at each level of consultation shall be as specified in the clause 19. No change to a liaison contact or representative shall be effective until it has been notified to the other Party.
- 10.6 The time limits specified at paragraphs 10.2 and 10.4 above may be extended by mutual agreement between the Parties.
- 10.7 The above procedures are without prejudice to any rights and remedies that may be available to the Parties in respect of any breach of any provision of this Bitstream Agreement.
- 10.8 Nothing herein contained shall prevent a Party from:
- (a) seeking (including obtaining or implementing) interlocutory or other immediate or equivalent relief; or
 - (b) notwithstanding Clause 10.1, automatically referring the dispute to the National Regulator in accordance with Regulation 31 and/or Regulation 32 of the Framework Regulations, as appropriate, without recourse to Level 1 or Level 2 Negotiation in accordance with any right (if any) either Party may have to request a determination or other appropriate steps for its resolution.
- 10.9 Where a dispute arises in relation to an amount payable in respect of an invoice then the Operator shall be entitled to withhold payment of the disputed amount due for payment, upon serving ~~eircm~~ open eir with a Level 1 notice and provided that the disputed amount is greater than ten percent (10%) of



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the total invoice amount due for payment and the written dispute is received by ~~eircom~~ open eir prior to the payment Due Date.

10.10 Where the Operator invokes the provisions of this Clause after the Due Date of a disputed invoice, then the Operator shall not be entitled to withhold any portion of the amount due and payable. The Operator shall be entitled to raise a billing dispute within twenty four (24) months of the end of the disputed billing period.

10.11 In the event either Party identifies an undetected billing error which may have resulted in either under or over billing with twenty four (24) months of the billing period, the Party may raise this matter along with all relevant material and/or information. Upon review and consideration of the available information the Parties may issue a supplemental invoice or credit as appropriate.

10.12 Following resolution of the dispute, the Parties will issue a credit or tender payment as appropriate.

11. Breach, Suspension and Termination

11.1 If the Operator's Network adversely and materially affects the normal operation of the ~~eircom~~ open eir Network, or is a threat to any person's safety, ~~eircom~~ open eir may suspend, to the extent necessary, such of its obligations hereunder, and for such period as it may consider reasonable to ensure the normal operation of its Network or to reduce the threat to safety. Where possible all reasonable efforts to resolve bilaterally shall be made before service is suspended. ~~Eircom~~ Open eir shall contact the Operator's network operation centre and inform the Operator of the suspension, where possible in advance but in any case as soon as possible.

11.2 If either Party is in material breach of this Bitstream Agreement (excluding failure to pay an undisputed sum due hereunder which is subject to Clauses



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11.10 through 11.15, the other Party may serve a written notice (the “breach notice”) on the Party in breach specifying the breach and requiring it to be remedied within:

11.2.1 30 calendar days from the date of receipt of such breach notice; or

11.2.2 in case of emergency (excluding financial obligations) within such shorter period as the Party not in breach may reasonably specify

11.3 If the Party in breach fails to remedy the breach within the period stated in the breach notice, the other Party may terminate this Bitstream Agreement on two weeks’ written notice provided always that if the Party in breach remedies the breach within such two weeks’ notice period, this Bitstream Agreement shall not terminate as a result of such notice.

11.4 This Bitstream Agreement may be terminated by either Party by written notice forthwith (or on the termination of such other period as such notice may specify) if the other Party:

11.4.1 is unable to pay its debts within the meaning of the Companies Acts 1963 - 2001; or

11.4.2 has a Receiver or Examiner appointed or has been subject to an application for the appointment of a Receiver or an Examiner in relation to all or any of its assets or an encumbrancer has taken possession of all or a material part of its assets; or

11.4.3 has an order made or a resolution passed for its winding up (other than for the purpose of amalgamation or reconstruction); or

11.4.4 enters into a voluntary arrangement with creditors under the Companies Acts 1963 - 2001; or

11.4.5 ceases to carry on business.

11.5 In the event the Parties fail to reach agreement on a matter arising pursuant to Clause 15.1.2 where the material change removes a regulatory obligation(s) from ~~eircom-open eir~~ in accordance with the terms of Clause 15,

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~~eircom-open eir~~ shall be entitled to issue a termination notice to take effect in thirty (30) days in respect of that portion of the Agreement (or Bitstream Service(s)) which relates to the removal of the regulatory obligation. Any termination notice pursuant to this Clause shall not be issued earlier than three (3) months, or such other period as may be agreed between the Parties acting reasonably, from the service of the review notice pursuant to Clause 15.1.2.

- 11.6 The Operator may terminate this agreement at any time by giving ~~eircom~~ open eir not less than twelve (12) months written notice.
- 11.7 Without prejudice to ~~eircom's~~ open eir's rights upon termination of this Bitstream Agreement, ~~eircom-open eir~~ shall refund to the Operator a fair and equitable proportion of those periodic sums (if any) paid under this Bitstream Agreement for any period extending beyond the date of such termination.
- 11.8 Termination of this Bitstream Agreement shall not be deemed a waiver of a breach of any term or condition of this Bitstream Agreement and shall be without prejudice to a Party's rights, liabilities or obligations that have accrued prior to such termination.
- 11.9 Notwithstanding the termination or expiry of this Bitstream Agreement clauses 11.6, 13, 14 and 17 inclusive shall continue in full force and effect for a period of six (6) years from the date of termination unless otherwise agreed by the Parties.
- 11.10 ~~eircom's~~ open eir's right to terminate or suspend performance of this Bitstream Agreement pursuant to this clause 11 is without prejudice to any other rights or remedies available to either Party. In particular nothing contained herein shall prevent a Party who has been served with a breach notice pursuant to clause 11.2 hereof (and who is of the reasonable opinion that no such material breach has occurred) referring the matter to the National Regulator for determination. The Parties shall use their best endeavours to ensure that the National Regulator shall determine the issue as expeditiously as possible after hearing submissions and representations from both Parties. The



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remedies available to the Party alleging a breach under this clause 11 by the other Party shall not be exercised by it pending adjudication on the matter by the National Regulator.

- 11.11 In the event that the Operator fails to remit payment for services under this Agreement in accordance with the provisions of Annex B, Billing and Payment, such failure shall constitute a material breach ("Payment Breach") and ~~eircom~~-open eir shall be entitled to issue a breach notice requiring this breach to be remedied within ten (10) calendar days or such longer time as ~~eircom~~-open eir may deem reasonable under the circumstances save for circumstances governed by sub-clause 11.15.
- 11.12 If the Operator remedies the breach within the period set out in Clause 11.15 ~~eircom~~-open eir shall not terminate the Agreement provided that Clause 11.15 does not apply.
- 11.13 In the event the Operator fails to remedy the Payment Breach within the time provided in the breach notice, ~~eircom~~-open eir may initiate credit vetting as defined in clause 12 of this Agreement. The purpose of this vetting is to establish whether the non-payment is likely to cause a specific financial risk to eircom, due to the financial circumstances of the Operator.
- 11.14 If justified by credit vetting, ~~eircom~~-open eir may request a financial security guarantee following the principles outlined in clause 12.
- 11.15 Failure (within the time specified in Clause 12) or refusal (at any time) by the Operator to provide a financial guarantee shall give ~~eircom~~-open eir the right to terminate the agreement with ten (10) calendar days notice.
- 11.16 If, following the service of three previous breach notices, a Party is in Payment Breach on a fourth occasion during a twenty-four month period, this Agreement may be terminated by ~~eircom~~-open eir by the service of a written notice of termination on the Operator. Termination shall take effect thirty (30) calendar days from the date of issue of the notice. Termination may be



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effected regardless of whether or not the Payment Breach is remedied during this period. The payment obligations survive termination.

12. Credit Assessment and Credit Risk Management

- 12.1 ~~eircom-open eir~~ may carry out credit vetting of a prospective Operator prior to establishing a Bitstream Agreement. The method to be used by ~~eircom-open eir~~ will be communicated to the Operator and will be applied consistently to all Operators.
- 12.2 Should the result of the credit vetting of a prospective Operator confirm that the provision of Bitstream Services poses a financial risk which is greater than can be controlled by a credit limit (which ~~eircom-open eir~~ shall justify), ~~eircom-open eir~~ has the right to request a form of financial security. The level of security requested shall be proportional to the risk involved. The level of security shall take account of factors such as the estimated value of services to be provided, and the projected liability. The financial security may be provided by a means such as bank deposit or guarantee, and ~~eircom-open eir~~ shall not unreasonably refuse to accept any other form of financial guarantee proposed by the Operator. The financial security will be subject to quarterly review during the first year of operation.
- 12.3 ~~eircom-open eir~~ may carry out credit vetting of an existing Operator where ~~eircom-open eir~~ has reasonable concern about the ability of the Operator to cover debts including without limitation where ~~eircom-open eir~~ has evidence of a poor payment history or the Operator's credit rating has been downgraded or threatened to be downgraded. The method to be used will be communicated to the Operator and will be standard to all Operators.
- 12.4 Should the result of credit vetting of an existing Operator confirm the existence of a financial risk, ~~eircom-open eir~~ has the right to request a form of financial security. The level of security requested shall be proportional to the risk involved and shall take due account of historic levels of payments,



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liability, payment frequency and credit terms. The financial security may be provided by a means such as bank deposit or guarantee, and ~~eircom~~ open eir shall not unreasonably refuse to accept any other form of financial guarantee proposed by the Operator. The financial security will be subject to quarterly review and will be removed or reduced where the security or its level is no longer justified. ~~eircom~~ open eir reserves the right to treat failure to provide an agreed security within thirty (30) days (or such longer period as ~~eircom~~ open eir may reasonably allow) of the date of ~~eircom's~~ open eir's request as a breach of this Agreement.

12.5 For avoidance of doubt, any disputes relating to credit vetting and credit management shall be subject to the conditions set out in Clause 12 of this Agreement.

13. Confidentiality

13.1 The Parties agree to treat as confidential all information defined as such in the Non-Disclosure Agreement.

13.2 The contents of this Bitstream Agreement, either in one or more parts or in its entirety, may not be divulged to any Third Party, with the exception of the National Regulator, without the written consent of both Parties.

14. Intellectual property rights

14.1 Except as expressly otherwise provided in this Bitstream Agreement, Intellectual Property Rights shall remain the property of the Party creating or owning the same and nothing in this Bitstream Agreement shall be deemed to confer any assignment or right or title whatsoever or licence of the Intellectual Property Rights of one Party to the other Party, and nothing in this Agreement shall be deemed to restrict the rights of any Party to own, use, enjoy, licence, assign or transfer its own Intellectual Property.

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15. Review

15.1 A Party may seek to amend this Bitstream Agreement by serving on the other a review notice if:

15.1.1 either Party's authorisation is materially modified (whether by amendment or replacement); or

15.1.2 a material change occurs in the law or regulations (including codes of practice whether or not having the force of law) governing electronic communications in Ireland or the EU; or

15.1.3 a material change occurs, including enforcement action by any regulatory authority, which affects or reasonably could be expected to affect the commercial or technical basis of this Bitstream Agreement; or

15.1.4 this Bitstream Agreement is assigned or transferred by the other Party except if prior written consent to the assignment or transfer is not required under Clause 18 hereof.

15.1.5 a Party initiates a general review of the Bitstream Agreement during the three (3) month period commencing on the 1st October in any year.

15.2 A review notice shall set out in reasonable detail the issues to be discussed between the Parties.

15.3 On service of a review notice, the Parties shall forthwith negotiate in good faith the matters to be resolved with a view to agreeing the relevant amendments to this Bitstream Agreement.

15.4 For the avoidance of doubt, the Parties agree that notwithstanding service of a review notice this Bitstream Agreement shall remain in full force and effect.

15.5 Save for a review notice served pursuant to Clause 15.1.2 where the material change removes a regulatory obligation from eircom, if the Parties fail to

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reach agreement on the subject matter of a review notice within 3 calendar months (the relevant period) in each case from the date of service of such review notice, either Party may, not later than one calendar month after the expiration of the relevant period, request in writing the National Regulator to determine:

15.5.1 the matters upon which the Parties have failed to agree;

15.5.2 whether this Bitstream Agreement should be modified to take account of such matters; and, if so

15.5.3 the amendment or amendments to be made.

15.6 The Parties shall enter into an agreement to modify or replace this Bitstream Agreement in accordance with what is agreed between the Parties to conform with the National Regulator's determination.

15.7 Any failure to reach agreement on the subject matter of a review notice pursuant to Clause 15.1.2 where the material change removes a regulatory obligation from ~~eircom~~ open eir shall be subject to Clause 11.5 of this Agreement.

15.8 The Parties may, at any time, agree in writing a variation to the time periods specified above in relation to a particular review notice.

16. Force Majeure

16.1 Neither Party shall be liable to the other Party for any delay in or failure to perform its obligation under this Bitstream Agreement caused by a Force Majeure Event. For such purposes a "Force Majeure Event" means any event beyond the reasonable control of a Party, including act of God, insurrection or civil disorder, war or military operations, national or local emergency, acts or omissions of government, highway authority or other competent authority, compliance with any statutory, regulatory or legal obligation industrial disputes of any kind (whether or not involving either Party's employees), fire, lightning,



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explosion, flood, subsidence, weather of exceptional severity, acts or omission of persons for whom neither Party is responsible or any other cause whether similar or dissimilar outside its reasonable control.

- 16.2 The Party initially affected by a Force Majeure Event shall promptly notify the other of the circumstances in question and their effect on the performance of obligations under this Bitstream Agreement, and the estimated extent and duration of its inability to perform or delay in performing its obligations (“Force Majeure Event notification”).
- 16.3 Upon cessation of the service effects of the Force Majeure Event the Party initially affected by a Force Majeure Event shall promptly notify the other of such cessation.
- 16.4 If as a result of a Force Majeure Event, the performance by the Party, initially affected, of its obligations under this Bitstream Agreement is affected, such Party shall, subject to the provisions of clause 16.6, perform those of its obligations not affected by a Force Majeure Event. In performing those of its obligations not affected by a Force Majeure Event, the Party initially affected by a Force Majeure Event shall deploy its resources such that (when taken together with other obligations to its customers and Third Parties) there is no undue discrimination against the other Party.
- 16.5 Each Party shall use its reasonable endeavours: (i) to avoid or remove the circumstances constituting Force Majeure, and (ii) to mitigate the effect of the Force Majeure as and when it exists.
- 16.6 To the extent that a Party is prevented as a result of a Force Majeure Event from providing all of the services or facilities to be provided under this Bitstream Agreement, the other Party shall be released to the equivalent extent from its obligations to make payment for such services or facilities or complying with its obligations in relation thereto.
- 16.7 Following a Force Majeure Event notification and if the effects of such Force Majeure Event continue for:

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- 16.7.1 a continuous period of not more than 6 months from the date of the force majeure notification (whether or not notice of cessation has been given pursuant to clause 16.3) any obligation outstanding shall be fulfilled by the Party initially affected by the Force Majeure Event as soon as reasonably possible after the effects of the Force Majeure Event have ended, save to the extent that such fulfilment is no longer possible or is not required by the other Party;
- 16.7.2 a continuous period of 6 months or more from the date of the Force Majeure Event notification (and notice of cessation has not been given pursuant to clause 16.3), the Party receiving the Force Majeure Event notification shall be entitled (but not obliged) to terminate this Bitstream Agreement by giving not less than thirty (30) Working Days written notice to the other Party, provided that such notice shall be deemed not to have been given if notice of cessation is received by the Party receiving the force majeure notification prior to the expiry of the thirty (30) Working Days notice. If this Bitstream Agreement is not terminated in accordance with the provisions of this clause 16.6.2, any obligations outstanding shall be fulfilled by the Party initially affected by the force majeure as soon as reasonably possible after the effects of the force majeure have ended, save to the extent that such fulfilment is no longer possible or is not required by the other Party.

17. Limitation of Liability

- 17.1 Neither Party has an obligation of any kind to the other Party beyond an obligation to exercise the reasonable skill and care of a competent electronic communications operator in performing its obligations under this Bitstream Agreement.



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- 17.2 Subject to clause 16.4, if a Party is in breach of any of its obligations under this Bitstream Agreement to the other Party (excluding obligations arising under this Bitstream Agreement to pay moneys in the ordinary course of business), or otherwise (including liability for negligence or breach of statutory duty) such Party's liability to the other shall be limited to one and a quarter million EURO (€1,250,000) for any one event or series of connected events and two and a half million EURO (€2,500,000) for all events (connected or unconnected) in any period of 12 calendar months.
- 17.3 Neither Party shall be liable to the other in contract, tort (including negligence or breach of statutory duty) or otherwise for loss (whether direct or indirect) of profits, business or anticipated savings, wasted expenditure or for any indirect or other consequential loss whatsoever arising in connection with the operation of this Bitstream Agreement, howsoever caused.
- 17.4 Each provision of clause 17 is a separate limitation applying and surviving even if one or more such provisions is inapplicable or held unreasonable in any circumstances.

18. Assignment of Rights and Obligations

- 18.1 Unless otherwise agreed in writing, and subject to clause 18.2, no rights, benefits or obligations under this Bitstream Agreement may be assigned or transferred, in whole or in part, by a Party without the prior written consent of the other Party. Such consent shall not be unreasonably withheld.
- 18.2 No consent is required under clause 18.1 for an assignment of rights, benefits or obligations under this Bitstream Agreement (in whole or in part) to a successor to all or substantially all of the assigning Party's Network to an Associated Company provided that such successor or Associated Company is authorised under the Authorisation Regulations, to operate the Network of the assigning Party.



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18.3 The assigning Party shall promptly give notice to the other Party of any assignment permitted to be made without the other Party's consent. No assignment shall be valid unless the assignee/successor agrees in writing to be bound by the provisions of this Bitstream Agreement.

19. Notices

19.1 A notice shall be duly served if:

19.1.1 delivered by hand, at the time of actual delivery;

19.1.2 sent by facsimile, upon its receipt being confirmed;

19.1.3 sent by recorded delivery post, 4 calendar days after the day of posting.

19.2 Except if otherwise specifically provided all notices and other communications relating to this Bitstream Agreement (Level 1) shall be in writing and shall be sent as follows:

If to the Operator:

Contact, Telephone 01 xxxxxxx

Address, Facsimile 01 yyyyyyy

Address,

Address,

If to ~~eir~~comopen eir:

Wholesale Contracts Manager



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~~eircom Limited~~ open eir

1 Heuston South Quarter

St. John's Road

Dublin 8

Telephone: 01 600 4609

Facsimile: 01 428 6240

or to such other addresses as the Parties may notify from time to time pursuant to this clause 19.

