

IN THE COMPETITION
APPEAL TRIBUNAL

Case No. 1212/3/3/13

Victoria House,
Bloomsbury Place,
London WC1A 2EB

17th October 2013

Before:
PETER FREEMAN CBE QC (Hon)
(Chairman)
CLARE POTTER
JOANNE STUART

Sitting as a Tribunal in England and Wales

BETWEEN:

COLT TECHNOLOGY SERVICES

Appellant

-supported by-

EE LIMITED
HUTCHISON 3G UK LIMITED
TALKTALK TELECOM GROUP PLC
VERIZON UK LIMITED
VODAFONE LIMITED

Interveners

- and -

OFFICE OF COMMUNICATIONS

Respondent

- supported by-

BRITISH TELECOMMUNICATIONS PLC

Intervener

Transcribed from tape by Beverley F. Nunnery & Co.
Official Shorthand Writers and Audio Transcribers
Quality House, Quality Court, Chancery Lane, London WC2A 1HP
Tel: 020 7831 5627 Fax: 020 7831 7737
info@beverleynunnery.com

HEARING DAY FOUR

APPEARANCES

Mr. Kieron Beal QC (instructed by Baker & McKenzie) and Mr. Richard Pike (Solicitor-Advocate of Baker & McKenzie) appeared for Colt Technology Services.

Mr. Josh Holmes and Mr. Ravi Mehta (instructed by the Office of Communications) appeared for the Respondent.

Mr. Daniel Beard QC and Mr. Robert Palmer (instructed by BT Legal) appeared for British Telecommunications PLC.

1 THE CHAIRMAN: Good morning.

2 MR. BEAL: Could I just pick up on a couple of very short comments on some points I made
3 yesterday. I feel I gave the Tribunal a comment which is true, but I did not provide the
4 source for the truth of the assertion I made. Could we please turn to BT folder 2, tab 1/6/C,
5 the first divestiture in bundle 2, and the Review of the Wholesale local access market.
6 Could I ask you very briefly to turn to paras.7.1 to 7.3, p.100. The purpose of me taking you
7 to this document is to show where the issue of passive remedies for leased lines was raised
8 in the previous review and was essentially hived off for consideration at the BCMR level.
9 7.1 to 7.3 make a number of salient points. Firstly, a duct is: a physical infrastructure that is
10 costly to deploy and constitutes a large proportion of the overall capital expenditure in an
11 access network. BT has an extensive physical infrastructure on a legacy basis. Thirdly, in
12 the consultation document Ofcom had proposed a new remedy which it called Physical
13 Infrastructure Access or PIA:

14 “... which would require BT to allow other communications providers to deploy
15 NGA networks in the physical infrastructure of its access network. Allowing
16 BT’s competitors to use this physical infrastructure in BT’s access network
17 would promote competition and investment in NGA network deployment by
18 removing a significant barrier to [entry] ...”

19 So that chimes with many of the submissions I was making yesterday.

20 What did Ofcom do? The answer is at 7.4, they looked into a number of things. They
21 conducted research into the use of physical infrastructure sharing in other countries. They
22 carried out a second sample survey of BT’s access network, infrastructure to assess its
23 suitability and capacity to accommodate NGA deployments, and they carried out an
24 external assessment of the economics of physical infrastructure access. We say that stands
25 in contrast to the steps that are being taken in this case when examining the parallel issue.
26 At 7.5, the conclusion was that whilst there were practical difficulties to be overcome the
27 remedy was nonetheless going to be granted for the reasons set out there. With your
28 permission I will leave that for your light reading in due course.

29 Could I, however, please then turn to para.7.13. In contrast with the present case, in the
30 consultation document in the WLA review, Ofcom had set out the proposed characteristics
31 of a potential remedy. It sought and obtained submissions on a variety of the practical issues
32 that have been raised in this particular appeal. That included at para.7.14 a consideration of
33 pricing. The upshot was that a LRIC plus standard would be adopted.

1 At para.7.16, they had a graduated approach to infrastructure, so the historic legacy
2 infrastructure was dealt with in one way and the new NGA roll-out was dealt with in
3 another. So that must have, therefore, assumed a differential treatment between different
4 types of infrastructure asset, which were then able to be priced accordingly so as not to
5 impact unduly on the investment incentive.

6 At 7.17 we see the implementation arrangements for the offer process. The process
7 essentially involves BT coming up with a reference offer, industry review, updated
8 response, service launch, Ofcom consultation.

9 At 7.23 Ofcom envisages that there may be issues concerning implementation and the
10 Reference Offer. It builds in to the review process an overarching industry wide review so
11 that you do not have a series of individual spats between competitors with BT which then
12 need to be picked off through the dispute settlement process.

13 Can I then please turn to paras.7.48 and 7.49, which deal with geographic scope, and this is
14 where we see the arguments coming in that the PIA remedy should not be limited to the
15 access side of the exchange, i.e. exchange to residential premises, it should be rolled out
16 more widely for the benefit of, for example, business broadband services, which would
17 require D-side access primarily.

18 “Some respondents have argued that the geographic scope of PIA should not be
19 restricted at all, enabling CPs to use it for backhaul and potentially core
20 networks as well as access networks. Others suggested ways of widening the
21 geographic scope ...”

22 and so on. 7.49:

23 “We have proposed PIA as a remedy to promote effective competition in the
24 WLA market and therefore the geographic scope of the remedy that we can
25 impose is restricted to the WLA market ... It would not therefore be possible to
26 extend the scope of PIA to include backhaul or core network infrastructure as
27 part of this market review. However, we recognise that fibre NGA networks
28 will be free from the copper network transmission limits and may therefore
29 adopt a different topology, particularly in relation to their reach.”

30 At 7.54, that was then translated into a restriction on the use of the remedy which was
31 confined to all intents and purposes to residential broadband services by virtue of a
32 restriction on the geographical scope within which duct could be offered. So it was the D-
33 side of the exchange within which the duct could be offered.

1 7.57, in all fairness I should point out that Ofcom does mention the inefficient entry point
2 from a leased lines perspective. It is only right that I draw that to the Tribunal's attention.

3 7.58:

4 "Given this, it is our view that it would be inappropriate for us to extend the scope of
5 PIA without assessing the need for and impact of a PIA remedy in the business
6 connectivity market. We have therefore decided to maintain the scope of PIA as
7 proposed in the consultation document, allowing it to be used for the deployment of
8 access networks for broadband and telephony services and also for the SLU backhaul
9 services between cabinets and the local NGA exchange. We will consider the case for
10 allowing PIA to be used for leased-lines in the next business connectivity market
11 review, which we intend to commence in the first half of 2011".

12 So at this stage Ofcom did not think it was right to consider the question of a passive
13 remedy in the context of leased-line services as part of this review. What they said is, "We
14 will build it into the next review". Now, of course, following on from your point yesterday,
15 sir, if they now turn and say, "Well, of course we can't deal with it without considering
16 impact on other services such as local access services", then we are chasing our tail from
17 review to review with the issue never being dealt with.

18 THE CHAIRMAN: That is the point Dr. Maldoom made, I think.

19 MR. BEAL: That it all needs to be dealt with in one go.

20 THE CHAIRMAN: Yes, well I think he said it had been referred from WLA over to BCMR and
21 you cannot really then say "too many effects on WLA", because you had already made the
22 reference over.

23 MR. BEAL: The advantage of the remittal that we are seeking on this point would be that the
24 nettle can finally be grasped and the work can be done, and the issue can be fully squared
25 with other areas or sectors can be brought within it if necessary on an *ad hoc* basis.

26 THE CHAIRMAN: What about Mr. Holmes' point that you have not queried the principles of
27 BT's common cost recovery as a ground of appeal?

28 MR. BEAL: Well, it is true that we have not challenged the setting of prices by reference to a
29 basket. The impact on common cost recovery is of course not an impact on that active
30 remedy *per se*. It is an impact on BT's recovery of common costs that is permitted within
31 the flexibility of the basket. With respect, we do not challenge that on a stand-alone basis.
32 In the event that a passive remedy is not granted, then we have no grounds for challenging
33 that that we have sought to advance, and if we did advance it, then we would accept that a

1 challenge to the calculation of the basket of prices would be a price control matter. But that
2 is not our case. Our case is you should have offered a passive remedy.

3 THE CHAIRMAN: It sounds like quite a complicated remittal.

4 MR. BEAL: It is a remittal that it requires BT to carry out the sort of (Ofcom, I beg your pardon).

5 THE CHAIRMAN: Freudian slip there, Mr. Beal!

6 MR. BEAL: It is very important that Ofcom carry out the sort of analysis that they have done for
7 this review, and Mr. Culham very frankly and very fairly in his evidence yesterday accepted
8 that they had not done that degree of work. That is part of our case on both ground 1 and
9 ground 3.

10 But in terms of the jurisdiction point, which is essentially the point Mr. Holmes was
11 making, he was saying, “You can’t get your hands dirty with working out what the common
12 cost recovery is”. Our point is not that the common cost recovery as implied by the current
13 active control is wrong *per se*. It is the disruption of the common cost recovery which is a
14 matter for BT is not, in truth, a justification for refusing the remedy that we have sought.

15 And that is something that is squarely before the Tribunal and does not raise any
16 jurisdictional difficulty. So the short answer is that the phantom of jurisdictional difficulty
17 simply does not arise because we are not inviting you to make any finding on the nature of
18 the active remedy that is being set. We are not saying that you have to look at the individual
19 baskets and work out what the sub-categories should be and what the components should be
20 and how it should work. We are simply saying, “You, Ofcom, cannot rely on a potential or
21 actual disruption to common cost recovery to justify the refusal of the remedy we seek”.

22 THE CHAIRMAN: So you are not saying in terms that the principles for common cost recovery
23 which are involved in the active remedies are inefficient, promote inefficiency. You are not
24 actually saying that.

25 MR. BEAL: Well, firstly, the common cost recovery is set by BT not by Ofcom. How it attributes
26 its common costs, fixed costs, between a basket of services is a matter for it. It may well be
27 steered by the regulatory framework, but it is not the regulatory framework itself that sets
28 the common cost recovery.

29 THE CHAIRMAN: No, but the regulatory framework allows it to happen and depends in part
30 upon it.

31 MR. BEAL: If the Tribunal’s question — which I understand it to be, so I will get to the point —
32 is essentially, “Is there anything wrong with having common cost recovery based on a
33 bandwidth gradient?”, as a matter of principle that is not necessarily wrong.

1 THE CHAIRMAN: No. Some of the interveners' material that we have been referred to does
2 suggest that. But you are not adopting that.

3 MR. BEAL: Their point is essentially a slightly different one, which is that common cost recovery
4 is overloaded in the top end of the business services, with the result effectively that there is
5 excessive pricing at the higher bandwidth levels for leased-lines services. That is not our
6 case. We do not advance that case. We say it is irrelevant as such, for the simple reason that
7 what we are doing is analysing the reasons that are advanced as to why passive remedies
8 should not be granted, and that takes as read the pattern of common cost recovery subject to
9 the circularity point that I will come on to, but it takes as read that pattern, but what we say
10 is that is not in fact evidenced as a detriment to the market, disruption of it, because it is
11 based on twin assumptions that drive the conclusion without actually providing an
12 evidential basis for it. That is the circularity argument.

13 Secondly, we have a series of arguments as to why justification based on disruption does
14 not work. So that assumes disruption, and disruption must necessarily be on the basis that
15 the bandwidth gradient is disrupted. So I hope that answers the question, perhaps not as
16 directly as a “yes” or “no”, but I hope it explains our position.

17 THE CHAIRMAN: Yes or no answers are quite elusive in this case, I think.

18 MR. BEAL: “The Snark”. That was essentially my point as to why it is no answer to turn around
19 and say, “Well, we can deal with it at the next review”.

20 Could I just cover a couple of very short points, that are probably already well within the
21 Tribunal’s collective mind, but I would for the sake of avoidance of doubt like to make
22 them.

23 First, there is this issue about whether or not we need to show a business plan or an
24 investment, and Mr. Holmes in opening (Transcript Day 1, p.47) said there were no
25 substantial investment plans over the period of market review. Now, if that is the standard
26 to be insisted upon, we say it is too high a standard because no business in its right mind is
27 going to devote too much time and energy to rolling out a fully costed business plan when
28 the remedy does not exist. As a matter of fact, we disagree with Ofcom that the nature and
29 level of our investment was insignificant, insubstantial and ultimately I cannot improve on
30 the submissions I have already made on that, it is a question that the Tribunal will no doubt
31 answer yes or no.

32 With respect, the final point made by Mr. Holmes on ground 4 was that there was not a
33 separate finding of demand; it was a final cross check, doors-to-manual type decision. That
34 final cross check I am afraid mischaracterises the nature and extent of the reasoning of the

1 BCMR statement. We say there was a clear finding that there was no evidence of a
2 substantial demand for the remedy, and that is borne out by the twin usage of not only
3 demand but also no likely innovation, because of course if you do not have demand, you
4 will not have the innovation. And so pairing the two together as Ofcom has done, shows
5 beyond doubt, we say, that they were in fact considering the question of likely uptake of the
6 remedy.

7 If I can then please move on to ground 2, on this particular ground Dr. Lilico and
8 Mr. Culham agree that there is no requirement to show that passive remedies are clearly
9 better than active remedies, and nor is there any presumption that active remedies are to be
10 preferred to passive remedies, and that is in Lilico 2 at 7.7.

11 We do nonetheless maintain that Ofcom took the wrong starting point because the BCMR at
12 paragraphs 8.6 and 8.49 made clear that the overall approach that Ofcom had adopted was
13 to take as a starting point the existence of active remedies and require passive remedies to
14 demonstrate that they would clearly be better in the round. So what you actually end up
15 having in the end is here is the *status quo* and you, the passive remedy proponent must show
16 clearly, and substantially, that the remedy that you are proposing will, in the round, lead to a
17 better outcome than the current competitive situation. For the reasons we will advance in
18 Ground 3 we say we have surmounted that threshold, but, even if that were not right there is
19 a fundamental problem with that which is that the overall approach is inconsistent with the
20 regulatory framework, and I will make some core submissions and then give you a
21 reference without turning up the document, because I went through the documents in
22 opening, but I have tried to distil the core principles.

23 Principle one is that regulation at the deeper level is a good thing, and you get that from
24 notice of appeal file 2, annex 3, tab 5 p.2.

25 The second principle is that competition based on infrastructure tends to give greatest
26 benefits in terms of the mix of lower prices and faster innovation that the consumers and
27 businesses want, and you derive that from notice of appeal file 2, annex 3, tab 5, p.18.

28 Thirdly, promotion of competition at the deepest level of infrastructure is desirable since it
29 would assist in overcoming the recognised and enduring economic bottlenecks in fixed line
30 telecoms, and might well lead to the removal of *ex ante* regulation downstream, and that is
31 notice of appeal file 2, annex 3, tab 5, p.18.

32 In the ERG's report, June 2009, the overall view is that a passive remedy is better for true
33 competition than active remedy. As a matter of principle, with respect, that must be right.

34 With a passive remedy you are freeing up market players to take the market decisions; with

1 an active remedy you are imposing a price control on them. So in terms of intervention in
2 the market clearly one is more interventionist than the other, that is notice of appeal 1,
3 annex 2, tab 4, p.1.

4 Finally, the principle of the ladder of investment has, in fact, been recognised in a series of
5 different communications. All the references are in my skeleton and it does not serve any
6 purpose to read them out now.

7 Dr. Maldoom, in para. 42 of his report, recognised that a bottleneck in a vertically
8 integrated market might well be a candidate for regulation. So there he and Colt are on the
9 same page. Where we parted company was whether or not the ladder of investment was a
10 useful or worthwhile analytical tool. He suggested it simply did not work for leased lines.
11 There, with respect, if his advice were followed by Ofcom he would put them in breach of,
12 amongst others, Article 3(3c) of the Framework Directive which requires Ofcom to take
13 utmost account of BEREC opinions. One of the BEREC opinions that I have cited in our
14 skeleton clearly sets out why the principle of the ladder of investment is an appropriate
15 analytical tool.

16 Turning then to the NGA recommendation, and again Mr. Beard went through this in his
17 opening, I went through it in mine and I do not propose to turn it up. A series of
18 recommendations – Article 13 of the recommendations suggests access to duct could be an
19 important remedy where there is SMP. Article 16 of the recommendation suggests that any
20 person rolling out new network should build in additional capacity to allow people to have
21 access to it. Recommendation 17 suggests that an incumbent maintain, or a person rolling
22 out the additional duct maintain a database of its availability.

23 In conclusion on Ground 2 what we say is the better approach from Ofcom, would have
24 been to treat the passive remedy as a viable proposition, absent any evidence that it did not
25 work, so in a sense it proceeded from the wrong starting point. As a result we say it has
26 adopted a clearly wrong approach and it is appropriate to mark that down as an error in the
27 exercise of discretion.

28 What is the remedy that we seek? We seek remittal on that point because we recognise that
29 it is not for this Tribunal to exercise its own surrogate discretion, it simply needs to
30 recognise that the exercise of discretion proceeded on an incorrect approach by reference to
31 the CRF and the principles set out there in.

32 The example of LLU is also, we say, significant. In Ofcom's review on the wholesale local
33 access market in notice of appeal file 2, annex 3, tab 8, p.1 at para. 1.1, Ofcom said this:

1 “Competition has driven the success of the current generation of broadband
2 services. This has been shaped by regulation and the availability of local loop
3 unbundling which has allowed communications providers to compete using
4 regulated wholesale inputs from BT. The result has been greater choice,
5 innovation, lower prices, and high levels of broadband adoption.”

6 We say that by parity of reasoning the same could be anticipated of a passive remedy in the
7 leased lines market.

8 Unless the Tribunal has any questions those are my submissions on Ground 2, which brings
9 me on to Ground 3.

10 On Ground 3 we put the case in two different ways. First, and in a sense reiterating, I hope
11 without undue repetition the submissions I made yesterday, and I do not mean this in a
12 pejorative way, it is simply a statement of fact, Ofcom did not do the work. It did not look at
13 with sufficient rigour and detail at the nature or extent of the likely detriment to the market.
14 That is important because Mr. Holmes in opening (transcript: day one, p.42) said:

15 “If there were a way of amending matters so as to preserve this efficient recovery
16 of common costs, Ofcom would certainly have done it.”

17 So that is a recognition that if there had been a way through the concern about disruption in
18 efficient entry Ofcom would have done it. So there is no objection in principle to a passive
19 remedy, it is all loaded up on the risk of an inefficient outcome by virtue of an inefficient
20 entry. That is highly significant because we say if, in fact, you were to conclude, in the light
21 of Mr. Culham’s evidence, and in the light of the documentary evidence you have seen, that
22 a sufficient level of analytical procedure was not brought to bear on the core question of:
23 can we amend the existing remedies so as to allow passive remedies to be introduced, or is
24 there another way of working around the disruption problem? If that exercise simply has not
25 been done then it is appropriate to remit so that Ofcom can ask itself the right question
26 which is: is there a way of amending matters so as to preserve the efficient recovery of
27 costs?

28 Secondly, and in the sense that the first point is something of a procedural one, the second
29 point is more substantive, we say that there was a clear error of approach; making allowance
30 for regulatory judgment there was a clear error of approach in weighing up the benefits and
31 detriments associated with introducing a passive remedy. For your note, in terms of when I
32 have referred to the evidence of Mr. Culham – I am afraid I only received the transcript 30
33 seconds before I was on my hind legs, but Mr. Pike has valiantly given me some references
34 to the transcript – it is day 3, closed session, pp.9, 10, 33 and 34.

1 The second substantive way we put the case is simply that there has been a clear error of
2 approach.

3 The benefits that Colt has identified can be broken down really to four. First, we say there is
4 an increase in infrastructure based competition. Our skeleton argument gives concrete
5 examples of situations where the roll-out of passive remedies in other jurisdictions has
6 brought tangible benefits. You will be familiar with the evidence in the confidential material
7 as to the impact of duct access in other jurisdictions, not just from Colt, but also from other
8 market players. We say, understandably, if you allow competition at a different
9 infrastructure level, i.e. duct access level, that will generate competitive benefits, simply in
10 terms of there being an extra layer of competition so long as the costs of competition are not
11 excessive, you will generate a pro-competitive benefit.

12 Secondly, increased innovation and service differentiation. We think it is clearly accepted
13 by Ofcom in substance and, indeed, it was by Dr. Maldoom that, as a matter of principle
14 and, in all likelihood, in practice a passive remedy would bring enhanced benefits of
15 competition through further innovation, product differentiation and choice. If you have a
16 look at Ofcom's defence at para.57 there does not appear to be a great deal of dispute. There
17 was, I think, probably a minor dispute as to how much innovation is likely to result.

18 I think the criticism was made by Mr. Beard - if I am mis-attributing, I apologise - well,
19 what sort of innovation is it likely to be because the underlying products are not likely to be
20 any different. That, with respect, is a rather technical approach to innovation. What would
21 be clear is we would be rolling out Ethernet access services on a different architecture with
22 different service level agreement conditions in place with lower latency we would hope,
23 with greater resilience we would hope, and essentially aiming more at what our particular
24 customers want.

25 What Colt is proposing to do is entirely different from simply rebranding or repackaging the
26 existing service on offer by BT. This is not a sort of a roll-out of a white good. This is a
27 roll-out, or it would be if we were allowed to do it, of a genuinely different product with a
28 different market, an admittedly high end market, a market that is nonetheless crying out to
29 be served with a better service than it is getting at present.

30 A lot of BT's evidence was directed towards what logically would drive a conclusion that
31 no one else could want anything other than the BT basic product because you can do
32 everything you want to do in the market. With that product you do not need anything else. I
33 fully accept that it is very nice to have pride in one's product, but this rather ignores the
34 wider market aspects. In reality, one player cannot cater for all aspects of demand, you

1 cannot be all things to all people all of the time. Once that is recognised, as Mr. Reid
2 appeared to fleetingly accept, if only to then give a justification that took on a slightly
3 different hue, you cannot simply stop there and say nobody could ever want anything else.
4 The third benefit we have identified is improved capacity and coverage. Colt, through
5 Mr. Sinclair's evidence, Sinclair 1 and Sinclair 2, explains exactly how the passive remedy
6 would enable the expansion of the existing networks so that higher bandwidth coverage can
7 be offered. The evidence of the passive remedy being rolled out in other European countries
8 is not simply that it has worked, it is that it has worked alongside the existing active
9 remedies and brought competitive advantages to bear. So higher consumer take-up greater
10 bandwidth capacity, all of the matters that we have looked at in the closed material. For
11 your note see Sinclair 1 at 11 to 35, and Sinclair 2 at 31 to 35.

12 The fourth benefit, more efficient use of network assets. What we say is, as a matter of
13 potentiality, you could use duct space to roll out both business and residential services in the
14 same way that BT has. You could replicate their offering. In addition, we say the evidence
15 of Fournier 2 at para.22 and Peplow at 5 to 14 show how the network assets can be
16 managed more efficiently and provide better levels of service for customers if a passive
17 remedy is imposed, because you can break away from some of the inherent constraints in
18 the BT network architecture and the BT level of service.

19 The consultation response from one particular respondent, defence file, tab 21, p.5, also
20 confirms that the imposition of a passive remedy would at least potentially be of benefit to
21 both the wholesale and the retail markets.

