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IN THE COMPETITION
APPEAL TRIBUNAL

Case No: 1381/7/7/21

Salisbury Square House
8 Salisbury Square
London EC4Y 8AP

Monday 29th January – Friday 22nd March 2024

Before:
The Honourable Mr Justice Waksman

Eamonn Doran

Derek Ridyard

(Sitting as a Tribunal in England and Wales)

BETWEEN:

Justin Le Patourel

Class Representative

v

BT Group PLC

Respondent

A P P E A R A N C E S

Ronit Kreisberger KC, Derek Spitz, Michael Armitage, Jack Williams and Matthew Barry (On behalf of Justin Le Patourel)

Daniel Beard KC, Sarah Love, Daisy Mackersie, Natalie Nguyen and Ali Al-Karim
(On behalf of BT Group PLC)

Jennifer MacLeod (On behalf of the Competition & Markets Authority)

Monday, 12 February 2024

(10.30 am)

THE CHAIRMAN: Good morning. Some of you are joining us live stream on our website, so I must start, therefore, with the customary warning: an official recording is being made and an authorised transcript will be produced, but it is strictly prohibited for anyone else to make an unauthorised recording, whether audio or visual, of the proceedings, and breach of that provision is punishable as a contempt of court.

We propose to go straight to the hot tub. We have received and read Dr Jenkins' third report dealing with the matters with Mr Parker's fifth report. We have also seen the correspondence arising out of Mr Cackett's evidence in relation to any possible allocation of costs, which is essentially a limb 1 issue. If there is anything that needs to be said about that, we will deal with that at the end of the day but not now.

MS KREISBERGER: Sir, I am grateful. I think the only thing I should say is that the internal BT documents that we circulated on Friday, that is the PowerPoint slide and the spreadsheet, those are documents which the experts will refer to in the hot tub over the course of the next few days in relation to market definition, so I was going to make a few brief points on those, just to

1 explain how those documents have been identified.

2 THE CHAIRMAN: Well, do we need to know how -- they are
3 there, and you have them, and the experts have seen
4 them. I am not sure we need to hear anything more about
5 it --

6 MR KREISBERGER: Well, we received a letter --

7 MR BEARD: They have come out of disclosure. We are not
8 objecting to them being available. The point we make in
9 relation to them is one has to have real concern in
10 relation to documents which raise matters that are being
11 put for the first time to experts, when they were not
12 put to factual witnesses, so that they could be put in
13 context or questions asked about them.

14 THE CHAIRMAN: I understand the point that is being made
15 there, and that may be largely a matter for submissions
16 at the end of the day. If there is something more
17 specific that the Tribunal is being asked to do, we can
18 deal with that at the end of the day, but in any event,
19 it appears to be common ground that, firstly, the
20 experts can look at them and we can look at them, and,
21 secondly, the experts apparently have looked at them.

22 MS KREISBERGER: We are content with that.

23 THE CHAIRMAN: We will see where they go in terms of the
24 points that are made by way of the experts in the
25 hot tub. That may or may not cause us to ask some more

1 questions, or it may be something that can be left to
2 cross-examination.

3 MS KREISBERGER: I am very grateful.

4 THE CHAIRMAN: Right. Good. Thank you very much indeed.

5 Can we then have the experts sworn or give their
6 affirmations, please.

7 MR MARTIN DUCKWORTH (affirmed)

8 MR DAVID PARKER (affirmed)

9 DR HELEN JENKINS (affirmed)

10 THE CHAIRMAN: Thank you all very much indeed. You have had
11 the list of questions and you will see, from the
12 protocol, the way in which we are going to proceed in
13 relation to each section is that Mr Ridyard will lead
14 the questions, then Mr Doran and/or myself will come in
15 at appropriate moments.

16 MR BEARD: Sorry, sir, it is a triviality, perhaps, but the
17 experts have not actually sworn -- testified to their
18 expert reports. If we can take that as read on the part
19 of all of them, I think we have no objection that they
20 are treating them as true to the best of their knowledge
21 and belief.

22 There is, I understand from Dr Jenkins, one
23 correction she wanted to make to a report. I think we
24 can leave it for the moment, it does not need to break
25 up the flow of questions, but obviously formally all of

1 those reports --

2 THE CHAIRMAN: We might need to get them formally to depose
3 to it, but let us get started and we can tidy it up
4 later.