19.3 The level 2 escalation points within the Parties in relation to resolution of disputes shall be as follows;

If to the Operator:

Contact Telephone 01 xxxxxxx

Address, Facsimile 01 yyyyyyy

Address,

Address,

Address,

Address

If to ~~eircom~~ open eir:

Title

~~eircom Limited~~ open eir

1 Heuston South Quarter



Subject to Contract/Contract Denied

St. John's Road

Dublin 8

Telephone: 01 600

Facsimile: 01 428 6240

20. Entire Agreement

20.1 This Bitstream Agreement represents the entire understanding of an agreement between the Parties in relation to the subject matter of this Bitstream Agreement, and, unless otherwise agreed in writing, supersedes all previous understandings, commitments, agreements or representations whatsoever, whether oral or written.

21. Waiver

21.1 The waiver of any breach of, or failure to enforce, any term or condition of this Bitstream Agreement shall not be construed as a waiver of any other term or condition of this Bitstream Agreement. No waiver shall be valid unless it is in writing and signed on behalf of the Party making the waiver.

22. Severability

22.1 The invalidity, unenforceability of any provision of this Bitstream Agreement shall not affect the validity or enforceability of the remaining provisions of this Bitstream Agreement.

23. Amendments

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- 23.1 Any amendments, including price changes, to the ~~eircom~~open eir Bitstream Reference Offer specified by directions, decisions, determinations, specific obligations, obligations, measures and requirements of the National Regulator or other competent regulatory or statutory body, or introduced via the Publication Requirements shall be deemed to be automatically incorporated into this Bitstream Agreement with immediate effect or such alternative date as specified by the National Regulator or such other body .
- 23.2 Notwithstanding Clause 23.1, the automatic incorporation of changes in the Bitstream Agreement shall apply only to the Party subject to the obligations and to extent that the mandating body has jurisdiction to impose such obligations.
- 23.3 All other changes to this Bitstream Agreement shall be in writing and agreed between the parties to become effective and binding upon the Parties, including any amendment to add new Bitstream Services.

24. Relationship of Parties

- 24.1 The relationship between the Parties is that of independent contractors. Nothing in this Bitstream Agreement shall be construed to make either Party hereto an agent, joint venture or partner of or with the other. Neither Party is granted any right of authority or agency, expressly or implicitly, on behalf of, or in the name, of the other, nor any right to legally bind the other in any manner whatsoever. Neither Party shall become liable through any representation, act or omission of the other which is contrary to or unauthorised by the provisions of this Bitstream Agreement.

25. Governing Law

- 25.1 The interpretation, validity and performance of this Bitstream Agreement shall be governed in all respects by the laws of Ireland and the Parties submit to the exclusive jurisdiction of the Irish Courts.



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IN WITNESS WHEREOF THIS AGREEMENT WAS ENTERED INTO THE DAY AND YEAR FIRST ABOVE WRITTEN.

SIGNED for and on behalf of **the Operator**:

[SIGNATURE]

[NAME (BLOCK CAPITALS)]

[POSITION]

[DATE]

SIGNED for and on behalf of **eircomopen eir**:

[SIGNATURE]

[NAME (BLOCK CAPITALS)]

[POSITION]

[DATE]



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Annex A

Definitions

In this Agreement, words and expressions have the following meanings:

“Actual Date of Delivery”	means the date on which a Bitstream Backhaul Service actually comes into service.
“Bitstream Port”	is the capability to provide a Product to an In Service telephone number/CLI or a unique circuit reference number (CRN).
“Emergency Call”	a 999 or 112 call handed over from the originating network to the emergency call answering service, and includes a call that may not be a genuine one;
Transfer”	means a service that can be used by a Gaining Operator to move a Bitstream Port from the Losing Operator's network to the Gaining Operator's network to a Bitstream Product of the Gaining Operator's choosing.
“Bitstream Services”	means the Bitstream access and Bitstream Backhaul services offered under this Agreement and for which the Operator has executed Service Schedules.
“Bulk Migration”	means a multiple migration that is at least equal to fifteen (15) lines in a given exchange.
“Commencement Date of	means the date on which charging for a Bitstream

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Charging”

Backhaul Service commences.

“Customer Authorisation

Form (“CAF”)

means the form completed and signed by the end user, or the recording of Third Party Verification, or the electronic form completed by the end user, or the recording of an Operator Internal Customer Verification to approve a change of services. CAFs are accepted for Migration Services. The requirements for each means of end user authorisation are set out in requirements documents published on [eircom's open eir's](#) website

“Transfer Authorisation

Form (“TAF”)

means the form authorising the Gaining Operator to submit the request to transfer on behalf of a Customer for the Bitstream Service only.

“CAF Exceptions”

means Migrations that are exempt from the requirement to have a CAF and are:

- i. Intra-operator Migrations, including Intra Operator Bulk Migrations; and
- ii. Inter-Operator Bulk Migrations which require a Wholesale Operator Consent Form.



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“Customer” means a person subscribing to the Operator’s Service, including without limitation, end users and resellers.

“Gaining Operator” means an authorised Operator that is an Operator of the ~~eircom~~ open eir Bitstream Service according to the Bitstream Agreement, and gains a Customer through the Bitstream Port Transfer service or Migrations.

“In Service” means an existing access connection where ~~eircom~~ open eir receives rental from a customer or another authorised operator.

“Intellectual Property Rights” means any patent, patent application, copyright, moral right, trade name, trade mark, service mark, trade secret, copyright, and any applications or right to apply for registration therefor, internet domain names, logos, designs, slogans, and general intangibles of like nature, computer software programs or applications, tangible or intangible proprietary information, know-how, proprietary processes, formulae, algorithms, or any other intellectual property right, whether registered or unregistered, and whether first made or created before, on, or after the Commencement Date.

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“Interest Rate”	means Euribor + four percent (4%) (three month rate) applied to the amount in default.
“Inter Operator Migration”	means the facility that allows services eligible for Migration (as set out in the respective product descriptions) on an end user’s line to be moved between operators.
“Inter Operator Bulk Migration”	means the facility that allows for a Bulk Migration in either direction between Bitstream and Line Share as a result of an authorised operator completing a Wholesale Operator Consent Form (“WOCF”) and selecting a different wholesale provider who places the orders. This is no change in the service provider for the end user.
“Intra Operator Migrations”	means the facility that allows services eligible for Migration (as set out in the respective product descriptions) on an end user’s line to be substituted with the same operator.
“Intra Operator Bulk Migration”	means the facility that allows for a Bulk Migration for services eligible for Migration (as set out in the respective product descriptions) on an end user’s



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line to be substituted with the same operator. All orders forming part of an Intra Operator Bulk Migration must have their current broadband service with the LLU Operator but can have their narrowband service with any operator.

“Losing Operator”

means an authorised Operator that is an Operator of the ~~eircom~~ open eir Bitstream Service according to the Bitstream Agreement, and loses a Customer through the Bitstream Port Transfer service or Migrations.

“Migration”

means the actual transaction for which an order is placed to move between eligible services.

“Migration Services”

means the service for moving between different products as set out in the Migration Product Description. The controlling version is the latest document published on ~~eircom~~ open eir's website in accordance with the applicable Publication Requirements.

“Minimum Term”

means the minimum period during which the Operator commits to keep and pay for a New Product Order on a Bitstream Port. This period shall commence on the date ~~eircom~~ open eir starts billing for that Product on a Bitstream Port and shall continue for six months thereafter.



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In the scenario where a Bitstream Port Transfer is placed by a third party operator within the Minimum Term, the Operator will not be required to pay the remainder of the term.

Note: Profile changes or Egress changes within an existing product do not constitute a New Product Order.

Intra Operator migrations between Bitstream Plus and VUA do not constitute a New Product Order.

“National Regulator”

means the Commission for Communications Regulation or any person or body designated as the National Regulatory Authority pursuant to Council Directive 90/388/EEC.

“New Product Order”

means any of the following types:

- (a) an order to provide a Product to an In Service telephone number/CLI under this Agreement;
- (b) an order for a Product with a unique circuit reference number (CRN); or
- (c) an order for an upgrade or downgrade of a Product on a Bitstream Port; or
- (d) an order for Bitstream Port Transfer on a Bitstream Port.

“NTU”

means Network Termination Unit.

“NTU Installation Manual”

means the document which defines the responsibilities of all parties involved in the access,

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provision and repair of different types of services using ~~eircom's~~ open eir's Access Network.

Specifically this document defines the procedures and standards to which any party including the Customer, installing a NTU at the Customer's premises for Bitstream provisioning on copper paths, should adhere to.

“Operator Material”

means data, information, video, graphics, sound, music, pictures, text, code, scripts, photographs, software and any other material (in whatever form) published or otherwise made available (directly or indirectly) by or on behalf of the Operator using the Service.

“Operator Service”

means the service provided by the Operator Seeker to the Customer using the Service.

“Product”

means singularly, each variant of the products set out in service schedules of Annex C as may be updated and re-published from time to time.

“Publication Requirements”

means those requirements for publication as set out in decisions of the National Regulator, including without limitation:

Response to Consultation and Decision: Market Review: Wholesale Broadband Access (Market 5), Decision No. D06/11, Document No. 11/49 dated 8 July 2011.



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and any subsequent decision or direction of the National Regulator.

“Repeated Unauthorised Use of the Bitstream Port Transfer”

means more than two occasions of Unauthorised Use of the Bitstream Port Transfer in any rolling 12 month period.

“Service”

means the ~~eircom-open eir~~ service known as ~~eircom'sopen eir's~~ Bitstream Service which is more specifically described in Annex C, Service Schedule or Service Schedule x.

“Working Day”

means the time between 09:00 – 17:00 on any day other than Saturdays, Sundays, or public holidays as defined in the Second Schedule to the Organisation of Working Time Act, 1997.

“Unauthorised Use of the Bitstream Port Transfer”

means more than three (3) percent of an Operator’s Bitstream Port Transfer orders in a given month that were found to not have a supporting Transfer Authorisation Form and/or did not comply with the processes, procedures, and standards for the Bitstream Port Transfer service set out in the Bitstream Industry Process Manual.

“Unauthorised Provisioning”

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of Services”

means any activity undertaken by an access seeker that attempts to initiate a service change without the consent of the customer. This is also known as “slamming.”

“Universal Service Obligations”

means a defined minimum set of services of specified quality which is available to all users independent of their geographic location and in the light of specific national conditions, at an affordable price.

"Usage Charge"

means the amount of time that exceeds the levels set in the Price List or Product Description at the rates set out therein. The amount charged per month shall not exceed the Cap amounts set out therein.

“Wholesale Operator

Consent Form”

is the form that must be signed by authorised operators seeking to migrate to a different wholesale provider in either direction between Bitstream and line share (as defined in the [eircom open eir](#) Access Reference Offer) (pro forma WOCF is in the Migrations Product Description).



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Annex B

BILLING AND PAYMENT

1. The Operator shall be liable to pay ~~eircom~~open eir for the charges set out in the ~~eircom~~open eir Bitstream List (“the Charges”) arising from its purchase of Bitstream Services under this Agreement.
2. The billing intervals shall be set out in each Annex C, Service Schedule respectively.
3. The Operator shall pay any Value Added Tax exigible on any of the charges raised pursuant to the terms of this Agreement.
4. Unless explicitly stated otherwise in this Agreement invoices are due and payable in EUROS. Invoices are payable within thirty (30) calendar days from the date of the invoice (the “Due Date”) unless provided otherwise in this Agreement.
5. ~~eircom~~open eir will provide billing information in relation to each invoice.
6. Any Disputes which arise pursuant to the charges the Licence or invoices issued in relation to the Charges shall be subject to the provisions of clause 10 of this Agreement.



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Annex C Service Schedules

Bitstream Access Services

Service Schedule

Number	Description
Minimum Term	
001	Bitstream Internet Protocol (with Minimum Term contract)
002	Bitstream Managed Backhaul (with Minimum Term contract)
003	Bitstream Virtual Circuit (with Minimum Term contract)
004	Bitstream Ethernet Access (EA) (with Minimum Term Contract)

Applicable Cease Fees

101	Bitstream Internet Protocol (with Cease contract)
102	Bitstream Managed Backhaul (with Cease contract)
103	Bitstream Virtual Circuit (with Cease contract)
104	Bitstream Ethernet Access (EA) (with Cease Contract)

Bitstream Backhaul Services

201	Bitstream Ethernet Connection Service
202	Bitstream Connection Service
203	Bitstream Ethernet Connection Service via Wholesale Ethernet Interconnect Link

Next Generation Access Services

301	FTTH/FTTC Bitstream Plus Service
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302 FTTH/FTTC Virtual Unbundled Access (VUA)
Service

303 FTTC VEA Virtual Ethernet Access

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Annex C

Service Schedule 001

Bitstream Internet Protocol (with Minimum Term contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“SLA”)

The controlling document is the latest version of the above titled document published on [eircom's open eir's](#) website in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Bitstream Inter operator Maintenance Process Manual (“Bitstream

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IPM”)and,

b. The NTU Installation Manual. (“NTU Installation Manual”)

All references are to the latest version published on [eircom’s open eir’s](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of IP Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network.

2.1.2 on those [eircom-open eir](#) PSTN copper lines currently In Service within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom-open eir](#) for the provision of the Service in accordance with the Industry Process Manual.

2.2 Where a Customer’s PSTN service is terminated, [eircom-open eir](#) shall be entitled to terminate the Service to such Customer.

2.3 Use of the IP Service may be restricted by [eircom-open eir](#) as required by applicable law. [Eircom-Open eir](#) shall promptly notify the Operator if it invokes this clause.

2.4 The Operator agrees that from time to time it may be necessary for [eircom open eir](#) to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to [eircom’s open eir’s](#) network. In the case of planned outage [eircom-open eir](#) will give the Operator five (5)



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Working Days' notice prior to such suspension of service and eircom-open eir will restore service as soon as possible after such suspension.

2.5 eircom-open eir does not warrant that the IP Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

2.6 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.

2.7 eircom-open eir may give the Operator instructions which eircom-open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by eircom-open eir to the Operator or any other person.

2.8 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.

3 IP Service (subject to a Minimum Term)

3.1 The charges and/or charging principles for IP Service are as set out in the Bitstream Price List.

3.2 eircom-open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the IP Service .

3.3 The Operator shall remit payment for the IP Service by the Due Date.

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- 3.4 The Operator shall be liable for charges associated with the Minimum Term for the IP Service.
- 3.5 In the event that the IP Service is either upgraded to a higher available Product or downgraded to a lower available Product, a Minimum Term shall apply to the new Product.

4. Bitstream Port Transfer

- 4.1 The Bitstream Port Transfer service is available for use by an Operator who has secured a DSL Transfer Authorisation Form (DTAF), as defined in Schedule 1, from a Customer, and complies with the processes, procedures, and standards for the Bitstream Port Transfer service set out in the Bitstream Industry Process Manual, Section 3.4.5.1.1.
- 4.2 In all instances the Operator shall retain these DTAFs for at six (6) months from the date of submitting the Bitstream Port Transfer order. If a Customer complains to a Losing Operator regarding the change of the service provider, the Losing Operator is entitled to request a copy of the DTAF, and the Gaining Operator must provide a true copy of the DTAF to that operator within two (2) Working Days. If the Losing Operator is not satisfied with the copy of the DTAF produced by the Gaining Operator, then the Gaining Operator must provide access to the original DTAF within two (2) Working Days.
- 4.3 A Party shall not engage in the Unauthorised Use of the Bitstream Port Transfer services. Nothing in this Clause or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time. Where an incident(s) of Unauthorised Use of the Bitstream Port Transfer service is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use their best endeavours to resolve the matter. Where complaints concerning incident(s) of Unauthorised Provisioning of

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Bitstream Port Transfer services cannot be resolved in accordance with this Clause, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 5.2, the Losing Operator shall have the option of requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

4.4 The provisions of this Clause 5 shall apply to CAFs and Migrations.

5. Migration Services

5.1 Migration Services to and from the Bitstream Services, including the IP Service, are as set out in the Migrations Product Description.

5.2 Subject to Clause 5.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WCOF”) or a complete CAF), if applicable.

5.3 (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in

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respect of a CAF Exception, (the “Indemnity”), provided always that:

- a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;
 - b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and
 - c. Any notice, demand or communication made by ~~eircom~~ open eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.
- (iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom~~ open eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF

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(the “Indemnity”). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 5.3(ii) (a), (b), and (c) and sub-clause (iv) shall apply.

(iv) In order for ~~eircom~~open eir to recover from the Gaining Operator under the Indemnity, ~~eircom~~open eir shall:

- a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation;
- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
- c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses; and
- d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

5.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.



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Annex C

Service Schedule 002

Bitstream Managed Backhaul (“Bitstream MB”)

(with Minimum Term contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on ~~eircom~~open eir's website in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

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- a. Bitstream Inter operator Maintenance Process Manual (“Bitstream IPM”),
and
- b. The NTU Installation Manual. (“NTU Installation Manual”)

All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream MB Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network;

2.1.2 on those [eircom-open eir](#) PSTN copper lines within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom-open eir](#) for the provision of the Service in accordance with the Industry Process Manual.

2.2 The requirements for ordering Bitstream MB Service shall be as set out in the Bitstream Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream MB Service that the Operator must have in place the requisite Bitstream Ethernet Connection service.

2.3 For other than the Standalone Bitstream Managed Backhaul product, where a Customer's PSTN service is terminated, [eircom-open eir](#) shall be entitled to terminate the Service to such Customer.



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- 2.4 Use of the Bitstream MB Service may be restricted by ~~eircom~~-open eir as required by applicable law and regulation. ~~eircom~~-open eir shall promptly notify the Operator if this clause is invoked.
- 2.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~-open eir to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom~~'open eir's network. In the case of planned outage ~~eircom~~-open eir will give the Operator five (5) Working Days' notice prior to such suspension of service and ~~eircom~~-open eir will restore service as soon as possible after such suspension.
- 2.6 ~~eircom~~-open eir does not warrant that the MB Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.
- 2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.
- 2.8 ~~eircom~~-open eir may give the Operator instructions which ~~eircom~~-open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by ~~eircom~~-open eir to the Operator or any other person.
- 2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.



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2.10 The Operator shall bear sole responsibility in respect of communicating to the end user that the Standalone Broadband product does not permit access to outbound Emergency Calls.

3. Bitstream MB Service (subject to a Minimum Term) Charging and Invoicing

3.1 The charges and/or charging principles for Bitstream MB Service are as set out in the Bitstream Price List.

3.2 ~~eircom~~ open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the MB Service.

3.3 The Operator shall remit payment for the Bitstream MB Service by the Due Date.

3.4 The Operator shall be liable for charges associated with the Minimum Term for the Bitstream MB Service regardless of whether or not the Bitstream VC Service is provided for that period.

3.5 In the event that the Bitstream MB Service is either upgraded to a higher available Product or downgraded to a lower available Product, a Minimum Term shall apply to the new Product.

4. Bitstream Port Transfer

4.1 The Bitstream Port Transfer service is available for use by an Operator who has secured a DSL Transfer Authorisation Form (DTAF), as defined in Schedule 1, from a Customer, and complies with the processes, procedures,

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and standards for the Bitstream Port Transfer service set out in the Bitstream Industry Process Manual, Section 3.4.5.1.1.