22 Those then are benefits. Just as a general statement, it is quite rare to find a regulator
23 looking at an incumbent who has a dominant supply of a particular service turning round
24 and saying that actually, if you allowed access to one of the essential infrastructure
25 requirements for the provision of that service, there would be an anti-competitive detriment.
26 That is the result of Ofcom's logic in this case. They are saying, "Regardless of the fact that
27 it is only BT who has access to ducts and regardless of the fact that we accept that you can
28 have passive and active remedies operating alongside each other, we think it would be
29 contrary to our competitive aspirations to allow access to that passive infrastructure", and
30 that is a counter-intuitive result and one that would therefore need to be justified by looking
31 at precisely what the nature and extent of the risks are.

32 Turning to those perceived risks, there are four essentially. I am going to take them in a
33 slightly different order from the defence and from the statement for ease and also because
34 two of them substantially overlap. The first is duplication of investment. The second is

1 undermining existing and discouraging future investment in infrastructure. The third is
2 inefficient entry, which is strongly linked in with common costs recovery. Those two issues,
3 inefficient entry, in a sense one is driven by the other, so the risk of inefficient entry is
4 largely driven by the perception that common costs recovery would not be sustainable in the
5 event that a passive remedy was granted.

6 Turning then to duplication of investment, Mr. Culham in his evidence accepted that this
7 has not been a primary focus of Ofcom but he had recognised that it was a factor to take
8 into account. The investment that we are essentially talking about is rolling out fibre optic
9 cable through somebody else's duct. There is already electronic communication equipment
10 on either side of the line, as you get from Mr. Peplow's witness statement, para.30, so the
11 aspect of duplication there simply does not exist as a matter of fact because no CP is able
12 simply to rely upon the service from BT without having its own electronic overlay to ensure
13 what the nature of the service that is being received is. With that fact in mind, of course if a
14 passive remedy is granted and there is only one box on the line then that represents the
15 reverse of a duplication of assets, it is a saving, electronic communications equipment being
16 used by the market.

17 In any event, what we are essentially talking about, therefore, is fibre, and nobody really
18 anywhere in the evidence has suggested that the duplicative costs of running two cables
19 through a duct rather than one is a major or significant issue. What we do not have is
20 anything more than a direction of travel. I am not suggesting it should be precisely
21 quantified, but one would at least want to know what sort of ball park figure, or at least just
22 the scale, whether it is big, small or medium compared to the other things that one is
23 comparing it against so that you can compare like with like.

24 Again, Mr. Pike valiantly has come up with a reference from yesterday which is, on
25 duplication of investment with Mr. Culham, it is transcript day 3, p.4 to 5.

26 I should just say, this goes back to the point I was just making. If duplication of investment
27 were perceived to be a significant detriment to a market intervention which permits
28 competition then, in a sense, we would always end up in a natural monopoly situation with
29 large infrastructures that have scale monopoly. Why would that not apply equally to the
30 water industry, the electronic industry, the gas industry, train services, and so on. The idea
31 that somehow you sit back and say, "Because there is already somebody there who is doing
32 it, and therefore if there is a second competitor you are adding to the competitive costs of
33 entry, it does not, *a priori*, establish an analysis as to why you should not do it. It is pretty
34 rare for a regulator to say that you should not dislodge an incumbent, or at least try and

1 undermine and incumbent because there will be additional costs of somebody else
2 challenging their position.

3 THE CHAIRMAN: I think we understand that competition can involve duplication. It is just one
4 of the factors in the balance.

5 MR. BEAL: Yes, I will press on. Undermining incentives to roll out, competing infrastructure:
6 that would only happen if somehow the pricing for incentives to invest made a disparity
7 between the underlying cost/benefit of investing in a whole roll-out and investing in duct, as
8 long as there is a parity of costs factors to be taken into account then market players can
9 work out what the benefits and burdens are and can compare the two. That is the first point.
10 The second point is that, in any event, as a matter of fact, the incentives to invest have
11 tangibly been very, very low for the last ten years, because there has not been any roll-out
12 of significant infrastructure in this market over the last decade.

13 THE CHAIRMAN: Mr. Culham said that was because of Ofcom's success in reducing prices.

14 MR. BEAL: The prices ought to reflect the cost of inputs, so that is actually slightly circular logic,
15 because if the costs of one of the inputs decreases then one would expect - it simply reflects
16 a changing analysis of the benefits and burdens of investing in infrastructure.

17 THE CHAIRMAN: What new investment will be at risk of undermining it? I want to be quite
18 clear about that. Is it investment in full infrastructure?

19 MR. BEAL: Yes, that must be Ofcom's case.

20 THE CHAIRMAN: Because if you get a cheaper passive remedy option then it is even less
21 worthwhile building your own completely parallel infrastructure. Is that the argument?

22 MR. BEAL: The argument is that, given that nobody seems to be incentivised to build in terms of
23 infrastructure, any particular risk of damage seems pretty low. Inevitably there will be a
24 small knock-on impact on the incentives to invest in full blown infrastructure, because you
25 are introducing an intermediate market, therefore it is not A versus B, it is A versus B
26 versus C. But I do think we would need to at least understand what the scale and scope of
27 the potential risk was, and that if as a matter of fact nobody has been acting on any
28 incentive because of the high costs of civil infrastructure, then I think we can infer that the
29 alleged impact of that particular factor is pretty minimal.

30 If I then move on to inefficient entry and common cost recovery, we have four responses.
31 The first response is that Ofcom has assumed that which should be proved, which is
32 essentially the circularity point; the second point is that disruption is not necessarily a bad
33 thing. The third point is that, even if it were a bad thing, it can be avoided; and the fourth
34 point is that even if it were a bad thing and it cannot be avoided, the detriment is in fact

1 outweighed by the benefits — or at least there is no evidence that the benefits are
2 outweighed by the detriment.

3 Turning then if I may to what has been called “the circularity point”, I did not do a very job,
4 I confess, of putting this point to Mr. Culham yesterday, and in any event he, I think, said he
5 did not understand Dr. Lilico’s reasoning. So here is my second and I hope slightly more
6 effective attempt.

7 Firstly, the point boils down to essentially two twin assumptions by Ofcom. Those
8 assumptions are both that the inevitable result of the introduction of a passive remedy would
9 be the disruption of common cost recovery, and that the introduction of a passive remedy
10 would drive a uniform price which would effectively be the means by which there was a
11 disruption to common cost recovery. That is the first point. Uniform price would result. The
12 second point is that there is a welfare benefit from having common cost recovery and
13 disruption of it would therefore cause a loss. Now it follows if you assume that there is a
14 bandwidth gradient and that the duct access price will be uniform, that you will disrupt the
15 common cost recovery along the bandwidth gradient. So in a sense that follows in every
16 case with those two twin assumptions. You cannot make an assumption that bandwidth
17 recovery will be disrupted because there will be a uniform price and not but reach a
18 conclusion that there will be a detrimental disruption of common cost recovery. What that
19 does not do, with respect, is provide any analysis of exactly what the nature and extent of
20 that detriment would be. So it is, in a sense, two assumptions and a conclusion, but the
21 conclusion does not actually substitute for a proper analysis of the nature and extent of the
22 detriment. Simply saying that it would be disrupted does not identify the extent or
23 magnitude of the detriment. If I can spin this out into a parallel context rather than
24 bandwidth gradient — say a regulator is overseeing a dominant incumbent for monopoly
25 and that monopoly has substantial economies of scale. Imagine the regulator is considering
26 whether or not to intervene by adopting (“intervention A” we will call it) in that particular
27 firm in order to promote competition. We say it would not be an objection for the regulator
28 to turn round and say, “We can only introduce that intervention A if in doing so we did not
29 disrupt the monopolist’s economies of scale”.

30 Now, it would stand to reason that any intervention would disrupt the economies of scale
31 because it follows as a result of economic logic. But that does not mean you have actually
32 worked out what the detriment associated with disrupting the economies of scale would be.
33 We accept, of course, that disrupting economies of scale could give rise to the static
34 efficiency loss. Because economies of scale are a good thing, does that mean that they are

1 therefore bigger than the benefits of promoting competition? The answer is you simply do
2 not know. There is no way simply of stating that you are disrupting economies of scale to
3 follow from that saying, “It must be a big loss and therefore we are not prepared to put in
4 place the intervention”. So that is, in a sense where the twin assumptions that Dr. Lilico has
5 identified drive you to. There is also an inherent tension in those twin assumptions which
6 I mentioned in my opening, which is if you are assuming that bandwidth gradient is good
7 that you have a uniform pricing for duct, you are imagining a competitive counter-factual
8 which is at odds with the pricing recovery that you are permitting in the present state of the
9 market if you hypothesise a nominal intermediate market between the two.

10 But that would simply mean, that would simply drive the result that you have a natural
11 monopoly and there are scale benefits with a natural monopoly and also costs recovery that
12 fits with a natural monopoly because the natural monopoly is able to price more closely
13 according to the specific demands of different consumers. So it would be the second form of
14 price discrimination argument that Mr. Culham has identified.

15 It would follow then in the same way that if one re-applies the logic of scale economies to
16 bandwidth gradient, then you cannot actually simply say disrupting the bandwidth gradient
17 is a bad thing without begging the very question that you need to ask which is, “Well,
18 actually, how bad would it be compared to the benefits of competition?” And I am afraid it
19 is there that we have the full impact of my first argument which is Ofcom has not done the
20 work. They have put in place — and I do not mean it in a disparaging way — something
21 that is little more than argumentation of a thought experiment, have not actually done the
22 analysis. That, for example, we saw flagged up in the WLA review, where they
23 commissioned an economic survey to work out what the respective costs and benefits would
24 be; that was the thrust of the point I was taking with Mr. Culham yesterday (Transcript day
25 3 p.10). Now, it is true that Mr. Culham in his evidence performed some *ad hoc* maths when
26 he sort of hypothesised some figures. The difficulty is that of course none of that was ever
27 made public or put to stakeholders. We have not had the dialectic of the response from
28 stakeholders to the particular argumentation he developed and deployed, so I am afraid it
29 would be difficult for the Tribunal to put too much weight on that rather *ad hoc* maths
30 intervention that Mr. Culham performed. That is the first point, that is circularity.

31 The second point, we say disruption is not a bad thing *per se*. Firstly, disruption was not a
32 problem for local line unbundling. There must inevitably have been a disruption to BT’s
33 suite of common cost recovery because there is a regulated entity in a number of different
34 markets, different services. There must have been a disruption from LLU but it was not

1 perceived to be the massive problem that Ofcom are saying it is for this particular market.
2 Secondly, it was not a problem for the NGA PIA remedy. There was no perceived problem
3 there that it would disrupt common cost recovery from BT to such an extent that it should
4 not be imposed. The LRIC Plus standard that was imposed enabled BT to reorganise its
5 common cost recovery on an appropriate basis. What you do not see in the PIA remedy is
6 any suggestion that BT cannot monitor the usage. I accept that it is geographically limited
7 between the exchange and the premises; but at the same time there is no concern being
8 expressed by Ofcom as a regulator that this is a remedy that is going to be impossible for
9 anyone to police. That was a point, in fact, when you look at the submissions made by some
10 of the people who were opposed to the remedy or opposed to the demarcation of the remedy
11 being limited to residential services *de facto* that was a point that was raised, but Ofcom did
12 not think that that was insuperable.

13 Thirdly, it is not a problem for WECLA. WECLA lead to a competitive market entry
14 through the second type of competition which is full infrastructure roll-out. That must have
15 disrupted BT's common cost recovery, but again it was not perceived to be a problem.
16 Indeed, it led to downstream services in WECLA being classified as being effective and
17 sustainable competition.

18 Fourthly, this problem must have arisen not only in other industries, such as water and
19 electricity distribution but also in other jurisdictions with other incumbents, France,
20 Portugal, Spain. Again, it was not perceived to be a sufficiently large problem that it
21 justified not allowing the passive remedy.

22 Of course, if FRAND were mandated then we say BT would be left in charge of its own
23 destiny, it could allow such flexible cost recovery as it felt was appropriate across the range
24 of services it was offering.

25 Two further points. First, there are in fact some benefits of disrupting common costs
26 recovery come what may. First, it weeds out subsidies, insofar as there are some, and the
27 difficulty with relying on a regulator to spot subsidies is that they do not have perfect
28 knowledge of the pricing structures of the incumbent.

29 Secondly, it weeds out undetected anti-competitive behaviour. We say, as a matter of
30 principle, Dr. Lilico was surely right to say it is better to leave the market to deal with
31 competition concerns insofar as it is able to do so. These are all points of response to an
32 argument that common costs recovery justifies denial of the remedy. None of those points,
33 we say, properly construed, is a challenge to the underlying active remedy itself and that is

1 very important because that deals both with the jurisdiction point and also, to a lesser
2 extent, with the pleading point that is being taken against me.

3 The third point is that even if disruption were likely to follow, Ofcom has not actually
4 considered whether or not it could put in place systems or procedures which would enable
5 that disruption to be avoided and/or minimised. So FRAND is the obvious answer - not a
6 question – FRAND is at least an option. It is deserving of better and further consideration
7 and we say, actually, it is open to the Tribunal to direct FRAND because there is no
8 intrinsic objection to it other than the practical one. The practical point is it will lead to spats
9 further down the line between industry players. You saw how that was dealt with in the
10 WLA Access Review where Ofcom simply built in its own industry-wide review process
11 after the reference offer had been finalised. In other words, sweep up all the complaints
12 about the reference offer and deal with them in one go, and then FRAND is free to proceed
13 on unmolested.

14 The other option is the ‘high price option’ as Mr. Holmes called it. You set a price that is
15 the maximum common cost recovery on both the geographical and the bandwidth basis and
16 then you let the market work out whether or not it is justified.

17 In terms of monitoring, in the NGA PIA Ofcom has said in terms that the remedy cannot be
18 used for leased line services. I accept that there is a geographical restriction, but that also
19 does imply a form of ensuring that the duct space is not diverted for use beyond that which
20 is subscribed by the remedy.

21 We say also that for the reasons set out in Dr. Lilico’s first and second reports we can find a
22 way round this, or at least this work that needs to be done, that would enable a way to be
23 found round it in principle. The work carried out by Mr. Mantzos was designed to show that
24 you can actually derive some form of price if you put the work in.

25 A couple of objections to this, principally, I think based on monitoring. One objection is
26 that somehow BT would get to know its competitors’ pricing and contractual arrangements.
27 There is no reason why that should happen. For dark fibre, for example, BT can simply
28 monitor the volume of traffic passing across the fibre. There would be no need to have any
29 form of depack inspection or anything other than an analysis of the level of the fibre optic
30 light passing along the cable.

31 Secondly, we can think of means in which a usage could be set. The one that I put to Mr.
32 Culham yesterday was that you could have a contractual rate which was based on the
33 highest price, and then you would allow the customer to prove their entitlement to a rebate
34 under contractual terms to be negotiated between the parties, which reflected a lower level

1 of usage such as to maintain in force a form of price discrimination according to usage, i.e.
2 a form of rebate system.

3 The final point on this is that, even if disruption were bad and cannot be avoided, we say
4 there is no evidence that the benefits of competition are outweighed by the detriments,
5 because whilst we have the analysis that there would be a detriment associated with
6 disrupting the common cost recovery what we do not have is any sense of how big that
7 disruption would be and what the loss to the market would be in contra-distinction to pretty
8 well-founded ground for saying actually this would be pro-competitive and lead to
9 advantages. Yesterday, I put to Mr. Culham: “If you are saying there would be only small
10 entry there would be only small losses”. It follows that the downside of allowing a remedy
11 is that the gains may not be great but if that is the case then the losses would not be great so,
12 in a sense, what is the harm? The answer to that was that Ofcom will have to be involved in
13 the regulatory process. It already is involved in the regulatory process, all that we are doing
14 is saying: “Please can you relinquish some of your empire to enable free competition to take
15 the place of managed competition for a particular type of infrastructure?”

16 We think there has been good reason to support the proposition, based on the evidence that
17 you have seen, that innovation and competition would be at least as well served and, indeed,
18 better served by passive remedies rather than active remedies and, more importantly, we say
19 Ofcom has not established the converse. Ofcom cannot have satisfied the Tribunal that
20 competition is at least as well served by active remedies as it would be by the passive
21 remedy. There is simply no case that I have seen advanced as to why innovation, for
22 example, product differentiation, is better served by the active remedies that are in place,
23 than they would be by the introduction of a passive remedy. So, in terms of the calculus we
24 do seek to suggest that there is a clear error of approach, and it is appropriate to remit on
25 that basis.

26 Can I then please move on to geography – it is a sub-issue really of the efficiency debate.
27 BT says that Colt has wilfully neglected this. The reality is that unlike BT we simply did not
28 think geography was an insuperable problem (see Dr. Lilico’s second report at para.7.43).
29 There, with respect, we seem to be on common ground with Mr. Culham, when, at day
30 three, p.33,line 13 I asked:

31 “Moving on to geographical issues, did you look at whether geographically the
32 average pricing would be possible?”

33 Answer:

34 “I think that our view on this was that it would be possible.”

1 So if that is the case then the claim based on geography as a distinct issue rather falls away.
2 In our view, with respect the issue rather falls away anyway because there is nothing
3 intrinsically more intensive about the use in Newcastle than there is in London, it actually
4 depends on how much traffic is going through the cables, so geography is a bit of a red
5 herring. First, you can actually price separately for the duct in different geographical
6 regions because you know where they are. Secondly, insofar as it is based on underlying
7 usage no separate argument in truth is articulated that is distinct from the arguments about
8 differential usage within a particular cable location.

9 So, some points about geographical arbitrage: first, we say the problem does not arise with
10 FRAND. Secondly, it was not prevented by the PIA remedy, it was not an articulated
11 argument as to why the PIA remedy should not be rolled out.

12 Thirdly, an element of geographical differentiation is tolerated in the wholesale market as it
13 stands in any event (see Mr. Sinclair's second witness statement at para. 38). So it is already
14 a feature of this market.

15 Fourthly, we think that some form of geographical variation could be built into BT's
16 pricing. The suggestion made by the learned Member, Ms Potter, for a geographical
17 premium was one that actually no witness seemed to have a fundamental objection to. For
18 your reference, I think that was something that arose on day 3, p.40, lines 20 to 31, and
19 then, over the page, p.41, lines 1 to 4.

20 Fifthly, if geographically average pricing were adopted then there is an unresolved issue as
21 to the extent to which that might be a cross-subsidy and therefore not welcome, which is
22 something that came out with Mr. Culham's evidence. What we do not have is any analysis
23 of the welfare damaging effects of having geographically de-averaged prices, and indeed
24 Mr. Culham (first witness statement, para.36) recognises that WECLA is an example of the
25 geographical de-averaging of prices, and yet it is held up as an example of an effective and
26 sustainable competitive market.

27 Sixthly, if duct access were priced on the basis of circuits, we recognise that you would
28 need some sort of conversion factor to reflect usage. That has been built into Mr. Mantzos'
29 proposed solution (para.35).

30 Seventhly, there is no necessary inter-dependence between geography and usage levels.
31 You could have an out of town business park and you can have a purely residential area
32 where there is very little loose lines activity. There is no necessary connection between the
33 two.

1 Finally, of course, we have the price architecture which, in any event, would deal with the
2 risk of disruption.

3 Could I, in the couple of minutes left available to me, with your indulgence, please tackle a
4 series of miscellaneous points which really have arisen as a result of the opening
5 submissions. Reference was made to our consultation documents and concentration was
6 levelled at the first line of the first paragraph. If you would be so kind as to read the whole
7 of our response to the passive remedies point, it is broader than is suggested, and in any
8 event, what we were looking at was the impact potentially of very high bandwidth
9 residential services eating into the business market. So it is a different point.

10 Secondly, jurisdiction: unless you would like me to do so, sir, your question earlier to me
11 dealt with that point. Can I come back in reply if there is any particular point that is still
12 unsatisfactory?

13 The bottom line is, yes, we have not challenged the BCMR active price remedies. There is
14 no point because we have not got a passive remedy, it is only the interaction between the
15 passive remedy and a separate issue which is common costs recovery which is put forward
16 as a reason why the passive remedy should not be granted.

17 A pleading point: it is suggested that somehow our pleadings have not encompassed the
18 points we have been making. There are two points to that. Firstly, a number of the points
19 that we are making are actually responsive. I mean no discourtesy when I say that reading
20 Mr. Culham's first witness statement, one gets a different impression of the key factors
21 driving this decision than one would from a dispassionate reading of section 8 of the BCMR
22 statement. We do say that the focus has changed, understandably, because they choose to
23 bring out different points that they think deal with our argument. That is not, of course, a
24 criticism, I am simply saying that that is the way it is.

25 Secondly, and in any event, the allegation that the scope of our arguments is not pleaded in
26 terms of failure to do the work, failure to take into account relevant considerations is wrong,
27 because one need only see paras.6.8, 6.10 and 6.12 of our notice of appeal to see that whilst
28 the issue was not framed in the way it is now because we have had distillation of the issue
29 through the dialectic of each party's argument, nonetheless we did say that you should have
30 done the work and you were not looking at the right things, because one of the key
31 complaints we make is if you are saying that disruption to the active remedy is a bad thing,
32 why did you not look and investigate whether or not the passive remedy could be tolerated
33 alongside the active remedy with necessary modifications if needed?

1 So we do end up with this rather curious situation where a regulator of an incumbent is
2 trying to preserve the incumbency against an intervention of ring competition,
3 notwithstanding that there are clear benefits recognised to derive from competition at a
4 different level of the infrastructure. With respect, we think that is a real shame because Colt
5 thinks it can offer a genuine product differentiation, a genuinely new service to meet
6 genuine demand.

7 Thank you.

8 THE CHAIRMAN: Thank you, Mr. Beal, very timely. Mr. Holmes, we could break now, if you
9 wish.

10 MR. HOLMES: Sir, it might be useful to have just five minutes to order my notes.

11 THE CHAIRMAN: That would be reasonable, and we will see how you do against the lunch
12 hour.

13 MR. HOLMES: Yes, sir, I shall certainly do my best, but there is a lot of ground to cover.

14 THE CHAIRMAN: That is all right, we will continue after lunch.

15 (Short break)

16 THE CHAIRMAN: Mr. Holmes?

17 MR. HOLMES: Sir, I will begin with a couple of short introductory remarks and then I will go
18 through the grounds of appeal picking up Ms Potter's question to me in opening under
19 Ground 3, if I may. First, competition: this is where Mr. Beal began his closing address, and
20 it is a good place to start. It is at the heart of the Common Regulatory Framework, and it is
21 specifically mentioned in Ofcom's main statutory duty.

22 The Tribunal has been understandably concerned during the course of this hearing to
23 understand how competition can best be enabled in this context. Mr. Beal invoked
24 Mr. Adam Smith, a man whose insights have not gone unheeded in the Competition Appeal
25 Tribunal. If we were dealing with Scottish corn or cloth merchants of the kind Mr. Smith
26 was observing in 18th century Edinburgh, life would of course be very simple. There would
27 be no need for Ofcom to debate whether and on what terms Colt should be given mandated
28 access to another company's assets, but in network industries, and I appreciate the Tribunal
29 well appreciates this, the equation is more complex. Some network assets may be capable of
30 efficient replication, and where that is the case competition can and will spring up. The
31 Tribunal will have noted that in much of the UK people have put in their own infrastructure
32 and compete with BT in the supply of leased lines.

33 Investment of this nature is capital intensive and it tends to come in waves. As Mr. Beal has
34 rightly pointed out, over the last few years capital has not been readily available for projects

1 of this nature. The assets from the last wave of build-out still remain and are used by
2 competitors to provide leased lines in many parts of the country in competition with BT,
3 including in the area covered by the City case study on which Colt relies in its evidence.
4 Other parts of the network are not capable of efficient replication in this way. The Tribunal
5 heard the evidence of Dr. Maldoom and Mr. Culham on this point. There are still many
6 parts of the country where the economics of network duplication do not stack up. There
7 may, therefore, be stubborn bottlenecks.