5 MS KREISBERGER: We have some very minor corrections which
6 can also be addressed at a later point on the joint
7 statement.

8 THE CHAIRMAN: Right, I think -- actually, just let me ...
9 (Pause)

10 I think what we are going to do is we will actually
11 take the more conventional course. What I will ask,
12 starting with you, Ms Kreisberger, is just to get both
13 Mr Duckworth and Mr Parker to confirm their reports and
14 deal with any corrections, whether they are in there or
15 in the joint statement, and then I will get Mr Beard to
16 do the same for Dr Jenkins.

17 MS KREISBERGER: I am very grateful. Thank you, sir.

18 THE CHAIRMAN: Then we have got it out of the way.

19 Examination-in-chief by MS KREISBERGER

20 MS KREISBERGER: Starting then with Mr Duckworth, if I may.

21 I realise the positioning is a little awkward as I am
22 speaking to the back of Mr Duckworth's head, but
23 Mr Duckworth, you should see there a bundle E, folder 2.
24 It is labelled "Tab 6-12.1". Mr Duckworth, do you see
25 your report there behind tab 6?

1 MR DUCKWORTH: Yes, I do.

2 MS KREISBERGER: Is that the front page of your report?

3 MR DUCKWORTH: Yes, it is.

4 MS KREISBERGER: If I could ask you to turn to page 144 of
5 that document. That is the Opus numbering. No, I am
6 sorry, that is the wrong document. Sorry, we are just
7 trying to -- there we go, it is page 95 of that
8 document. Mr Duckworth, is that your signature there?

9 MR DUCKWORTH: Yes, that is my signature.

10 MS KREISBERGER: Mr Duckworth, the contents of the report,
11 do they represent your true and complete view at the
12 time you wrote it?

13 MR DUCKWORTH: Yes, they do.

14 MS KREISBERGER: If I could then ask you to turn to the next
15 tab, tab 7. Is that your reply report there,
16 Mr Duckworth?

17 MR DUCKWORTH: Yes, it is. {E/7/1}

18 MS KREISBERGER: Could I ask you to turn to page {E/7/77} of
19 the document.

20 MR DUCKWORTH: Yes.

21 MS KREISBERGER: Is that your signature, Mr Duckworth?

22 MR DUCKWORTH: Yes, it is.

23 MS KREISBERGER: Are the contents of this report your true
24 and complete view at the time you wrote it?

25 MR DUCKWORTH: Yes, it is.

1 MS KREISBERGER: Thank you, Mr Duckworth. If I could ask
2 you to turn up the joint statement, that is at
3 {OR-E/49/1}. Mr Duckworth, what is recorded there under
4 your name in the joint statement, does that represent
5 your true and honest view at the time the statement was
6 settled?

7 MR DUCKWORTH: Yes, it does.

8 MS KREISBERGER: Thank you very much, Mr Duckworth.

9 If I could move to Mr Parker.

10 Mr Parker, you should have there bundle E, folder 1,
11 marked "Tabs 1-5". If I could ask you to move forward
12 to tab {E/3/1}.

13 MR PARKER: Yes.

14 MS KREISBERGER: Is that your report, Mr Parker, for trial?

15 MR PARKER: Yes, it is.

16 MS KREISBERGER: If I could ask you to turn to page 267,
17 please. {E/3/267}

18 MR PARKER: Yes.

19 MS KREISBERGER: Is that your signature, Mr Parker?

20 MR PARKER: Yes.

21 MS KREISBERGER: Do the contents of this report represent
22 your true and complete view at the time you wrote it?

23 MR PARKER: Yes.

24 MS KREISBERGER: Could I ask you, Mr Parker, to turn to the
25 next tab, tab {E/4/1}.

1 MR PARKER: Yes.

2 MS KREISBERGER: You see there "Corrigendum to Parker 3".

3 MR PARKER: Yes.

4 MS KREISBERGER: Could I ask you to turn to page 4 at the
5 back of that tab. Is that your signature, Mr Parker?

6 MR PARKER: Yes.

7 MS KREISBERGER: Does this corrigendum represent your true
8 and complete view at the time you wrote it?

9 MR PARKER: Yes.

10 MS KREISBERGER: Mr Parker, could you turn to tab {E/5/1},
11 please. Is that your reply report dated
12 10 November 2023?