- 4.2 In all instances the Operator shall retain these DTAFs for at six (6) months from the date of submitting the Bitstream Port Transfer order. If a Customer complains to a Losing Operator regarding the change of the service provider, the Losing Operator is entitled to request a copy of the DTAF, and the Gaining Operator must provide a true copy of the DTAF to that Operator within two (2) Working Days. If the Losing Operator is not satisfied with the copy of the DTAF produced by the Gaining Operator, then the Gaining Operator must provide access to the original DTAF within two (2) Working Days.
- 4.3 A Party shall not engage in the Unauthorised Use of the Bitstream Port Transfer services. Nothing in this Clause or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time. Where an incident(s) of Unauthorised Use of the Bitstream Port Transfer service is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use their best endeavours to resolve the matter. . Where complaints concerning incident(s) of Unauthorised Provisioning of Bitstream Port Transfer services cannot be resolved in accordance with this Clause, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 5.2, the Losing Operator shall have the option of requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.
- 4.4 The provisions of this Clause 5 shall apply to CAFs and Migrations.

5. Migration Services

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5.1 Migration Services to and from the Bitstream Services, including the Bitstream MB Service, are as set out in the Migrations Product Description.

5.2 Subject to Clause 5.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WCOF”) or a complete CAF), if applicable.

5.3 (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Indemnity”), provided always that:

a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;



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b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom-open~~ eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom-open eir~~ harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Indemnity"). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 5.3(ii),(a),(b), and (c) and sub-clause (iv) shall apply.

(iv) In order for ~~eircom-open eir~~ to recover from the Gaining Operator under the Indemnity, ~~eircom-open eir~~ shall:

a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom-open eir~~

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becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
- c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and
- d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

5.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Annex C

Service Schedule 003

Bitstream Virtual Circuits (“Bitstream VC”)

(with Minimum Term contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on [eircom's open eir's](#) website in accordance with the Publication Requirements.



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1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Bitstream Inter operator Maintenance Process Manual (“Bitstream IPM”), and
- b. The NTU Installation Manual. (“NTU Installation Manual”)

All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream VC Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network;

2.1.2 on those [eircom-open eir](#) PSTN copper lines currently In Service within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom open eir](#) for the provision of the Service in accordance with the Industry Process Manual.

2.2 The requirements for ordering Bitstream VC Service shall be as set out in the Bitstream Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream VC Service that the Operator must have in place the requisite Bitstream Connection Service. The Operator must also have the requisite Bitstream Connection Service in place to support Migrations to the Bitstream VC Service.



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- 2.3 Where a Customer's PSTN service is terminated, ~~eircom~~ open eir shall be entitled to terminate the Service to such Customer.
- 2.4 Use of the Bitstream VC Service may be restricted by ~~eircom~~ open eir as required by applicable law and regulation. ~~eircom~~ open eir shall promptly notify the Operator if this clause is invoked.
- 2.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's network. In the case of planned outage ~~eircom~~ open eir will give the Operator five (5) Working Days' notice prior to such suspension of service and ~~eircom~~ open eir will restore service as soon as possible after such suspension.
- 2.6 ~~eircom~~ open eir does not warrant that the VC Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.
- 2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.
- 2.8 ~~eircom~~ open eir may give the Operator instructions which ~~eircom~~ open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by ~~eircom~~ open eir to the Operator or any other person.
- 2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and

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such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.

3. **VC Service (subject to a Minimum Term) Charging and Invoicing**

3.1 The charges and/or charging principles for Bitstream VC Service are as set out in the Bitstream Price List.

3.2 ~~eircom~~ open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the VC Service.

3.3 The Operator shall remit payment for the Bitstream VC Service by the Due Date.

3.4 The Operator shall be liable for charges associated with the Minimum Term for the Bitstream VC Service regardless of whether or not the Bitstream VC Service is provided for that period.

3.5 In the event that the Bitstream VC Service is either upgraded to a higher available Product or downgraded to a lower available Product, a Minimum Term shall apply to the new Product.

4. **Migration Services**

4.1 Migration Services to and from the Bitstream Services, including the Bitstream VC Service, are as set out in the Migrations Product Description.

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4.2 Subject to Clause 4.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form “WCOF”) or a complete CAF), if applicable.

4.3 (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Indemnity”), provided always that:

a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

b.. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an



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immediate and proximate result of the absence of a CAF);
and

c.. Any notice, demand or communication made by ~~eircom-open~~ eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom-open eir~~ harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Indemnity"). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 4.3(ii),(a),(b), and (c) and sub-clause (iv) shall apply.

(iv) In order for ~~eircom-open eir~~ to recover from the Gaining Operator under the Indemnity, ~~eircom-open eir~~ shall:

a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom-open eir~~ becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

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- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
 - c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and
 - d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.
- 4.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Annex C

Service Schedule 004

Bitstream Ethernet Access (“Bitstream EA”)

(with Minimum Term contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

2. Definitions

2.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Ethernet Access (BEA) Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on [eircom's open_eir's](http://eircom.com/open_eir/s) website in accordance with the Publication Requirements.



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1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- c. Bitstream Inter operator Maintenance Process Manual (“Bitstream IPM”), and
- d. The NTU Installation Manual. (“NTU Installation Manual”)

All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream EA Service

2.1 The Service is only available:

2.1.3 for Customers directly connected to the [eircom-open eir](#) network;

2.1.4 on those [eircom-open eir](#) PSTN copper lines currently In Service within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom open eir](#) for the provision of the Service in accordance with the Industry Process Manual.

2.2 The requirements for ordering Bitstream EA Service shall be as set out in the Bitstream Ethernet Access Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream EA Service that the Operator must have in place the requisite wholesale Ethernet interconnect link (WEIL).



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- 2.3 Where a Customer's PSTN service is terminated, ~~eircom-open eir~~ shall be entitled to terminate the Service to such Customer.
- 2.4 Use of the Bitstream EA Service may be restricted by ~~eircom-open eir~~ as required by applicable law and regulation. ~~eircom-open eir~~ shall promptly notify the Operator if this clause is invoked.
- 2.5 The Operator agrees that from time to time it may be necessary for ~~eircom-open eir~~ to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's-open eir's~~ network. In the case of planned outage ~~eircom-open eir~~ will give the Operator five (5) Working Days' notice prior to such suspension of service and ~~eircom-open eir~~ will restore service as soon as possible after such suspension.
- 2.6 ~~eircom-open eir~~ does not warrant that the Bitstream EA Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.
- 2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.
- 2.8 ~~eircom-open eir~~ may give the Operator instructions which ~~eircom-open eir~~ reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by ~~eircom-open eir~~ to the Operator or any other person.
- 2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be



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updated or modified from time to time. These documents are not contractually binding.

3. Bitstream EA Service (subject to a Minimum Term) Charging and Invoicing

4.3 The charges and/or charging principles for Bitstream EA Service are as set out in the Bitstream Price List.

4.4 ~~eircm-open eir~~ shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the EA Service.

4.5 The Operator shall remit payment for the Bitstream EA Service by the Due Date.

3.4 The Operator shall be liable for charges associated with the Minimum Term for the Bitstream EA Service regardless of whether or not the Bitstream EA Service is provided for that period.



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Annex C

Service Schedule 101

Bitstream Internet Protocol (“Bitstream IP”)

(subject to Cease Contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on [eircom's open eir's](#) website in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Bitstream Industry Process Manual (“Bitstream IPM”), and
- b. The NTU Installation Manual. (“NTU Installation Manual”)



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All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream IP Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network;

2.1.2 on those [eircom-open eir](#) PSTN copper lines currently In Service within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom-open eir](#) for the provision of the Service in accordance with the Industry Process Manual.

2.2 The requirements for ordering Bitstream IP Service shall be as set out in the Bitstream Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream IP Service that the Operator must have in place the requisite Bitstream Ethernet Connection service.

2.3 Where a Customer's PSTN service is terminated, [eircom-open eir](#) shall be entitled to terminate the Service to such Customer.

2.4 Use of the Bitstream IP Service may be restricted by [eircom-open eir](#) as required by applicable law and regulation. [eircom-open eir](#) shall promptly notify the Operator if this clause is invoked.

2.5 The Operator agrees that from time to time it may be necessary for [eircom-open eir](#) to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to [eircom's open eir's](#) network. In the case of planned



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outage eircom-open eir will give the Operator five (5) Working Days' notice prior to such suspension of service and eircom-open eir will restore service as soon as possible after such suspension.

2.6 eircom-open eir does not warrant that the Bitstream IP Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.

2.8 eircom-open eir may give the Operator instructions which eircom-open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by eircom-open eir to the Operator or any other person.

2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.

3. Bitstream IP Service Charging and Invoicing

3.1 The charges and/or charging principles for Bitstream IP Service are as set out in the Bitstream Price List. This Bitstream IP Service is subject to the application of the cease fees.

3.2 eircom-open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the Bitstream IP Service.

3.3 The Operator shall remit payment for the Bitstream IP Service by the Due Date.

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3.4 In the event that the Bitstream IP Service is either upgraded to a higher available Product or downgraded to a lower available Product, a Minimum Term shall apply to the new Product.

4. Bitstream Port Transfer

4.1 The Bitstream Port Transfer service is available for use by an Operator who has secured a DSL Transfer Authorisation Form (DTAF), as defined in Schedule 1, from a Customer, and complies with the processes, procedures, and standards for the Bitstream Port Transfer service set out in the Bitstream Industry Process Manual, Section 3.4.5.1.1.

4.2 In all instances the Operator shall retain these DTAFs for at six (6) months from the date of submitting the Bitstream Port Transfer order. If a Customer complains to a Losing Operator regarding the change of the service provider, the Losing Operator is entitled to request a copy of the DTAF, and the Gaining Operator must provide a true copy of the DTAF to that Operator within two (2) Working Days. If the Losing Operator is not satisfied with the copy of the DTAF produced by the Gaining Operator, then the Gaining Operator must provide access to the original DTAF within two (2) Working Days.

4.3 A Party shall not engage in the Unauthorised Use of the Bitstream Port Transfer services. Nothing in this Clause or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time. Where an incident(s) of Unauthorised Use of the Bitstream Port Transfer service is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use their best endeavours to resolve the matter. . Where complaints concerning incident(s) of Unauthorised Provisioning of Bitstream Port Transfer services cannot be resolved in accordance with this Clause, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 5.2, the Losing Operator shall have the option of

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requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

4.4 The provisions of this Clause 5 shall apply to CAFs and Migrations.

5. Migration Services

5.1 Migration Services to and from the Bitstream Services, including the IP Service, are as set out in the Migrations Product Description.

5.2 Subject to Clause 5.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form “WCOF”) or a complete CAF), if applicable.

5.3 (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircm-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircm-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Indemnity”), provided always that:

- a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12)



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consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

- b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and
 - c. Any notice, demand or communication made by ~~eircom-open eir~~ under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.
- (iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom-open eir~~ harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Indemnity"). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 5.3(ii)(a),(b), and (c) and sub-clause (iv) shall apply.
- (iv) In order for ~~eircom-open eir~~ to recover from the Gaining Operator under the Indemnity, ~~eircom-open eir~~ shall:
- a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom-open eir~~ becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

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- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);

 - c.Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and

 - d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.
- 5.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Annex C

Service Schedule 102

Bitstream Managed Backhaul (“Bitstream MB”)

(with a Cease contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on [eircom's open eir's](#) website in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Bitstream Industry Process Manual (“Bitstream IPM”), and
- b. The NTU Installation Manual. (“NTU Installation Manual”)

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All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream MB Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network;

2.1.2 on those [eircom-open eir](#) PSTN copper lines within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom-open eir](#) for the provision of the Service in accordance with the Industry Process Manual;

2.2 The requirements for ordering Bitstream MB Service shall be as set out in the Bitstream Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream MB Service that the Operator must have in place the requisite Bitstream Ethernet Connection service.

2.3 For other than the Standalone Bitstream Managed Backhaul product, where a Customer's PSTN service is terminated, [eircom-open eir](#) shall be entitled to terminate the Service to such Customer.

2.4 Use of the Bitstream MB Service may be restricted by [eircom-open eir](#) as required by applicable law and regulation. [eircom-open eir](#) shall promptly notify the Operator if this clause is invoked.

2.5 The Operator agrees that from time to time it may be necessary for [eircom-open eir](#) to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to [eircom's open eir's](#) network. In the case of planned



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- outage eircom-open eir will give the Operator five (5) Working Days' notice prior to such suspension of service and eircom-open eir will restore service as soon as possible after such suspension.
- 2.6 eircom-open eir does not warrant that the MB Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.
- 2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.
- 2.8 eircom-open eir may give the Operator instructions which eircom-open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by eircom-open eir to the Operator or any other person.
- 2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.
- 2.10 The Operator shall bear sole responsibility in respect of communicating to the end users that the Standalone Broadband product does not permit access to out-bound Emergency Calls.

3 Bitstream MB Service Charging and Invoicing

- 3.1 The charges and/or charging principles for Bitstream MB Service are as set out in the Bitstream Price List. This Bitstream MB Service is subject to the application of the cease fees.
- 3.2 eircom-open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the MB Service.



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- 3.3 The Operator shall remit payment for the Bitstream MB Service by the Due Date.
- 3.4 In the event that the Bitstream MB Service is either upgraded to a higher available Product or downgraded to a lower available Product, a Minimum Term shall apply to the new Product.

4. Bitstream Port Transfer

- 4.1 The Bitstream Port Transfer service is available for use by an Operator who has secured a DSL Transfer Authorisation Form (DTAF), as defined in Schedule 1, from a Customer, and complies with the processes, procedures, and standards for the Bitstream Port Transfer service set out in the Bitstream Industry Process Manual, Section 3.4.5.1.1.
- 4.2 In all instances the Operator shall retain these DTAFs for at six (6) months from the date of submitting the Bitstream Port Transfer order. If a Customer complains to a Losing Operator regarding the change of the service provider, the Losing Operator is entitled to request a copy of the DTAF, and the Gaining Operator must provide a true copy of the DTAF to that Operator within two (2) Working Days. If the Losing Operator is not satisfied with the copy of the DTAF produced by the Gaining Operator, then the Gaining Operator must provide access to the original DTAF within two (2) Working Days.
- 4.3 A Party shall not engage in the Unauthorised Use of the Bitstream Port Transfer services. Nothing in this Clause or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time. Where an incident(s) of Unauthorised Use of the Bitstream Port Transfer service is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use their best endeavours to resolve the matter. . Where complaints concerning incident(s) of Unauthorised Provisioning of Bitstream Port Transfer services cannot be resolved in accordance with this Clause, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 5.2, the Losing Operator shall have the option of requesting the President of the Law Society of Ireland to nominate a single arbitrator

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to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

4.4 The provisions of this Clause 5 shall apply to CAFs and Migrations.

5. Migration Services

5.1 Migration Services to and from the Bitstream Services, including the Bitstream MB Service, are as set out in the Migrations Product Description.

5.2 Subject to Clause 5.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WCOF”) or a complete CAF), if applicable.

5.3 (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Indemnity”), provided always that:

- a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive



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months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom~~ open eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom~~ open eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Indemnity"). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 5.3(ii),(a),(b), and (c) and sub-clause (iv) shall apply.

(iv) In order for ~~eircom~~ open eir to recover from the Gaining Operator under the Indemnity, ~~eircom~~ open eir shall:

a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~ open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

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- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
- c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and
- d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

5.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Annex C

Service Schedule 103

Bitstream Virtual Circuits (“Bitstream VC”)

(with a Cease contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on [eircom's open eir's](#) website in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Bitstream Industry Process Manual (“Bitstream IPM”), and
- b. The NTU Installation Manual. (“NTU Installation Manual”)

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All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream VC Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network;

2.1.2 on those [eircom-open eir](#) PSTN copper lines currently In Service within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom-open eir](#) for the provision of the Service in accordance with the Industry Process Manual;

2.2 The requirements for ordering Bitstream VC Service shall be as set out in the Bitstream Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream VC Service that the Operator must have in place the requisite Bitstream Connection Service. The Operator must also have the requisite Bitstream Connection Service in place to support Migrations to the Bitstream VC Service.

2.3 Where a Customer's PSTN service is terminated, [eircom-open eir](#) shall be entitled to terminate the Service to such Customer.

2.4 Use of the Bitstream VC Service may be restricted by [eircom-open eir](#) as required by applicable law and regulation. [eircom-open eir](#) shall promptly notify the Operator if this clause is invoked.

2.5 The Operator agrees that from time to time it may be necessary for [eircom-open eir](#) to temporarily suspend the Service during periods of repair, essential maintenance or



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alteration or improvement to ~~eircom's~~open eir's network. In the case of planned outage ~~eircom~~open eir will give the Operator five (5) Working Days' notice prior to such suspension of service and ~~eircom~~open eir will restore service as soon as possible after such suspension.

2.6 ~~eircom~~open eir does not warrant that the VC Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.

2.8 ~~eircom~~open eir may give the Operator instructions which ~~eircom~~open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by ~~eircom~~open eir to the Operator or any other person.

2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.

3. **Bitstream VC Service Charging and Invoicing**

3.1 The charges and/or charging principles for Bitstream VC Service are as set out in the Bitstream Price List. This Bitstream VC Service is subject to the application of cease fees.

3.1 ~~eircom~~open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the VC Service.



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- 3.2 The Operator shall remit payment for the Bitstream VC Service by the Due Date.
- 3.4 In the event that the Bitstream VC Service is either upgraded to a higher available Product or downgraded to a lower available Product, a Minimum Term shall apply to the new Product.

4. Migration Services

- 4.1 Migration Services to and from the Bitstream Services, including the Bitstream VC Service, are as set out in the Migrations Product Description.
- 4.2 Subject to Clause 4.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form “WCOF”) or a complete CAF), if applicable.
- 4.3
 - (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom~~ open eir shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.
 - (ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom~~ open eir harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Indemnity”), provided always that:
 - a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro



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(€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

b. . The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom-open eir~~ under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom-open eir~~ harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Indemnity"). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 4.3(ii),(a),(b), and (c) and sub-clause (iv) shall apply.

(iv) In order for ~~eircom-open eir~~ to recover from the Gaining Operator under the Indemnity, ~~eircom-open eir~~ shall:

a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom-open eir~~ becomes aware of the

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relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
- c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and
- d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

5.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Annex C

Service Schedule 104

Bitstream Ethernet Access (“Bitstream EA”)

(with a cease contract)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A, except as otherwise expressly stated in this Schedule.

1.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Bitstream Services Product Description (“Bitstream Product Description”)
- b. Bitstream Service Level Agreement (“ Bitstream SLA”)

The controlling document is the latest version of the above titled document published on eir.eom/open.eir/s website in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Bitstream Industry Process Manual (“Bitstream IPM”), and
- c. The NTU Installation Manual. (“NTU Installation Manual”)



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All references are to the latest version published on [eircom's open eir's](#) website as agreed with the National Regulator with industry input in respect of developments and/or changes.