8 This is not the end of the road for competition. As we all know the owner of the bottleneck
9 assets is not left to use its property freely, subject only to the private law of the land, as
10 Mr. Adam Smith's wool merchants may be left to do. It is made subject to stringent
11 regulatory obligations. The network owner's prices are regulated to stop it making
12 excessive returns and to drive productive efficiency, while also ensuring that it makes
13 enough to keep its network up to date and maintained in all parts of the United Kingdom.
14 The network owner is also required to give its companies access to its network on regulated
15 terms.

16 The specific product we are dealing with here is leased lines, and there is no particular
17 magic about these, as the Tribunal has heard. They are bits of fibre that run from A to B
18 with electronic equipment at either end to transmit and receive information. To use a
19 plumbing analogy, they are fairly standard pipes that are used by big companies and
20 communications providers as a network component.

21 This case is not an argument about whether BT should be mandated to give access to its
22 network for the purposes of providing leased lines. Leased line products are, themselves,
23 largely a product of regulation. They are, in themselves, a form of access to the incumbent
24 operator's network; unbundling of elements that were once provided only as part of BT's
25 integrated retail offering.

26 There is a large and established industry that has grown up around this access. The Tribunal
27 will recall Colt's views during the consultation process. It considered that the United
28 Kingdom offered "world class business connectivity options", and it expressed general
29 satisfaction with the current regulatory framework. The issue in this appeal is therefore a
30 much narrower one, not whether a monopoly provider should be regulated at all, but rather
31 a choice between a selection of different forms of access which could be combined or
32 selected between.

33 The different form of access which is specifically in issue is whether BT should be required
34 to allow competitors to enter its duct space and install their own fibre, or to use fibre that

1 BT has installed, but which is not currently lit - that is to say it does not have the equipment
2 at either end to send the optical signal and receive the optical signal. So Colt wishes access
3 to the ducts and/or the fibre, and to attach equipment that it has purchased instead of the
4 equipment that BT purchases at either end of the fibre.

5 Mr. Beal rightly points out that, and Ofcom has consistently recognised the fact, that this
6 type of entry could bring certain benefits. It does not spell the end of regulation in any
7 sense. This is still regulated access to assets that are owned, installed and maintained by
8 another company and the price for such access would also need to be regulated in order to
9 prevent BT simply switching off this form of access by setting an unduly high price.

10 However, there could still be some incremental benefits over active access remedies despite
11 the fairly generic nature of these products insofar as a company was enabled to get access to
12 the cable, the fibre, and then to procure for itself the opto-electronic equipment at either end
13 of the fibre. In this case Ofcom therefore looked carefully at whether to introduce passive
14 access. But Ofcom also had to weigh carefully the consequences of passive access for the
15 existing model of access regulation and for the other type of access product which is already
16 available and is widely used.

17 The Tribunal has heard about the knock-on effects of passive products on the pricing of
18 active products. The concerns were brought into focus for Ofcom by the explanations that
19 were provided by the communications providers who were seeking passive access with the
20 most enthusiasm during the consultation process. A material part of their reason for wanting
21 passive access was clearly because of the dissatisfaction they felt with the active prices that
22 they were paying. Understandably, they wanted to pay less for business inputs and they
23 believed that passive remedies would be priced in a way that would reduce their costs. Now
24 of course bringing prices down is generally something that Ofcom very much wants to see,
25 but overall in mandating access to BT's assets Ofcom needs to make sure that BT has a fair
26 chance to cover its costs, and price reductions for some may lead to price increases for
27 others. Ofcom needs to consider whether these changes in pricing are economically efficient
28 and whether they accord with its other statutory duties.

29 Equally, competitive entry is generally a good thing, even where it is messy. But if the entry
30 is largely in order to exploit an arbitrage opportunity, it may be less desirable than if it is to
31 compete on a level playing field by reference to innovation and incremental costs.

32 The Tribunal has heard the evidence, and there is no real dispute that Ofcom's concerns are
33 real and legitimate ones for a regulator to have. As Dr. Lilico put it in cross-examination,
34 nobody denies that there are losses from having the intermediate market, that is to say the

1 passive access market, in principle. (That, for your note is at Day 2 of the transcript, p.22
2 line 32).

3 For his part, Mr. Beal recognised in his closing submissions yesterday, that the real
4 battleground of this case is therefore ground 3, whether Ofcom adequately weighed matters
5 in the balance. My submission today will be that it did, and that the appeal should be
6 rejected. For now, my point is simply that to invoke the spirit of Adam Smith is not in itself
7 an answer to the complexities with which Ofcom and the Tribunal must grapple.

8 My second introductory remark concerns the process that Ofcom followed. You have my
9 submission that Ofcom consulted fairly and with an open mind. Mr. Beal suggested
10 yesterday that the call for inputs was opaque and that Ofcom had already decided against
11 passive remedies by the time of the consultation document. Neither allegation is correct.
12 The call for inputs was exactly that, a broadly framed opportunity for companies to shape
13 the matters to be considered by Ofcom from the beginning of the process. The consultation
14 document set out Ofcom's views in detail including its thinking about the benefits and the
15 potential difficulties involved in introducing passive remedies. Colt understood Ofcom's
16 concerns about passive remedies, and it responded. Its response was to accept that cherry-
17 picking or arbitrage-based entry would happen but to say that it would happen anyway on
18 account of PIA in WLA. Mr. Beal suggested in closing that this was a different point; but,
19 with respect, it was an elaboration of Ofcom's central concern. The point that Colt was
20 making was not that there would not be arbitrage in relation to leased lines, it was rather
21 that there would be arbitrage in any event but with a different group of communication
22 providers benefiting — namely those that provided residential services pursuant to the PIA
23 remedy. So there was no failure to put Ofcom's concerns. Ofcom explained very clearly
24 what its concerns were. Mr. Beal tried to show the inadequacies of the consultation by
25 reference to various consultees' responses. Now, if no-one had grasped Ofcom's concerns,
26 it might be possible to draw certain inferences as to the adequacy of the consultation. But as
27 Mr. Beal's own examples showed, CPs did in many cases understand Ofcom's concern, and
28 Colt was among those operators.

29 The Tribunal has before it Ofcom's published consultation documents, and it can draw its
30 own conclusions as to what was or was not raised. Ofcom's submission is that it properly
31 explained the difficulties which it had in mind, and a number of CPs sought to address those
32 difficulties. Nor had Ofcom closed its mind at any stage of the consultation procedure.
33 Giving a provisional view is consistent with fair consultation. Ofcom was open to re-
34 consider that view in the light of the responses it received. Now, the fact that passive

1 remedies might have implications for other market reviews would not have stopped Ofcom
2 from pursuing matters further if the responses had changed its views as to the balance of
3 benefits and detriments in relation to the introduction of passive remedies here. A number
4 of procedural options would then have been open to it. But what is clear is that it would not
5 simply have proceeded to the negative decision regarding passive remedies which it took in
6 the BCMR statement and which is the subject of the present appeal.

7 Thirdly, let me briefly deal with the PIA remedy in WLA, a point on which Mr. Beal has
8 relied in several circumstances. Mr. Beal's argument is a simple one: "If there is a remedy
9 for WLA why not also [for leased lines, that I think is his core point]. Surely the same risks
10 would be run". The answer is this: in WLA Ofcom introduced PIA for a very specific
11 purpose. It was to allow a new operator to come along in parts of the country where BT was
12 not rolling out superfast residential broadband and to get access to BT's ducts in order to be
13 able to do so.

14 Now, Ofcom recognised that the capital costs involved in doing this would be big and that it
15 would be a very demanding exercise. The expectation was that it might be done using grants
16 from central government aimed at overcoming the so-called "digital divide", the inequalities
17 of access in different parts of the country to the latest communications infrastructure. For
18 areas where BT has rolled out, or is rolling out, superfast broadband, Ofcom introduced a
19 different product, an active product called "VULA", to enable others to compete with BT on
20 the downstream retail market. So, the reason why PIA is unlikely to be used where BT has
21 not rolled out is because wherever BT does roll out there is an easier route to market. I can
22 show you that by reference. I think it might help if we go to the relevant document. I know
23 you were shown it by Mr. Beal in closing, but there are a few passages I would just like to
24 draw your attention to. It is in BT2 at tab.1 and this is the statement at the conclusion of the
25 WLA market review. So the equivalent document for WLA is the BCMR statement. And if
26 I could ask you, first, to turn to the summary in section 1, at paragraph 1.5 it is explained
27 that:

28 "The new regulatory model rests on [several] elements. [One is] VULA which will
29 allow competitors to deliver services over BT's new NGA network, with a degree of
30 control that is similar to that achieved when taking over the physical line to the
31 customer.

32 Another is:

1 “Physical infrastructure access (“PIA”) which will allow competitors to deploy their own
2 NGA infrastructure between the customer and the local exchange, using BT’s duct and pole
3 infrastructure to provide broadband and telephony. A third is local loop unbundling.

4 At 1.6 Ofcom explains:

5 “We expect the new regulatory remedies to be used in different circumstances.
6 VULA is likely to be the most attractive for communications providers where BT
7 has already upgraded its local access network; PIA will be attractive to companies
8 wishing to address market opportunities in advance of BT and may also be of
9 particular interest to companies wishing to provide service in locations which may
10 be in receipt of public funding support.”

11 This was the point about public funding to fill the gap.

12 There are just a few passages that I would like to show you in the document. If you could
13 turn forward to p.5 at 1.26. There you see confirmation of the point I was just making.

14 “At this point, we consider that VULA is likely to be the main basis for NGA
15 competition over BT’s network ...”

16 That is the active product.

17 “... to supplement the continuing effectiveness of LLU, at least over the next four
18 years. Our economic analysis suggests that VULA is very likely to be the most
19 cost effective NGA remedy and the remedy most likely to emulate the level of
20 competition currently delivered by LLU. However, we think that access to BT’s
21 duct and poles, and, to a lesser extent, SLU (sub loop unbundling) could also play
22 a part in supporting competition, as well as investment in NGA. Partly, this is
23 because VULA will only be available where BT deploys its NGA network.”

24 If I could ask you to turn forward to s.7, which is the section which considers specifically
25 physical infrastructure access, there are some points to be made by reference to that as well.
26 The first point to note is that in the penultimate bullet of 7.5, which Mr. Beal fairly invited
27 you to read at your leisure, there is an explanation of the high fixed costs, the expense and
28 difficulty in other words that will be involved in providing PIA, and the fact that those costs
29 are higher than the GEO product, another active product supplied by BT.

30 Turning forward to 7.49 we see the point that I think Mr. Beal took your attention to. We
31 propose PIA as a remedy to promote effective competition in the WLA market, and
32 therefore the geographic scope of the remedy that we can impose is restricted to the WLA
33 market, i.e. the local access networks.

1 Then moving further through you have the point that Mr. Beal showed you in 7.57 about the
2 risk of disruption to prices if PIA were to be introduced into BCMR. Then at 7.58 Ofcom's
3 view that it would be inappropriate to extend the scope of PIA without assessing the need
4 for and impact of a PIA remedy in the business connectivity market.

5 This was in support of a point made by Mr. Beal yesterday, to the effect that there was an
6 element of circularity in saying on the one hand that WLA was not the right place to address
7 PIA as a remedy for business connectivity and, on the other hand, saying in the context of
8 business connectivity that it is a wider issue which raises matters of relevance to WLA.

9 That is what I understood the argument was. It means basically ----

10 THE CHAIRMAN: The issue gets batted back and forth.

11 MR. HOLMES: Kicking the can down the road. Whatever may have been the evidence and
12 points that emerged during the hearing, it was no part of Ofcom's reasoning to say in the
13 business connectivity market review that it wanted to defer the decision on passive remedies
14 because of any implications for other markets. Its point was it had considered benefits and
15 detriments, and it had concluded that the case for introducing passive remedies in business
16 connectivity markets was not made out, so Ofcom did not defer the decision, it took the
17 decision and that is the decision which is under appeal today. So, I do not think that is a fair
18 criticism that can be levelled at Ofcom, if I understood it rightly.

19 THE CHAIRMAN: No. You could ask whether Ofcom in the business connectivity market
20 review decision made enough references to the WLA decision previously because, as has
21 been put to us, the WLA decision is essential background, if you like. It explains, in part,
22 why the issue comes up. The other part is obviously the previous BCMR review. With
23 hindsight, one might perhaps have expected the odd paragraph. Are you saying that is there
24 or not?

25 MR. HOLMES: I am afraid I will have to check on that point and get back to you with references
26 if I may.

27 THE CHAIRMAN: I think that is where it comes in.

28 MR. HOLMES: I understand. Thank you, sir, I am grateful for that. Moving forward, I
29 understood and, again, I hope that I understood correctly, that Mr. Beal was suggesting that
30 monitoring was not identified as a difficulty in the WLA context. If you could review para.
31 7.62 just before we leave this document, you will see that there was some consideration of
32 practical difficulties, and you will see that there were some suggestions for dealing with it.
33 It certainly was not the case that Ofcom conclusively determined that there was scope to
34 monitor.

1 THE CHAIRMAN: What about Mr. Beal's point about the pricing mechanism? Are you going to
2 deal with that?

3 MR. HOLMES: Sir, you will have to assist me in explaining his point about the pricing
4 mechanism.

5 THE CHAIRMAN: It is not my job to explain his point. I think he made the point that it was
6 envisaged in the PIA remedy in the WLA decision that prices might not automatically be
7 arrived at and that there would be a mechanism and a dispute mechanism.

8 MR. HOLMES: 7.23.

9 THE CHAIRMAN: I think he said that therefore meant that some of the points you had made
10 about the difficulty of FRAND in particular, might be overstated. I think that is what I got
11 from what he said.

12 MR. HOLMES: I understand, sir. It is correct that BT was left to come up with a reference offer,
13 if I understand rightly. That reference offer could, of course, be the subject of a dispute
14 reference if any communications' provider were unhappy with it. But because of the nature
15 of the PIA remedy there is not the same concern, in our submission, about directly
16 analogous products being supplied at the active level in relation to which arbitrage would
17 arise.

18 THE CHAIRMAN: This is your argument about differing incentives, or it may be Mr. Beard's
19 argument, I cannot remember.

20 MR. HOLMES: Yes, sir, indeed. We can come back to that if necessary, but I think for now I do
21 not want to get too bogged down in the introductory comments as I see I have already spent
22 quarter of an hour.

23 THE CHAIRMAN: A case may lie in the introduction, you never know!

24 MR. HOLMES: You never know, sir; you never know. I must say I sometimes struggle to know
25 quite where this case does lie, but I am sure that is my own shortcoming.

26 The key point then was that PIA was a demanding remedy and it was not expected to have
27 much role to play.

28 Let me now hand up a recent Ofcom consultation document which shows the Tribunal the
29 state of play as of December 2012. The document contains some confidential material and
30 so in consequence I must ask that it be confined to those within the confidentiality ring
31 when I pass it to my learned friends. (Same handed) Sir, this is a recent Fixed Access
32 Market Review. The world moves on. As you observed, sir, this is a process like painting
33 the Forth Bridge. As soon as one market review ends the next one begins, and here we have
34 a consultation in certain markets. At 11.533 you see the state of play at the date that you see

1 the date in the red passage of the extent of PIA use. So that, across the entire United
2 Kingdom, was the extent to which PIA was being used as of December 2012.

3 THE CHAIRMAN: That is not because of difficulties of agreeing the price?

4 MR. HOLMES: No, sir, I think the reference price was published, and I do not believe that there
5 have been any complaints or disputes referred to Ofcom. The reason we would say, sir, is
6 because it is very, very demanding to go and do what PIA envisages, you would have to dig
7 to a lot of customers to make it worthwhile.

8 THE CHAIRMAN: It is still quite early days.

9 MR. HOLMES: It is, sir, we fairly take that point. You have seen that PIA, it is a demanding
10 remedy, it is an economically difficult remedy to be met, and certainly at this stage there is
11 no take-up. I suppose the highest I can put my point is we cannot draw any general
12 conclusions about the extent to which arbitrage would arise.

13 MS POTTER: Particularly given the end of 11.5.33 anyway, which talks about the fact that a
14 main use has not yet, in fact, transpired?

15 MR. HOLMES: Yes, that is correct, no BDUK funding been conferred on those other than BT.
16 BT's network build-up has been faster than perhaps was anticipated.

17 THE CHAIRMAN: Thank you.

18 MR. HOLMES: So the answer is that PIA was always understood to be of limited scope and it has
19 proven to be of very limited scope so far. If an operator had taken up PIA there would
20 almost certainly be a problem of arbitrage, we submit, as Colt recognised in the consultation
21 response, but the risk was understood to be a contained one and in practice it has not yet
22 arisen.

23 So let me now turn, if I may, to the grounds of appeal. It would be fair to say that Colt's
24 position has evolved over time. Not only is the appeal itself in marked contrast to the
25 consultation response, but during the course of the appeal Colt's arguments have developed,
26 and new criticisms have arisen of Ofcom's Decision. What I propose to do in relation to
27 each ground is address, firstly, the ground of appeal as it is put in the notice of appeal,
28 because that is the document by reference to which the appeal has to be decided, and I need
29 to make sure that I hit all the bases, and then assist the Tribunal in relation to my
30 understanding of the way the case is now being put.

31 In order to make sure I address the original formulation of the case it might be useful to
32 open the core bundle at tab 4, which is the notice of appeal, which contains at p.4 a helpful
33 summary of Colt's case. This is a document to which I shall return in relation to each of the
34 grounds of appeal, but at 1.4(a) you see the summary of the first ground:

1 “Ofcom is wrong as a matter of assessment to view passive and active remedies
2 as necessarily alternatives and to reject passive remedies as a result.”

3 You have my answer to that. Ofcom made clear throughout that it did not regard passive
4 and active remedies as necessarily alternatives. On the contrary, it expressly recognised that
5 they could be combined and sought to grapple with what would be the consequences of
6 doing so in this case. In the call for inputs, for example, Ofcom flagged as one of three
7 issues what would be the implications if passive remedies were to be introduced alongside
8 passive remedies. In the 2012 condoc Ofcom stated in the summary conclusion on passive
9 remedies, “Imposing passive remedies either in isolation or in combination with active
10 remedies could carry significant risks of worst outcomes”, again a clear recognition that
11 passives and actives could, in principle, be combined, and the reference is para.8.43, second
12 bullet of the condoc.

13 In the BCMR statement in the summary in section 1 Ofcom began its discussion by saying,
14 “We have also considered the case for imposing an alternative or additional set of
15 requirements known as passive remedies”. That is at para.1.40 of the statement.

16 In his opening submissions, Mr. Beal suggested that there were aspects of the Decision
17 which showed why Colt could be forgiven for having thought that Ofcom was treating
18 passive and active remedies as alternative rather than complementary. He also contended
19 that Ofcom’s Decision amounted to an internal *fait accompli*, and that Ofcom had decided
20 *in limine* that a passive remedy could not be accommodated alongside an active remedy.

21 In his closing submissions this, together with an argument that Ofcom had not taken
22 account of relevant considerations in consequence became Mr. Beal’s new Ground 1. We
23 say that the new Ground 1 is without foundation. In opening, Mr. Beal developed this new
24 Ground by reference to various passages in the statement itself, and we should briefly look
25 at those. Could I ask you to take up the additional materials bundle and turn to tab 8. He
26 began by looking at paras.8.4 and 8.6, which is conveniently on the first page of this tab.

27 THE CHAIRMAN: Are we keeping the summary as well?

28 MR. HOLMES: If it is possible to do so conveniently, I would be grateful if you could. In the
29 final sentence of 8.4 Ofcom summarised its conclusion:

30 “If we were to impose passive remedies then, at least in the short term, we
31 would need to manage the co-existence of the two types of remedies (both
32 existing remedies and passive remedies).”

33 So in passing Ofcom’s conclusion there is further evidence that it did not regard passive and
34 active remedies as necessarily alternatives. On the contrary, it recognised that they could, in

1 principle, be combined with active remedies, but the co-existence would need to be
2 managed.

3 It was para.8.5 that Mr. Beal relied upon. Ofcom stated:

4 “However, imposition of passive remedies is likely to be inconsistent with
5 important aspects of the package of remedies which we are imposing, including
6 the form of the charge controls. In other words, imposition of passive remedies
7 would be likely to be part of an alternative, rather than a complement, to that
8 package of remedies. In reaching the decisions in this Statement, we therefore
9 needed to decide which approach we considered would be likely to be more
10 consistent with securing or furthering our statutory duties.”

11 This, Mr. Beal said, showed an internal *fait accompli* on Ofcom’s part. The allegation is that
12 the active remedies are taken as a given, leaving no room, in light of that, for a passive
13 remedy. That I understood to be his submission.

14 We say that when you look at para. 8.5 it is densely reasoned, but actually it says quite the
15 reverse. It makes absolutely clear that the two decisions were being taken in the round, the
16 decisions about the price control and the decision about the passive remedy.

17 Let me unpack that by going through it sentence-by-sentence. Ofcom first refers to the
18 likely inconsistency between passive remedies and the form of the charge controls which
19 are simultaneously being set in the same document. By the form of the charge controls
20 Ofcom means the basket approach and the pricing flexibility which it allows to BT, so the
21 particular design of price controls in this case. The reason for the inconsistency is, of
22 course, the cherry-picking concern which is later developed in the substance of section 8.
23 Ofcom then continues in the second sentence:

24 “... [the] imposition of passive remedies would be likely to be part of an
25 alternative, rather than a complement, to that package of remedies ...”

26 meaning the remainder of the remedies being simultaneously adopted in the BCMR
27 statement, and then in the final sentence Ofcom explained, that in reaching the decisions in
28 this Statements - that is “decisions” in the plural, not only the decision in relation to passive
29 remedies, but also the decision as to the design of the price controls. Ofcom needed to
30 decide between possible alternative approaches. The alternatives were to adopt the package
31 which it did with the price controls in the form ultimately selected; or to adopt a different
32 package which included differently designed price controls and passive remedies. So,
33 para.8.5 we accept is quite condensed, but if one reads it carefully it shows very clearly that
34 Ofcom was not taking anything for granted. On the contrary, paragraph 8.5 shows that the

1 decisions in the statement, plural — decisions in the plural referred to in the final sentence
2 both as to the form of the price control and the introduction of passive remedies were taken
3 in the round.

4 Mr. Beal also placed some reliance on the reference to Ofcom’s current approach to
5 remedies in the third sentence at paragraph 8.6, but again this does not show any *fait*
6 *accompli*. It simply reflects that the former charge control that Ofcom adopted to maintain
7 in place in the BCMR statement was a continuation of the existing regulatory framework.
8 They were current prior to the adoption of the new package of remedies. It does not show
9 that Ofcom pre-judged the matter or did not decide afresh on the appropriateness of that
10 form of charge control at the same time that it decided against passive remedies.

11 Mr. Beal referred to paragraph 8.9 of the statement where Ofcom noted that:

12 “Overall, the imposition of passive remedies would be likely to require significant
13 regulatory changes and intervention, and we would therefore need clear evidence to
14 justify such an approach. Having carefully considered the evidence before us, it is not
15 clear at present that imposing passive remedies would lead to better market outcomes
16 in the round than the package of remedies we have decided to impose. We have
17 therefore decided not to impose passive remedies”.