13 MR PARKER: Yes, it is.

14 MS KREISBERGER: Could I ask you to turn to page {E/5/189},
15 please.

16 MR PARKER: Yes.

17 MS KREISBERGER: Is that your signature, Mr Parker?

18 MR PARKER: Yes, it is.

19 MS KREISBERGER: Dated 10 November 2023?

20 MR PARKER: Yes.

21 MS KREISBERGER: Do the contents of that report represent
22 your true and complete view at the time you wrote it?

23 MR PARKER: Yes.

24 MS KREISBERGER: Thank you. Can I ask you lastly to turn up
25 the joint statement. {E/49/1}

1 MR PARKER: Yes.

2 MS KREISBERGER: Mr Parker -- ah, Mr Parker, we have some
3 corrections so I will take you through those first, if
4 I may.

5 MR PARKER: Yes.

6 MS KREISBERGER: I believe you have a correction at
7 paragraph 5.2.19(e). That is page 75 of the Opus
8 bundle. {E/49/75}

9 MR PARKER: Yes, that is right. So in the first paragraph,
10 where I refer to BT commitments being "the single
11 largest price increase", that should say "price change".
12 So to replace "increase" with "change".

13 MS KREISBERGER: Thank you, Mr Parker.

14 We are going to go back, I believe, to 3.1.1 on page
15 {E/49/7}.

16 MR PARKER: Yes. Yes, where I say:

17 "There is also no evidence to support the suggestion
18 that BT's pricing ... was intended to encourage the
19 take-up of bundled services by customers."

20 It should replace "There is also no evidence to ..."
21 with "The data does not suggest that BT's pricing ..."

22 THE CHAIRMAN: Can we have that again, please?

23 MR PARKER: I am sorry. It should replace "There is also no
24 evidence to support the suggestion that ..." with "The
25 data does not suggest that ..."

1 MS KREISBERGER: Mr Parker, I think that just tracks through
2 to paragraph 6.2.3 on page 89?

3 MR PARKER: Yes, that is right. At the bottom of page 89:
4 "The data does not suggest that ..."

5 MS KREISBERGER: Lastly, paragraph 7.1.1 on page {E/49/115}.
6 (Pause) I think is it the last paragraph there under
7 your name.

8 MR PARKER: Do you mean 7.3.1? No.

9 MS KREISBERGER: I have got -- I think it is on page 115,
10 the last paragraph under your name. That should be
11 7.1.6, I think.

12 MR PARKER: Yes, that is right. So in the second line
13 I replace "evidence" with data".

14 MS KREISBERGER: Thank you, Mr Parker.

15 MR PARKER: Thank you.

16 MS KREISBERGER: Subject to those corrections, what is
17 recorded in the joint statement under your name, does
18 that represent your true and complete input in response
19 to those propositions?

20 MR PARKER: Yes.

21 MS KREISBERGER: Thank you very much, Mr Parker.

22 Examination-in-chief by MR BEARD

23 MR BEARD: So Dr Jenkins, I am just going to take you to the
24 references to what I understand are your reports. So
25 first report, {IR-E/17/1}, dated 29 September 2023. If

1 we could jump forward to {IR-E/17/332}. So Dr Jenkins,
2 is that your signature?

3 DR JENKINS: Yes, it is.

4 MR BEARD: Is this your first report?

5 DR JENKINS: It is my first report.

6 MR BEARD: Subject to one correction, is it true to best of
7 your knowledge and belief?

8 DR JENKINS: Yes, it is.

9 MR BEARD: Thank you. Dr Jenkins, let me take you to the
10 second report before I come back to the correction, so
11 that is in {IR-E/18/1}. So this is a report dated
12 10 November 2023, and if we skip through to page 234,
13 {IR-E/18/234}, is that your signature?

14 DR JENKINS: It is.

15 MR BEARD: Is this your second report?

16 DR JENKINS: Yes, it is.

17 MR BEARD: Is it true to the best of your knowledge and
18 belief?

19 DR JENKINS: It is.

20 MR BEARD: We have also got the joint statement, so if we
21 could go to -- I am sorry, I should perhaps deal with
22 the third report that you have just lodged, {E/18.1/1},
23 please. So this is dated 11 February. If we go to page
24 {E/18.1/16}, is that your signature?