2. Conditions of Bitstream EA Service

2.1 The Service is only available:

2.1.1 for Customers directly connected to the [eircom-open eir](#) network;

2.1.2 on those [eircom-open eir](#) PSTN copper lines currently In Service within the defined ADSL regional areas.

2.1.3 where the copper pairs have been deemed suitable by [eircom-open eir](#) for the provision of the Service in accordance with the Industry Process Manual;

2.2 The requirements for ordering Bitstream EA Service shall be as set out in the Bitstream Product Description and/or Bitstream IPM. Specifically, it is a condition precedent to the acceptance of an order for the Bitstream EA Service that the Operator must have in place the requisite Bitstream Connection Service. The Operator must also have the requisite Bitstream Connection Service in place to support Migrations to the Bitstream EA Service.

2.3 Where a Customer's PSTN service is terminated, [eircom-open eir](#) shall be entitled to terminate the Service to such Customer.

2.4 Use of the Bitstream EA Service may be restricted by [eircom-open eir](#) as required by applicable law and regulation. [eircom-open eir](#) shall promptly notify the Operator if this clause is invoked.

2.5 The Operator agrees that from time to time it may be necessary for [eircom-open eir](#) to temporarily suspend the Service during periods of repair, essential maintenance or alteration or improvement to [eircom's open eir's](#) network. In the case of planned outage [eircom-open eir](#) will give the Operator five (5) Working Days' notice prior to such suspension of service and [eircom-open eir](#) will restore service as soon as possible after such suspension.

2.6 [eircom-open eir](#) does not warrant that the EA Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

2.7 The Parties shall use the reasonable commercial endeavours to provide such information as the other Party may reasonably require in order for the Parties to perform its obligations under this Bitstream Agreement.



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2.8 eircom-open eir may give the Operator instructions which eircom-open eir reasonably believes are necessary for reasons of health, safety, or the quality of any telecommunications service provided by eircom-open eir to the Operator or any other person.

2.9 The Parties shall abide by the processes, procedures and standards set out in the Bitstream Industry Process Manual, the NTU Installation Manual, and such other industry developments related to this Service as some may be updated or modified from time to time. These documents are not contractually binding.

3. Bitstream EA Service Charging and Invoicing

3.1 The charges and/or charging principles for Bitstream EA Service are as set out in the Bitstream Price List. This Bitstream EA Service is subject to the application of cease fees.

3.1 eircom-open eir shall be entitled to invoice the Operator in accordance with the charging intervals set out in the Bitstream Price List for the EA Service.

3.2 The Operator shall remit payment for the Bitstream EA Service by the Due Date.

3.3 In the event that the Bitstream EA service is either upgraded to a higher available Product or downgraded to a lower available product, A minimum Term shall apply to the new Product.

4 . Migration Services

4.1 Migration Services to and from the Bitstream Services, including the Bitstream EA Service, are as set out in the Migrations Product Description.

4.2 Subject to Clause 4.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WCOF”) or a complete CAF), if applicable.

4.3 (i) Without prejudice to the generality of Clause 5.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, eircom-open eir shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold eircom-open eir harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise

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directly and solely from the Gaining Operator's decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the "Indemnity"), provided always that:

a. The total aggregate liability of the Gaining Operator arising under the indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12)

consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom~~ open eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator Customer shall indemnify and hold ~~eircom~~ open eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Indemnity"). The Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 4.3(ii),(a),(b), and (c) and sub-clause (iv) shall apply.

(iv) In order for ~~eircom~~ open eir to recover from the Gaining Operator under the Indemnity, ~~eircom~~ open eir shall:

a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~ open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);

c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and



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d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

5.4 Migration Services will be subject to breaks in service as set out in the Migrations IPM. The Parties shall endeavour to minimise the break in service for individual end users.



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Annex C

Service Schedule 201

Bitstream Ethernet Connection Service (“BECS”)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph or Appendix, unless stated otherwise, is to a paragraph or Appendix A of this Schedule. Words and expressions have the meaning given in Annex A.

1.2 The document(s) referenced in this Service Schedule that is contractually binding:

- a. Bitstream Backhaul Service Product Description (“Backhaul Product Description”)
- b. Service Level Agreement for Bitstream Connection Service and Bitstream Ethernet Connection Service (“Backhaul SLA”), and
- c. The order form for each BECS order.

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The controlling document is the latest version of the above titled document published on [eircom](http://eircom.com)'s [open eir](http://openeir.ie)'s website, www.eircomwholesale.ie/www.openeir.ie, in accordance with the Publication Requirements.

1.3 The following document(s) referenced in the Service Schedules that set the procedures and standards for operation, but are non-contractual:

a. Bitstream Backhaul Process Manual (“Backhaul IPM”),¹

All references are to the latest version published on [eircom](http://eircom.com)'s [open eir](http://openeir.ie)'s website, www.eircomwholesale.ie/www.openeir.ie, as agreed with the National Regulator with industry input in respect of developments and /or changes.

1.4 The remainder of this Service Schedule is separated in the following distinct sections:

Section A – Customer Sited Handover Bitstream Ethernet Connection Service (“CSH BECS”)

Section C – In-Building Handover Bitstream Ethernet Connection Service (“IBH BECS”)

¹ In development



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Section A
Customer Sited Handover
Bitstream Ethernet Connection Service
("CSH BECS")

2. Description of Service

- 2.1 Subject to the provisions of this Schedule, ~~eircom~~-open eir shall provide CSH BECS as specified from time to time in the Backhaul Product Description.
- 2.2 ~~eircom~~-open eir shall provide and maintain the CSH BECS between the Operator's nominated point of presence and the ~~eircom~~-open eir exchange.
- 2.3 ~~eircom~~-open eir shall install its fibre and terminating equipment at the Operator premises at a physical location in accordance with the Backhaul Product Description.
- 2.4 Ordering, forecasting, and provisioning procedures are specified in the Backhaul IPM. The procedures for cancellation, cessation and/or termination of CSH BECS(s) are as set out in the Backhaul IPM. Operator requests for cancellation, cessation and/or termination of CSH BECS(s) may impact and disrupt ~~eircom's~~open eir's ability to provide services for dependent Bitstream Internet Protocol Services and/or Bitstream Managed Backhaul Services. ~~eircom~~-open eir shall not be liable for any provision of service or quality of service impacts that may result, unless such requests form part of a project agreed in writing between the Parties.
- 2.5 The Bitstream Services that use the CSH BECS shall be subject to Annex C, Service Schedule(s) of the Bitstream Agreement.

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3. Time Frames for Delivery

3.1 Provision of these services shall be in accordance with the Backhaul SLA published on ~~eircom's~~open eir's website, www.eircomwholesale.ie~~www.openeir.ie~~.

4. CSH BECS Charging

4.1 ~~eircom-open eir~~ shall advise the Operator of the charges applicable to each BECS order.

4.2 ~~eircom-open eir~~ shall be entitled to invoice an Operator for the CSH BECS(s) from the Commencement Date of Charging. Commencement Date of Charging for CSH BECS(s) is the Actual Date of Delivery. Rental charges shall be payable monthly in advance.

4.3.1 In the event the Operator cancels an order for a CSH BECS prior to the Commencement of Charging Date, ~~eircom-open eir~~ shall be entitled to invoice the Operator for the connection charges for that circuit.

4.4 The Operator shall be liable for the charges associated with the minimum period of service set out in Clause 5 in the event it issues a termination request that would take effect prior to the expiry of the minimum period for service.

5. Term

5.1 The minimum period of service for any CSH BECS shall be twelve (12) months commencing on the Commencement of Charging Date.

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- 5.2 Each additional CSH BECS shall be subject to its own minimum period of service of twelve (12) months commencing on the Commencement of Charging Date.
- 5.3 In the event that the termination of a CSH BECS is required, the Operator shall give to ~~eircom~~ open eir in writing at least one months notice, expiring on the last day of the calendar month following that in which the notice is given. For the avoidance of doubt, the Operator shall ensure that all dependent Bitstream Internet Protocol and/or Bitstream Managed Backhaul Services are ceased prior to the termination of a CSH BECS. Where such a termination request takes effect prior to the expiry of the minimum period of service specified in 5.1 above, then the charges for the CSH BECS shall be as specified in 4.4 above. Where notice is given which expires after the minimum period of service, charging shall cease on the last day of the notice period.
- 5.4 Where the Operator requests to upgrade the CSH BECS to a higher available bandwidth and such request is delivered, a new minimum period will apply to the upgraded CSH BECS. If the upgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 4.4 above shall be waived.
- 5.5 Where the Operator requests to downgrade the CSH BECS to a lower available bandwidth and such request is delivered, a new minimum period will apply to the downgraded CSH BECS. If the downgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 4.4 above shall apply to the original CSH BECS.

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Section B
In-Building Handover
Bitstream Ethernet Connection Service
(“IBH BECS”)

6. Description of Service

- 6.1 Subject to the provisions of this Schedule, ~~eirecom~~ open eir shall provide IBH BECS as specified from time to time in the Backhaul Product Description.
- 6.2 As a condition precedent to IBH BECS, the Operator must have an existing, valid Licence for Physical Co-location for purposes of Local Loop Unbundling at the requested BECS location.
- 6.3 Orders for IBH BECS shall be treated as Specified Regulated Products as that term is defined in the Operator’s Licence for Physical Co-location. Accordingly, provided the Operator has a valid Licence for the Site, the Operator shall not be required to execute a Deed of Variation to be entitled to use its footprint for purposes of the IBH BECS service.
- 6.4 The point of handover and method of delivery are as set out in the Backhaul Product Description. The Operator undertakes and agrees to comply with equipment and, network specifications as set out in the Backhaul Product Description.
- 6.5 The Parties agree that network ownership and obligations shall be as set out in the Backhaul Product Description.
- 6.6 Ordering, forecasting, and provisioning procedures are specified in the Backhaul IPM. The procedures for cancellation, cessation and/or termination

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of IBH BECS are as set out in the Backhaul IPM. Operator requests for cancellation, cessation and/or termination of IBH BECS(s) may impact and disrupt ~~eircom's~~open eir's ability to provide services for dependent Bitstream Internet Protocol Services and/or Bitstream Managed Backhaul Services. ~~eircom~~open eir shall not be liable for any provision of service or quality of service impacts that may result, unless such requests form part of a project agreed in writing between the Parties.

6.7 The Bitstream Services using an IBH BECS shall be subject to Annex C, Service Schedules of the Bitstream Agreement.

6.8 The Operator shall only be entitled to use an IBH BECS for purposes of Ethernet backhaul to support the Bitstream Services available in this Agreement. The Operator shall be in material breach of this Agreement in the event it uses an IBH BECS for any other purpose.

7. Time Frames for Delivery

7.1 Provision of these services shall be in accordance with the Backhaul SLA published on ~~eircom's~~open eir's website, www.eircomwholesale.ie/www.openeir.ie.

8 IBH BECS Charging

8.1 The charges for IBH BECS(s) shall be advised to the Operator, including any charges that may be due under its Licence.

8.2 ~~eircom~~open eir shall be entitled to invoice an Operator for the IBH BECS(s) from the Commencement Date of Charging. Commencement Date of Charging for IBH BECS(s) is the Actual Date of Delivery. Rental charges shall be payable monthly in advance.



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8.3 In the event the Operator cancels an order for an IBH BECS prior to the Commencement of Charging Date, [eircom-open eir](#) shall be entitled to invoice the Operator for the connection charges for that circuit.

8.4 The Operator shall be liable for the charges associated with the minimum period of service set out in Clause 9 in the event it issues a termination request that would take effect prior to the expiry of the minimum period for service.

9. Term

9.1 The minimum period of service for any IBH BECS shall be twelve (12) months commencing on the Commencement of Charging Date.

9.2 Each additional IBH BECS shall be subject to its own minimum period of service of twelve (12) months commencing on the Commencement of Charging Date.

9.3 In the event that the termination of an IBH BECS is required, the Operator shall give to [eircom-open eir](#) in writing at least one months notice, expiring on the last day of the calendar month following that in which the notice is given. For the avoidance of doubt, the Operator shall ensure that all dependent Bitstream Internet Protocol Services and/or Bitstream Managed Backhaul Services are ceased prior to the termination of an IBH BECS. Where such a termination request takes effect prior to the expiry of the minimum period of service specified in 9.1 above, then the charges for the IBH BECS shall be as specified in 8.4 above. Where notice is given which expires after the minimum period of service, charging shall cease on the last day of the notice period.



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- 9.4 Where the Operator requests to upgrade the IBH BECS to a higher available bandwidth and such request is delivered, a new minimum period will apply to the upgraded IBH BECS. If the upgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 8.4 above shall be waived.
- 9.5 Where the Operator requests to downgrade the IBH BECS to a lower available bandwidth and such request is delivered, a new minimum period will apply to the downgraded IBH BECS. If the downgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 8.4 above shall apply to the original IBH BECS.

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Annex C

Service Schedule 202

Bitstream Connection Service (“BCS”)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings give in Annex A.

1.2 The document(s) referenced in this Service Schedule that is contractually binding:

- a. Bitstream Backhaul Service Product Description (“Backhaul Product Description”)
- b. Service Level Agreement for Bitstream Connection Service and Bitstream Ethernet Connection Service (“Backhaul SLA”);
- c. The order form for each BCS order.

The controlling document is the latest version of the above titled document published on eircom.com ~~open eir's~~ website, www.eircomwholesale.ie ~~www.openeir.ie~~, in accordance with the Publication Requirements.

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1.3 The following document(s) referenced in the Service Schedules that set the procedures and standards for operation, but are non-contractual:

a. Bitstream Backhaul Process Manual (“Backhaul IPM”),²

All references are to the latest version published on [eircom's open eir's](http://eircom'sopen_eir's) website, www.eircomwholesale.ie/www.openeir.ie, as agreed with the National Regulator with industry input in respect of developments and /or changes.

2. Description of Service

2.1 Service shall consist of the Bitstream Connection Service(s) as specified by the Operator in its order; available bandwidths are as specified from time to time in the Product Description.

3. Conditions of Service

3.1 The provisioning and maintenance of BCS will be governed by the Backhaul IPM.

3.2 The provision and service availability of BCS shall be subject to the Backhaul SLA.

3.3 It is technically impracticable to provide a fault-free Service and [eircom-open eir](http://eircom-open_eir) does not undertake to do so. The level of service availability is set out in the Backhaul SLA.

3.3 The Operator agrees that from time to time it may be necessary for [eircom open eir](http://eircom-open_eir) to temporarily suspend service on BCS(s) during periods of repair,

² In development

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essential maintenance or alteration or improvement to ~~eircom's~~open eir's Network.

3.4 Where possible ~~eircom~~open eir will give the Operator at least five (5) Working Days notice prior to such suspension of service on BCS(s) or as soon as possible after such temporary suspension.

3.5 Use of the Wholesale BCS may be restricted by ~~eircom~~open eir as required by applicable law or regulation. ~~eircom~~open eir shall promptly notify the Operator if this clause is invoked.

3.6 The Operator shall report a fault in accordance with the procedures set out in the Backhaul IPM.

4 Wholesale BCS Charging

4.1 The charges for the BCS(s) shall be provided to the Operator.

4.2 ~~eircom~~open eir shall be entitled to invoice the Operator and the Operator shall be obligated to pay for a BCS from the Commencement Date of Charging. The Commencement Date of Charging shall be the Actual Delivery Date. Rental charges shall be payable monthly in advance.

4.3 In the event the Operator cancels an order for a BCS following order validation and prior to the Commencement Date for Charging, ~~eircom~~open eir shall be entitled to invoice the Operator for the connection charges.

4.4 The Operator shall be liable for charges associated with the minimum period of service set out in Clause 5 in the event that the Operator issues a termination request that would take effect prior to the expiry of the minimum period of service.



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4.5 In the event that a BCS is either upgraded to a higher available bandwidth or downgraded to a lower available bandwidth, the charging for the original BCS shall cease from the date of conversion and the charging for the new BCS shall commence from that same date except as set out in Clause 5.4.

5 Term

5.1 The minimum period of service for any BC shall be twelve (12) months commencing on the Commencement Date of Charging.

5.2 In the event that the termination of a BCS is required, the Operator shall give to ~~eircom~~ open eir in writing at least one month's notice, expiring on the last day of the calendar month following that in which the notice is given. Where such a termination request takes effect prior to the expiry of the minimum period of service specified in 5.1 above, then the charges for the Wholesale BCS shall be as specified in 4.4 above. Where notice is given which expires after the minimum period of service, charging shall cease on the last day of the notice period.

5.3 Where the Operator requests to upgrade the BCS to a higher available bandwidth and such request is delivered, a new minimum period will apply to the upgraded Wholesale BCS. If the upgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 4.4 above shall be waived.

5.4 Where the Operator requests to downgrade the BCS to a lower available bandwidth and such request is delivered, a new minimum period will apply to the downgraded BCS. If the downgrade request takes effect prior to the



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expiry of the minimum period of service, the charges set out at 4.4 above shall apply to the original BCS.

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Annex C
Service Schedule 203
Bitstream Ethernet Connection Service via Wholesale Ethernet Interconnect Link (“BECS via WEIL”)

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or a subsequent Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

1.1 In this Service Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Service Schedule. Words and expressions have the meaning given in Annex A, except as otherwise expressly stated in this Service Schedule.

The document(s) referenced in this Service Schedule that are contractually binding on the parties are:

- a. BECs via WEIL product (BECS via WEIL product proposal)
- b. Wholesale Ethernet Interconnect Link product (www.openeir.ie)
- c. BECs via WEIL Service Level agreement contained in BECS via WEIL product proposal (BECS via WEIL SLA)

The controlling document of the BECS via WEIL Product Proposal is the latest version published on eircom'sopeneir's website (www.openeir.ie) in accordance with the Publication Requirements.

1.2 The following document(s) referenced in the Service Schedules that set the procedures and standards for operation of BECS via WEIL. For the avoidance of doubt, the BECS via WEIL IPM, contained in the BECS via WEIL Product Proposal is a non-contractual obligation. All references are to the latest version published on eircom'sopeneir's website as agreed with the National Regulator with industry input in respect of developments and/or changes.

Description of Service

2.1 The Operator can select from, either of the two options of a NBB(NGN BECS Bitstream) or NBM (NGN BECS Managed Backhaul) as specified in the BECS via WEIL Product Proposal; available bandwidths are as specified from time to time in the BECS via WEIL Product Description.