18 Now this, as we understood it, was basically the core of the new ground 2, which I will
19 come to. He said that this put the onus on those favouring passive remedies to make out
20 their case. Now, all that Ofcom is saying here is that before making big changes to the
21 regulatory framework applicable to a large and established industry, it would need to be
22 clear that the changes were for the better. And this was the appropriate course, we say.
23 There was no error in that direction. What the passage of the statement also makes clear is
24 that Ofcom did carefully consider the evidence as to benefits and detriments of passive
25 remedies. On balance, however, Ofcom was not persuaded that they would lead to better
26 market outcomes, that balancing exercise under Ground 3, that is really the subject of
27 ground 3.

28 Mr. Beal then took the Tribunal to paragraphs 8.43 to 8.50 of the statement which begin in
29 p.649. He described these paragraphs as, “In a nutshell, why Ofcom took the view that it
30 was not appropriate to allow a passive remedy and an active remedy to co-exist”. We say
31 that this is incorrect. On the contrary, Ofcom states in the second sentence of paragraph 8.43
32 beginning “imposition”.

1 “Imposition of passive remedies may also be inconsistent with the parameters and
2 design of the charge controls we are imposing on BT’s wholesale services, and, if so,
3 we would need to change them”.

4 In other words, passive remedies might well be able to co-exist with active remedies, but
5 the form of the active remedies would need to change. The point is picked up again in
6 para.8.47:

7 “Overall, therefore, if passive remedies were introduced, a period of transition is
8 likely to follow in which active remedies are restructured, which may lead in the
9 medium to long term to the withdrawal of some or all of the active remedies”.

10 So Ofcom was not here stating any kind of conclusion that passive and active remedies
11 cannot be combined; nor was it stating any settled conclusion about passive remedies. It
12 was pointing out the complexities of managing the transition and saying that clear evidence
13 would be needed of a better overall outcome to justify the change. The substantive
14 assessment is then contained in the next part of section 8 which you see on the other side of
15 the page, beginning on p.651 whether competition based on passive remedies would be
16 more effective. The reasoning which Mr. Beal did not take you to in opening the case,
17 Ofcom’s reasoning in that part, is the subject of ground 3 so I will leave that for now.
18 For the purposes of ground 1 it is simply enough to note that Ofcom did undertake that
19 assessment, there was no *fait accompli*.

20 Mr. Beal’s final point in opening on ground 1 was to suggest that a *fait accompli* could
21 nonetheless be inferred from the absence in the decision of any detailed consideration of
22 how a passive remedy could have been made to work alongside an active remedy, and in his
23 closing submissions this grew into a claim that Ofcom had failed to take account of the
24 relevant consideration, namely, whether passive and active remedies could be made to work
25 together.

26 Now, we say that there is no missing step in Ofcom’s reasoning. Ofcom considered that
27 passive remedies were likely to involve flat rate pricing (I have shown you that passage in
28 the statement) and that this would be inconsistent with an important feature of the existing
29 active downstream remedies, namely BT’s pricing flexibility which Ofcom regarded as
30 likely to result in more efficient pricing and cost recovery. Ofcom had specifically consulted
31 on this issue, and its conclusion was consistent with the responses it received. The Tribunal
32 will recall Colt’s consultation response, “cherry picking will happen anyway”, and the
33 various CPs who saw passive remedies precisely as a way of escaping BT’s differentiated
34 common cost recovery assuming a flat rate upstream price.

1 On the basis of what Ofcom was being told at the time, there was no clever way in which
2 passive and active remedies could be combined to avoid the tension that it had identified.
3 Ofcom nonetheless went on to consider whether passive remedies offered benefits sufficient
4 to justify removing this feature or allowing the disruption of this feature of the existing
5 active price control. Ofcom decided that passive remedies did not offer sufficient benefits.
6 So the chain of reasoning did not involve taking anything for granted. It was a sufficient
7 basis for Ofcom's decision to keep active remedies in their existing form and to reject
8 passive remedies.

9 In closing, Mr. Beal placed reliance on other materials from the consultation, and I covered
10 these largely in opening. The main basis for the claim that Ofcom had closed its mind
11 between the call for inputs and the consultation document appeared to be a meeting note
12 between Ofcom and a mobile network operator. I dealt with this in opening. The Ofcom
13 official concerned stated in terms that his views, the views he was stating were subject to
14 consultation. It was also suggested that Ofcom had not put to the mobile operator in
15 question Ofcom's concerns, the concerns that been expressed to Ofcom by BT. Now, there
16 is no obligation, to be clear, as a matter of consultation, to put views expressed by one
17 consultee to another consultee, otherwise consultation would be utterly impossible. But in
18 any event, in this case this was all before the consultation document in which Ofcom did set
19 out its views. And to cap it all, if one reads the note, one finds on p.3 that Ofcom did
20 explain the pricing concerns in a passage that Mr. Beal did not take you to. So we say there
21 is absolutely nothing that can be derived from that meeting note.

22 Mr. Beal also relied on the evidence of Mr. Culham, in which he expressed the view that the
23 issue of leased-lines was too broad to tackle within a single market review, and
24 Dr. Maldoom expressed a similar view.

25 The evidence as to the scale of the change that Colt is asking the Tribunal to entertain is
26 certainly very striking. It does not, however, provide any support for Colt's contention that
27 Ofcom had already firmly decided by the time of the consultation document against
28 introducing passive remedies. That allegation is simply incorrect. There is not a shred of
29 evidence to support it. Ofcom consulted sincerely and with an open mind. It stated its own
30 provisional conclusions, that it was open to what operators had to tell it, and if Ofcom had
31 reached a different view on the balancing of benefits and detriments Ofcom would simply
32 not have made a negative decision.

33 Mr. Beal also argued that Ofcom's consultation was insufficiently transparent, but this was
34 done by reference to the call for inputs and there was then a very well-reasoned consultation

1 document. So, in our submission there is no more merit in Colt's new ground than there was
2 in the pleaded version and it should therefore be dismissed.

3 We now turn to ground 2, and I can be very brief about this. If we could now go back to
4 Colt's notice of appeal, core bundle 1, tab.4 p.4. You see that the allegation that is
5 encapsulated in ground 2 is that:

6 "Ofcom erred, as a matter of law and/or assessment in not proceeding from the
7 starting point that it should regulate as far upstream as possible".

8 So the case was there put on the basis of a positive presumption to which Ofcom was
9 subject, a presumption to regulate as far upstream as possible. As we understood Mr. Beal's
10 submissions in opening, this ground has effectively been conceded. He said that the proper
11 analysis of the framework and structure governing passive remedies in principle gives you,
12 if not a positive presumption that a passive remedy should be allowed, at the very least not
13 the obverse. He is now putting his case, not in support of a presumption but against a
14 contrary presumption.

15 Ofcom's position is that it correctly applied its statutory duties in assessing whether to
16 introduce passive remedies.

17 The material cited by Mr. Beal, you will recall the various NGA documents, the BEREK
18 reports, and Ofcom's previous statements, those are all qualified, they support infrastructure
19 access where the entry in competition that results are efficient and sustainable. So they are
20 subject to those caveats. The devil is always in the detail. This is the Adam Smith point.

21 Ofcom concluded in the present case that passive remedies risked promoting inefficient
22 entry. Dr. Lilico for his part clearly accepted that the correct approach is to proceed on a
23 case-by-case basis considering the specific facts and circumstances as one finds them in his
24 oral evidence, that was clearly his position. Ofcom, for its part, rightly asked itself whether
25 there was clear evidence to justify change to the existing regulatory framework, which
26 involves billions of pounds of business annually. Ofcom was not starting from a clean slate
27 and it would have been wrong for it to pretend that it was. It needed to be careful.

28 The passage which I showed you before, which is now the focus for the allegation that there
29 was a contrary presumption raised against those that favoured passive remedies – I will not
30 say Colt because that was not strongly Colt's position during the consultation process – the
31 need for evidence was entirely legitimate, and it was considered. So no error has been
32 shown, we say, and the second ground should therefore be dismissed.

1 Colt's third ground of appeal concerns the balancing exercise, and it is here that the
2 substance of the case is really to be found. If you could turn back to Colt's notice of appeal
3 at tab 4, this ground is summarised at para. 1.4 as follows:

4 “(c) Ofcom is wrong, as a matter of assessment to believe that active remedies are
5 likely to promote innovation and competition at least as effectively as passive
6 remedies.”

7 Put in this way we say that the ground fails from the outset simply because Ofcom never did
8 find that active remedies are likely to promote innovation and competition at least as
9 effectively as passive remedies. Its finding in the statement, to which Ms Potter rightly drew
10 my attention was that active remedies could achieve similar outcomes, and I propose in one
11 moment, if I may, to address you as to how Ofcom reached that conclusion. It was by
12 reference to a careful consideration of the evidence I will submit.

13 The final sentence of (c) does make clear, in fairness, this ground also covers the detriments
14 identified by Ofcom, which are said to be without justification. Although, it would be fair to
15 say that the case in the notice of appeal on those detriments is extremely limited and, as Dr.
16 Lilico accepted, really misses the point on the key issue of inefficient entry.

17 Ofcom submits that there was no error in its assessment of the balance of benefits and
18 detriments.

19 Let me, at the risk of a slight detour, begin my discussion of Ground 3 by recapping why
20 Ofcom rejected passive remedies on balance, providing now relevant references to the
21 expert testimony which, we say, fully supports that case.

22 The first stage in Ofcom's reasoning was its finding that uniform pricing may be
23 impracticable by reference to use because of the difficulties of monitoring and constraining
24 the uses to which duct and fibre are put once access is given. The reference for your note is
25 the BCMR statement para. 8.82, a paragraph with which, I am sure, the Tribunal is already
26 well familiar. This is a conclusion that Ofcom was entitled to reach on the evidence. It was
27 consistent with what Ofcom was being told during the consultation process. Ofcom's
28 conclusion about the impracticability of limiting use was set out at para. 8.91 of the
29 consultation document and it was not contradicted by anyone. Colt consultation response
30 tended to confirm it. Other operators implicitly or explicitly proceeded on the basis that
31 there would be a flat rate charge set at the passive level allowing them to escape the
32 bandwidth gradient.

1 The evidence of Colt's expert, Dr. Lilico was that it was appropriate to start from the
2 suspicion that passive access would be at flat rates, subject to his proposed work-arounds.
3 The reference for your note is day two, p.26, lines 3 to 6 and 18.

4 It is notable that Colt has not suggested in evidence that the passive remedies in other
5 European States are on any basis other than a flat rate. On the contrary, Mr. Fournier's
6 evidence assumes uniform rate access in his city case study, which is benchmarked by
7 reference to rates in other European countries.

8 The new proposals for working around the bandwidth gradient have been devised by Colt's
9 economic experts in evidence in reply, so the very last stage of the appeal process with one
10 exception which I should perhaps briefly deal with. The full function entrant proposal,
11 which Dr. Lilico rightly pointed out in cross-examination had been briefly mentioned in
12 consultation by Fujitsu and, sir, you rightly observed that this is referred to at para. 8.112 of
13 the statement.

14 Dr. Lilico suggested that Fujitsu had suggested that differentiated pricing of passive
15 products was possible. With respect, it did not do this, but it did mention the possibility of
16 full function entry, we accept that. This was the only one of the work arounds which
17 received any mention. The suggestion was very briefly flagged and was not developed or
18 explained in any detail and, as Dr. Lilico himself noted, the proposal is perhaps more
19 speculative.

20 Dr. Lilico otherwise accepted that the work arounds were all of his own devising and were
21 not based on any technical expertise or industry experience of negotiating contracts. (Day
22 two, p.38 lines 20 to 28).

23 In Ofcom's submission it cannot be faulted for not having considered them at the
24 consultation stage, and the Tribunal should approach them with scepticism given that no
25 one in the industry has actually put them forward as workable. In any event, none of them
26 provides a satisfactory solution for reasons which I shall return to when addressing Mr.
27 Beal's case.

28 The second stage of Ofcom's reasoning was its conclusion that if uniform pricing is
29 introduced at the passive level this would not be consistent with the current downstream
30 price differential so this is beginning with the conclusion that you cannot have uniform
31 pricing because of the difficulty of monitoring usage and preventing people using for one
32 purpose and not another.

33 MS POTTER: But you have to have rather than you cannot have uniform pricing?

34 MR. HOLMES: I am so sorry, did I say ----

1 MS POTTER: Yes.

2 MR. HOLMES: Forgive me, madam, I am grateful, yes, that is quite correct, you have to have
3 uniform pricing. The reason why is, as I have said, you cannot monitor to see what
4 someone is using it for, so you cannot sell at one price for one use and another price for
5 another use.

6 The second stage is to say, based on that conclusion, this would not be consistent with the
7 current downstream price differentials. The differentials in the active access products.

8 Again, this is not in dispute. There is no doubt that Ofcom's economic reasoning was sound
9 on that. Dr. Lilico accepted that, assuming uniform prices at the passive level, the result
10 would be to disrupt downstream price differentiation (day two, p.29, line 12). He also said
11 that the bandwidth gradient would be difficult to sustain if you have large amounts of
12 passive entry. (Day two, p.29, line 15). The inconsistency would lead to several adverse
13 consequences as Ofcom set out in both the consultation document and the statement. For so
14 long as BT tries to continue with differentiated pricing some inefficient entry may occur.
15 Dr. Lilico accepted that this was the case. (Day two, p.30, lines 23 to 26). Sooner or later,
16 however, price differences would be eroded, leading to downstream tariff rebalancing. In
17 order to need the entry BT would have to change its downstream active prices for the
18 products relied on by the £2 billion worth of business already in the market.

19 Again, this was accepted by Colt's expert, Dr. Lilico. If what is happening is that you are
20 tending to undermine the higher bandwidth common costs recovery, then for a given total
21 costs recovery BT will have to raise its prices on the lower bandwidth products. So you tend
22 to get some evening out, and if you have enough passive access you would eliminate the
23 bandwidth gradient altogether - day 2, p.31, lines 9-15.

24 This would in turn disrupt a pattern of common costs recovery of the downstream level that
25 Ofcom regarded as likely to be more efficient - key findings in sections 18 and 20 of the
26 statement. As to this, Dr. Lilico again accepted, day 2, p.21, that price discrimination can be
27 socially optimal and in many markets is so.

28 The potential price increases for users would be focused on those that make the lower
29 contribution to common costs, and the result, Ofcom found, would be higher prices for
30 entry level low bandwidth products, such as those used by smaller SMEs. It would also lead
31 to a geographical de-averaging of tariffs with prices varying across the country. In
32 considering this potential consequence, Ofcom was mindful of its statutory duties, and I
33 would refer you to s.3(2)(e) of the Communications Act, s.3(4)(e) of the Communications
34 Act, and s.3(4)(l) of the Communications Act.

1 This in turn reflects the duty recognised in the Article of the Framework Directive on which
2 Mr. Beal placed some emphasis, Article 8.5., for Ofcom to take account of the variety of
3 conditions relating to competition and consumers that exist in the various geographic areas
4 within a Member State.

5 For his part, Dr. Lilico accepted that such geographical de-averaging of prices was to be
6 expected (day 2, p.32, lines 12 to 30, p.38, lines 1 to 7, and during re-examination, p.44,
7 lines 19 to 21).

8 Mr. Culham's evidence was that Ofcom generally regarded geographic averaging as a
9 positive thing. Mr. Beal referred you to a passage from the cross-examination of
10 Mr. Culham which he said counted in support of his case on geography. Mr. Culham was
11 asked:

12 "Moving on to geographical issues, did you look at whether geographically de-
13 averaged pricing would be possible?"

14 And the answer was, yes, Ofcom's concern was geographical de-averaged pricing, it is no
15 answer to Ofcom's response to say that Ofcom accepts that geographical de-averaging
16 would take place. It thinks geographical averaging is a good thing.

17 He then goes on to say, confirming the point I have just made, that it would be something
18 that one would regard as an adverse consequence of the introduction of passive access, but
19 one might live with that nonetheless if the passive access turned out to be, or were identified
20 as being, sufficiently large. The reference for your note is in the in camera portion of
21 yesterday's proceedings, p.33, lines 15 to 18.

22 In summary, Ofcom concluded that there were a number of potential downsides of
23 introducing passive remedies.

24 The third stage of Ofcom's reasoning was to consider whether the potential downsides of
25 introducing passive remedies might be outbalanced by potential benefits of doing so. It
26 accepted that passive remedies could provide more scope for product innovation and service
27 differentiation in some cases. Its analysis is worth examining in more detail than has so far
28 been done. I would like to take the Tribunal briefly through the relevant passages of the
29 consultation document and the statement, and in the process I hope address your question
30 from day 1, Ms Potter.

31 In assessing what weight to assign to these countervailing considerations, we say that
32 Ofcom looked carefully at the uses to which it was told during the consultation that passive
33 remedies might actually be put. There was a considerable focus on the potential use of
34 passive remedies in relation to mobile backhaul, but not much else of any specificity. You

1 will recall that Colt did not bring forward the level of detail that it has during the course of
2 this appeal. Ofcom therefore considered mobile backhaul in some detail to see whether it
3 showed a sufficiently pressing need for passive remedies to outweigh the downsides that it
4 had identified. Ofcom's careful and detailed analysis emerges clearly from a consideration
5 of the consultation document from June 2012, which is in core bundle 2, tab 3, and I would
6 ask you now to open that, please. The passage begins on p.424, which is somewhat counter-
7 intuitively after p.425 at the front of the tab.

8 Firstly, and we need not review them now, you will see at the top of the page, from 8.61 to
9 8.63, a summary of Ofcom's concerns about the negative consequences that flow from
10 passive access. The Tribunal has my point that these were clearly the subject of
11 consultation.

12 At para.8.65, Ofcom explains that it is turning:

13 "... to consider whether competition based on passive remedies is likely to lead
14 to better outcomes for consumers than the current remedies, with reference to
15 specific issues raised by stakeholders."

16 In what follows Ofcom looks at the particular applications or uses that have been identified
17 by respondents to the call for inputs, and the Tribunal will recall that Ofcom specifically
18 sought views on the benefits of passive remedies and the role that they could play in the
19 market. So Ofcom first turns to consider backhaul for mobile network operators' radio base
20 stations, in relation to which there was some clamour. This is indicated in the heading above
21 para.8.66, and at 8.66 Ofcom notes that:

22 "An important specific issue raised by stakeholders is MNOs' need to support
23 cost-effectively the increasing bandwidth demands of users of mobile data
24 services."

25 It notes that Ethernet-based backhaul connections for this purpose are likely to be needed in
26 each of several thousand radio base stations.

27 Ofcom then turns to consider how far the existing market arrangements are faring in terms
28 of delivering solutions for MNOs. The focus is upon whether there are serious shortcomings
29 in the current arrangements available under active remedies.

30 At para.8.67 and 68 it notes that fibre is not required everywhere. There are some
31 alternatives. There is copper which tends not to be great because it does not carry the
32 capacities, there is also microwave which where line of sight constraints are not an issue
33 will serve and where there are not planning problems.

1 Then at 8.69, Ofcom explains that in late 2008 BT wholesale launched a managed service
2 for RBS backhaul known as Managed Ethernet Access Service ('MEAS'), and it notes that
3 12,000 RBS sites have already been reached (that is radio base stations).

4 At para.8.70 Ofcom also notes that there is evidence of recent competitive entry in mobile
5 backhaul. Virgin has come into the market and is providing mobile backhaul to a
6 confidential number of RBS sites for a particular joint venture. It is not confidential, that is
7 MBNL.

8 Then in 8.71 there is evidence of further competition from another fixed line operator
9 delivering Ethernet connectivity to further RBS sites for another MNO.

10 The evidence, therefore, suggested to Ofcom that in terms of service delivery the market
11 was getting Ethernet to RBS sites. The Tribunal will recall that these are effectively pipes
12 and they are being delivered.

13 At para.8.72 Ofcom sets out the consultation, its provisional view on the basis of the
14 evidence that the scale and pace of deployment of BT's MEAS, together with the early
15 evidence of entry by competing providers, such as Virgin Media, suggests that the industry
16 is currently likely to deliver fibre based services to the RBS sites where MNOs require them
17 within a reasonable time. Then, by way of caveat, it noted that the competing providers only
18 operated in parts of the UK, and that therefore BT's competitors are likely to depend on
19 Openreach's provision of wholesale Ethernet access service to a significant proportion of
20 sites.

21 So that was availability of service at RBS sites.

22 Ofcom then turned to consider the service quality provided by BT at 8.73. Ofcom notes
23 various issues raised by MNOs at (a), (b) and (c) of that paragraph, namely delays in
24 commissioning service to be some RBS sites, slow pace of development of solutions to
25 certain technical constraints, and charges for increments in bandwidth that appear to be
26 significantly higher than the corresponding increments in costs. The last point is, of course,
27 the bandwidth gradient.

28 8.74 then discusses the first point, namely MEAS commissioning delays. Ofcom noted in
29 that paragraph, the final sentence:

30 "MNOs and BT told us that these difficulties have now been largely resolved.
31 BT Wholesale published data in a recent analyst briefing which appears to
32 confirm this ..."

33 and the reference is given at the bottom of page.

1 At 8.75, Ofcom records its provisional view that the resolution of the difficulties in
2 deploying MEAS:

3 “... suggests that BT currently has significant incentives to deliver this service
4 successfully. We do not consider at present that BT’s operational performance
5 in delivering MEAS is by itself evidence either of failure of the current
6 remedies or of failure in a market downstream of those remedies. For example,
7 it is not clear that greater competition in the provision of managed services for
8 RBS backhaul would have provided more effective incentives to resolve the
9 difficulties than any appropriate contractual provisions between the parties.”

10 Ofcom then turned to the pace of technical development at 8.76, issue (b) at 8.73:

11 “Some MNOs are concerned about the pace of technical development, which, in
12 their view, is too slow. They point to the time taken by Openreach to provide
13 support for technical standards which could allow more cost-effective
14 synchronisation of RBS sites.”

15 At 8.77 Ofcom notes that Openreach was then preparing to introduce a variant of its EAD
16 product. We know that that has subsequently been subject to further difficulties.

17 At 8.78 one then has bandwidth limitations on MEAS, and at the end of the paragraph, the
18 final sentence at p.426 carrying over to 4.27:

19 “Whilst we understand MNOs’ reservations about the pace of BT’s product
20 evolution towards a more fit-for-purpose solution, we also understand that the
21 technical solution which Virgin Media intends to deploy is expected to address
22 these technical issues and to provide other technical advantages over the MEAS
23 solution.”

24 Pausing there, this infrastructure-based competition of the kind I described in my first
25 opening remark was obviously significant because it provided some competitive spur to BT
26 to innovate its product, and although the infrastructure competition only covers a part of the
27 UK that competitive pressure to innovate would benefit all purchasers of BT services.

28 Then at para.8.79 Ofcom sets out in the consultation, its views on the issues identified by
29 MNOs with BT:

30 “We recognise that it is important that the industry resolves as rapidly as is
31 reasonably possible the technical issues raised by MNOs to enable delivery of
32 appropriate quality of service to consumers cost-effectively. However, from the
33 evidence available to us, it is not clear that the industry is currently failing to do
34 so. We note that BT Wholesale appears to have been first in deploying fibre-

1 based Ethernet backhaul to RBS sites on a large scale in the UK, and, despite
2 some early issues, appears to have deployed solutions using modern technical
3 standards while developing new features and enhancements. Meanwhile, Virgin
4 Media's recent announced entry suggests that it intends to deploy solutions
5 which meet substantially similar requirements."