25 DR JENKINS: Yes, it is.

1 MR BEARD: Is this third report true to best of your
2 knowledge and belief?

3 DR JENKINS: It is.

4 MR BEARD: Thank you. If we could just go to the joint
5 expert statement, so that is at {OR-E/49/1}. If we go
6 down to page 16 in this. I am hoping I have got that
7 right. No, I have not {E/18.1/6}. Is that your
8 signature, Dr Jenkins?

9 DR JENKINS: Yes, it is.

10 MR BEARD: Are your contributions to this joint expert
11 report true to the best of your knowledge and belief?

12 DR JENKINS: Save for one correction I will make, but yes.

13 MR BEARD: So you indicated there was one correction in
14 relation to the first report that you had, and
15 I understand it is in relation to figure 5.19.

16 DR JENKINS: Yes, that is correct.

17 MR BEARD: That is {IR-E/17/155}. So this is a table that
18 was shown in the course of proceedings already. Could
19 you just explain what the correction is in relation to
20 it, please, Dr Jenkins?

21 DR JENKINS: Yes. In the process of preparing some of the
22 data schedules that the chairman requested at the
23 beginning of proceedings, we, my team, detected a
24 spreadsheet error that affected the proportion of losses
25 to BT where -- of people leaving SFV to competitors, so

1 we have updated that, and the corrected figure has
2 been -- I think will be supplied to the Tribunal in the
3 data pack that you will get, because I think that was
4 one of the questions was around this, can we also
5 prepare a reversion of this, but it will be -- the
6 corrected version will appear in the submission we made.

7 There is also a correction I want to make to
8 paragraph 5.83 which I think is on the next page,
9 {IR-E/17/156}.

10 MR BEARD: No, I think it is further down the same page.

11 THE CHAIRMAN: Sorry, to interrupt, Dr Jenkins, but does
12 that mean a change to your figure 5.19?

13 DR JENKINS: Yes, I am going to tell you what the summary
14 effect of that is, which is in the text just below, and
15 then you will see the year-by-year changes, but I
16 think -- it is not a big change, but ...

17 THE CHAIRMAN: But you are going to provide a new version of
18 the table?

19 DR JENKINS: In the document I think you are going to
20 receive, which will hopefully be agreed, which has all
21 the data, so you will receive that there.

22 THE CHAIRMAN: Thank you.

23 I am sorry, counsel was taking you to an amendment
24 to 5.83.

25 MR BEARD: It is just above.

1 DR JENKINS: So it is the last sentence, the last full
2 sentence, which starts "At the same time ..." Instead
3 "of 8.8%" of BT's SFV base on average, it should read:
4 "10.4%" of BT's SFV base on average over the same
5 period left BT for one of its competitors."

6 THE CHAIRMAN: Just a moment. At the same time ... Yes.

7 DR JENKINS: 10.4%.

8 THE CHAIRMAN: Thank you.

9 MR BEARD: Dr Jenkins, you mentioned a correction in
10 relation to the joint expert report. Was that
11 a concomitant change to that?

12 DR JENKINS: No, that is a different transcription error.

13 MR BEARD: Could you indicate which paragraph?

14 DR JENKINS: Yes, so it is page 249 of the joint statements.

15 MR BEARD: So that is {OR-E/49/249}. Is that the right
16 place?

17 DR JENKINS: That is the right one. So this is in the line
18 of table 1, which is "Recapture rate in HJ2", which you
19 can see there. Second from the bottom of that table.
20 In transcribing from that, the results in HJ2 to this
21 table, the wrong cells were picked up, so there are some
22 minor half a percent error in those numbers. I can tell
23 you the corrected numbers or I can direct you to where
24 the correct numbers are in HJ2.

25 MR BEARD: Perhaps if you could do the latter and then we

1 can simply read across from HJ2.

2 DR JENKINS: Yes.

3 MR BEARD: Thank you.

4 DR JENKINS: So they should be the numbers from HJ2,

5 Figure 3.5.

6 MR BEARD: So that will be 48, I think?

7 I think maybe page 54, let us try that.

8 {IR-E/18/54}.