Conditions of Service

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- 3.1 The provisioning and maintenance of BECS via WEIL will be governed by the BECS via WEIL IPM, contained in the BECS via WEIL Product Proposal.
- 3.2 The BECS via WEIL shall be provided to the Operator in accordance with the provisioning process outlined in the BECS via WEIL Product Proposal.
- 3.3 The provision and service availability of BECS via WEIL shall be subject to the BECS via WEIL SLA contained in the BECS via WEIL Product Proposal.
- 3.4 The procedures for cancellation, cessation and/or termination of BECS via WEIL are as set out in the BECS via WEIL IPM. Operator requests for cancellation, cessation and/or termination of BECS via WEIL may impact and disrupt ~~eircom's open eir's~~ ability to provide services for dependent Bitstream Internet Protocol Services and/or Bitstream Managed Backhaul Services. ~~open eir~~ shall not be liable for any provision of service or quality of service impacts that may result, unless such requests form part of a project agreed in writing between the Parties
- 3.5 It is technically impracticable to provide a fault free Service and ~~eircom-open eir~~ does not undertake to do so. The level of service availability is set out in the BECS via WEIL SLA.
- 3.6 The Operator agrees that from time to time it may be necessary for ~~eircom~~ to temporarily suspend the Service on the BECS via WEIL Product Proposal during periods of repair, essential maintenance or alteration or improvement to ~~eircom's open eir's~~ Network
- 3.7 Where possible ~~eircom~~ will give the Operator at least five (5) Working Days' notice prior to such suspension of service on BECS via WEIL or as soon as possible after such temporary suspension.
- 3.8 Use of the BECS via WEIL may be restricted by ~~eircom~~ in accordance with applicable law or regulation.
- 3.9 The Operator shall report a fault in accordance with the procedures set out in the Wholesale Ethernet Interconnect Link IPM and BECS via WEIL IPM.

BECS via WEIL Charging

- 4.1 ~~eircom~~ shall advise the Operator of the charges applicable to each BECS via WEIL order.
- 4.2 ~~eircom~~ shall be entitled to invoice an Operator for the BECS via WEIL from the Commencement Date of Charging. Commencement Date of Charging for BECS via WEIL is the Actual Date of Delivery. Rental charges shall be payable monthly in advance.
- 4.3. In the event the Operator cancels an order for a BECS via WEIL prior to the Commencement of Charging Date, ~~eircom~~ shall be entitled to invoice the Operator for the connection charges as set out in the Bitstream Price list.
- 4.4 The Operator shall be liable for the charges associated with the minimum period of service set out in Clause 5 in the event it issues a termination request that would take effect prior to the expiry of the minimum period for service.

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5. Term

- 5.1 The minimum period of service for any BECS via WEIL shall be twelve (12) months commencing on the Commencement of Charging Date.
- 5.2 Each additional BECS via WEIL shall be subject to its own minimum period of service of twelve (12) months commencing on the Commencement of Charging Date.
- 5.3 In the event that the termination of a BECS via WEIL is required, the Operator shall give to eircomin writing at least seven (7) calendar days notice. For the avoidance of doubt, the Operator shall ensure that all dependent Bitstream Internet Protocol and/or Bitstream Managed Backhaul Services are ceased prior to the termination. Where such a termination request takes effect prior to the expiry of the minimum period of service specified in 5.1 above, then the charges for the BECS via WEIL shall be as specified in 4.4 above. Where notice is given which expires after the minimum period of service, charging shall cease on the last day of the notice period.
- 5.4 Where the Operator requests to upgrade the BECS via WEIL to a higher available bandwidth and such request is delivered, a new minimum period will apply to the upgraded BECS via WEIL. If the upgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 4.4 above shall be waived.
- 5.5 Where the Operator requests to downgrade the BECS via WEIL to a lower available bandwidth and such request is delivered, a new minimum period will apply to the downgraded BECS via WEIL. If the downgrade request takes effect prior to the expiry of the minimum period of service, the charges set out at 4.4 above shall apply to the original BECS via WEIL.

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Annex C
Service Schedule 301
FTTH/FTTC Bitstream Plus Service

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

- 1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings given in Annex A, except as otherwise expressly stated in this Schedule.
- 1.2 The documents referenced in this Service Schedule that are contractually binding:
- a. Product Description – NGA Bitstream Plus Products (“Bitstream Plus Product Description”);
 - b. The Bitstream Price List (“Bitstream Price List”)
 - c. The Copper Loop Frequency Management Plan (“CLFMP”);
 - d. NGA Bitstream Plus and NGA Virtual Unbundled Access Products Service Level Agreement (“SLA”);
 - e. Unified Gateway Interface Guidelines
 - f. ~~eircom~~ open eir Wholesale Unified Gateway Data Contract (“UG Data Contract”)
 - g. Requirements for Paper Customer Authorisation (“Paper CAF”);
 - h. Requirements for Third Party Verification (“TPV”);
 - i. Requirements for Electronic Customer Authorisation (“eCAF”); and
 - j. Requirements for Operator Internal Customer Verification (“vCAF”).

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The controlling document is the latest version of the above titled document published on ~~eircom~~ open eir Wholesale's's website, www.eircomwholesale.iewww.openeir.ie, in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Wholesale NGA Bitstream Plus and Virtual Unbundled Access Process Manual (“NGA IPM”).
- b. Technical Handbook - Wholesale NGA National Deployment, Virtual Unbundled Access Products and Bitstream Plus (“FTTx Technical Handbook”)
- c. The Geographic Number Portability Process Industry Process Manual (“GNP IPM”)

All references are to the latest version published on ~~eircom~~ open eir Wholesale's's website, www.eircomwholesale.iewww.openeir.ie as agreed with the National Regulator with industry input in respect of developments and/or changes.

1.4 The remainder of this Service Schedule is separated in the following distinct sections:

Section A – Standalone Bitstream Plus Service

Section B -- POTS based Bitstream Plus Service

Section C – Bitstream Plus Unicast Service (“Unicast Service”)

Section D – Bitstream Plus Multicast Service (“Multicast Service”)

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Section A

FTTH/FTTC Standalone Bitstream Plus Access (“Standalone Bitstream Plus”)

2. Description and Conditions of Service

- 2.1 Subject to the provisions of this Schedule, ~~eircom~~ open eir shall provide the Standalone Bitstream Plus Service as specified from time to time in the Bitstream Plus Product Description and the ~~eircom~~ open eir Bitstream Price List. The Standalone Bitstream Plus Service shall be available via two variants:
- i. Fibre to the Home (“FTTH”), and
 - ii. Fibre to the Cabinet (“FTTC”).
- 2.2 The provisioning, operation and maintenance of Standalone Bitstream Plus Service shall be in accordance with the processes as set out in the NGA IPM.
- 2.3 The requirements for ordering Standalone Bitstream Plus Service shall be as set out in the Bitstream Plus Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of an UG order for the Standalone Bitstream Plus Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) and the Unicast Service as set out in the Bitstream Plus Product Description.
- 2.4 In the event that the Order for the Standalone Bitstream Plus Service does not satisfy the requirements set out in the Bitstream Plus Product Description



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and/or NGA IPM, the UG order for the Standalone Bitstream Plus Service will be rejected.

- 2.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~-open eir to temporarily suspend service on the Standalone Bitstream Plus Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~open eir's electronic communications network. Where possible ~~eircom~~-open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~-open eir will restore service as soon as possible after such suspension.
- 2.6 Use of the Standalone Bitstream Plus Service may be restricted by ~~eircom~~-open eir as required by applicable law or regulation. ~~eircom~~-open eir shall promptly notify the Operator in the event this Clause is invoked, including the reason(s).
- 2.7 ~~eircom~~-open eir does not warrant that the Standalone Bitstream Plus Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.
- 2.8 The Operator gaining the customer shall be responsible for porting or ceasing any telephone number under the GNP IPM, if applicable.

The correct routing of traffic resulting from GNP shall be achieved through the use of the routing prefixes as allocated by the National Regulator as outlined in the Industry Agreed "Number Portability Group Design Decisions, NP14".

Upon the completion of an order the Gaining Operator shall then be responsible for all obligations in respect of the NDD Listing for that consumer and the application of the DSP allowance, where appropriate.



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2.9 (i) The Operator is obliged to ensure that all equipment connected to the network is compliant with the vectoring standard defined in Section 3 of the Bitstream Plus Product Description. In the event that ~~eircom-open eir~~ finds noncompliant CPE, (other than as set out in (ii),(iii) and (iv) below), ~~eircom-open eir~~ shall be entitled to disconnect or suspend the service to individual Customers of the Operator or its wholesale Customers to mitigate network interference. Where issues are identified with individual Customer CPE that has successfully provided the Customers's NGA service, reasonable endeavours will be made to resolve the issue before invoking this Clause to disconnect or suspend service.

(ii) Where ~~eircom-open eir~~ plans to introduce new interface specifications that may cause interoperability and interworking issues with CPE already installed by Operators or any Operator's wholesale partner on the ~~eircom-open eir~~ network, ~~eircom-open eir~~ will

- (a) provide at least six (6) month's advance notice of the revised interface specifications and
- (b) provide reasonable test facilities to the Operator at least four (4) months in advance of the introduction of the revised interface specifications.
- (c) actively work with the Operator to resolve inter-operability and interworking issues, including both parties being prepared to change adjustable equipment configuration settings in order to resolve any interoperability and interworking issues.

(iii) Material Issues

In the event that the Operator encounters significant problems with the revised interface specifications which the Operator can demonstrate as having a materially negative impact on the existing service to a substantial number of Customers of an Operator or an Operator's wholesale partner, ~~eircom-open eir~~ (acting reasonably) will delay the



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introduction of the revised interface specifications for a reasonable period of time but not exceeding (four) 4 months, during which time the Operator will make all reasonable endeavours to develop solutions. For the purposes of this Clause, a substantial number of Customers is defined as being greater than 500 (five hundred).

(iv) Settlement and Dispute Resolution

Having followed the timeframes set out above, where ~~eircom-open eir~~ intends to proceed to launch the proposed interface specifications and the Parties have failed to reach agreement on the resolution of any issues identified by the Operator, the Operator has recourse to the Dispute Resolution process in Clause 10 of this Agreement.

3. Time Frame for Delivery

3.1 Provision of the Standalone Bitstream Plus Service shall be in accordance with the SLA.

4. Charging for the Standalone Bitstream Plus Service

4.1 The charges and/or charging principles for Standalone Bitstream Plus Service are as set out in the Bitstream Price List.

4.2 ~~eircom-open eir~~ shall be entitled to invoice the Operator in accordance with the intervals for charging set out in the Bitstream Price List.

4.3 The Operator shall remit payment for the Standalone Bitstream Plus Service by the Due Date.

4.4 The Operator shall be liable for charges associated with the Minimum Term for the Standalone Bitstream Plus Service in respect of each UG Order.

5. Term

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- 5.1 The minimum period of service for each order for the Standalone Bitstream Plus Service shall be six (6) months from date ~~eircom~~ open eir starts billing for that service.
- 5.2 A Minimum Term shall apply for orders placed where the Operator is the Gaining Operator for the Standalone Bitstream Plus Service.
- 6. Customer Authorisation**
- 6.1 The Gaining Operator must acquire a CAF prior to the submission of service orders unless the request is made in respect of:
- a). Intra-operator migrations, or
 - b) An emergency restore initiated by the Gaining Operator, or
 - c) Orders subject to a WOCF.
 - d) an order for a new customer provide for Standalone Bitstream Plus Service.
- 6.2 The Gaining Operator must retain a customer's CAF for a period of at least six months. Thereafter, the Gaining Operator must cease the service when the end user referenced in the CAF ceases services with the Gaining Operator.
- 6.3 If a customer complains to a Losing Operator regarding the change of service provider, the Losing Operator is entitled to request a copy of the CAF, and the Gaining Operator must provide a true copy of the CAF to that operator within two (2) Working Days.
- 6.4 If the Losing Operator is not satisfied with the copy of the CAF produced by the Gaining Operator, then in the case of paper CAF's, the Gaining Operator must provide access to the original CAF within two (2) Working Days.
- 7. Unauthorised Provision of Services ("Slamming")**
- 7.1 A Party shall not engage in Unauthorised Provisioning of Services. Nothing in this Clause 7 or elsewhere shall prejudice the rights of the National Regulator

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pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time, or otherwise.

- 7.2 Where an incident(s) of Unauthorised Provisioning of Services is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use its best endeavours to resolve the matter. Where the matter is resolved the Gaining Operator shall notify the Access Provider to reinstate the customer's service to the status prior to the disputed provisioning.
- 7.3 Where complaints concerning incident(s) of Unauthorised Provisioning of Service cannot be resolved in accordance with Clause 7.2, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 7.2, the Losing Operator shall have the option of either (1) referring the incident(s) to the National Regulator, or (2) requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

8. Migration Services

- 8.1 Migration of Services to the Bitstream Plus Services, including the POTS Based Bitstream Plus Service, are as set out in the NGA IPM (Industry Process Manual).
- 8.2 Subject to Clause 8.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form ("WOCF") or a completed CAF, if applicable.

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8.3 (i) Without prejudice to the generality of Clause 8.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator's decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the "Gaining Operator Indemnity"), provided always that:

a. The total aggregate liability of the Gaining Operator arising under or in relation to the Indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom-open eir~~ under the Indemnity shall be in writing and shall be deemed to be

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duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator's Customer shall indemnify and hold ~~eircom~~ open eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Operator Indemnity"). The Operator Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 8.3(ii),(a),(b), and (c) and sub-clause (iv) shall apply and the term "Gaining Operator" shall be replaced by the "Operator or the Operator's Customer" in respect of the Operator Indemnity

(iv) In order for ~~eircom~~ open eir to recover under or in respect of the Gaining Operator Indemnity, ~~eircom~~ open eir shall:

(a) Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~ open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation.

(b) Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);

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(c) Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and

(d) Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

8.4 Migration of Services will be subject to breaks in service as set out in the NGA IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Section B

FTTH/FTTC POTS based Bitstream Plus Service

9. Description and Conditions of Service

- 9.1 Subject to the provisions of this Schedule, ~~eircom~~ open eir shall provide the POTS based Bitstream Plus Service as specified from time to time in the Bitstream Plus Product Description and the ~~eircom~~ open eir Bitstream Price List. The POTS based Bitstream Plus Service is available via two variants:
- i. Fibre to the Home (“FTTH”), and
 - ii. Fibre to the Cabinet (“FTTC”).
- 9.2 The provisioning, operation and maintenance of POTS based Bitstream Plus Service shall be in accordance with the processes as set out in the NGA IPM.
- 9.3 The requirements for ordering the POTS based Bitstream Plus Service shall be as set out in the Bitstream Plus Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of an UG order for the POTS based Bitstream Plus Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) and the Unicast Service as set out in the Bitstream Plus Product Description
- 9.4 In the event that the UG order for the POTS based Bitstream Plus Service does not satisfy the requirements set out in the Bitstream Plus Product Description and/or NGA IPM, the UG order for the POTS based Bitstream Plus Service will be rejected.

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9.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~open eir to temporarily suspend service on the POTS based Bitstream Plus Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~open eir's electronic communications network. Where possible ~~eircom~~open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~open eir will restore service as soon as possible after such suspension.

9.6 Use of the POTS based Bitstream Plus Service may be restricted by ~~eircom~~open eir as required by applicable law or regulation. ~~eircom~~open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.

9.7 ~~eircom~~open eir does not warrant that the POTS based Bitstream Plus Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

9.8 It is a condition of the POTS based Bitstream Plus Service that a POTS line is In Service for the duration of the POTS based Bitstream Plus Service.

Where a POTS service is terminated, ~~eircom~~open eir shall be entitled to terminate the POTS based Bitstream Plus Service.

9.9 (i) The Operator is obliged to ensure that all equipment connected to the network is compliant with the vectoring standard defined in Section 3 of the Bitstream Plus Product Description. In the event that ~~eircom~~open eir finds noncompliant CPE, (other than as set out in (ii),(iii) and (iv) below), ~~eircom~~open eir shall be entitled to disconnect or suspend the service to individual Customers of the Operator or its wholesale Customers to mitigate network interference. Where issues are identified with individual Customer CPE that has successfully provided the Customer's NGA service,

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reasonable endeavours will be made to resolve the issue before invoking this Clause to disconnect or suspend service.

(ii) Where ~~eircom~~ open eir plans to introduce new interface specifications that may cause interoperability and interworking issues with CPE already installed by Operators or any Operator's wholesale partner on the ~~eircom~~ open eir network, ~~eircom~~ open eir will

(a) provide at least six (6) month's advance notice of the revised interface specifications and

(b) provide reasonable test facilities to the Operator at least four (4) months in advance of the introduction of the revised interface specifications.

(c) actively work with the Operator to resolve inter-operability and interworking issues, including both parties being prepared to change adjustable equipment configuration settings in order to resolve any interoperability and interworking issues.

(iii) Material Issues

In the event that the Operator encounters significant problems with the revised interface specifications which the Operator can demonstrate as having a materially negative impact on the existing service to a substantial number of Customers of an Operator or an Operator's wholesale partner, ~~eircom~~ open eir (acting reasonably) will delay the introduction of the revised interface specifications for a reasonable period of time but not exceeding (four) 4 months, during which time the Operator will make all reasonable endeavours to develop solutions. For the purposes of this Clause, a substantial number of Customers is defined as being greater than 500 (five hundred).

(iv) Settlement and Dispute Resolution

Having followed the timeframes set out above, where ~~eircom~~ open eir intends to proceed to launch the proposed interface specifications and

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the Parties have failed to reach agreement on the resolution of any issues identified by the Operator, the Operator has recourse to the Dispute Resolution process in Clause 10 of this Agreement.

10. Time Frame for Delivery

10.1 Provision of the broadband and multicast elements of the POTS based Bitstream Plus Service shall be in accordance with the SLA.

11. Charging for the POTS based Bitstream Plus Service

11.1 The charges and/or charging principles for POTS based Bitstream Plus Service are as set out in the Bitstream Price List.

11.2 ~~eircom-open eir~~ shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Price List.

11.3 The Operator shall remit payment for the POTS based Bitstream Plus Service by the Due Date.

11.4 The Operator shall be liable for charges associated with the Minimum Term for the POTS based Bitstream Plus Service in respect of each UG order.

12. Term

12.1 The Minimum Term of service for each order for the POTS based Bitstream Plus Service shall be six (6) months from date ~~eircom-open eir~~ starts billing for that service.

12.2 A Minimum Term shall apply for orders placed where the Operator is the Gaining Operator for the POTS based Bitstream Plus Service.

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13. Customer Authorisation

- 13.1 The Gaining Access Seeker must acquire a CAF prior to the submission of service orders unless the request is made in respect of:
- a). An order for a new provide for a POTS service, or
 - b). Intra-operator migrations, or
 - c) An emergency restore initiated by the Gaining Operator, or
 - d) Orders subject to a WOCF.
- 13.1 The Gaining Operator must retain a customer's CAF for a period of at least six months. Thereafter, the Gaining Operator must cease the service when the end user referenced in the CAF ceases services with the Gaining Operator.
- 13.2 If a customer complains to a Losing Operator regarding the change of service provider, the Losing Operator is entitled to request a copy of the CAF, and the Gaining Operator must provide a true copy of the CAF to that operator within two (2) Working Days.
- 13.3 If the Losing Operator is not satisfied with the copy of the CAF produced by the Gaining Operator, then in the case of paper CAF's, the Gaining Operator must provide access to the original CAF within two (2) Working Days.