6 The following paragraphs discuss the bandwidth gradient issue, and you have been taken to
7 some of them already by me. At para.8.85, we have a more general provisional conclusion
8 about mobile backhaul:

9 "In summary, we consider at present that the benefits hat imposition of passive
10 remedies in business connectivity markets may bring to meeting the need for
11 more bandwidth in backhaul to RBS sites are likely to be limited because:
12 (a) The extension and speed of BT's deployment of fibre-based Ethernet
13 backhaul is already significant, together with early signs of developing
14 competition, suggests that the industry is currently likely to deliver fibre-based
15 services to the RBS sites where MNOs require them within a reasonable time.
16 (b) BT has deployed its 21CN infrastructure in the last years, apparently using
17 modern and efficient technologies, to position itself to deliver high-bandwidth
18 Ethernet services cost-effectively. BT Wholesale has a leading position in
19 deploying fibre-based Ethernet backhaul services to RBS sites on a large scale
20 in the UK, and appears to be developing enhancements to improve the
21 efficiency of those services. Meanwhile, Virgin Media's recent announced entry
22 suggests that it intends to deploy a solution which is technically more efficient
23 than BT Wholesale's current services. This suggests that there is some
24 competitive dynamic in the provision of managed services for RBS backhaul
25 [the point I was making about infrastructure competition] and that the industry
26 is addressing key technical developments that could enable delivery of
27 appropriate quality of service to consumers cost-effectively.

28 And then, lastly, (c):

29 "MNOs' broader concern that their future backhaul costs could escalate unduly
30 may be addressed over the next few years by a combination of technical
31 development which should enable the effective bandwidth delivered by BT's
32 MEAS product through Openreach's 1Gbit/s Ethernet access tails to increase
33 substantially, and by the operation of any price controls agreed in relation to
34 leased-lines following conclusion of this review".

1 It is worth noting in relation to (c) that costs have been falling in relation to bandwidth. So
2 while there is a bandwidth gradient, I would not want the Tribunal to come away with the
3 impression that high bandwidth products have remained stubbornly high in their price.
4 Prices are coming down. You may have seen in one of the documents to which Mr. Beal
5 took you, a reference to “a deflationary market”. The point that was being made there is that
6 the costs of bandwidth are reducing, and we will see that that was one of the conclusions
7 that Ofcom made in the statement.

8 So Ofcom then turned to consider two other specific uses for passive access that have been
9 raised by industry parties, but neither of these really involved any suggestion of innovation
10 attaching to leased lines. The first was about incentives to invest in PIA, and the other was a
11 case for either specific niche applications, not identified, or in the case of general backhaul
12 greater competition.

13 On the former, Ofcom asked for further evidence, that is to say the case of PIA and
14 investment in NGA, further evidence as to unlocking of investment, and on the latter, that is
15 to say the issue of general backhaul, Ofcom was not satisfied that similar benefits in terms
16 of competition could be achieved by price controlling an active product for Sky and others
17 to use.

18 So, standing back, what we say that the condoc clearly shows is that Ofcom looked at what
19 stakeholders said passive remedies might be used for, an issue canvassed in the call for
20 inputs, Ofcom considered the evidence it got back. It carefully analysed whether there were
21 any specific innovations being proposed and it considered more generally how competition
22 and innovation were progressing in the key use which had been identified by a number of
23 stakeholders, namely mobile backhaul. And it concluded on the basis of the evidence that
24 BT and the competing infrastructure providers were already meeting demand and were
25 innovating; and on that basis Ofcom concluded, paragraph 8.94 at the first bullet point:

26 “While we recognise that it is possible that passive remedies could improve the
27 prospects for competition generally, our analysis of the cases put forward by
28 stakeholders suggests that the potential benefits that could flow from doing so could to
29 a large extent be achieved by imposing alternative remedies such as price controls on
30 BT’s provision of active wholesale access services”.

31 The Tribunal will notice that this is the analogous terminology to that in relation to which
32 Ms Potter raised a question with me on the first day. So, we say that it is this analysis in the
33 condoc which is then taken forward in the statement, as I will show you in a moment, which
34 served as the basis for Ofcom’s conclusion that the current active access products provided

1 for these pipes were largely or were capable of delivering largely the benefits that might
2 result from passive products.

3 So let me turn now to section 8 of the statement, to show you how these ideas were
4 developed there. The passage begins at 8.95 of the document. Ofcom again started with
5 mobile backhaul as the main potential use that had been flagged to it in consultation. And at
6 paragraph 8.95, it recognised the MNOS' need for increasing amounts of bandwidth, and in
7 the second sentence it confirmed its view from the consultation that the scale and pace of
8 deployment of BT's Ethernet mobile backhaul solution MEAS together with evidence of
9 entry by competing providers such as Virgin and Cable & Wireless suggested that the
10 industry is currently likely to deliver fibre-based services to the sites where MNOs require
11 them and within a reasonable time.

12 So, service provision. At 8.96-99 it updates the evidence set out in the condoc, noting in
13 particular the acquisition of a fixed CP by a MNO in order to provision its mobile backhaul.
14 In fact it is not confidential. The acquisition of Cable & Wireless by Vodafone.

15 Then at 8.100 Ofcom states the view in the first sentence that there are encouraging signs
16 that competition in providing MNOs with mobile backhaul solutions is developing, and then
17 the same caveat as before. Of course infrastructure competition is not everywhere, and in
18 some places BT is the only show in town.

19 Then Ofcom proceeded slightly differently in the statement from the condoc in that it broke
20 innovation out and considered it separately across products generally. At 8.101 Ofcom
21 acknowledged that access to passive inputs could provide scope for innovation and
22 competition at the active layer and that passive remedies would allow them to differentiate
23 in their product offerings, would allow CPs to differentiate in their product offerings.

24 In paragraph 8.103 Ofcom recorded its conclusion based on its discussion with industry:

25 “... that the market has kept pace with significant technical developments such as
26 PDH, SDH, Ethernet and WDM, increasing bandwidth capabilities and reducing costs
27 per unit of bandwidth”.

28 That is the deflationary market point.

29 Now, a paragraph like that can be deceptively concise. This is a 1500 page document
30 already, and Ofcom tried to avoid prolix in this document. It was stating a conclusion here
31 that was based on many hours of meetings with industry parties that detailed understanding
32 of the technically available solutions in the market place. This is what Ofcom does, that is
33 what the meetings are about, what the working groups are about; they are about
34 understanding the industry. And so behind that paragraph, in my submission, there is

1 considerable knowledge and sectoral expertise of which due account should be taken, and
2 its brevity should not be taken against Ofcom.

3 From the latter point, sorry, let me move on, actually. Moreover, it is a market in which new
4 technologies are being rolled out. Ofcom's conclusion in 8.103 matches with what Colt was
5 telling Ofcom during the consultation process. I have already referred you to that, "world
6 class business connectivity options" which was at p.17 of Colt's consultation response.
7 Ofcom also specifically considered the scope for service differentiation based on the
8 evidence that had been provided to it during the consultation. At paragraph 8.104, it
9 recorded as follows:

10 "We recognise that access to the passive infrastructure could, in some cases, give a CP
11 an advantage through more control over the characteristics of the end to end service it
12 offers".

13 Now this is the point that Colt has brought to the table at the appeal stage, the SLAs. This is
14 Ofcom's view on the basis of the evidence that was before it at the time of the statement:

15 "However, the evidence we have seen about the impact of such control in the case of
16 leased lines is not conclusive. The difference in performance attributes between the
17 UK and countries where passive remedies are available, as shown in the diagrams
18 provided by Vodafone, could be due to a number of variables apart from the
19 availability of passive remedies, such as the planning of the radio network, the
20 penetration of mobile broadband use, or the choice of the mobile device used for the
21 measurements, among others".

22 It then proceeds to acknowledge, in 8.105, concerns about Sync-e and it notes that this is
23 subject to another part of the statement. There were specific proposals made in relation to
24 statement of requirements, the ability whereby operators can request new products from BT
25 at Openreach. So that was section 12. And then "overall" the conclusion at 8.106:

26 "Overall it is not clear that imposing passive remedies would lead to better market
27 outcomes in the round than the package of remedies we have decided to impose in this
28 review. We recognise that passive remedies could bring some benefits in the leased
29 lines markets. In particular, imposing passive remedies could:

30 stimulate competition in a greater part of the value chain in regions where full
31 infrastructure competition is unlikely to emerge by lowering barriers to entry;
32 and provide more scope for product innovation and service differentiation in
33 some cases".

34 But Ofcom then went on to say:

1 “We consider, however, that the package of remedies which we have decided to
2 impose could achieve similar outcomes”.

3 And this was the point about which you asked, Ms Potter, and the answer is, in our
4 submission, that Ofcom looked closely at what markets were currently doing in relation to
5 those specific applications which were being cited to it in the consultation process, and its
6 conclusion is based on its careful examination of that evidence. And we submit that no error
7 has been shown in its assessment. Then Ofcom sets out its concerns.

8 THE CHAIRMAN: Mr. Holmes, sorry.

9 MR. HOLMES: Apologies.

10 THE CHAIRMAN: Just go back to 8.104 for a minute.

11 MR. HOLMES: Yes, sir.

12 THE CHAIRMAN: Are we to read this as a recognition that there is the possibility of greater
13 differentiation and better individual service. So the point that you cannot break free from
14 the BT restrictions, Ofcom do accept that, and they then weigh that against other factors. Is
15 that right? Because where they go on to say the evidence is not conclusive, that is based on
16 a sort of regression analysis of what other conditions might be present in other European
17 countries. The actual finding on whether you can differentiate more if you have passive
18 remedies, they agree but they do not give as much weight in the balance as Colt does.

19 MR. HOLMES: Yes, sir. That is fair, and I think it connects with the way with which the point is
20 put in 8.106. You are quite right to draw it to my attention because there was —

21 THE CHAIRMAN: The second bullet, yes.

22 MR. HOLMES: Exactly, sir.

23 THE CHAIRMAN: It is important because we have had quite a lot of evidence about that.

24 MR. HOLMES: Yes, sir, indeed.

25 THE CHAIRMAN: Sorry, please go on.

26 MR. HOLMES: Thank you, sir. So you have my submission on this. Having looked closely at
27 what was happening on the ground, and having liaised extensively with the industry, Ofcom
28 concluded that no sufficiently clear advantage in terms of outputs generally would
29 necessarily be achieved by the existing model of regulation so as to justify addressing the
30 substantial risks that Ofcom had identified. Now, Ofcom did not have before it the evidence
31 to which you refer, sir, that Colt now deploys in appeal and assisted by the interveners in its
32 support, about the uses to which passive remedies might be put. This was not because the
33 point was not fairly raised with Colt in the consultation document. Colt was invited to
34 comment on all aspects of Ofcom’s analysis, and Ofcom’s focus on the potential benefits

1 and detriments, including as regards innovation, it is clear from that document. In any event,
2 in Ofcom's submission the evidence does not provide a sufficient basis to overturn Ofcom's
3 conclusions. It shows the great difficulty, with respect, of attempting to deal with these
4 issues within the compressed and limited prism of an appeal process rather than a full
5 consultation with all parties bringing forward evidence for consideration at the consultation
6 stage.

7 The table relied on by Colt turned out to be aggregated across the EU and shed no particular
8 light on the constraints imposed by off-net supplies in the UK. Further, the scope ----

9 MR. BEAL: I am very sorry to interrupt. I am just slightly concerned, I am getting some jittering
10 behind me, as to which aspects of this may be confidential to Colt.

11 MR. PIKE: (No microphone): Just generally, this section we are using as the confidential version.
12 It does not show what is confidential and what is not. We think the reference to Vodafone
13 might have been confidential, I am not sure, but this is certainly confidential material.

14 MR. HOLMES: I am very grateful for that and I shall proceed ----

15 THE CHAIRMAN: I am sorry, Mr. Pike, do you mean Vodafone taking over the mobile
16 operations of CWW?

17 MR. PIKE: No, the reference made in para. 8.104 to ... Vodafone.

18 THE CHAIRMAN: I am reading from a non-confidential version and that name does appear. I am
19 on less sure ground when we get on to [X], I have to say.

20 MR. HOLMES: I am grateful. I need not, I think, take this submission very much further. In any
21 event Ofcom considered the evidence that was before it and I think it may be more
22 appropriate to leave it to the commercial parties to make submissions on this point as they
23 see fit.

24 On balance, Ofcom's conclusion was against introducing passive remedies. Ofcom submits
25 that no error has been shown in that conclusion. Let me now deal with Mr. Beal's
26 submissions.

27 I am going to take these not in the order in which he made them in his closing today, but the
28 order in which he made them in opening, but I think I will cover all of the bases
29 nonetheless.

30 THE CHAIRMAN: We are still on Ground 3?

31 MR. HOLMES: We are still on Ground 3, yes. We are very nearly there with Ground 3. Things
32 will, I hope, move rapidly from here.

33 THE CHAIRMAN: I just want to get everything in the right basket.

1 MR. HOLMES: First, the primary answer in opening was FRAND. It was said that this would not
2 disrupt the bandwidth gradient, it would leave the issue of common costs recovery wholly
3 within BT's hands. There are several reasons why FRAND is no answer at all. The first
4 point is that FRAND depends upon the feasibility of monitoring downstream usage. As Dr.
5 Lilico accepted (day two, p.41,line 33) if this cannot be done by BT, differential pricing by
6 reference to the type of downstream usage will not be possible using a FRAND
7 methodology.

8 MS POTTER: Is it fair to say that differential FRAND depends on this?

9 MR. HOLMES: Yes.

10 MS POTTER: A high uniform price would not?

11 MR. HOLMES: Yes, madam. I am grateful for that intervention, but what that, I think, illustrates
12 is the great difficulties into which FRAND would lead us, because the only high price we
13 have is the one that the experts produced as a sort of armchair calculation at the final stage
14 of the appeal process. They say that it may perhaps be too high to support competitive entry
15 so it has not been market tested in the sense of no industry party is actually aligned with it.
16 There is no business plan based on it or anything of that nature.

17 THE CHAIRMAN: They say they were just trying to see if a price was feasible to be derived
18 from the ingredients?

19 MR. HOLMES: Yes, sir. They were seeing if it was a feasible exercise in terms of working out
20 the LRIC component.

21 THE CHAIRMAN: I do not think they would like to be held to the view that it was too high to
22 allow entry.

23 MR. HOLMES: No, sir, but they did fairly say that it may be too high to allow competitive entry
24 and that rather suggests that they ----

25 MR. BEAL: Can I just clarify a factual issue? It was, in fact, our legal team that said that and not
26 the expert themselves.

27 THE CHAIRMAN: Okay.

28 MR. HOLMES: I am grateful to my learned friend. In any event, Colt's team presented that as a
29 view, presumably on instruction. Imagine what would happen if BT set a very high uniform
30 price to CPs. We have seen that one of their main complaints was a lack of cost orientation
31 at BT's existing package of downstream pricing. A high price set at a uniform level,
32 regardless of the product being supplied, here we are taking the bandwidth gradient and
33 using it to worst effect against communications providers, because we are taking the highest
34 level of common costs recovery on any product and applying it to the full range of products

1 that the communications provider would be able to supply downstream. One can imagine
2 where this will end up. It will not end up with agreement. It will end up being brought back
3 before Ofcom through dispute resolution. This is not a belt and braces use of FRAND. It is
4 FRAND as an alternative to a price control.

5 Anyone reviewing the consultation responses would have to conclude that there is a gulf
6 between the position that BT takes on these issues and the position taken by those who
7 perfectly fairly and properly saw a potential commercial advantage in the introduction of
8 passive remedies. So the idea that there would be universal agreement across the industry,
9 regardless of how BT and Colt might be able to marry, the idea that everyone else would
10 reach agreement is, in our submission, fanciful. So this would come back before Ofcom.
11 What would Ofcom then have to do? There are two aspects to this. On the one hand, it has
12 already set out its current thinking on this in the statement, its view about the desirability of
13 downstream price differentiation. It analysed the consequences of that. In setting a FRAND
14 price it would inevitably be driven to adopt a similar analysis considering any other
15 evidence that was provided, but in the context of a four month dispute resolution, without
16 full consultation of the industry.

17 Moreover, what you have been told about geographical de-averaging is that it would be
18 complicated and it would be granular. It would involve different costs in different bits of the
19 country and possibly on different ducts, taking into account the capacity constraints to
20 which Ms Potter fairly referred us.

21 This would be a very complex assessment. BT, anxious to protect its common cost
22 recovery, would, in our submission, have every incentive at the first stage of FRAND, the
23 commercial stage, to be conservative in its pricing in order to ensure that it did not end up
24 with a smaller pot of common costs. That would then come before Ofcom and Ofcom
25 would have to do a margin squeeze analysis in relation to the individual network asset
26 wherever it was being requested across the country. Now, dispute resolution – I think I need
27 not take long to develop this submission – the result would not be an efficient or effective
28 mode of regulation and, in our submission, FRAND is not a regulatory answer. Ofcom
29 assessed these issues and it arrived at an answer. If you asked Ofcom – as no one did – back
30 at the time of consultation “You can just open this up on the basis of FRAND” I think there
31 would have been hollow laughs in view of the concerns and the analysis that they had
32 identified. FRAND would not have provided a solution which would have commended
33 itself to Ofcom then. We say that the same difficulty should weigh in the Tribunal’s mind.

1 Mr. Beal's second point in opening was to suggest that Ofcom could adopt a high price
2 passive remedy, and Ms Potter is right that this could also be done with a FRAND remedy
3 by BT, which was fixed by reference to the highest level of common costs recovered by BT
4 on any product.

5 It is accepted that the notional price that has been determined does not deal with the
6 geographical issues. So, while it has been possible to arrive at a price that deals with the
7 bandwidth gradient, we still do not know, and we have no basis for being sure how feasible
8 it would be to arrive at differentiated prices. There might be the possibility of bands, but a
9 precise calculation would certainly be difficult. But what the geographical aspect would do
10 is push the price up further from the level that is already being considered, because you
11 would not only need to take the highest amount of cost recovery on any of the products, say
12 the highest bandwidth product, you would also need to take that high bandwidth product
13 and ask: where in the country is the highest level of common cost being recovered by BT
14 currently, if you really wanted to exclude any of these issues, if you wanted to protect the
15 current geographical distribution prices.

16 The price would be higher than anything we have here. Colt's legal team stated in the
17 document that the price may already be too high to allow competitive entry. There is no
18 evidence before the Tribunal as to the extent to which a price could be arrived at and would
19 actually be of use to anyone.

20 So we are left under this solution with the suggestion that one should introduce it anyway –
21 just because. We say that is not enough of a basis to impugn Ofcom's careful reasoning. A
22 regulatory solution that has not been shown by any evidence whatsoever to have any real
23 commercial application does not provide a basis, even on a merits review, to justify
24 impugning Ofcom's careful analysis based on the view of how these markets work which
25 was actually contained in the consultation responses which Ofcom received from the
26 industry. Dr. Lilico's contract model depends on monitoring by BT, which is not
27 practicable. For that we refer to the unchallenged evidence of Mr. Lazarus at para. 53 of his
28 statement. Mr. Beal proposed, in cross-examination of Mr. Culham that the problem could
29 be solved by installing smart meters on leased lines. There is no evidence before the
30 Tribunal as to the existence of such a technology, or as to the costs that it would add to the
31 provision of leased lines. I can say on instruction those behind me were not aware of any
32 such technology from their knowledge of the industry. It appears to have been a further
33 elaboration to the case which was already introduced in reply, introduced at the hearing in
34 oral submission by Colt's advocate.

1 Dr. Lilico accepted that the payments under the contract model he was proposing would
2 have to be sufficient, whatever payments occurred in the event of breach, or other sorts of
3 things, loss of reputation – that kind of thing – would have to be adequate to deter it in cases
4 where it was not spotted, that is to say used for some purpose other than that which was
5 intended which, as you will recall, Dr. Lilico considered was his suspicion about what
6 would happen – this is not like a haircut.

7 This proposal is flawed because the law does not provide for punitive damages, or permit
8 contractual penalties that would achieve this objective. There is no evidence before the
9 Tribunal that loss of reputation would have a sufficient deterrent effect. Commercial
10 providers tend to have quite thick skins.

11 In response to a question in re-examination Dr. Lilico mentioned for the first time
12 termination of the contract, full stop, for non-compliance, and withdrawal of some sort of
13 licence. Ofcom has not been able to address these in evidence and there has been no attempt
14 by Colt to explain how this might work legally. Colt would have to explain how the
15 withdrawal of some sort of licence was compatible with the general authorisation regime
16 applicable to telecommunications under the Authorisation Directive, while termination of
17 the contract would give rise to the clear potential for consumer detriment as the passive
18 access seekers' customers got cut off.

19 Further, as pointed out in Mr. Culham's second statement in 8.3 to 8.4, Ofcom has
20 reasonable concerns about requiring BT to share with its competitors – or BT's competitors
21 to share with BT – commercially sensitive information about the number and location of its
22 customers. The restriction on the use to which passive access could be put would be likely
23 to reduce the associated innovation benefits.

24 Another suggestion was that a CP wishing to use a passive remedy could be required in
25 exchange to offer a full suite of the same services as BT.

26 Dr. Lilico accepted that it could well be commercially enormously burdensome. (Day two,
27 p.40, lines 20 to 21).

28 The premise of this proposal is that it will allow uniform rates upstream to be combined
29 with variable rates downstream, but that creates an incentive for the full function company
30 to focus its marketing efforts on supplying the products with the highest margins, i.e. those
31 on which BT recovers more common costs.

32 In a world of business connectivity solutions supplied on a bespoke basis there is simply no
33 way of monitoring or preventing this focus on arbitrage. It is not like a chemist where you

1 can inspect and see what pharmaceutical products are being stocked. The fact that other
2 services are available in principle does not mean that they will be marketed in practice.
3 The proposal also fails to take account of geography as Dr. Lilico accepted in cross-
4 examination.

5 Mr. Beal's third point was to argue that Ofcom should ----

6 THE CHAIRMAN: I wonder, "third point" you have another 15 minutes of time.

7 MR. HOLMES: I will not be more than 15 minutes.

8 THE CHAIRMAN: We may have some questions for you, it is possible.

9 MR. HOLMES: Of course.

10 THE CHAIRMAN: I think we are going to stop here.

11 MR. HOLMES: That is a convenient moment, sir.

12 THE CHAIRMAN: And we will reconvene at 2 o'clock, please.

13 MR. HOLMES: I am grateful.

14 (Adjourned for a short time)

15 THE CHAIRMAN: Mr. Holmes?

16 MR. HOLMES: Sir, before the short adjournment I was coming to Colt's third point in opening,
17 which was an argument that Ofcom should have modified or adjusted the active remedies to
18 accommodate passive remedies. On this we say that Ofcom had good reasons for adopting
19 the active remedies that it did, which are not under challenge in this appeal. No one has
20 suggested in this appeal any way in which the active remedies could be adjusted to avoid
21 the inconsistency with passive remedies without abandoning differentiated common costs
22 recovery. It is, therefore, unclear what further work Mr. Beal thinks Ofcom should have
23 undertaken or what error in Ofcom's analysis is being alleged. If the suggestion is that
24 Ofcom should have removed pricing flexibility upstream, that has not been pleaded, and if it
25 had been pleaded, it would have been a price control matter and sent to the CC. It is plainly
26 not before the Tribunal and in any event the expert witness for Colt, Dr. Lilico, made clear
27 that he was not criticising Ofcom's use of the basket approach. I think, in fairness to
28 Mr. Beal, he made clear in his closing submissions this morning that it was not part of his
29 case to challenge the design of the active remedies in that way. We are not sure what
30 adjustment is therefore proposed at the active level. We have covered, I think, the proposed
31 adjustments at the passive level.