9 DR JENKINS: Yes, 54 bundle reference. There we go. Yes.

10 So we see the numbers above the line there, the 50%,

11 47.8, 44.2, 37.3, those are the numbers that should be

12 in that line of that table. They are not very

13 different, so I do not think it changes any of the

14 conclusions, but just to have the correct data

15 references.

16 MR BEARD: I am grateful. I understand, Dr Jenkins, you do

17 not have any other corrections in relation to those

18 matters?

19 DR JENKINS: No. That is it.

20 MR BEARD: I think there is one issue, it may be that

21 Ms Kreisberger is about to stand to deal with it, but

22 I am not sure that Mr Parker was actually sworn in

23 when --

24 MS KREISBERGER: Yes. Mr Parker points this out to me. He

25 is doing my job for me. So if we could go to

1 Mr Parker's fifth report. Mr Parker I think you have it
2 there in hard copy.

3 MR PARKER: Yes.

4 MS KREISBERGER: Is that your fifth report?

5 MR PARKER: Yes, it is.

6 MS KREISBERGER: Could I ask you to go to the last page,
7 page 23, {E/5.1/23}. Is that your signature, Mr Parker?

8 MR PARKER: Yes, it is.

9 MS KREISBERGER: Does that report represent a true and
10 complete account of your views at the time of signing?

11 MR PARKER: Yes.

12 MS KREISBERGER: Many thanks, Mr Parker.

13 THE CHAIRMAN: Thank you. With those matters complete,
14 before Mr Ridyard starts the questioning, as I think you
15 all know, you will, after the relevant hot tub sessions,
16 be released from your purdah prior to cross-examination.
17 Subject to that, when we have breaks, and we will have
18 a break mid-morning and mid-afternoon, you of course are
19 not released and you must not discuss the case or your
20 evidence until you reach the point when you are
21 released. Thank you very much.

22 Can I invite Mr Ridyard to start then, please.

23 Questions by THE TRIBUNAL

24 MR RIDYARD: Before we start on the questions, just a couple
25 of brief introductory comments. As you know, I am going

1 to be posing the questions in the first instance, and,
2 it is obvious, but make sure your responses are to all
3 three of the panel members, because obviously we are all
4 very much involved in analysing the evidence.

5 The second one is that we are going to go sort of
6 sequentially, when we go through the questions, as to
7 who goes first, so we will go BT and Class
8 Representative more or less alternating, but there are
9 one or two places where it makes sense to start with one
10 particular individual.

11 The third point I just make is that, as you know,
12 your primary duty as experts is to assist the court, and
13 we definitely need assistance, so we will be taking that
14 duty very seriously and we expect you to be doing the
15 same.

16 So the first set of questions are quite a broad set
17 of questions but we thought it would be useful to start
18 off -- we do not want to go into tremendous detail on
19 this first area, but we do want to ask some very general
20 questions, just to sort of situate some of what is going
21 to come later on, so that was the purpose of the first
22 set of questions, and it is just to try and understand
23 how these products that we are talking about fit
24 together with the other products which are involved in
25 the relevant markets.

1 So I think maybe Mr Parker, you might go first here.
2 Can you just -- we are interested in what are common
3 costs and what are not common costs essentially here.
4 First of all, what is the significance of the fact that
5 broadband and voice are provided through the same
6 physical connection to the household when we start to
7 look at the economics of these cases?

8 MR PARKER: Yes, so I think actually the best place to start
9 is with Dr Jenkins' report, so I think the key question
10 is whether the provision of the access product by
11 Openreach is a joint provision which can be used for
12 voice or broadband, or whether it is a single provision
13 that can be used for voice and a single provision that
14 can be used for broadband.

15 My understanding, and actually I bow somewhat to
16 Mr Duckworth who will be much more informed about this,
17 is that BT use a single product for voice, also line
18 rental, and a single product for broadband, which is
19 called shared metallic path facility. Rivals to BT use
20 something called local loop unbundling, I think they
21 also refer to it as MPF, which was a joint product, but
22 BT basically purchased two separate products from
23 Openreach, BT Consumer, and that led -- leads to an
24 incremental cost, access cost, of providing broadband if
25 you are BT.