Unauthorised Provision of Services ("Slamming")

- 14.1 A Party shall not engage in Unauthorised Provisioning of services. Nothing in this Clause 14 or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time.
- 14.2 Where an incident(s) of Unauthorised Provisioning of Services is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each

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Party shall use its best endeavours to resolve the matter. Where the matter is resolved the Gaining Operator shall notify the Access Provider to reinstate the customer's service to the status prior to the disputed provisioning.

- 14.3 Where complaints concerning incident(s) of Unauthorised Provisioning of Service cannot be resolved in accordance with Clause 14.2, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 14.2, the Losing Operator shall have the option of either (1) referring the incident(s) to the National Regulator, or (2) requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

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15. Migration Services

15.1 Migration of Services to the Bitstream Plus Services, including the Standalone Bitstream Plus Service, are as set out in the NGA IPM (Industry Process Manual).

15.2 Subject to Clause 15.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WOCF”) or a completed CAF if applicable.

15.3 (i) Without prejudice to the generality of Clause 15.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open~~ eir shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open~~ eir harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Gaining Operator Indemnity”), provided always that:

a The total aggregate liability of the Gaining Operator arising under or in relation to the Indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for



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one customer shall be deemed one event;

- b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

Any notice, demand or communication made by ~~eircom~~ open eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

- (iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator's Customer shall indemnify and hold ~~eircom~~ open eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Operator Indemnity"). The Operator Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 15.3(ii)(a),(b), and (c) and sub-clause (iv) shall apply and the term "Gaining Operator" shall be replaced by the "Operator or the Operator's Customer" in respect of the Operator Indemnity.

- (iv) In order for ~~eircom~~ open eir to recover under or in respect of the Gaining Operator Indemnity, ~~eircom~~ open eir shall:

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- a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~ open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:
- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);
- c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and
- d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

15.4 Migration Services will be subject to breaks in service as set out in the NGA IPM. The Parties shall endeavour to minimise the break in service for individual end users.



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Section C

Bitstream Plus Unicast Service

16. Description and Conditions of Service

16.1 Subject to the provisions of this Schedule, ~~eircom~~ open eir shall provide the Bitstream Plus Unicast Service (“Bitstream Plus Unicast Service”) as specified from time to time in the Bitstream Plus Product Description and the Bitstream Price List.

The Bitstream Plus Unicast (BPU) order provides connectivity across the ~~eircom~~ open eir NGA core from an Operator’s WEIL to a Bitstream Plus enabled Aggregation Node.

16.2 Bitstream Plus Unicast Service is a condition precedent to the provision of the Bitstream Plus Standalone Service and/or the Bitstream Plus POTS based Service.

16.3 The provisioning, operation and maintenance of the Bitstream Plus Unicast Service will be governed by the NGA IPM.

16.4 The requirements for ordering the Bitstream Plus Unicast Service shall be as set out in the Bitstream Plus Product Description and/or the NGA IPM. Specifically, it is a condition precedent to the acceptance of a UG order for the Bitstream Plus Unicast Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) as set out in the Bitstream Plus Product Description.

16.5 In the event that the UG order for the Bitstream Plus Unicast Service does not satisfy the requirements set out in the Bitstream Plus Product Description and/or NGA IPM, the UG order for the Bitstream Plus Unicast Service will be rejected.

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16.6 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the Bitstream Plus Unicast Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.

16.7 Use of the Bitstream Plus Unicast Service may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.

16.8 ~~eircom~~ open eir does not warrant that the Bitstream Plus Unicast Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

17. Time Frame for Delivery

17.1 Provision of the Bitstream Plus Unicast Service shall be in accordance with the SLA.

18. Charging for the Bitstream Plus Unicast Service

18.1 The charges and/or charging principles for Bitstream Plus Unicast Service are as set out in the Bitstream Price List.

18.2 ~~eircom~~ open eir shall be entitled to invoice the Operator at the intervals set out in the Bitstream Price List.

18.3 The Operator shall remit payment for the Bitstream Plus Unicast Service by the Due Date.



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Section D

Bitstream Plus Multicast Service

19. Description and Conditions of Service

19.1 Subject to the provisions of this Schedule, ~~eircom~~ open eir shall provide the Bitstream Plus Multicast Service as specified from time to time in the Bitstream Plus Product Description and the ~~eircom~~ open eir Bitstream Price List. The Multicast Service has three product components:

- i. Bitstream Plus Multicast (“BPM”), and
- ii. Bitstream Plus Exchange (“BPE”) and
- iii. Bitstream Plus Multicast Access (“BPA”).

BPM is the configuration of a Multicast Service for the Operator. BPE is the configuration of the associated Multicast Service for an individual Aggregation Node. Both BPM and BPE are more fully set out in Section D Part I of this Service Schedule.

BPA is the provision of associated Multicast services to an Operator’s individual end-users and is addressed in Section D Part II of this Schedule.

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Part I: Bitstream Plus Multicast (“BPM”) and Bitstream Plus Exchange (“BPE”)

20.1 The provisioning, operation and maintenance of a BPM and associated BPE(s) will be governed by the NGA IPM.

20.2 The requirements for ordering a BPM and associated BPE(s) shall be as set out in the Bitstream Plus Product Description and/or the NGA IPM. Specifically, conditions precedent to the acceptance of a UG order for the BPE to an Aggregation Node include that the Operator must have in place an associated BPM and an associated BPU (Unicast Service) to the same Aggregation node as set out in the Bitstream Plus Product Description.

Operators catering for one or more resellers must have in place a BPU and associated BPE per reseller. The Operator only needs to place one order for the BPM per reseller of the Operator.

20.3 In the event that any UG order for the BPM or BPE does not satisfy the requirements set out in the Bitstream Plus Product Description and/or NGA IPM, the UG Order for the BPM or BPE will be rejected.

20.4 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the BPM or BPE during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom-open eir~~ will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom-open eir~~ will restore service as soon as possible after such suspension.



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20.5 Use of the BPM or BPE may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reason(s).

20.6 ~~eircom~~ open eir does not warrant that the BPM or BPE Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

21. Time Frame for Delivery

21.1 Provision of the BPM and BPE shall be in accordance with the SLA.

22. Charging for the BPM and BPE Service

22.1 The charges and/or charging principles for BPM and BPE services are as set out in the Bitstream Price List.

22.2 ~~eircom~~ open eir shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Price List.

22.3 The Operator shall remit payment for the BPM and BPE by the Due Date.

22.4 The Operator shall be liable for charges associated with the Minimum Term for the BPM and BPE.

23. Term

23.1 The minimum period of service for the BPM and BPE service shall be twelve (12) months commencing on the Commencement of Charging Date.

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Part II Bitstream Plus Multicast Access Service (“BPA”)

- 25.1 The provisioning, operation and maintenance of the BPA will be governed by the NGA IPM.
- 25.2 The requirements for ordering the BPA shall be as set out in the Bitstream Plus Product Description and/or the NGA IPM. Specifically, it is a condition precedent to the acceptance of a UG order for the BPA that the Operator must have in place the associated BPE and associated BPU (Unicast Service) and associated BPM as set out in the Bitstream Plus Product Description. The BPA must be ordered individually for each of the Operator’s end-users.
- 25.3 In the event that any UG order for the BPA does not satisfy the requirements set out in the Bitstream Plus Product Description and/or NGA IPM, the UG Order for the BPA Service will be rejected.

The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the BPA during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension

- 25.4 Use of the BPA may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.
- 25.5 ~~eircom~~ open eir does not warrant that the BPA will meet the Operator’s requirements or the requirements of any third party or that the operation of the

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Service will be uninterrupted or error-free or that any defect in the Service can be remedied

26. Time Frame for Delivery

26.1 Provision of the BPA shall be in accordance with the SLA.

27. Charging for the BPA Service

27.1 The charges and/or charging principles for BPA Service are as set out in the Bitstream Price List.

27.2 ~~eircom~~ open eir shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Price List.

27.3 The Operator shall remit payment for the BPA Service by the Due Date.

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Annex C
Service Schedule 302
FTTH/FTTC Virtual Unbundled Access (VUA) Service

This Service Schedule is effective from the date of signature of this Virtual Unbundled Access Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

1. Definitions

- 1.1 In this Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Schedule. Words and expressions have the meanings given in Annex A, except as otherwise expressly stated in this Schedule.
- 1.2 The documents referenced in this Service Schedule that are contractually binding:
- a. Product Description –NGA Virtual Unbundled Access Products (“Virtual Unbundled Access Product Description”);
 - b. The Bitstream Price List (“Bitstream Price List”)
 - c. The Copper Loop Frequency Management Plan (“CLFMP”);
 - d. NGA Bitstream Plus and NGA Virtual Unbundled Access Products Service Level Agreement (“SLA”);
 - e. Unified Gateway Interface Guidelines
 - f. ~~eircom~~ open eir Wholesale Unified Gateway Data Contract (“UG Data Contract”)
 - g. Requirements for Paper Customer Authorisation (“ Paper CAF”);
 - h. Requirements for Third Party Verification (“TPV”);
 - i. Requirements for Electronic Customer Authorisation (“eCAF”); and

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j. Requirements for Operator Internal Customer Verification (“vCAF”).

The controlling document is the latest version of the above titled document published on ~~eircom~~ ~~open~~ ~~eir~~ Wholesale’s’s website, www.eircomwholesale.ie www.openeir.ie, in accordance with the Publication Requirements.

1.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

- a. Wholesale NGA Bitstream Plus and Virtual Unbundled Access Process Manual (“NGA IPM”).
- b. Technical Handbook - Wholesale NGA National Deployment, Virtual Unbundled Access Products and Bitstream Plus (“FTTx Technical Handbook”)
- c. The Geographic Number Portability Process Industry Process Manual (“GNP IPM”)

All references are to the latest version published on ~~eircom~~ ~~open~~ ~~eir~~ Wholesale’s’s website, www.eircomwholesale.ie www.openeir.ie as agreed with the National Regulator with industry input in respect of developments and/or changes.

1.4 The remainder of this Service Schedule is separated in the following distinct sections:

Section A – Standalone Virtual Unbundled Access Service

Section B -- POTS Based Virtual Unbundled Access Service

Section C – Virtual Unbundled Access Unicast Service (“Unicast Service”)

Section D – Virtual Unbundled Access Multicast Service (“Multicast Service”)

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Section A

FTTH/FTTC Standalone Virtual Unbundled Access (“Standalone Virtual Unbundled Access”)

2. Description and Conditions of Service

- 2.1 Subject to the provisions of this Schedule, ~~eircom~~ open eir shall provide the Standalone Virtual Unbundled Access Service as specified from time to time in the Virtual Unbundled Access Product Description and the ~~eircom~~ open eir Bitstream Price List. The Standalone Virtual Unbundled Access Service shall be available via two variants:
- i. Fibre to the Home (“FTTH”), and
 - ii. Fibre to the Cabinet (“FTTC”).
- 2.2 The provisioning, operation and maintenance of Standalone Virtual Unbundled Access Service shall be in accordance with the processes as set out in the NGA IPM.
- 2.3 The requirements for ordering Standalone Virtual Unbundled Access Service shall be as set out in the Virtual Unbundled Access Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of an UG order for the Standalone Virtual Unbundled Access Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) and the Unicast Service as set out in the Virtual Unbundled Access Product Description.
- 2.4 In the event that the Order for the Standalone Virtual Unbundled Access Service does not satisfy the requirements set out in the Virtual Unbundled



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Access Product Description and/or NGA IPM, the UG order for the Standalone Virtual Unbundled Access Service will be rejected.

- 2.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the Standalone Virtual Unbundled Access Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.
- 2.6 Use of the Standalone Virtual Unbundled Access Service may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reason(s).
- 2.7 ~~eircom~~ open eir does not warrant that the Standalone Virtual Unbundled Access Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.
- 2.8 The Operator gaining the customer shall be responsible for porting or ceasing any telephone number under the GNP IPM, if applicable.

The correct routing of traffic resulting from GNP shall be achieved through the use of the routing prefixes as allocated by the National Regulator as outlined in the Industry Agreed "Number Portability Group Design Decisions, NP14".

Upon the completion of an order the Gaining Operator shall then be responsible for all obligations in respect of the NDD Listing for that consumer and the application of the DSP allowance, where appropriate.

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2.9 (i) The Operator is obliged to ensure that all equipment connected to the network is compliant with the vectoring standard defined in Section 3 of the Virtual Unbundled Access Product Description. In the event that ~~eircom-open eir~~ finds noncompliant CPE, (other than as set out in (ii),(iii) and (iv) below), ~~eircom-open eir~~ shall be entitled to disconnect or suspend the service to individual Customers of the Operator or its wholesale Customers to mitigate network interference. Where issues are identified with individual Customer CPE that has successfully provided the Customer's NGA service, reasonable endeavours will be made to resolve the issue before invoking this Clause to disconnect or suspend service.

(ii) Where ~~eircom-open eir~~ plans to introduce new interface specifications that may cause interoperability and interworking issues with CPE already installed by Operators or any Operator's wholesale partner on the ~~eircom-open eir~~ network, ~~eircom-open eir~~ will

- (a) provide at least six (6) month's advance notice of the revised interface specifications and
- (b) provide reasonable test facilities to the Operator at least four (4) months in advance of the introduction of the revised interface specifications.
- (c) actively work with the Operator to resolve inter-operability and interworking issues, including both parties being prepared to change adjustable equipment configuration settings in order to resolve any interoperability and interworking issues.

(iii) Material Issues

In the event that the Operator encounters significant problems with the revised interface specifications which the Operator can demonstrate as having a materially negative impact on the existing service to a substantial number of Customers of an Operator or an Operator's

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wholesale partner, ~~eircom~~-open eir (acting reasonably) will delay the introduction of the revised interface specifications for a reasonable period of time but not exceeding four (4) months, during which time the Operator will make all reasonable endeavours to develop solutions. For the purposes of this Clause, a substantial number of Customers is defined as being greater than 500 (five hundred).

(iv) Settlement and Dispute Resolution

Having followed the timeframes set out above, where ~~eircom~~-open eir intends to proceed to launch the proposed interface specifications and the Parties have failed to reach agreement on the resolution of any issues identified by the Operator, the Operator has recourse to the Dispute Resolution process in Clause 10 of this Agreement

3. Time Frame for Delivery

3.1 Provision of the Standalone Virtual Unbundled Access Service shall be in accordance with the SLA.

4. Charging for the Standalone Virtual Unbundled Access Service

4.1 The charges and/or charging principles for Standalone Virtual Unbundled Access Service are as set out in the Bitstream Price List.

4.5 ~~eircom~~-open eir shall be entitled to invoice the Operator in accordance with the intervals for charging set out in the Bitstream Price List.

4.6 The Operator shall remit payment for the Standalone Virtual Unbundled Access Service by the Due Date.

4.7 The Operator shall be liable for charges associated with the Minimum Term for the Standalone Virtual Unbundled Access Service in respect of each UG Order.

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5. Term

- 5.1 The Minimum Term of service for each order for the Standalone Virtual Unbundled Access Service shall be six (6) months from date ~~eircom~~ open eir starts billing for that service.
- 5.2 A Minimum Term shall apply for orders placed where the Operator is the Gaining Operator for the Standalone Virtual Unbundled Access Service.

6. Customer Authorisation

- 6.5 The Gaining Operator must acquire a CAF prior to the submission of service orders unless the request is made in respect of:
 - a). Intra-operator migrations, or
 - b) An emergency restore initiated by the Gaining Operator, or
 - c) Orders subject to a WOCF.
 - d) an order for a new customer provide for Standalone Virtual Unbundled Access Service.
- 6.6 The Gaining Operator must retain a customer's CAF for a period of at least six months. Thereafter, the Gaining Operator must cease the service when the end user referenced in the CAF ceases services with the Gaining Operator.
- 6.7 If a customer complains to a Losing Operator regarding the change of service provider, the Losing Operator is entitled to request a copy of the CAF, and the Gaining Operator must provide a true copy of the CAF to that operator within two (2) Working Days.
- 6.8 If the Losing Operator is not satisfied with the copy of the CAF produced by the Gaining Operator, then in the case of paper CAF's, the Gaining Operator must provide access to the original CAF within two (2) Working Days.

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7. Unauthorised Provision of Services (“Slamming”)

- 7.1 A Party shall not engage in Unauthorised Provisioning of Services. Nothing in this Clause 7 or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time, or otherwise.
- 7.2 Where an incident(s) of Unauthorised Provisioning of Services is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use its best endeavours to resolve the matter. Where the matter is resolved the Gaining Operator shall notify the Access Provider to reinstate the customer’s service to the status prior to the disputed provisioning.
- 7.3 Where complaints concerning incident(s) of Unauthorised Provisioning of Service cannot be resolved in accordance with Clause 7.2, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 7.2, the Losing Operator shall have the option of either (1) referring the incident(s) to the National Regulator, or (2) requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

8. Migration Services

- 8.3 Migration of Services to the Virtual Unbundled Access Services, including the POTS Based Virtual Unbundled Access Service, are as set out in the NGA IPM (Industry Process Manual).



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8.4 Subject to Clause 8.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WO CF”) or a completed CAF, if applicable.

8.3 (i) Without prejudice to the generality of Clause 8.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom~~ open eir shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom~~ open eir harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Gaining Operator Indemnity”), provided always that:

a. The total aggregate liability of the Gaining Operator arising under or in relation to the Indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;

b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and



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c. Any notice, demand or communication made by ~~eircom~~open_eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Virtual Unbundled Access Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator's Customer shall indemnify and hold ~~eircom~~open_eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Operator Indemnity"). The Operator Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 8.3(ii)(a),(b), and (c) and sub-clause (iv) shall apply and the term "Gaining Operator" shall be replaced by the "Operator or the Operator's Customer" in respect of the Operator Indemnity

(iv) In order for ~~eircom~~open_eir to recover under or in respect of the Gaining Operator Indemnity, ~~eircom~~open_eir shall:

(a) Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~open_eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation.

(b) Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses

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and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);

(c) Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and

(d) Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

8.5 Migration of Services will be subject to breaks in service as set out in the NGA IPM. The Parties shall endeavour to minimise the break in service for individual end users.



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Section B

FTTH/FTTC POTS Based Virtual Unbundled Access (VUA) Service

9. Description and Conditions of Service

9.1 Subject to the provisions of this Schedule, ~~eircom~~open eir shall provide the POTS Based Virtual Unbundled Access Service as specified from time to time in the Virtual Unbundled Access Product Description and the ~~eircom~~open eir Bitstream Price List. The POTS Based Virtual Unbundled Access Service is available via two variants:

- i. Fibre to the Home (“FTTH”), and
- ii. Fibre to the Cabinet (“FTTC”).

9.2 The provisioning, operation and maintenance of POTS based Virtual Unbundled Access Service shall be in accordance with the processes as set out in the NGA IPM.