32 Colt's fourth point is to allege that Ofcom has not done sufficient cost benefit analysis.
33 From Dr. Lilico's second report it appeared to Ofcom that the complaint was of a failure to
34 quantify. I am not sure that one needs to turn it up, but in 4.25, but it is tab 9 of the core

1 bundle, p.13. There appeared there a criticism which you will recall from cross-examination
2 I put to him had not appeared in his first report. The criticism that we took him to be making
3 about cost benefit analysis is crystallised in the final sentence at 4.25, where he states an
4 observation that Ofcom has conducted no detailed and systematic cost benefit analysis
5 either. The “either” there is acknowledging that he has not done that exercise:

6 “... e.g. it has offered no quantitative estimate of the social welfare losses it
7 believes would arise from the disruption of the bandwidth gradient, and no
8 estimate of what it agrees are the benefits from passive access.”

9 So it appeared to us on that basis that Ofcom was being criticised for not having quantified
10 sufficiently the costs and the benefits which it was factoring in to its weighing of benefits
11 and detriments.

12 In cross-examination, Dr. Lilico accepted that, “I don’t think you would be able to quantify
13 the gains from innovation with any high degree of precision”. The reference is day 2, p.34,
14 line 31. He accepted that considerations associated with competitive processes and dynamic
15 features are things that would be intrinsically very difficult to quantify. That was day 2,
16 p.36, line 1. His complaint about a lack of quantified cost/benefit analysis collapsed into an
17 unpleaded reasons challenge, as can be seen from the transcript, day 2, p.34, where he made
18 clear that he was not claiming that any practical policy maker always has to have a precise
19 numerical estimate of all of the costs and all the benefits and all the risks around the costs
20 and all the weightings which they want to have, and said, “Instead Ofcom should at least
21 give us some sense of why it thinks that the costs outweigh the benefits or vice versa”, and
22 he suggested that Ofcom has not done this. In Ofcom’s submission this criticism is
23 incorrect. In any event, Mr. Beal has expressly stated on several occasions during the
24 hearing that Colt is not pursuing any reasons challenge.

25 In his closing submissions yesterday, Mr. Beal denied that he was making any claim as to
26 the degree of quantification in which Ofcom ought to have engaged.

27 Mr. Beal in his closing submissions took you [X]'s response to the call for inputs and drew
28 attention to certain passages there identifying work that [X] contended that Ofcom should
29 undertake. I am so sorry, I revealed the name of party whose response was confidential.

30 MR. BEAL: Most of that response is, in fact, open.

31 THE CHAIRMAN: A communications provider.

32 MR. HOLMES: This material, we understood to be deployed to suggest that there was further
33 cost benefit analysis that Ofcom should have undertaken. We say that there is nothing in
34 this point. The response that Mr. Beal showed you was before the consultation

1 documentation in which Ofcom set out its analysis. [X] responded to the consultation
2 document and did not contend that Ofcom should have done further substantial cost benefit
3 analysis.

4 Mr. Beal today claimed that Ofcom did not consider the scale of losses and benefits
5 sufficiently, and this appeared to us to be a return to quantification. Mr. Beal also alleged
6 circularity by reference to Dr. Lilico's statement. As to this, Dr. Lilico accepted that there
7 were costs involved in establishing an intermediate market and that these should be assessed
8 against possible dynamic benefits. It was on the basis of that assessment against possible
9 dynamic benefits that he accepted that there was no complete circularity, there was only
10 what he described as "near circularity". In our submission, Ofcom understood the balancing
11 exercise that Dr. Lilico on several occasions in his evidence accepted was the appropriate
12 one for a regulator in weighing the costs which he expected to arise in relation to an
13 intermediate market against dynamic benefits.

14 A further submission made by Mr. Beal was that disruption may not be a bad thing. It
15 should not be presumed to be a bad thing. As I have just submitted, there is no dispute that
16 the disruption at issue here does carry costs, and that a balancing of costs and benefits is
17 needed in consequence of that to assess those costs against the benefits of dynamic
18 competition.

19 Given the costs here, Ofcom was entitled to ask itself whether any really exciting disruptive
20 effects were on the horizon by reference to information from the industry. My submission
21 today has been that Ofcom did do that, it looked at the areas in which it was proposed to
22 deploy passive access by operators who responded to the consultation, and the balance of
23 evidence did not suggest that these benefits were sufficient to outweigh the costs.

24 Mr. Beal also identified a series of other situations in which he said that the same concerns
25 would arise but do not appear to have weighed against passive access. So he began by
26 saying that Ofcom's concerns had not been a problem in relation to the introduction of local
27 loop unbundling, the LLU remedy.

28 There are several points to make about this. Firstly, as observed in the BCMR statement at
29 8.48 there was in the case of LLU no established industry already in place. This was at an
30 early stage. I think Dr. Maldoom made this point. It was brought in when we were still
31 using dial-up connections to the internet. It was an early stage where you did not have the
32 same risk of disruptive effects downstream on established industry players and the prices
33 that were at that level.

1 Further, if one looks at LLU, the issue of arbitrage does not arise in any event. First of all,
2 as regards geographical arbitrage, the potential for geographical arbitrage, the issue does not
3 arise because in the LLU field there is regulated common pricing across the UK for the
4 LLU product.

5 As regards the scope for product related arbitrage, the bandwidth gradient, the products
6 supplied at the LLU level are comparatively low bandwidth when compared with the
7 products that are required by businesses and which are considered in the context of the
8 leased lines review. So the scope therefore for arbitrage from residential LLU, if you like, to
9 business is limited, and so that issue just does not arise.

10 Mr. Beal then referred to NGA. I covered this at the start of my submissions today. The
11 point is that this was a specific remedy introduced to deal with the problem in the final
12 third, and Ofcom's expectation, which has been borne out by the evidence so far, is that the
13 active product would be used instead.

14 Sir, I should pick up now a point that you raised with me. I promised to get back to you with
15 some references. The references, for your note, are that the situation in relation to NGA was
16 specifically consulted upon in the BCMR consultation document at para.8.60, and the
17 BCMR statement makes the same point at para.8.50. Would it assist if we were to turn them
18 up.

19 THE CHAIRMAN: We thought that is what you might say.

20 MR. HOLMES: The next comparison that was drawn was with WECLA. This is the area in
21 London where there has been substantial infrastructure based competition with the
22 consequence that WECLA has been deregulated. We say that this illustrates a different
23 model of competition from the one that we are considering here. It goes back to my
24 introductory comments. This is for infrastructure-based competition and it has resulted in
25 deregulation, exactly the end goal that Dr. Lilico postulated as the sort of *telos* for
26 regulation, the objective that the regulator should be pursuing, and that Mr. Culham agreed
27 was a desirable outcome, a situation in which the regulator is no longer needed and can bow
28 out.

29 The situation here is different. We have a regulated access product and what is being
30 proposed is another level of regulated access to BT's infrastructure, and that is a different
31 situation from WECLA where you have parallel infrastructure providing full competition on
32 the merits.

33 MS POTTER: Can I just ask since this has come up, I think it is of interest if it is possible to
34 provide the information: I am assuming that the bandwidth gradient issue has effectively

1 fallen away within the WECLA area and that the common cost of recovery in that area as a
2 result of competition has already been disrupted?

3 MR. HOLMES: That is an interesting question, madam, and one I shall certainly check. Is it
4 premised on the notion that a passive access market would have arisen?

5 MS POTTER: I think it is premised on the idea that the sort of issues that were being talked about
6 as a consequence of the introduction of potential competition in high bandwidth products
7 would have occurred in the WECLA area.

8 MR. HOLMES: I shall take instructions, if I may, and get back to you on that. As I understand it,
9 as a matter of principle, and I do not say this on instruction, one can see differentiated cost
10 recovery in a situation where there are several competing vertically integrated providers.
11 (Pause) Madam, I am instructed that there is a bandwidth gradient, and this is on the basis
12 that I was just describing, that where you have vertically integrated operators supplying, in
13 so far as an efficient structure of prices involves a bandwidth gradient, it will be in the
14 interests of those suppliers - you will see a pattern of prices which emerges from the process
15 of competition which involves a differentiation and differentiated common costs recovery --
16 --

17 THE CHAIRMAN: It is the suppliers who do it?

18 MR. HOLMES: Indeed, sir, yes, as BT does it in this case under the discretion allowed to it under
19 the price cap.

20 THE CHAIRMAN: There is no price cap, so there is no discretion allowed.

21 MR. HOLMES: Indeed, sir.

22 THE CHAIRMAN: So we are in a different universe.

23 MR. HOLMES: The same efficient processes which shape BT's prices, that is to say their
24 awareness of demand, leads to the same pattern of differentiated common costs recovery. A
25 problem would only arise if one of them found it efficient to introduce a new product at the
26 passive level, allowing other competing CPs to provide a service downstream using a
27 passive input, but that would give rise to the arbitrage situation which Ofcom was
28 concerned about in this case.

29 MS POTTER: And in a competitive situation you would not be concerned about it, it is only
30 really in the regulated market.

31 MR. HOLMES: Yes, although it is interesting, of course, that the unregulated operators,
32 especially in the light of Dr. Lilico's thought experiment about near circularity, that in a
33 competitive market it appears just on the basis of this exploration of the point. I appreciate it

1 has not been ventilated before, but it appears that there has not emerged that passive level
2 under conditions of competition.

3 THE CHAIRMAN: You are beginning to get to the end of your time.

4 MR. HOLMES: I am so sorry, sir. I am very very nearly there. I am very nearly there. The only
5 other point I think I have to make on ground 3 relates to other jurisdictions. And on this we
6 say simply that Ofcom had to regulate according to the facts it found on the ground in this
7 country, and other jurisdictions are notoriously difficult to draw reliable comparisons by
8 reference to. In particular, the active remedies which play a big role here and that have been
9 very widely used, may not be so well established and bedded down in other countries. So
10 there may not be this issue of disruption to an established model of access regulation that
11 does not exclude, that does not involve someone else buying the kit which fits at either end
12 of the pipe.

13 So, ground 4, this is very brief. I imagine, sir, that I can do it in five minutes with the
14 Tribunal's —

15 THE CHAIRMAN: Indulgence.

16 MR. HOLMES: "Indulgence" is the word I was looking for. Indeed, sir. In the core bundle at
17 tab.4 we see how the point is put in the notice of appeal. The summary is at 1.4. I should
18 say, sir, that Mr. Beard is very kindly indicating that if I do run on slightly, he does not
19 mind it coming out of his turn. I am not sure the Tribunal necessarily wants to curtail him,
20 given they would rather have a change of personnel, but 1.4(d) you see the claim at p.5

21 "Ofcom is wrong as a matter of fact and/or assessment to reject passive remedies on
22 the basis of a supposed lack of demand for them".

23 Now, on this we say in relation to an allegation of error of fact, it matters precisely what
24 fact was found. This is separate from the question of whether Ofcom was right to
25 investigate any particular matter. If you are saying they just got it wrong on the facts, you
26 have to look at what they found. This is neither a semantic nor a sterile point. Ofcom's
27 finding of fact is at paragraph 8.125 of the statement, if I could ask you to turn to tab.8 of
28 the second core bundle, the additional materials bundle, and it is p.662. The relevant
29 paragraph is 8.127, no I am so sorry, I think I was right to begin with. (Yes, I was). Our
30 engagement with the industry, responses to the condocs:

31 "... revealed no evidence that any CP would invest substantially in infrastructure
32 based on passive remedies over the forward looking period of the review if we were to
33 impose them in leased-line markets".

1 So, a simple quantitative enquiry into levels of investment. That is what they were asking.

2 And the claim was that no-one was going to invest substantially.

3 You then see at 8.127, if you have the confidential version, Ofcom's consideration of Colt's
4 investment plans. Sir, do you have that? I think when you reviewed this before you had a
5 redacted copy that —

6 THE CHAIRMAN: Give me the reference.

7 MR. HOLMES: It is 8.127.

8 THE CHAIRMAN: No, I do not. (Document handed)

9 MR. HOLMES: And for your note, sir, the Colt investment is described at 8.123 on that same
10 page. Then you have at 8.128 in the final sentence the sentence which we say, the indication
11 we say that this finding about substantial investment was separate and discrete from the
12 assessment of whether better outcomes in the round would arise which was the subject of
13 the preceding part of section 8.

14 Now, sir, you asked me a question in opening about whether the positioning of that
15 paragraph was unfortunate, because it comes, if you recall, in the bit of the statement which
16 does look at substantial evidence of demand.

17 THE CHAIRMAN: And you described it as “clunky”.

18 MR. HOLMES: Clunky indeed, sir, and, you know, I do not wish to demur from that description.

19 But I just want to draw your attention to 8.131 which is in the conclusion and which we say
20 makes the same point.

21 THE CHAIRMAN: Yes. I think I did say that I thought it was repeated in the conclusions.

22 MR. HOLMES: You did, sir. You did.

23 THE CHAIRMAN: Right.

24 MR. HOLMES: So, the finding of fact was therefore not as Colt suggests in the notice of appeal a
25 finding that there would be no demand. Ofcom recognised that demand levels would depend
26 on the price for passive access. If the Tribunal could just turn back to p.649 of the
27 statement, that point is made in paragraph 8.41:

28 “The prices of passive products relative to those of downstream alternatives would be
29 a key factor in CPs’ incentives to use them”.

30 Ofcom then illustrates that with the example based on an MNO's desire as explained to
31 Ofcom to use passive remedies on the assumption that they would allow it to arbitrage the
32 bandwidth gradient.

33 So Ofcom also understood that there would be demand at the right price from the point of
34 view of the purchaser and this underlay its central concerns described in the consultation

1 document as “significant risks”. There is therefore no basis for Colt’s allegation that Ofcom
2 got the facts wrong in the final part of section 8. And the facts indeed remain the same now.
3 We accept that the Tribunal has a merits jurisdiction; it could reconsider the question of
4 significant demand if it thought it particularly pertinent. But no-one has come forward to the
5 Tribunal with any further evidence of substantial investment intentions which turn upon the
6 introduction of passive remedies.

7 So we say no error of facts, and in any event Ofcom’s analysis of substantial demand was
8 discrete from its balancing exercise, so that Colt must therefore succeed on both grounds 3
9 and 4 in order to justify remission.

10 That is not the same as saying that evidence of investment would not also have implications
11 for the balancing exercise, and this comes back to a question that you, madam, fairly raised
12 in opening. If, in the final quantitative assessment of investment intentions Ofcom had
13 found evidence that someone planned to invest substantially, it would of course want to
14 know what the investment would be in, as Mr. Culham explained in re-examination. And
15 this is also the point being made at paragraph 66 of his first statement. If one reads that, we
16 need not go to it now, but if one reads it, it is saying simply that there were two things that
17 Ofcom would need to be satisfied of, innovation and substantial investment, but the balance
18 could shift. If people were going to do something very innovative, or come forward with a
19 lot of money, Ofcom could arrive at a different position. It was not intended, I think, to say
20 anything more than that.

21 So this evidence would then be added if somebody had come forward with evidence of
22 plans to invest substantially, to the other qualitative evidence already considered in the
23 balancing exercise which we have run through this morning, and would be weighed in the
24 balance alongside the consideration of MNOs’ backhaul, scope to unlock investment in
25 NGA and the niche applications referred to by one operator, and so on. A substantial
26 investment in arbitrage, however, would not sway the balance, and this shows why the two
27 stages of analysis were rightly considered by Ofcom to be discrete and cumulative. The
28 mere fact that someone has a large cheque, whatever the notion is of a large amount of
29 money in this market, would not in itself change the balance, which was the prior stage.
30 You would need to look at what they were going to spend the cheque on.

31 MS POTTER: Sorry, I am rather sort of pondering on that in terms of if someone was really
32 coming forward with a case for substantial investment, one would be rather thinking there
33 would be an intention to innovate and to compete, in that kind of investment decision

1 presumably Ofcom would not just be saying, “Look at this amount of money but it’s all
2 arbitrage”, because obviously one would expect a competitive response from BT.

3 MR. HOLMES: One would expect a competitive response, yes.

4 MS POTTER: If it were a large scale investment, you would expect a competitive response which
5 is precisely the concern that Ofcom had that that response would then undermine the
6 common cost recovery.

7 MR. HOLMES: Yes. Indeed.

8 MS POTTER: So therefore you would expect the competitive dynamic to work through.

9 MR. HOLMES: Yes, madam, I think that is correct. Subject to your questions, and I understood
10 that there may be some, those are my submissions.

11 THE CHAIRMAN: I think you have covered our points, thank you very much.

12 MR. HOLMES: I am grateful, sir.

13 THE CHAIRMAN: Mr. Beard.

14 MR. BEARD: Members of the Tribunal, sir, if I may, I will make one or two comments on the
15 law before working through the grounds. Obviously Mr. Holmes has admirably covered
16 much of the material, and therefore I hope to be comparatively brief.

17 I will start with a recapitulation, if I may. I will not take the Tribunal to the case, but having
18 heard the evidence the Tribunal has done and in particular the closing of Mr. Beal it is
19 perhaps just worth recalling that paragraph in *H3G v Ofcom* which for your notes is at
20 authorities bundle 1, tab.12 at p.10, it is paragraph 1.33, where the Competition
21 Commission dealing with the merits appeal said:

22 “In a case where there were a number of alternative solutions to a regulatory problem
23 with little to choose between them, we do not think it would be right for us to
24 determine that Ofcom erred simply because it took a course other than the one that we
25 would have taken. On the other hand, if, out of the alternative options, some clearly
26 had more merit than others, it may more easily be said that Ofcom erred if it chose an
27 inferior solution”.

28 We would suggest that that is apposite here. The second piece of recapitulation is by
29 reference to the *Everything Everywhere* case. I will ask the Tribunal just to turn that up
30 again. Authorities bundle 2, tab.24, at p.5. Again, I would suggest that passage takes on a
31 greater resonance once the grounds as they are now pursued are considered. It is tab.24 in
32 authorities bundle A2, and it is at p.5 of 14, top right-hand corner. I am just going to go
33 back to the bit, you may well have side-lined it, para.21, I will just start in the second
34 sentence:

1 “[The tribunal] endorsed its previous dicta in *TalkTalk v Ofcom*, ‘Where a decision
2 can be challenged by way of a merits appeal, it is incumbent upon an appellant to
3 show – if necessary by way of new evidence – that the original decision was wrong
4 “on the merits”’. It is not enough to suggest that, were more known, the tribunal’s
5 decision might be different.

6 22 It is beyond question that this is correct, so far as it goes. If the appellant can do no
7 more than show that there is a ‘real risk that the decision was wrong’ then it has not
8 shown that Ofcom’s decision was wrong and the appeal should be dismissed. But
9 there remains scope for dispute as to what is meant by showing that an original
10 decision is wrong ‘on the merits’”.

11 And then it goes on in 23, that in order to establish a decision is wrong under 192(6) it
12 needs to be:

13 “... an error of fact, or law, or both, or an erroneous exercise of discretion. It is for the
14 appellant to marshal ... [the evidence]”.

15 And then, 24,

16 “The appeal is against the decision, not the reasons for the decision”.

17 And obviously Mr. Beal is not going in that direction.

18 “It is not enough to identify some error in reasoning. The appeal can only succeed if
19 the decision cannot stand in the light of that error. If it is to succeed, the appellant
20 must vault two hurdles; first it must demonstrate that the facts, reasoning or value
21 judgments on which the ultimate decision is based are wrong, and second, it must
22 show that its proposed alternative price control measure should be adopted by the
23 Commission”.

24 And when we come on to ground 3 that is particularly apposite. There is one more case that
25 I will go to. I referred in opening to the *BAA* in the CAT. It obviously went up to the Court
26 of Appeal thereafter, the Court of Appeal judgment is not apposite, but if I may,

27 THE CHAIRMAN: I think I know about this case, Mr. Beard.

28 MR. BEARD: Yes. The paragraph I just wanted to take you to, I referred you to paragraph 20.8 in
29 opening, which was to do with, read the reports as a whole. But I just wanted to refer the
30 Tribunal to paragraph 20.3. This is Mr. Justice Sales going through some of the key
31 considerations. This obviously was a judicial review. But the comments here are apposite
32 when one is identifying what the error is here, because we say that it is not an error on the
33 part of Ofcom, if it could have looked for information. That is not an error of law or fact or
34 a value judgment, as Lord Justice Moses referred to. And so just at 20.3:

1 “The CC as decision maker must take reasonable steps to acquaint itself with the
2 relevant information to enable it to answer each statutory question posed to it.
3 Analogously, Ofcom must have enough information that it can carry out its functions
4 in making a market review assessing market definition SMP and remedies. But that is
5 the duty”

6 and if we turn over the page:

7 “The extent to which it is necessary to carry out investigations to achieve this
8 objective will require evaluative assessments to be made by the CC as to which it has
9 a wide margin of appreciation as it does in relation to other assessments to be made by
10 it”.

11 And then there is a reference to *Tesco*. And then in the next sentence:

12 “The standard to be applied in judging the steps taken by the CC in carrying forward
13 its investigations to put itself into a position properly to decide the statutory questions
14 is a rationality test”.

15 And then there is a quotation from the case of *Catton* which in turn quotes a case called *ex*
16 *parte Biani*:

17 “The court should not intervene merely because it considers that further enquiries
18 would have been desirable or sensible. It should intervene only if no reasonable public
19 authority could have been satisfied on the basis of the enquiries made”.

20 And we say that when the allegation is being made that more should have been done, more
21 should have been looked at, that is the test of error that you have to apply here. As it is, we
22 say Ofcom did plenty, so it does not arise. But, just so that we are clear about the relevant
23 legal tests.

24 THE CHAIRMAN: You are saying that applies in full merits review just as it applies in judicial
25 review.

26 MR. BEARD: Well, because when one is talking about the error factor, error of law or error of
27 discretion, we say that amounts to a question of an error of law. It is not an error of fact,
28 because an error of fact is a mistaken assessment of the facts in question. It can be an error
29 of fact on the merits appeal on the basis of further evidence that is being submitted, we
30 accept that too, an error of discretion can be as to a value judgment that is taken in the
31 decision, but that is different from making enquiries or the scope of enquiries that are to be
32 undertaken. And that is why we highlight this, because we do say you need to be cautious
33 about a submission that is being made of: “You could have done a bit more”, because that
34 does not fit properly.

1 THE CHAIRMAN: It is not asking itself the right question, which was another way Mr. Beal put
2 it.

3 MR. BEARD: I am going to come on to that. Obviously, there is an error of law if you ask
4 yourself the wrong question and you misdirect your attention; there is no doubt about that.
5 We do not quibble about that. But we do think that there is a danger that there is not a legal
6 framework being put round this alternative way that the case is now being put on a “You
7 could have made further inquiries” basis.

8 Moving on to Ground 1. Ground 1, as with many things in this case, has changed shape
9 many times, but Mr. Holmes took you back to the original formulation and really there is
10 nothing to see there. No one has ever said that passive remedies and active remedies are
11 necessarily alternatives.

12 Then, if we deal with the formulation of Ground 1 as being Ofcom asked itself the wrong
13 question, the answer is that it did not ask itself the wrong question, it asked itself precisely
14 the right question. It is important in this context to think about the exercises it is required to
15 undertake in a market review.