9.3 The requirements for ordering the POTS Based Virtual Unbundled Access Service shall be as set out in the Virtual Unbundled Access Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of an UG order for the POTS Based Virtual Unbundled Access Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) and the Unicast Service as set out in the Virtual Unbundled Access Product Description

9.4 In the event that the UG order for the POTS Based Virtual Unbundled Access Service does not satisfy the requirements set out in the Virtual Unbundled

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Access Product Description and/or NGA IPM, the UG order for the POTS Based Virtual Unbundled Access Service will be rejected.

9.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the POTS Based Virtual Unbundled Access Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.

9.6 Use of the POTS Based Virtual Unbundled Access Service may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.

9.7 ~~eircom~~ open eir does not warrant that the POTS Based Virtual Unbundled Access Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

9.8 It is a condition of the POTS Based Virtual Unbundled Access Service that a POTS line is In Service for the duration of the POTS Based Virtual Unbundled Access Service.

Where a POTS service is terminated, ~~eircom~~ open eir shall be entitled to terminate the POTS Based Virtual Unbundled Access Service.

9.9 (i) The Operator is obliged to ensure that all equipment connected to the network is compliant with the vectoring standard defined in Section 3 of the Virtual Unbundled Access Product

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Description. In the event that eircom-open eir finds noncompliant CPE, (other than as set out in (ii),(iii) and (iv) below), eircom-open eir shall be entitled to disconnect or suspend the service to individual Customers of the Operator or its wholesale Customers to mitigate network interference. Where issues are identified with individual Customer CPE that has successfully provided the Customer's NGA service, reasonable endeavours will be made to resolve the issue before invoking this Clause to disconnect or suspend service.

- (ii) Where eircom-open eir plans to introduce new interface specifications that may cause interoperability and interworking issues with CPE already installed by Operators or any Operator's wholesale partner on the eircom-open eir network, eircom-open eir will
- (a) provide at least six (6) month's advance notice of the revised interface specifications and
 - (b) provide reasonable test facilities to the Operator at least four (4) months in advance of the introduction of the revised interface specifications.
 - (c) actively work with the Operator to resolve inter-operability and interworking issues, including both parties being prepared to change adjustable equipment configuration settings in order to resolve any interoperability and interworking issues.

(iii) Material Issues

In the event that the Operator encounters significant problems with the revised interface specifications which the Operator can demonstrate as having a materially negative impact on the existing service to a substantial number of Customers of an Operator or an Operator's wholesale partner, eircom-open eir (acting reasonably) will delay the introduction of the revised interface specifications for a reasonable period of time but not exceeding four (4) months, during which time the



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Operator will make all reasonable endeavours to develop solutions. For the purposes of this Clause, a substantial number of Customers is defined as being greater than 500 (five hundred).

(iv) Settlement and Dispute Resolution

Having followed the timeframes set out above, where ~~eircom-open eir~~ intends to proceed to launch the proposed interface specifications and the Parties have failed to reach agreement on the resolution of any issues identified by the Operator, the Operator has recourse to the Dispute Resolution process in Clause 10 of this Agreement

10. Time Frame for Delivery

10.1 Provision of the broadband and multicast elements of the POTS Based Virtual Unbundled Access Service shall be in accordance with the SLA.

11. Charging for the POTS Based Virtual Unbundled Access Service

11.1 The charges and/or charging principles for POTS Based Virtual Unbundled Access Service are as set out in the Bitstream Price List.

11.5 ~~eircom-open eir~~ shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Price List.

11.6 The Operator shall remit payment for the POTS Based Virtual Unbundled Access Service by the Due Date.

11.7 The Operator shall be liable for charges associated with the Minimum Term for the POTS Based Virtual Unbundled Access Service in respect of each UG order.

12. Term

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- 12.1 The Minimum Term of service for each order for the POTS Based Virtual Unbundled Access Service shall be six (6) months from date ~~eircom~~ open eir starts billing for that service.
- 12.2 A Minimum Term shall apply for orders placed where the Operator is the Gaining Operator for the POTS Based Virtual Unbundled Access Service.

13. Customer Authorisation

- 13.2 The Gaining Access Seeker must acquire a CAF prior to the submission of service orders unless the request is made in respect of:
- a). An order for a new provide for a POTS service, or
 - b). Intra-operator migrations, or
 - c) An emergency restore initiated by the Gaining Operator, or
 - d) Orders subject to a WOCF.
- 13.3 The Gaining Operator must retain a Customer's CAF for a period of at least six months. Thereafter, the Gaining Operator must cease the service when the end user referenced in the CAF ceases services with the Gaining Operator.
- 13.4 If a customer complains to a Losing Operator regarding the change of service provider, the Losing Operator is entitled to request a copy of the CAF, and the Gaining Operator must provide a true copy of the CAF to that operator within two (2) Working Days.
- 13.5 If the Losing Operator is not satisfied with the copy of the CAF produced by the Gaining Operator, then in the case of paper CAF's, the Gaining Operator must provide access to the original CAF within two (2) Working Days.

14. Unauthorised Provision of Services ("Slamming")

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- 14.4 A Party shall not engage in Unauthorised Provisioning of services. Nothing in this Clause 14 or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time.
- 14.5 Where an incident(s) of Unauthorised Provisioning of Services is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use its best endeavours to resolve the matter. Where the matter is resolved the Gaining Operator shall notify the Access Provider to reinstate the customer's service to the status prior to the disputed provisioning.
- 14.6 Where complaints concerning incident(s) of Unauthorised Provisioning of Service cannot be resolved in accordance with Clause 14.2, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 14.2, the Losing Operator shall have the option of either (1) referring the incident(s) to the National Regulator, or (2) requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

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15. Migration Services

15.1 Migration of Services to the Virtual Unbundled Access Services, including the Standalone Virtual Unbundled Access Service, are as set out in the NGA IPM (Industry Process Manual).

15.2 Subject to Clause 15.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form (“WOCF”) or a completed CAF, if applicable.

15.3 (i) Without prejudice to the generality of Clause 15.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open~~ eir shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-clause (iv) below, indemnify and hold ~~eircom-open~~ eir harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the customer which arise directly and solely from the Gaining Operator’s decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the “Gaining Operator Indemnity”), provided always that:

a The total aggregate liability of the Gaining Operator arising under or in relation to the Indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one customer shall be deemed one event;



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- b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and
 - c. Any notice, demand or communication made by ~~eircom~~ open eir under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Virtual Unbundled Access Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.
- (iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator's Customer shall indemnify and hold ~~eircom~~ open eir harmless in respect of any claims made by customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Operator Indemnity"). The Operator Indemnity given in this sub-clause shall be subject to the provisions as set out in Clause 15.3(ii)(a),(b), and (c) and sub-clause (iv) shall apply and the term "Gaining Operator" shall be replaced by the "Operator or the Operator's Customer" in respect of the Operator Indemnity.
- (iv) In order for ~~eircom~~ open eir to recover under or in respect of the Gaining Operator Indemnity, ~~eircom~~ open eir shall:

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- a. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom~~ open eir becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:
- b. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator (not to be unreasonably withheld);
- c. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and
- d. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

15.4 Migration Services will be subject to breaks in service as set out in the NGA IPM. The Parties shall endeavour to minimise the break in service for individual end users.



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Section C

Virtual Unbundled Access Unicast Service

16. Description and Conditions of Service

16.1 Subject to the provisions of this Schedule, ~~eirecom~~ open eir shall provide the Virtual Unbundled Access Unicast Service (“Virtual Unbundled Access Unicast Service”) as specified from time to time in the Virtual Unbundled Access Product Description and the Bitstream Price List.

The Virtual Unbundled Access Unicast (VAU) order provides connectivity from an Operator’s WEIL to a Virtual Unbundled Access enabled Aggregation Node.

16.2 Virtual Unbundled Access Unicast Service is a condition precedent to the provision of the Virtual Unbundled Access Standalone Service and/or the Virtual Unbundled Access POTS based Service.

16.3 The provisioning, operation and maintenance of the Virtual Unbundled Access Unicast Service will be governed by the NGA IPM.

16.4 The requirements for ordering the Virtual Unbundled Access Unicast Service shall be as set out in the Virtual Unbundled Access Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of a UG order for the Virtual Unbundled Access Unicast Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) as set out in the Virtual Unbundled Access Product Description.

16.5 In the event that the UG order for the Virtual Unbundled Access Unicast Service does not satisfy the requirements set out in the Virtual Unbundled

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Access Product Description and/or NGA IPM, the UG order for the Virtual Unbundled Access Unicast Service will be rejected.

16.6 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the Virtual Unbundled Access Unicast Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.

16.7 Use of the Virtual Unbundled Access Unicast Service may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.

16.8 ~~eircom~~ open eir does not warrant that the Virtual Unbundled Access Unicast Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

17. Time Frame for Delivery

17.1 Provision of the Virtual Unbundled Access Unicast Service shall be in accordance with the SLA.

18. Charging for the Virtual Unbundled Access Unicast Service

18.1 The charges and/or charging principles for Virtual Unbundled Access Unicast Service are as set out in the Bitstream Price List.

18.2 ~~eircom~~ open eir shall be entitled to invoice the Operator at the intervals set out in the Bitstream Price List.



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18.3 The Operator shall remit payment for the Virtual Unbundled Access Unicast Service by the Due Date.

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Section D

Virtual Unbundled Access Multicast Service

19. Description and Conditions of Service

19.1 Subject to the provisions of this Schedule, ~~eircom~~ open eir shall provide the Virtual Unbundled Access Multicast Service as specified from time to time in the Virtual Unbundled Access Product Description and the ~~eircom~~ open eir Bitstream Price List. The Multicast Service has two product components:

- i. Virtual Unbundled Access Multicast (“VAM”), and
- ii. Virtual Unbundled Access Multicast Access (“VMA”).

VAM is the configuration of a Multicast Service for the Operator at an individual Aggregation node where there is a local handoff to a WEIL. The VAM is more fully set out in Section D Part I of this Service Schedule.

VMA is the provision of associated Multicast services to an Operator’s individual end-users and is addressed in Section D Part II of this Schedule.

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Part I: Virtual Unbundled Access Multicast (“VAM”)

- 20.1 The provisioning, operation and maintenance of a VAM will be governed by the NGA IPM.
- 20.2 The requirements for ordering a VAM shall be as set out in the Virtual Unbundled Access Product Description and/or NGA IPM. Specifically, conditions precedent to the acceptance of a UG order for the VAM to an Aggregation Node include that the Operator must have in place an associated VAU (Unicast Service) to the same Aggregation node as set out in the Virtual Unbundled Access Product Description.

An Operator catering for one or more resellers must have in place a VAU per reseller. An Operator catering for one or more multicast resellers must have in place a VAM per reseller.

- 20.3 In the event that any UG order for the VAM does not satisfy the requirements set out in the Virtual Unbundled Access Product Description and/or NGA IPM, the UG Order for the VAM will be rejected.
- 20.4 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the VAM during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.



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20.5 Use of the VAM may be restricted by ~~eircom~~open eir as required by applicable law or regulation. ~~eircom~~open eir shall promptly notify the Operator in the event this Clause is invoked, including the reason(s).

20.6 ~~eircom~~open eir does not warrant that the VAM Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

21. Time Frame for Delivery

21.1 Provision of the VAM shall be in accordance with the SLA.

22. Charging for the VAM Service

22.1 The charges and/or charging principles for VAM services are as set out in the Bitstream Price List.

22.2 ~~eircom~~open eir shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Price List.

22.3 The Operator shall remit payment for the VAM by the Due Date.

22.4 The Operator shall be liable for charges associated with the Minimum Term for the VAM.

23. Term

23.1 The minimum period of service for the VAM service shall be twelve (12) months commencing on the Commencement of Charging Date.

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Part II: Virtual Unbundled Access Multicast Access Service (“VMA”)

- 25.1 The provisioning, operation and maintenance of the VMA will be governed by the NGA IPM.
- 25.2 The requirements for ordering the VMA shall be as set out in the Virtual Unbundled Access Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of a UG order for the VMA that the Operator must have in place the associated VAU (Unicast Service) and associated VAM as set out in the Virtual Unbundled Access Product Description. The VMA must be ordered individually for each of the Operator’s end-users.
- 25.3 In the event that any UG order for the VMA does not satisfy the requirements set out in the Virtual Unbundled Access Product Description and/or NGA IPM, the UG Order for the VMA Service will be rejected.

The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the VMA during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.

- 25.4 Use of the VMA may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.



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25.5 ~~eircom~~open eir does not warrant that the VMA will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

26. Time Frame for Delivery

26.1 Provision of the VMA shall be in accordance with the SLA.

27. Charging for the VMA Service

27.1 The charges and/or charging principles for VMA Service are as set out in the Bitstream Price List.

27.2 ~~eircom~~open eir shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Price List.

27.3 The Operator shall remit payment for the VMA Service by the Due Date.



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Annex C
Service Schedule 303
FTTC Bitstream Plus VDSL Ethernet Access Service

This Service Schedule is effective from the date of signature of this Bitstream Agreement and/or an Amendment and shall remain in effect until amended following agreement of the Parties to such amendment or following determination by the National Regulator.

2. Definitions

2.1 In this Service Schedule, a reference to a paragraph, unless stated otherwise, is to a paragraph of this Service Schedule. Words and expressions have the meanings given in Annex A, except as otherwise expressly stated in this Service Schedule.

2.2 The documents referenced in this Service Schedule that are contractually binding:

- a. Product Description – NGA Bitstream Plus Products (“Bitstream Plus Product Description”);
- b. The Bitstream Service Price List (“Bitstream Service Price List”)
- c. The Copper Loop Frequency Management Plan (“CLFMP”);
- d. NGA Bitstream Plus and NGA Virtual Unbundled Access Products Service Level Agreement (“NGA SLA”);
- e. Unified Gateway Interface Guidelines
- f. ~~eircom~~-open eir Wholesale Unified Gateway Data Contract (“UG Data Contract”)
- g. Requirements for Paper Customer Authorisation (“Paper CAF”);
- h. Requirements for Third Party Verification (“TPV”);
- i. Requirements for Electronic Customer Authorisation (“eCAF”); and

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[j. Requirements for Operator Internal Customer Verification \(“vCAF”\).](#)

The controlling document is the latest version of the above titled document published on ~~eircom~~ ~~open~~ ~~eirWholesale’s’s~~ website, ~~www.eircomwholesale.ie~~ ~~www.openeir.ie~~, in accordance with the Publication Requirements.

2.3 The following document(s) referenced in this Service Schedule sets the procedures and standards for operation, but are non-contractual:

d. Wholesale NGA Bitstream Plus and Virtual Unbundled Access Process Manual (“NGA IPM”).

e. Technical Handbook - Wholesale NGA National Deployment, Virtual Unbundled Access Products and Bitstream Plus (“FTTx Technical Handbook”)

f. The Geographic Number Portability Process Industry Process Manual (“GNP IPM”)

All references are to the latest version published on ~~eircom~~ ~~open~~ ~~eirWholesale’s’s~~ website, ~~www.eircomwholesale.ie~~ ~~www.openeir.ie~~ as agreed with the National Regulator with industry input in respect of developments and/or changes.

2.4 The remainder of this Service Schedule is separated in the following distinct sections:

Section A – Standalone Bitstream Plus VDSL Ethernet Access Service

Section B – POTS based Bitstream Plus VDSL Ethernet Access Service

Section C – Bitstream Plus Unicast Service (“Unicast Service”)



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Section A

FTTC Standalone Bitstream Plus VDSL Ethernet Access Service (“Standalone Bitstream Plus VEA”)

3. Description and Conditions of Service

3.1 Subject to the provisions of this Service Schedule, ~~eircom-open eir~~ shall provide the Standalone Bitstream Plus VEA Service as specified from time to time in the Bitstream Plus Product Description and the ~~eircom-open eir~~ Bitstream Service Price List. The Standalone Bitstream Plus VEA Service is delivered via:

i. Fibre to the Cabinet (“FTTC”) only

3.2 The provisioning, operation and maintenance of Standalone Bitstream Plus VEA Service shall be in accordance with the processes as set out in the NGA IPM.

3.3 The requirements for ordering Standalone Bitstream Plus VEA Service shall be as set out in the Bitstream Plus Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of an UG order for the Standalone Bitstream Plus VEA Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) and the Unicast Service as set out in the Bitstream Plus Product Description.

3.4 In the event that the Order for the Standalone Bitstream Plus VEA Service does not satisfy the requirements set out in the Bitstream Plus Product Description and/or NGA IPM, the UG order for the Standalone Bitstream Plus VEA Service will be rejected.



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3.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend service on the Standalone Bitstream Plus VEA Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~open eir's electronic communications network. Where possible ~~eircom~~open eir will give the Operator at least five (5) Working Days' notice prior to such suspension and ~~eircom~~open eir will restore service as soon as possible after such suspension.

3.6 Use of the Standalone Bitstream Plus VEA Service may be restricted by ~~eircom~~open eir as required by applicable law or regulation. ~~eircom~~open eir shall promptly notify the Operator in the event this Clause is invoked, including the reason(s).

3.7 ~~eircom~~open eir does not warrant that the Standalone Bitstream Plus VEA Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

3.8 The Operator gaining the Customer shall be responsible for porting or ceasing any telephone number under the GNP IPM, if applicable.

The correct routing of traffic resulting from GNP shall be achieved through the use of the routing prefixes as allocated by the National Regulator as outlined in the Industry Agreed "Number Portability Group Design Decisions, NP14".

Upon the completion of an order the Gaining Operator shall then be responsible for all obligations in respect of the NDD Listing for that consumer.

3.9 (i) The Operator is obliged to ensure that all equipment connected to the network is compliant with the vectoring standard defined in Section 3 of the Bitstream Plus Product Description. In the event that ~~eircom~~open eir finds non-compliant CPE, (other than as set out in (ii),(iii) and (iv) below), ~~eircom~~open eir



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shall be entitled to disconnect or suspend the service to individual Customers of the Operator or its wholesale Customers to mitigate network interference. Where issues are identified with individual Customer CPE that has successfully provided the Customer's NGA service, reasonable endeavours will be made to resolve the issue before invoking this Clause to disconnect or suspend service.

(ii) Where ~~eircom-open eir~~ plans to introduce new interface specifications that may cause interoperability and interworking issues with CPE already installed by Operators or any Operator's wholesale partner on the ~~eircom-open eir~~ network, ~~eircom-open eir~~ will

(d) provide at least six (6) month's advance notice of the revised interface specifications and

(e) provide reasonable test facilities to the Operator at least four (4) months in advance of the introduction of the revised interface specifications.

(f) actively work with the Operator to resolve inter-operability and interworking issues, including both parties being prepared to change adjustable equipment configuration settings in order to resolve any interoperability and interworking issues.

(iii) Material Issues

In the event that the Operator encounters significant problems with the revised interface specifications which the Operator can demonstrate as having a materially negative impact on the existing service to a substantial number of Customers of an Operator or an Operator's wholesale partner, ~~eircom-open eir~~ (acting reasonably) will delay the introduction of the revised interface specifications for a reasonable period of time but not exceeding (four) 4 months, during which time the Operator will make all reasonable endeavours to develop solutions. For the purposes of this Clause, a substantial number of Customers is defined as being greater than 500 (five hundred).

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(iv) Settlement and Dispute Resolution

Having followed the timeframes set out above, where ~~eircom-open eir~~ intends to proceed to launch the proposed interface specifications and the Parties have failed to reach agreement on the resolution of any issues identified by the Operator, the Operator has recourse to the Dispute Resolution process in Clause 10 of this Bitstream Agreement.

4. Time Frame for Delivery

4.1 Provision of the Standalone Bitstream Plus VEA Service shall be in accordance with the NGA SLA.

5. Charging for the Standalone Bitstream Plus VEA Service

4.8 The charges and/or charging principles for Standalone Bitstream Plus VEA Service are as set out in the Bitstream Service Price List.

4.9 ~~eircom-open eir~~ shall be entitled to invoice the Operator in accordance with the intervals for charging set out in the Bitstream Service Price List.

4.10 The Operator shall remit payment for the Standalone Bitstream Plus VEA Service by the Due Date.

4.11 The Operator shall be liable for charges associated with the Minimum Term for the Standalone Bitstream Plus VEA Service in respect of each UG Order.

6. Term

6.1 The minimum period of service for each order for the FTTC Standalone Bitstream Plus VEA Service shall be six (6) months from the date ~~eircom-open eir~~ starts billing for that service.

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6.2 A Minimum Term shall apply for orders placed where the Operator is the Gaining Operator for the Standalone Bitstream Plus VEA Service.

7. Customer Authorisation

6.9 The Gaining Operator must acquire a CAF prior to the submission of service orders unless the request is made in respect of:

- a) Intra-operator migrations, or
- b) An emergency restore initiated by the Gaining Operator, or
- c) Orders subject to a WOCF.
- d) an order for a new Customer provide for Standalone Bitstream VEA Plus Service.

6.10 The Gaining Operator must retain a Customer's CAF for a period of at least six months. Thereafter, the Gaining Operator must cease the service when the end user referenced in the CAF ceases services with the Gaining Operator.

6.11 If a Customer complains to a Losing Operator regarding the change of service provider, the Losing Operator is entitled to request a copy of the CAF, and the Gaining Operator must provide a true copy of the CAF to that operator within two (2) Working Days.

6.12 If the Losing Operator is not satisfied with the copy of the CAF produced by the Gaining Operator, then in the case of paper CAF's, the Gaining Operator must provide access to the original CAF within two (2) Working Days.

8. Unauthorised Provision of Services ("Slamming")

8.1 A Party shall not engage in Unauthorised Provisioning of Services. Nothing in this Clause 8 or elsewhere shall prejudice the rights of the National Regulator

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pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time, or otherwise.

8.2 Where an incident(s) of Unauthorised Provisioning of Services is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use its best endeavours to resolve the matter. Where the matter is resolved the Gaining Operator shall notify the Access Provider to reinstate the Customer's service to the status prior to the disputed provisioning.

8.3 Where complaints concerning incident(s) of Unauthorised Provisioning of Service cannot be resolved in accordance with Clause 8.2, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 8.2, the Losing Operator shall have the option of either (1) referring the incident(s) to the National Regulator, or (2) requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

9. Migration Services

8.5 Migration of Services to the Bitstream Plus VEA Services, including the POTS Based Bitstream Plus VEA Service, are as set out in the NGA IPM (Industry Process Manual).

8.6 Subject to Clause 8.7 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form ("WOCF") or a completed CAF, if applicable.

8.7 (i) Without prejudice to the generality of Clause 8.6 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining

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Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-Clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the Customer which arise directly and solely from the Gaining Operator's decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the "Gaining Operator Indemnity"), provided always that:

a. The total aggregate liability of the Gaining Operator arising under or in relation to the Indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one Customer shall be deemed one event;

b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom-open eir~~ under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the absence of a CAF) was the fault of eircom.

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(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator's Customer shall indemnify and hold ~~eircom-open eir~~ harmless in respect of any claims made by Customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Operator Indemnity"). The Operator Indemnity given in this sub-Clause shall be subject to the provisions as set out in Clause 8.7 (ii),(a),(b), and (c) and sub-Clause (iv) shall apply and the term "Gaining Operator" shall be replaced by the "Operator or the Operator's Customer" in respect of the Operator Indemnity

(iv) In order for ~~eircom-open eir~~ to recover under or in respect of the Gaining Operator Indemnity, ~~eircom-open eir~~ shall:

(e) Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom-open eir~~ becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation.

(f) Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator (not to be unreasonably withheld);

(g) Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and

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(h) Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

8.6 Migration of Services will be subject to breaks in Service as set out in the NGA IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Section B

FTTC POTS based Bitstream Plus VDSL Ethernet Access Service **(“POTS based Bitstream Plus VEA”)**

10. Description and Conditions of Service

10.1 Subject to the provisions of this Service Schedule, ~~eircom-open eir~~ shall provide the POTS based Bitstream Plus VEA Service as specified from time to time in the Bitstream Plus Product Description and the ~~eircom-open eir~~ Bitstream Service Price List. The POTS based Bitstream Plus VEA Service is delivered via:

i. Fibre to the Cabinet (“FTTC”) only

10.2 The provisioning, operation and maintenance of POTS based Bitstream Plus VEA Service shall be in accordance with the processes as set out in the NGA IPM.

10.3 The requirements for ordering the POTS based Bitstream Plus VEA Service shall be as set out in the Bitstream Plus Product Description and/or NGA IPM. Specifically, it is a condition precedent to the acceptance of an UG order for the POTS based Bitstream Plus VEA Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) and the Unicast Service as set out in the Bitstream Plus Product Description

10.4 In the event that the UG order for the POTS based Bitstream Plus VEA Service does not satisfy the requirements set out in the Bitstream Plus

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Product Description and/or NGA IPM, the UG order for the POTS based Bitstream Plus VEA Service will be rejected.

10.5 The Operator agrees that from time to time it may be necessary for ~~eircom~~ ~~open eir~~ to temporarily suspend service on the POTS based Bitstream Plus VEA Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ ~~open eir's~~ electronic communications network. Where possible ~~eircom-open eir~~ will give the Operator at least five (5) Working Days' notice prior to such suspension and ~~eircom-open eir~~ will restore Service as soon as possible after such suspension.

10.6 Use of the POTS based Bitstream Plus VEA Service may be restricted by ~~eircom-open eir~~ as required by applicable law or regulation. ~~eircom-open eir~~ shall promptly notify the Operator in the event this Clause is invoked, including the reasons.

10.7 ~~eircom-open eir~~ does not warrant that the POTS based Bitstream Plus VEA Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

10.8 It is a condition of the POTS based Bitstream Plus VEA Service that a POTS line is In Service for the duration of the POTS based Bitstream Plus VEA Service.

Where a POTS service is terminated, ~~eircom-open eir~~ shall be entitled to terminate the POTS based Bitstream Plus VEA Service.

10.9 (i) The Operator is obliged to ensure that all equipment connected to the network is compliant with the vectoring standard defined in Section 3 of the Bitstream Plus Product Description. In the event that ~~eircom-open eir~~ finds

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noncompliant CPE, (other than as set out in (ii),(iii) and (iv) below), eircom open eir shall be entitled to disconnect or suspend the service to individual Customers of the Operator or its wholesale Customers to mitigate network interference. Where issues are identified with individual Customer CPE that has successfully provided the Customer's NGA service, reasonable endeavours will be made to resolve the issue before invoking this Clause to disconnect or suspend service.

(ii) Where eircom-open eir plans to introduce new interface specifications that may cause interoperability and interworking issues with CPE already installed by Operators or any Operator's wholesale partner on the eircom-open eir network, eircom-open eir will

(d) provide at least six (6) month's advance notice of the revised interface specifications and

(e) provide reasonable test facilities to the Operator at least four (4) months in advance of the introduction of the revised interface specifications.

(f) actively work with the Operator to resolve inter-operability and interworking issues, including both parties being prepared to change adjustable equipment configuration settings in order to resolve any interoperability and interworking issues.

(iii) Material Issues

In the event that the Operator encounters significant problems with the revised interface specifications which the Operator can demonstrate as having a materially negative impact on the existing service to a substantial number of Customers of an Operator or an Operator's wholesale partner, eircom-open eir (acting reasonably) will delay the introduction of the revised interface specifications for a reasonable period of time but not exceeding (four) 4 months, during which time the Operator will make all reasonable endeavours to develop solutions. For

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the purposes of this Clause, a substantial number of Customers is defined as being greater than 500 (five hundred).

(iv) Settlement and Dispute Resolution

Having followed the timeframes set out above, where ~~eircom~~-open eir intends to proceed to launch the proposed interface specifications and the Parties have failed to reach agreement on the resolution of any issues identified by the Operator, the Operator has recourse to the Dispute Resolution process in Clause 10 of this Bitstream Agreement.

11. Time Frame for Delivery

11.1 Provision of the broadband of the POTS based Bitstream Plus VEA Service shall be in accordance with the NGA SLA.

12. Charging for the POTS based Bitstream Plus VEA Service

12.1 The charges and/or charging principles for POTS based Bitstream Plus VEA Service are as set out in the Bitstream Service Price List.

12.2 ~~eircom~~-open eir shall be entitled to invoice the Operator at the intervals for charging set out in the Bitstream Service Price List.

12.3 The Operator shall remit payment for the POTS based Bitstream Plus VEA Service by the Due Date.

12.4 The Operator shall be liable for charges associated with the Minimum Term for the POTS based Bitstream Plus VEA Service in respect of each UG order.

13. Term

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13.1 The Minimum Term of service for each order for the FTTC POTS based Bitstream Plus VEA Service shall be six (6) months from the date ~~eircem-open~~ eir starts billing for that service.

13.2 A Minimum Term shall apply for orders placed where the Operator is the Gaining Operator for the POTS based Bitstream Plus VEA Service.

14. Customer Authorisation

14.1 The Gaining Access Seeker must acquire a CAF prior to the submission of service orders unless the request is made in respect of:

- a). An order for a new provide for a POTS service, or
- b). Intra-operator migrations, or
- c) An emergency restore initiated by the Gaining Operator, or
- d) Orders subject to a WOCF.

14.2 The Gaining Operator must retain a Customer's CAF for a period of at least six months. Thereafter, the Gaining Operator must cease the service when the end user referenced in the CAF ceases services with the Gaining Operator.

14.3 If a Customer complains to a Losing Operator regarding the change of service provider, the Losing Operator is entitled to request a copy of the CAF, and the Gaining Operator must provide a true copy of the CAF to that operator within two (2) Working Days.

14.4 If the Losing Operator is not satisfied with the copy of the CAF produced by the Gaining Operator, then in the case of paper CAF's, the Gaining Operator must provide access to the original CAF within two (2) Working Days.

15. Unauthorised Provision of Services ("Slamming")

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15.1 A Party shall not engage in Unauthorised Provisioning of services. Nothing in this Clause 15 or elsewhere shall prejudice the rights of the National Regulator pursuant to Section 45 of the Communications Regulations Act 2002, as may be amended from time to time.

15.2 Where an incident(s) of Unauthorised Provisioning of Services is detected by either Party, the incident(s) shall be notified to the Gaining Operator. Each Party shall use its best endeavours to resolve the matter. Where the matter is resolved the Gaining Operator shall notify the Access Provider to reinstate the Customer's service to the status prior to the disputed provisioning.

15.3 Where complaints concerning incident(s) of Unauthorised Provisioning of Service cannot be resolved in accordance with Clause 15.2, or within ten (10) Working Days of the Gaining Operator being notified pursuant to Clause 14.2, the Losing Operator shall have the option of either (1) referring the incident(s) to the National Regulator, or (2) requesting the President of the Law Society of Ireland to nominate a single arbitrator to adjudicate upon the complaint. The decision of such arbitrator shall be final and binding in its entirety upon the Parties.

16. Migration Services

16.1 Migration of Services to the Bitstream Plus VEA Services, including the Standalone Bitstream Plus VEA Service, are as set out in the NGA IPM (Industry Process Manual).

16.2 Subject to Clause 16.3 below, Migration orders shall be subject to the requesting Operator obtaining a complete Wholesale Operator Consent Form ("WOCF") or a completed CAF if applicable.

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16.3 (i) Without prejudice to the generality of Clause 16.2 above, it shall not be mandatory for the Gaining Operator to procure and/or furnish a CAF in respect of CAF Exceptions, provided however that where the Gaining Operator decides not to procure and/or furnish such a CAF, ~~eircom-open eir~~ shall have no liability for any loss or damage to the Customer which arises directly and solely from the absence of such a CAF.

(ii) The Gaining Operator will, subject to sub-Clause (iv) below, indemnify and hold ~~eircom-open eir~~ harmless against any and all direct claims, demands, actions, damages, costs and expenses for loss or damage to the Customer which arise directly and solely from the Gaining Operator's decision not to procure and/or furnish a CAF in respect of a CAF Exception, (the "Gaining Operator Indemnity"), provided always that:

a. The total aggregate liability of the Gaining Operator arising under or in relation to the Indemnity shall not exceed the amount of fifty thousand euro (€50,000) for any event or series of connected events and up to two hundred and fifty thousand euro (€250,000) for all events (connected or unconnected) in any period of twelve (12) consecutive months. For the avoidance of doubt the transfer of a block of lines for one Customer shall be deemed one event;

b. The Gaining Operator shall not be liable under the Indemnity for consequential or indirect loss (meaning loss that is not reasonably foreseeable and arises indirectly or is not of an immediate and proximate result of the absence of a CAF); and

c. Any notice, demand or communication made by ~~eircom-open eir~~ under the Indemnity shall be in writing and shall be deemed to be duly served if served by registered post the Notice contact in this Bitstream Agreement. The Gaining Operator agrees that it shall not imply to the Customer that any such damage or loss (i.e. loss or damage to the Customer which arises directly and solely from the

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absence of a CAF) was the fault of eircom.

(iii) In respect of Inter-operator Bulk Migrations, the Operator or the Operator's Customer shall indemnify and hold ~~eircom-open eir~~ harmless in respect of any claims made by Customers in respect of the provision of services on the lines from the date of Migration arising directly and solely from the absence of the CAF (the "Operator Indemnity"). The Operator Indemnity given in this sub-Clause shall be subject to the provisions as set out in Clause 16.3 (ii)(a),(b), and (c) and sub-Clause (iv) shall apply and the term "Gaining Operator" shall be replaced by the "Operator or the Operator's Customer" in respect of the Operator Indemnity.

(iv) In order for ~~eircom-open eir~~ to recover under or in respect of the Gaining Operator Indemnity, ~~eircom-open eir~~ shall:

e. Confirm its intention in writing to make a claim under the Indemnity within sixty (60) days after ~~eircom-open eir~~ becomes aware of the relevant facts, or ought reasonably to have become aware of those facts, and include a brief note of the facts of such confirmation:

f. Take all reasonable steps to mitigate any such losses, claims, damages and liabilities, costs, charges and expenses and shall not compound, compromise, settle or admit those proceedings without the prior written approval of the Gaining Operator(not to be unreasonably withheld);

g. Allow the Gaining Operator to conduct its own defence of such claims, demands, actions, damages, costs and expenses, and



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h. Provide all reasonable assistance to the Gaining Operator and make no admission prejudicial to the defence of such claims, demands, actions, damages, costs and expenses.

16.4 Migration Services will be subject to breaks in Service as set out in the NGA IPM. The Parties shall endeavour to minimise the break in service for individual end users.

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Section C

Bitstream Plus Unicast Service

17. Description and Conditions of Service

17.1 Subject to the provisions of this Service Schedule, ~~eircm~~ open eir shall provide the Bitstream Plus Unicast Service (“Bitstream Plus Unicast Service”) as specified from time to time in the Bitstream Plus Product Description and the Bitstream Service Price List.

The Bitstream Plus Unicast (BPU) order provides connectivity across the ~~eircm~~ open eir NGA core from an Operator’s WEIL to a Bitstream Plus enabled Aggregation Node.

17.2 Bitstream Plus Unicast Service is a condition precedent to the provision of the Bitstream Plus Standalone VEA Service and/or the POTS based Bitstream Plus VEA Service.

17.3 The provisioning, operation and maintenance of the Bitstream Plus Unicast Service will be governed by the NGA IPM.

17.4 The requirements for ordering the Bitstream Plus Unicast Service shall be as set out in the Bitstream Plus Product Description and/or the NGA IPM. Specifically, it is a condition precedent to the acceptance of a UG order for the Bitstream Plus Unicast Service that the Operator must have in place the requisite service on its Wholesale Ethernet Interconnection Links (“WEIL(s)”) as set out in the Bitstream Plus Product Description.

17.5 In the event that the UG order for the Bitstream Plus Unicast Service does not satisfy the requirements set out in the Bitstream Plus Product Description and/or NGA IPM, the UG order for the Bitstream Plus Unicast Service will be rejected.

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17.6 The Operator agrees that from time to time it may be necessary for ~~eircom~~ open eir to temporarily suspend Service on the Bitstream Plus Unicast Service during periods of repair, essential maintenance or alteration or improvement to ~~eircom's~~ open eir's electronic communications network. Where possible ~~eircom~~ open eir will give the Operator at least five (5) Working Days' notice prior to such suspension and ~~eircom~~ open eir will restore service as soon as possible after such suspension.

17.7 Use of the Bitstream Plus Unicast Service may be restricted by ~~eircom~~ open eir as required by applicable law or regulation. ~~eircom~~ open eir shall promptly notify the Operator in the event this Clause is invoked, including the reasons.

17.8 ~~eircom~~ open eir does not warrant that the Bitstream Plus Unicast Service will meet the Operator's requirements or the requirements of any third party or that the operation of the Service will be uninterrupted or error-free or that any defect in the Service can be remedied.

18. Time Frame for Delivery

18.1 Provision of the Bitstream Plus Unicast Service shall be in accordance with the NGA SLA.

19. Charging for the Bitstream Plus Unicast Service

19.1 The charges and/or charging principles for Bitstream Plus Unicast Service are as set out in the Bitstream Service Price List.

19.2 ~~eircom~~ open eir shall be entitled to invoice the Operator at the intervals set out in the Bitstream Service Price List

19.3 The Operator shall remit payment for the Bitstream Plus Unicast Service by the Due Date.

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Version Control History

Version	Status	Update	Effective Date
Version 1.0			
Version 2.0			
Version 3.0		Addition of Standalone Bitstream Managed Backhaul	
Version 3.1		Definition of Minimum Term revised. Minimum term clauses and noncompliant CPE clauses revised in Service Schedules 301 and 302,	11th December 2013
Version 3.2		Addition of Bitstream BEA schedules	31st July 2014
Version 3.3		Additional BECS Via WEIL Schedule	5th May 2015
Version 3.4a		Published Updates for Company Registration	1st July 2015
Version 3.4b		Addition of NGA FTTC Bitstream Plus Service Schedule 303. eircom changed to open eir	13th November
V4.0	Final	This document is based on V3.4b Implementation of Standardised Change Control.	22/06/2017