16 In the BCMR, Ofcom was asking itself two broad questions. In relation to business
17 connectivity, does anyone have SMP in a market which means it has to go and do all the
18 market definition and market power analyses? If they do, what shall we do to remedy
19 concerns that arise from any identification of SMP. Of course, Ofcom did a huge analysis of
20 what the problems were and how they could be dealt with. The market definition alone, that
21 exercise is enormously complex, and I think it is worth stressing, we do not agree with that
22 analysis. We are not happy with it. I highlight that particularly because there has been quite
23 a lot of suggestion about competition by CPs being rolled out in metropolitan areas. If one
24 looks at Part 5 of the BCMR, which we are not privileged to have in the additional
25 materials, but just for reference. What you get are lots and lots of detailed analyses about
26 areas of the country where there were two or more operators within reach of particular
27 businesses in a postcode, and those were referred to as “High Network Reach area”. So if
28 you are a business in that area you have lots of choice of competing CPs and it drew maps
29 of where those areas were and, not surprisingly, they were not just WECLA, which is the
30 London area running out to Slough, but it is also Manchester, Leeds, Bristol, Birmingham
31 and Liverpool. You can look at the points on the maps and work out where the cities are by
32 looking at those dense areas that are picked out.

33 So the Tribunal just should not proceed on the basis that seems almost implicit in Colt’s
34 case, that without these sort of passive remedies, CPs are not out there competing in

1 metropolitan areas, and competing from BT's point of view extraordinarily painfully,
2 because in those metro areas you have lots of competing CPs and, as I mentioned in
3 opening, in relation to the City 1 example, that is actually provided by Colt, you actually
4 have 8 CPs in there making offerings to business customers.

5 Going back to the BCMR. It identified the series of relevant retail and wholesale markets
6 and then it looked at SMP. In some cases it found SMP, but not in all cases, and in some
7 cases where it found SMP it was BT that was the entity with SMP. There are others,
8 particularly in Hull of course, because Hull is special.

9 THE CHAIRMAN: But not before us, really.

10 MR. BEARD: No, that is right. Then it goes on and considers the remedies, and it is just
11 important to put the remedial analysis in perspective. As set out in Chapter 9 of the BCMR,
12 they are not just charge control remedies that get put in place here, the focus has all been on
13 charge control remedies, but actually it is a much more detailed package of remedies of
14 which charge controls are a part, an important part – we are not saying otherwise.
15 Those are all considered in chapters 11 to 13. Then you have the charge controls, and they
16 are intended effectively to deal with a situation where, in respect of BT, BT has SMP and so
17 it would be able to charge, on Ofcom's account, supra competitive charges for its services if
18 constraints are not placed on it. So, when it comes to the charge control, naturally enough
19 the remedies you are focusing on, what do you do to the services that BT is offering in order
20 to ensure that it does not charge supra competitive amounts?

21 It is worth keeping that in context because sometimes the discussion about passive remedies
22 has been as if one can just approach this outside the framework of a market review and say:
23 “Do we like passive remedies, or do we like active remedies more?” You cannot do it in
24 that way. You have to have worked through the market definition and SMP analysis. You
25 have to be looking at the services that are causing you concerns, and in those circumstances
26 it is not surprising, you then target those particular services and it is conditions on those
27 particular services that are going to be the natural starting point for any analysis. That is not
28 to say you do not consider passives. Of course you can consider passive remedies, but in
29 circumstances where you have carried out that review, you have put in place a series of
30 active services charge control remedies that have not been dropped out of thin air, that have
31 been the product of a vast consultation which do, in Ofcom's unchallenged view, result in
32 efficient pricing that deals with those SMP problems. You are asking yourself the right
33 question when you say in relation to passive remedies: “Do they add?” “Is it an incremental
34 benefit here, or are there going to be substantial problems to the SMP analysis and the

1 remedies we found for that SMP concern, that we have already come to on the basis of a
2 very extensive consultation.” Of course, that analysis has to be carried out in parallel. It was
3 obvious it was done through the Call for Inputs, through the consultation exercise and
4 culminating in the Decision. There is no doubt that Ofcom kept its mind painfully open in
5 relation to these matters, that is why BT was making submissions about it because it had
6 real concerns, that Ofcom did have a very open mind about how it was going to deal with
7 remedial matters. The fact that CPs do not engage to the extent that they would now like to
8 engage with these matters is neither here nor there.

9 In relation to the way in which we look at remedies, it is important to stress how those
10 basket methodologies, which have been put in place do enable a degree of efficient pricing
11 to work. Now, Mr. Beal has tried hard to say that nothing he says about passive remedies
12 impinges upon that finding, but that really is wrong.

13 First, he says common cost recovery is a matter for BT. That is just getting it the wrong way
14 around. As you put it, Mr. Chairman, it is part of the regulatory structure. Common cost
15 recovery is the very basis for the constraint that is placed on the BT services as part of the
16 regulatory decision. Now, within that Ofcom has left a degree of flexibility for BT but,
17 broadly speaking, it is the basket of costs that it has been setting the price on by reference to
18 common costs allocated to that basket of services, and therefore a passive remedy that
19 undermines the ability of BT to price across that basket in the flexible manner that Ofcom
20 has envisaged really does go to undermine the SMP remedy that Ofcom has put in place -
21 the price cap mechanism, and efficiencies it brings.

22 He actually goes so far as to say at one point in his submissions that getting rid of common
23 cost recovery has benefits that should be counted in the analysis. You cannot have it both
24 ways. If you are saying that what we are talking about is an alternative that would
25 undermine the entirety of that efficient cost remedy basis and you should count that as a
26 positive benefit, that is an attack on the analysis that is set out in chapters 17, 18 and 20 in
27 particular in the BCMR.

28 As I say, Ofcom has identified problems in its view and solved them in its view, and then it
29 asked itself in the course of that analysis what incremental benefits are there from passive
30 remedies, given the scheme of active remedies that we can put in place. It was not required
31 to say, as Mr. Beal says, how do we make passives and actives work together, that is not the
32 right question. It works on a presumption that you do have a potential incremental benefit
33 from passives that should be put in place.

1 As I say, just to pick up another variation on the Ground 1 case, at times, particularly during
2 closing, Colt's case seemed to turn into: "You did not do enough; you should have looked at
3 other things". I have referred you to para. 23 of the *BAA* case. You can always say: "You
4 could have done more", that is not a good criticism of a regulatory decision.

5 It is a particularly remarkable criticism of a regulatory decision given the scale of the
6 exercise that has actually been undertaken. It is a counsel not only of perfection but
7 potentially madness if you can come along after these long reviews and say: "You should
8 have done more – Call for Inputs, massive consultation" – and bear in mind the consultation
9 was two huge documents, it was the BCMR and the charge control dealt with separately that
10 were then fused into the final BCMR decision – "you should have done more". That is
11 Ground 1.

12 I am not going to deal with Ground 2 further, Mr. Holmes I think has covered that more
13 than adequately. That takes us to Ground 3.

14 One of the points to emphasise from our perspective, and it is an important point, is as Dr.
15 Maldoom has pointed out in his witness statement and, indeed, under cross-examination,
16 multiplications of remedies in relation to a particular service actually increased the chances
17 that one is going to be wrongly priced. Therefore, you do increase the chances of detriments
18 that flow from those multiple access points arising, and there is no challenge to that.

19 Then we think about what the detriments are, and the first, of course, as well articulated by
20 Mr. Holmes, the collapse of bandwidth gradient, if you have a situation where passive
21 prices are at a flat rate. Well, it is not just a flat rate, but a rate that is insufficiently refined
22 so as to prevent that collapse, because you could have grades of passive prices that still
23 create those problems. Colt has no concerns about that. It was entirely candid in its initial
24 submission, as were other CPs. We do not like the bandwidth gradient, we do not care about
25 BT's costs recovery. Mr. McCann was entirely candid. He is not interested in BT's cost
26 recovery, that is perfectly proper. It is no concern of Mr. McCann's but it really is a concern
27 of BT's, and it is a concern quite properly of Ofcom's.

28 So the fact that the CPs do not care, and do not make submissions about these things is
29 entirely immaterial. Indeed, it is almost surprising that one or two of them said as much as
30 they did; it may be prescience on their part but, nonetheless, it is a fundamentally neglected
31 part of the Colt analysis that the regulatory structure must, in line with Ofcom's regulatory
32 duties when dealing with SMP situations, afford BT a reasonable opportunity to recover its
33 efficiently incurred costs.

1 In opening I outlined how it was quite a complicated involved process, but under Ofcom's
2 supervision as to how regulatory financial statements were put forward and cost allocation
3 was done and that was then fed into the regulatory process, and at one or two points during
4 cross-examination there was a reference to a 'recent restatement of the regulatory financial
5 statements'. To be clear, there have been restatements of the regulatory financial statements.
6 It is not entirely stunning that in such complicated documents restatements do happen from
7 time to time. It was done with Ofcom's knowledge and supervision, obviously, and we
8 cannot see how it is remotely relevant but we do make clear that it is right, there has been a
9 restatement.

10 That cost recovery problem exists. The second cost recovery problem arises because of the
11 risk of geographical de-averaging and that is not just a cost recovery problem that is a
12 consequence to business consumers outside urban areas, and that is a very significant issue.
13 If the world is going to change and the expectations are that BT is not going to have to serve
14 those sorts of people and bear the cost of it, that is a very, very different telecoms'
15 regulatory world that we will be dealing with, and Ofcom quite properly, having regard to
16 its regulatory obligations, has those matters closely in mind when it is thinking about how
17 these regulatory remedies have to be struck. Again, Mr. McCann, perfectly candidly says: "I
18 am not worried what people pay out in rural areas, I have set out I am interested in Colt
19 rolling out in metro areas." Fine. Again, no criticism of Colt or Mr. McCann, but that does
20 not make these matters irrelevant, they are actually critical to the way that Ofcom should
21 deal with these matters.

22 That, of course, is not the end of the detriments because, as I indicated in opening, as well
23 as those fundamental problems with enabling cost recovery through the efficient pricing
24 mechanisms, that affect bandwidth gradients and geographically average pricing, you have
25 also got risks that you actually increase the costs of the equipment that is being used when
26 passes are rolled out and there has not been any challenge in relation to those sorts of issues.
27 When CPs install kit there is a risk they are installing kit that BT already has in place.
28 Duplication may well be a function of competition but it also has to be recognised that it
29 can also be inefficient having duplication of those sorts of kits because the cost of that has
30 to be recovered from consumers.

31 Fourthly, there are real risks in relation to what are called "Capacity Grabs". In other words,
32 communications providers trying to get spare duct space or fibre so that they can effectively
33 hold on to it, take advantage of it, and then charge what they want to third parties
34 unconstrained by regulatory mechanism, unlike BT.

1 The Chairman I think raised an eyebrow in relation to my reference to Morgan Spurlock, he
2 was the man who nobly ate McDonald's for 30 days and every time he went in there he was
3 required to accept a supersizing of his meal. The consequences of that 30 days were
4 documented in his film "Super Size Me", which was both a description of him and the rule
5 he applied. Colt does not refer to supersizing, it refers to "outsize" capacity being taken, but
6 it is the same issue, it is grabbing a lot in order that you can have control over more than
7 you actually need in those circumstances.

8 Fifthly, you do deter investment. I have highlighted that in relation to cutback issue in
9 relation to cost recovery, but there is also a regulatory uncertainty issue that arises here, and
10 no one has ever really talked about that part of the Framework Directive, but there is a
11 genuine regulatory uncertainty issue that arises. It is contrary to the terms of Article 8 of the
12 Framework Directive, of course that might not bother Colt. I am not for a moment
13 suggesting that the requirements of Article 8 mean that there is "sclerosis", as Mr. Culham
14 very properly referred to it, but he did recognise that there is a virtue in stability.

15 There is one other reference I should make there, Dr. Maldoom (Day three, p.3 line 21) also
16 referred to the foreclosure of investment effects, just for your notes.

17 Sixthly, the move to passive remedies will be irreversible – again, not challenged. It would
18 undermine the regulatory schemes that have assessed efficient pricing mechanisms that
19 have been put in place to solve the concerns that arise in relation to SMPs but have been to
20 the benefit of competition in consumers and instead create an inexorable, if chaotic, move to
21 passive remedies; active and passive would not be happy bedfellows.

22 There is actually an interesting further problem that arises, not just irreversible, but
23 potentially irremovable, because you get a funny situation whereby if you have identified an
24 SMP for an entity, and you put in place active remedies, then as significant market power
25 ebbs away, assuming those remedies are functioning then you can remove active remedies.

26 No one has really thought, so far as we can see, what you do if you put in place passive
27 remedies in a competitive sector of the market, and the SMP declines, and then the party
28 with SMP wants its ducts back, that does not seem to have been thought through at all.

29 There may be some answers but nobody has grappled with them. I should stress that the
30 situation in relation to passive access here is vastly different from the position in relation to
31 PIA. Mr. Holmes has canvassed these points in some detail, but it is important that the fact
32 that PIA has been accepted in the circumstances it has does not tell you against the active
33 remedies that exist, it does not tell you that you should have passive remedies in relation to
34 the business connectivity market. What it suggests is that actually you need to think about

1 these things rather carefully in relation to the specifics of particular markets. It is no good
2 simply abstracting matters and dealing with things at levels of generalisation which are fun
3 as thought experiments, but they are no fun if you roll those thought experiments out across
4 markets that are very significantly developed. You can draw lessons from the fact that BT
5 does not have an economic case for rolling out NGA services in rural areas, and therefore
6 effectively we are going to ensure that different people can do that, albeit that, as
7 Mr. Holmes rightly said, probably on the basis of subsidies which is when you get into these
8 state aid points, so it is actually overcoming economic problems in those circumstances
9 where you are not going to have alternative infrastructure as compared to situations where
10 you are already having infrastructure competition in relation to these issues, and indeed not
11 just infrastructure competition, but competition more generally in the leased lines market.
12 One point that was picked up by you, Mr. Chairman, when you were taken to various bits of
13 the PIA or the WLA document looking at PIA wars. A pricing scheme was put in place
14 here. A reference offer was made. That is right, but it is much, much simpler to deal with
15 sorting out a reference offer in relation to an area that you are concerned with enabling
16 effectively one operator to roll out a system than it is trying to deal with the issues of
17 pricing in relation to passive access that we are dealing with here. I will come on to that
18 when I talk a little more about FRAND.

19 Just for your notes, Dr. Maldoom, day 3, p.18, lines 1 to 10, rather carefully considered
20 issues concerning difficulties with transposing the analysis of one market to that of another.
21 Mr. Holmes has already given you references in relation to how PIA and the comparison
22 between the two was actually specifically highlighted in a consultation document and it was
23 considered by Ofcom and referred to in the Final Decision. So it had that well in mind and it
24 was on the basis of all of that analysis that it thought, no, actually this market is different.
25 So we have a wide range of significant detriments in circumstances where remedies have
26 already been identified. It is not looking promising for the idea that there is an incremental
27 improvement by the introduction of passives. Colt has broadly three responses. One is, "Let
28 us not worry, you can just set high prices, put them out there at really high prices and it will
29 not cause any problem for bandwidth gradients or anything else". It is also entirely
30 pointless. It adds nothing in those circumstances. It feels slightly disingenuous because that
31 feels like it is just a start of collateral fight about levels of those prices.
32 If you set prices at any level that means effectively common costs recovery is protected you
33 are just not adding anything, at which point there is not an incremental benefit, there is
34 nothing to see here.

1 The other alternative is, of course, FRAND pricing. Mr. Holmes has already spelled out
2 how that would just be a massively complex exercise. Dr. Maldoom, day 3, p.4, lines 13 to
3 21, and day 3, p.19, lines 27 to 32, explains some aspects of how complex it would be and
4 how much more complex it would actually be than the charge control. In the charge control
5 you are dealing with setting caps or structures of caps for a basket with sub-caps, and on, of
6 homogenous products. You are not doing that when you are talking about different pieces of
7 passive access.

8 Mr. Holmes has already referred to the fact that if you are going to try and build in some
9 kind of usage-based pricing mechanism you have at the moment, it seems, completely
10 insuperable problems in relation to monitoring. Mr. Beal will not have to stay long at the
11 Bar if he is about to patent a smart meter that will enable this sort of monitoring to occur.
12 Mr. Culham set out very clearly how the exercise of engaging in FRAND pricing would
13 require hugely granular analysis. I give you the references, day 3, p.40, line 30 through to
14 p.41, lines 1 to 3. It would be an exercise like nothing we have seen in relation to these
15 regulatory schemes. It is nothing like PIA and it creates vastly more problems.

16 It actually does get a bit worse than that, because unlike when you are dealing with pricing
17 system costs and system constraints, and so on, with passive access you are looking at
18 particular ducts, particular fibres, and Mr. Beal took the Tribunal at some length through
19 various of the reports that were fed into the consideration of whether or not there should be
20 a PIA remedy, and said they say 40 per cent of ducts have space in them, or something of
21 that sort.

22 That is right, we are not trying to quibble with surveys. They are necessarily imperfect, but
23 they are showing space. The problem is where is the space, where are the difficulties? As
24 Mr. Reid said, if you are asked for a particular route through a set of ducts to access the
25 ducts, you have to make sure that there is room for another cable to run through, and not
26 through most of it, through all of it. The problem is you do not know where the constraints
27 lie in relation to the duct. So you will have to survey. So in relation to any application, quite
28 apart from all the huge problems that FRAND pricing would involve, you also will build in
29 a prior step of the cost of surveys, and so on.

30 We recognise that sometimes additional costs are part of competition, but this is more and
31 more complexity, more and more uncertainty, more and more disruption in circumstances
32 where there is not any real sign of incremental benefit.

33 So FRAND fails, high price fails.

1 The third answer is that the detriments are outweighed by the benefits. Let us just briefly go
2 through what are alleged to be the benefits of introducing passive remedies. I recall again
3 that in its notice of appeal Colt contended that there was substantial evidence of benefits
4 that can be delivered through passive remedies which are incapable of being achieved by
5 active remedies. The first of these was infrastructure based competition. Of course it is not
6 really about new infrastructure, it is different configurations of existing infrastructure, albeit
7 with some digging. It all comes down to arguments about architecture, it seems. Colt said it
8 would develop rings but it was unclear how that worked when all it had was the BT hub and
9 spoke architecture and how such rings would be developed.

10 Even if it could, the differences between the architecture seemed to boil down to questions
11 of resilience. As Mr. Reid carefully explained, you can have resilience in different ways. He
12 recognised entirely that a ring does have a degree of innate resilience, no doubt about it.
13 There is no dispute there, because you have dug enough to ensure that there are two routes
14 from any particular point. He went on to explain why that really is not all that instructive.
15 As he explained, day 2, p.34, line 30, through to p.35, line 13:

16 “Sir, if this was the end of discussing rings I think it would be very misleading
17 just to leave it there because the important point is that BT does not offer pure
18 point to point un protected service, it offers alternative strategy based on dual
19 parenting, which is equivalent to rings.

20 Q You say it is equivalent to rings, but dual parenting would require two
21 straight lines running parallel to each other, would they not?

22 A Yes, they go to different places, yes.

23 Q I understood dual parenting to mean that you were going between the CP
24 providers and the customer’s premises, but you were simply running two lines
25 along it?

26 A No, it provides two routes from the customer premises, one to one BT local
27 exchange and one to another local exchange, such that they have not got any
28 common load failures between them.

29 Q You say that gives rise to a *de facto* ring?

30 A Ultimately, I think the ring can be a little bit misleading. The important
31 point is that there you can have multiple paths. A ring will provide you two
32 paths, so more than one path, without having common failures on it. The hub
33 and spoke architecture of BT’s network achieves that by providing two paths
34 from a customer premises back to two local exchanges. From there the circuit

1 can be extended, two circuits can be extended again to maintain the
2 ‘supremacy’ of routing, such that the full resilience is achieved.”

3 THE CHAIRMAN: Mr. Beard, I thought we heard earlier that Ofcom had accepted that in certain
4 cases, I will read from 8.104 of the statement:

5 “Could in some cases give a CP an advantage through more control over the
6 characteristics of the end to end service it offers.”

7 MR. BEARD: Yes.

8 THE CHAIRMAN: So that is in the Decision.

9 MR. BEARD: That is in the Decision.

10 THE CHAIRMAN: In certain circumstances.

11 MR. BEARD: In certain circumstances.

12 THE CHAIRMAN: Not in all circumstances.

13 MR. BEARD: Not in all circumstances, but in the circumstances that have been articulated on the
14 evidence in this case the point we are making is actually it does not offer additional
15 benefits.

16 THE CHAIRMAN: Ofcom must have come to that view on the basis of evidence advanced to it
17 during the consultation and its own regulatory experience.

18 MR. BEARD: That may well be right, and BT does not accept that that is quite right.

19 THE CHAIRMAN: Okay, so there you are supporting Ofcom.

20 MR. BEARD: Of course. We support them emphatically but that does not mean that when we are
21 faced with particular evidence about how constraints arise and how alternative architectures
22 might give rise to additional benefit, when we look at the particular evidence we cannot say,
23 yes, but this suggestion that is being put forward by this appellant does not do that, and that
24 is precisely what we are saying here.

25 THE CHAIRMAN: But you are not taking issue with the statement in 8.104?

26 MR. BEARD: We are not going to try and unpick 8.104. What we have is that we note that
27 Ofcom leaves the question of whether or not BT services constrain Openreach in 8.104, but
28 what we have done is look at each of the examples of this as post-constraint, and we say
29 that when you look at the evidence they are not constrained. In fact, Colt appears to have
30 been operating under a misapprehension, both about how we operate our architecture and
31 also the nature of our active services, and that is a very important point, because there are
32 all sorts of submissions made by Colt about scaling up and down capacity, the way you can
33 control customer prioritisation, the way that you can organise your services across our
34 active service offering. They say, “We are constrained by BT”. When we have actually

1 gone through the evidence they are not. In fact, they appear to have misunderstood what
2 you buy when you buy from BT in relation to these circumstances. So Ofcom can be right
3 in the abstract, but when we look at the particulars of the materials that are put forward in
4 this appeal on these merits, we say there are none in relation to Colt's case.

5 That is architecture and resilience.

6 Can we just move on to innovation of service differentiation briefly. Ofcom obviously
7 considered this at 8.103. Mr. Holmes has already quoted the various bits from Dr. Lilico
8 and I will not go through those. Dr. Maldoom agreed. He perfectly said that you could never
9 say that you could not have some sort of additional innovation using passives. As I say,
10 when we come to look at the particular innovations it is hard to see what they are.

11 If we look at the service differentiation issues, as I say, what you have is a situation where
12 there appears to be a misunderstanding by Colt as to what they can do. As Mr. Reid
13 repeatedly stressed, what you can get is a lit capacity from point A to point B, and it does
14 not just have to be to the end customer, with which you can do as you want. If you want
15 links to customers' doors, you can use further links from BT or you can do your own.

16 Just for your notes, I will give you some references to Mr. Reid's evidence on this: day 2,
17 p.33, lines 8 to 10, where he says the Openreach product is purposefully designed to be an
18 open pipe over which a wide variety of service can be offered. Also p.36, lines 28 to 32,
19 p.37, line 24, and p.48, lines 1 to 18, where he says that there is a full decoupling between
20 the provisioning times associated with the Ethernet service and the flexibility and the
21 timescales and the ability to dial up and down and capacity associated with Software
22 Defined Networks using BT's active services.

23 Mr. McCann was not in a position to contradict those issues, and indeed when questioned
24 he accepted that he had no idea whether BT products met the same service availability
25 target levels as Colt's own products - transcript day 2, p.12, line 29, and p.13, line 13. He
26 did not know whether Colt repairs were quicker with BT - that is p.14, line 22. He accepted
27 that the tables in question were aggregated Euro tables that we were referring to, that is
28 p.14, 32, a point that Mr. Holmes has already picked up. And we have already got
29 unchallenged evidence from Mr. Reid in his second statement at paragraph 28 that passive
30 remedy arrangements would likely exacerbate fault repair times due to issues about
31 identifying who was responsible for what.

32 If we move away from service levels, what were the other innovations apparently held back
33 by BT? Well, SDN, first, we have not held that back and we are at the forefront of groups
34 working to enable SDN into working. But, more than that, it is completely irrelevant to a

1 passive and active remedies question. SDN can be rolled out across active services or across
2 passive services, but it is available, and Mr. McCann fairly accepted that. (Day 2, p.11, lines
3 5-6).

4 EAD services, it was alleged they were late. BT had taken time to develop them. Actually, it
5 replaced an earlier named service called WES which did the same thing. We can see that
6 dealt with at Mr. Reid's witness statement No.2 paragraph 17. That was not challenged.
7 Routing choices, it was said that we were not offering routing choices. We are not in the
8 EAD, but we are in other connectivity services. That is Reid, statement 2 at paragraph 27.
9 Then we have got the Sync-E developments about which Mr. Reid knew a great deal, and
10 his evidence is dealt with both in his statement, first statement, paragraphs 55-61 and also in
11 the transcript, Day 2, p.46, line 28 through to p.47 line 16. Mr. Reid explained that BT had
12 developed it but there was no great demand. And there was also an issue about
13 complementary or substitutive technologies.

14 Another issue that is actually referred to in the BCMR decision but has not been highlighted
15 by Mr. Beal, aggregated handovers, that was another allegation of foot-dragging and
16 problems by BT. Reid, statement 1, paragraphs 62-63.

17 Now, just to be clear, as Mr. Reid said, communications providers do want things faster
18 always. They do want things cheaper always, but the fact that communication provider
19 customers moan does not mean that there is some failure to innovate on the part of BT,
20 indeed BT is proud of its history of innovation; it has been a leader in optical
21 communications technology. And Mr. Reid in his first statement, paragraphs 64-67 makes
22 various further comments about matters of innovation.

23 THE CHAIRMAN: I think your time is up, Mr. Beard, so you had better conclude quite quickly.

24 MR. BEARD: I will conclude very quickly. Capacity and coverage I think have probably been
25 covered already. There is no doubt that demand for higher bandwidth is growing but there is
26 no linkage to passive remedies.

27 Issues to do with network expansion and statements of Mr. Sinclair and Fournier are dealt
28 with, adopted by the statement of Dr. Yardley in the core bundle 1 at tab.14, and in relation
29 to foreign comparators, unchallenged evidence of Mr. Lazarus, core bundle 1, tab.25,
30 paragraphs 70-75.

31 On the efficient use of network assets, nothing more is being developed. I will not repeat the
32 points made in opening.

33 And then we move to ground 4, I have already trailed, fully dealt with in the consultation,
34 already trailed in the Call for Inputs. The position was obvious. The fact that the CPs did

1 not respond is neither here nor there. The interpretation, we say, at part 8 is Ofcom did a
2 balancing exercise and looked additionally to see whether anything it had been told
3 indicated there was some new grand innovation out there which was being held back by the
4 absence of passive remedies. It was the nature of that demand that was as important as
5 anything else.

6 And the truth is that even after all of the consultation, and then even after all of the evidence
7 that has been submitted, really, all that is being suggested is that there might be some useful
8 arbitrage opportunities. In the circumstances, there was no incremental benefit from the
9 introduction of passive remedies. This Tribunal does not need to go that far. But, plainly,
10 the Ofcom decision was, in this respect at least, entirely unimpeachable.

11 Unless I can assist further, those are the submissions of BT.

12 THE CHAIRMAN: Thank you, Mr. Beard. (To Mr. Beal) Do you want to pause briefly
13 before —

14 MR. BEAL: No, no.

15 THE CHAIRMAN: You are raring to go again.

16 MR. BEAL: Kicking off a reply submission after a four day trial is always a bit like the last
17 batsman in at the end of a Test Series. The disadvantage I have of course is I do not know
18 the score card, so I do not know whether I have got a valiant run chase on my hands or
19 whether it is simply playing for pride. But there we are.

20 THE CHAIRMAN: This is the reply to the reply to the reply, is it not?

21 MR. BEAL: Exactly. So we are some way down the track.

22 THE CHAIRMAN: Draw the line somewhere.

23 MR. BEAL: What I am proposing to do is simply deal with the balls that I see fit to despatch as
24 far as I can, and then leave you to decide who is the winner.

25 I shall do that comfortably within half an hour. If you are looking for a structure to these
26 submissions —

27 THE CHAIRMAN: Twenty minutes is what we allowed you.

28 MR. BEAL: Twenty minutes, I am sorry.

29 THE CHAIRMAN: See how you get on.

30 MR. BEAL: I shall do it within 20 minutes.

31 THE CHAIRMAN: Appeal against the light, I suppose.

32 MR. BEAL: Yes. First point, chasing the tail in terms of the reviews. It is not right, I think
33 Mr. Holmes suggested, well, none of this is relevant because in fact we simply took a
34 decision in this review and that is enough. We say, “Actually, when you look at what they

1 are deciding, part of their reasoning, part of Ofcom's reasoning, is that it has an impact on
2 other markets", so there is this potential cross market issue, it has clearly been flagged as a
3 cross market issue, and the fact that they chose not to examine the issue in the WLA review
4 means that actually, insofar as it is a relevant consideration, it is appropriate to bear in mind
5 that that was their conscious decision the first time round.

6 Arbitrage, Mr. Beard in his usual eloquent fashion finished on a rhetorical flourish in which
7 he mentioned, yet again, the concept of arbitrage and cherry picking and so on. Arbitrage in
8 itself is of course not a bad thing and it is what effects it produces on the market that is
9 potentially problematic. Arbitrage in the form of a parallel importation between different
10 member states or indeed finding kinks in the market which enable prices to be lowered is a
11 competitively good thing. The question is whether or not it leads to inefficient competition
12 in this case.

13 Next point, ground 1, the demand ground, I am sorry, the alternative versus complementary
14 issue. There was a great deal of sort of going through the decision with a fine tooth comb on
15 the part of Mr. Holmes to try and justify his position, and indeed not just on that ground but
16 on other grounds as well. And there does come a point at which actually he is at risk of
17 falling into the trap that Mr. Beard said we must not fall into, which is construing the
18 decision like a statute, as if it is a statute. We say in relation to a number of points as to
19 what the decision says needs to be looked at in context and you simply need to read the
20 natural and ordinary meaning of the words and see what the import of those findings was.
21 The next point I need to deal with relates to PIA, and I think one of the points that was
22 made by Mr. Holmes was that PIA would necessarily have to be determined by dispute
23 settlement if and when it arose, and just on that I would remind the Tribunal of course of
24 paragraph 7.23 where Ofcom seems to have seen that one off at the pass by at least putting
25 together an industry-wide consultation procedure — sorry, 7.23 of the LLU review, not the
26 BCMR review.

27 Now, the other thing that Mr. Holmes raised, he said, "Well there's been no take-up of
28 PIA". Well, insofar as that is relevant what that would mean of course is that he is
29 envisaging that there would be no take up of the passive remedy here. If that were right, we
30 default into my earlier submission that the costs associated with the exercise would be
31 minimal, but at least the opportunity is there, at least you are building in the availability of
32 competition in principle.

33 There was a suggestion made, I think, that I had not referred you to p.3 of tab.6 in the
34 supplemental bundle. It is true I did not refer you to it. The reason I did not refer you to it

1 was because in fact the submission that I made was not that the point had not been put to
2 that particular communications provider, and this becomes clearer once you look back at the
3 document, that was a meeting between communications provider I think “A” I call it in my
4 closing submissions, and Ofcom. Communications provider A had already done a detailed
5 submission which the meeting was then following up. So communications provider A had
6 already spotted the point that needed to be dealt with on Ofcom’s case. That is the reason
7 I did not refer you to the fact that an individual from Ofcom was pointing out what the case
8 was, the communications provider already knew what it was.

9 Turning to ground 2, in a sense there is not an awful lot more I can say on this, other than
10 that you have my submissions; you have seen the way it was put in the notice of appeal; you
11 have seen how the argument has developed; and you have seen how I now put it. We say
12 that the way I now put it is within the scope of the essential point that was being made in
13 ground 2, regardless of whether or not a presumption comes into it, there is a question of
14 which is the better approach to adopt in the light of the regulatory framework? Those are
15 my only submissions on ground 2.

16 Ground 3, unfortunately here I do have a series of points. In relation to uniform pricing, the
17 suggestion was made I think that as matters stand a geographically de-averaged price would
18 lead to the risk of geographically different retail prices in the downstream market. That, of
19 course, is exactly what Dr. Lilico did not say in his re-examination on day 3. So, as matters
20 stand, the learned member’s comments, Ms Potter’s comments, on the geographical
21 premium and the geographical premium being applied at the level of leased-lines does not
22 mean that that would necessarily feed through to geographically different pricing in the
23 retail market. It does not necessarily follow from that for the simple reason that there would
24 not necessarily be a determinative factor from where you end up with pricing for the
25 wholesale product into the pricing for the retail product.

26 The next point I think was that it was said we had not brought forward details of our level of
27 investment with any degree of detail. I think the suggestion was made that our level of
28 detail had not in any way been itemised with particularity, and there was new evidence that
29 had supplemented it. With respect, at the level of our particular investment in the market
30 this has been suggested throughout and has remained unchanged, what has changed is that
31 we have, in order to make the point that what we are seeking is not entirely pie in the sky,
32 we have sought to thrash out a few more detailed analyses of how it might play out in
33 practice and what its consequences may be for a given price. The potential underlying level

1 of our interest in the remedy has not changed. I may have misunderstood the point that was
2 being made, but I thought for some reason —

3 THE CHAIRMAN: Was it not a question of how much of the European wide sum would be
4 devoted to the UK?

5 MR. BEAL: That has never been articulated in terms. All I would invite you to look at is the
6 business plan that you have already had a reference to. And in terms of market opportunities
7 that are identified, you can draw your inferences as to where the target might well be.
8 I am reminded also that one of the other points was what we had said in terms of the nature
9 of the investment that we might make and, for your note, there was a briefing document that
10 we provided to Ofcom (notice of appeal 3, annex 6, tab 7) – I am not suggesting you turn it
11 up now, but in due course it would be worth looking at – which indicates what we
12 envisaged in terms of our involvement with the market.

13 A further claim was made by Mr. Holmes, dealing I think with the Tribunal’s question as to
14 the extent to which the existing active remedies were capable of satisfying innovation,
15 demand for substituted products and so on. Clearly, the existing active remedies cannot
16 satisfy a demand for differentiated products at the same level because it is a single product.
17 In terms of the innovation, my learned friend, Mr. Holmes, took you on a fairly prolonged
18 route through the consultation document and then, to a lesser extent, the BCMR statement.
19 The reality, it seems to us, however, must be that in addressing the concerns that were
20 expressed by, for example, communications providers who are MNOs (telecoms providers)
21 the con doc did not deal – and one may say understandably, but the fact is it did not deal –
22 with a demand for innovation and differentiated product service from people outside the
23 backhaul market, for example; from people who simply wanted a better quality, different
24 terms in terms of SLAs, fault reliabilities and so on. That whole different area of innovation
25 was not catered for in the con doc, so that is an area that simply has not been addressed by
26 Ofcom.

27 There is a slightly curious logical conclusion one must draw from the submission on
28 innovation in relation to the existing active remedies, that the regulator is essentially saying:
29 “We have looked at innovation based on the active remedies and we are satisfied that
30 innovation will happen.” It is a very strange position for a regulator to be taking. They are
31 saying: “We do not think the market needs to be more innovative” which is quite a bold
32 statement for a regulator to make.

33 I was quite worried, for example, when BT said that you do not have to have any other
34 alternative product because everything we provide is all you could ever need always for the

1 best in the best of all possible worlds. I was more worried, actually, when Ofcom seemed to
2 subscribe to that view in their closing submissions and endorse it, and say it from the
3 viewpoint of innovation we have no concerns but that the existing active remedies are
4 sufficient to meet everyone's needs. It is a very strong submission and I would therefore
5 encourage you to view it with a degree of suspicion. There is also an inherent conflict here
6 because Ofcom does, in fact, accept that rolling out a passive remedy would bring benefits
7 from innovation and product differentiation and choice. So if that is the choice then in a
8 sense does that not already prove the fact that the ground is not covered by the existing
9 remedies that are on offer?

10 The final point on the innovation side of things in terms of Ofcom's submissions was that
11 the statement of a requirements procedure could be used to drive innovation and, again, I
12 am afraid I expressed some scepticism as to how that might work out in practice, because
13 (a) innovation is not usually driven by a fairly hide bound contractual procedure, and (b)
14 there are concerns as to whether or not a market competitor would wish to reveal the full
15 extent of its innovative plans, even to a functionally separate entity such as Openreach.
16 FRAND – in our view, and with respect, it is accepting far too much simply to think that if
17 FRAND terms are offered we inevitably default into a very protracted and very detailed
18 dispute settlement procedure.

19 That may be the outcome, I am not saying it would not happen, but I am saying it does not
20 give the parties much credit in this market if that is the knee-jerk response from Ofcom. It
21 seems to us that Mr. Culham, for example, recognised in his evidence that one of the
22 purposes of the FRAND terms was to impose some form of *ex ante* margin squeeze
23 analysis, so the idea behind the FRAND terms is to make sure BT has taken a view as to
24 whether or not it would be susceptible to allegations of margin squeeze and it then deals
25 with them in the terms that it offers.

26 If that task is taken responsibly by the incumbent, and I have no reason to doubt that it
27 would be then, of course, that narrows the scope for dispute and it would only be if Colt
28 were seeking somehow to gain the FRAND terms against the incumbent for its own reasons
29 that that would be an issue as far as we are concerned.

30 You have heard the evidence from Colt time and again. What we are after is satisfying
31 genuine demand with a genuinely innovative service that does involve slash and burn tactics
32 on the basis of the margin, and that is our game plan, and we have said that throughout, and
33 nobody has suggested to the contrary.

1 In any event, you have the point that in the WLA review, para. 7.23 catered for the risks of
2 disputes in what seems to us to be a fairly sensible way.

3 The next point was that the price may be too high for competitive entry, and you will recall
4 that I intervened at that point, with regret, to point out it was not in fact the experts that said
5 that, it was the legal team, and we put the caveat in for the obvious reason that lo and
6 behold, against all my submissions to the contrary, we do end up potentially having a
7 dispute on what the terms might be, we are not somehow estopped by virtue of the price that
8 we have put forward in this appeal. Candidly, that is the purpose of putting that caveat in. It
9 does not mean that somehow we are coming up with pie in the sky solutions that have no
10 basis in fact, but nor do I wish to be tied to a figure that Mr. Mantzos has come up with, and
11 nor would Colt.

12 The truth is that while his analysis was detailed and a fair crack of the whip it was nowhere
13 near as detailed, and it did not have cross-border, cross-stakeholder input into the actual
14 figure that is arrived at.

15 Commercially sensitive information – the short point here is, at least in principle,
16 Openreach is functionally separate from BT. If we provide details to Openreach as to our
17 usage of the ducts and the bandwidth that is going through them, that should not be remitted
18 to BT Wholesale, and I have no reason to suspect that it would be.

19 There is, of course, also the regulatory power given to Ofcom to require communications
20 providers to give details of services that are offered and the level of data, so they can also
21 act in a regulatory capacity to confirm the usage and, of course, giving data to Ofcom for
22 that purpose would be data protection compliant because of the terms of the Data Protection
23 Act and the Data Protection Directive.

24 Vodafone – one of the points that was made in para. 8.104 of the statement was the
25 difference in performance attributes between the UK and countries where passive remedies
26 are available, as shown in the diagrams provided by Vodafone, could be due to a number of
27 variables apart from the availability of passive remedies. What Vodafone was dealing with
28 here was essentially Vodafone saying: “You will get a better broadband performance if you
29 allow the passive remedy, look at the figures for other Member States, that backs up what
30 we are saying”. Vodafone was not there dealing with product differentiation and the
31 different types of services you can get beyond a basic performance related analysis. So I
32 think Mr. Holmes suggested that that was somehow evidence of Ofcom taking into account
33 the innovation point, the extent to which you could get innovation from the existing active
34 remedy. Simply in context that evidence does not support that proposition.

1 High price – it was said that that is the worst possible thing. To that I would only add that
2 actually digging out a new infrastructure could beat it, it depends on the figures. Certainly,
3 high prices is the least good alternative apart from digging.

4 Geographical pricing - you have my point that there is not necessarily correlation between
5 the geography of the duct and the intensity of its usage. Actually, what matters, for the
6 purposes of the allegation that there would be disruption to the common cost recovery, is
7 the usage because, of course, it is the usage of a particular circuit that gives rise to the
8 margin and it is the margin that then attracts people in and they are then able to undercut
9 BT's prices if the logic is followed. So pure geography in and of itself is not going to
10 determine where the points of high common cost recovery are. Similarly, the suggestion
11 that you simply add on the intensity of usage for a particular duct and then add on more for
12 the geography risks substantially overstating the amount of common cost recovery that is
13 properly attributable to that particular duct, it is not a question of having both of them
14 together and coming up with double sums. What you would have to do is work out the
15 extent to which the geographical position, if at all, already reflected or did not reflect an
16 intensity of usage.

17 Non-disruptive pricing. I think it was suggested that we had not actually come up with what
18 would be a sensible proposition for non-disruptive pricing. It is true that we have not pinned
19 the tail on the donkey with the degree of accuracy that would be necessary. As I have made
20 clear from my opening that has not been part of my game plan, but we have, nonetheless,
21 made an effort to at least draw the donkey and provide a tail, whereas regrettably Ofcom are
22 saying: "We are not even going to play the game."

23 Next is providing information for regulatory providers, I have covered that.

24 I think it was suggested at one point that we did not identify with specificity the
25 modifications that would be needed to the active remedies, or I think this was actually part
26 of the jurisdiction point and, as I understood the point, had we troubled ourselves to say
27 which modifications were needed to the existing price control that would have been a
28 challenge to the existing price control and, for jurisdictional reasons it would have required
29 to go to the Competition Commission.

30 So, if I have articulated the argument correctly, our response is simply this: it is true; we
31 have not articulated what modifications would be needed to the existing price control
32 because those were set at the end of the process. What we say is that earlier on in the
33 process you should have identified the fact that modifications could, in principle be made
34 and allowed those modifications to permit a complementary passive remedy to be imposed.

1 So there was space for that decision making process to take place. It did not happen and it
2 should have happened. You can phrase that in a number of different ways and I think my
3 learned friend, Mr. Beard, alighted on one. The reality is I tried to identify the legal hooks
4 that are relevant for that particular issue. None of those legal hooks means that you do not
5 have jurisdiction to deal with this issue. I have deliberately formulated the challenge so that
6 it is, I hope, within the scope of both the standard of review and the normal mechanisms for
7 review before this Tribunal, but also, more importantly within the scope of the grounds of
8 appeal that we formulated.

9 THE CHAIRMAN: Well, let us hope you are right.

10 MR. BEAL: Yes, and if I am not then you will rule it inadmissible.

11 THE CHAIRMAN: We are very near the end.

12 MR. BEAL: I am right up against the limit, I appreciate that. Could I ask you to look at para.
13 6.8(c) in the notice of appeal for the simple reason that also sets out how we have
14 particularly put the point. 6.8(c):

15 “Any possible impact of passive remedies on demand assumptions could and
16 should have been taken into account in the development of the price controls
17 imposed in the Decision.”

18 No passive access in London – factually, I am afraid, that is inaccurate. There is passive
19 access in London and, in any event, there is no evidence of that, it was simply Mr. Holmes
20 giving evidence.

21 Mr. Cullen, day 3, p.9 accepted that at least one factor in the decision was the absence of
22 demand, and we say that fits with the decision itself.

23 8.1.32 also confirms in the Decision that demand was a separate issue.

24 THE CHAIRMAN: This is Ground 4 now?

25 MR. BEAL: This is Ground 4. In relation to the suggestion that, even if that is reinforced by Mr.
26 Culham’s evidence at para. 66, if it is right that you cannot step into the regulator’s shoes
27 then there is a slippery slope with Mr. Holmes’ suggestion that you can simply turn round
28 and accept that there was a separate, entirely tenable discrete decision that can be upheld.
29 *BAA*, I think, sir, you have already got the point that the CC’s jurisdiction, it is a judicial
30 review of the CC’s jurisdiction, and therefore it is not comparable. You are the equivalent
31 of the CC for the purposes. Profound and rigorous scrutiny, a variety of other legal ----

32 THE CHAIRMAN: Sorry, I did not follow that. The *BAA* case?

33 MR. BEAL: The *BAA* case was a challenge to a decision of the Competition Commission on
34 judicial review grounds.

1 THE CHAIRMAN: Yes, all right. Leaving aside the judicial review and the merits appeal
2 difference, it is exactly the same, but the point being made was that the Competition
3 Commission was in that sense a regulator and the issue that Mr. Justice Sales was looking at
4 was whether the Competition Commission should have investigated more as to demand in
5 the south-east, as I recall. I can see the analogy.

6 MR. BEAL: Our point, simply put in relation to that, is that we are not saying in terms, “Here is
7 the final product, you have got some deficient reasoning here, that deficient reasoning can
8 be made good if you have taken into account this material”. What we are saying actually is,
9 “You addressed the wrong issue at the prior stage, you addressed the issue as to whether or
10 not passive remedies should be rolled out and whether or not they would disrupt active
11 remedies, but you did not address the question of whether or not they could be tolerated
12 alongside the existing suite of active remedies, or what modifications might be made to the
13 active remedies at that stage”.

14 It was said that I did not challenge Dr. Maldoom, or we did not challenge Dr. Maldoom, on
15 independence of factors - see Lilico 2, para.7.55 and 7.56.

16 It was also said that there was a duplication of kit. My learned friend Mr. Beard said there
17 would at least be duplication of kit. See Peplow, para.30 is the short answer to that one.
18 Capacity grabs: my learned friend Mr. Beard said that there was a risk of capacity grabs.
19 The evidence from Dr. Maldoom was that capacity grabs would at least allow you to go
20 from monopoly to duopoly. That is the answer to that.

21 It is said that it would be an irreversible remedy, and that was not challenged. In fact, I did
22 raise with Dr. Maldoom the prospect of time expiring on a duct rental and alternatively
23 revocation of the terms of occupation of the duct. Plus also, if you look in the WLA review
24 at para.7.13, bullet 4, there are capacity reservation rules.

25 In terms of the debate between ourselves and BT as to dual parenting rings and innovation,
26 may I leave you, please, to look at the evidence in the round and ----

27 THE CHAIRMAN: If you have a final rhetorical flourish, Mr. Beal!

28 MR. BEAL: I am not sure I have got one at the moment! You may have bled the well dry, I am
29 afraid!

30 It remains for me to thank you very much for allowing me the five minutes in the timing
31 schedule, and unless there are any further questions, like the Forth Bridge I am now
32 finished, because, in fact, that was my rhetorical flourish! The Forth Bridge is, in fact,
33 finished!

34 THE CHAIRMAN: Does anybody else have anything they wish to apply for? No.

1 MR. HOLMES: Does the Tribunal have any applications in mind that are necessary at this stage,
2 just to check!

3 THE CHAIRMAN: Not after day 22. Of course, we shall reserve judgment and we shall deliver
4 judgment as soon as is reasonably possible.

5 Thank you very much to counsel and to everybody else. Thanks particularly to counsel for
6 the comprehensive and courteous way in which you have presented your cases and your
7 responses and the way in which you had the patience to deal with our often very naïve
8 questions. Thank you very much.

9 _____

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31