1 Then there are other incremental costs to providing
2 broadband, and perhaps we could go to Dr Jenkins' report
3 at figure 5.5, which is on internal reference 134
4 I believe.

5 THE CHAIRMAN: Is this the first report?

6 MR PARKER: This is HJ1 at 134 {E/17/134}. You can see
7 there the yellow line on Figure 5.5, and there are
8 similar lines on Figure 5.6, and, if you go over the
9 page, 5.7. But on Figure 5.5, the yellow line is BT's
10 direct broadband costs. So that is £10 a month, rising
11 a little bit, so £120 a year. You get -- this is
12 I think smoothed across all broadband products, but that
13 is the incremental cost to BT, direct cost, not indirect
14 incremental, but just direct cost of providing
15 broadband.

16 You can see, if you go back to 131, {E/17/131}, at
17 the bottom of the page, footnote 204. If you can go to
18 footnote 204, which is quite small text, but if you
19 could blow that up a little bit, we have there got the
20 reference to BT relying on wholesale line rental and
21 SMPPF to provide services, whereas Sky and TalkTalk, for
22 example, provide -- were operating under LLU, so ...

23 Then there is a similar reference at footnote 225
24 but we probably do not need to turn that one up.

25 So I think, if you like, the significance of the

1 fact that they are provided through the same line is
2 actually there is not much of a significance, because
3 broadband incurs an additional access cost, and
4 broadband incurs additional direct costs which
5 I understand are things like the Home Hub thing you get,
6 or the ...

7 MR RIDYARD: Of course, yes. But the actual -- you are
8 saying the line itself is an additional incremental
9 cost? If you are trading up from voice to a voice and
10 broadband bundle, there is an extra physical line that
11 ...

12 MR PARKER: There may not be an extra physical line, but it
13 is an extra product from Openreach incurring an extra
14 cost. Mr Duckworth will be able to give you a bit more
15 chapter and verse on that.

16 MR RIDYARD: Maybe Dr Jenkins, you could respond to that,
17 and we will come back to Mr Duckworth.

18 DR JENKINS: Yes. So I think Mr Parker has accurately
19 described how BT chose to purchase those wholesale
20 inputs from Openreach, however, the prevailing way in
21 which those products were supplied by rivals to BT was
22 through using LLU, or over time what was known as VULA,
23 when the fibre network was laid down.

24 So for the rivals in the market, they were
25 purchasing predominantly a wholesale product that

1 enabled them to sell both voice and broadband and other
2 services over that connection, and so from the
3 perspective of how the market was evolving, the fact
4 that you had a connection that enabled you to supply
5 multiple products over that line, and indeed at the time
6 I think at various points the LLU option became cheaper
7 than a WLR option, so if you were looking as to what was
8 a sensible way in which to run that business when you
9 are not part of that overall group, you purchased an LLU
10 or VULA product, which was therefore a joint -- allowed
11 for the joint offering of voice in bundles or voice
12 standalone or other products that would meet customers'
13 needs.

14 MR RIDYARD: But for BT, if we are looking at the costs
15 rather than the market it has to meet, it was an
16 additional cost because of the way they chose to do it.
17 There were two separate costs of voice and then
18 broadband.

19 DR JENKINS: That is right, and I have identified those
20 separately in the -- all the analysis. The direct costs
21 of the voice product, which is not just standalone fixed
22 voice but all voice, the revenue that BT attributed to
23 all voice would attract the WLR component, then the
24 broadband element, which would then be added in when
25 customers purchased a bundle, which included voice and

1 broadband, then the direct costs would be captured
2 through the SMPF, and then the other direct costs.

3 Similarly, for voice, there were other direct costs
4 on top of WLR that mostly related to call costs.

5 MR RIDYARD: Yes.

6 Mr Duckworth, do you want to add anything on that,
7 or there is no ...

8 MR DUCKWORTH: Just a few clarifications. Openreach
9 provided, as Dr Jenkins and Mr Parker said, two ways of
10 providing -- well, three ways actually of providing
11 broadband and voice services. So there was the option
12 of purchasing WLR and then SMPF which would allow
13 a local loop unbundling operator or BT to provide
14 a broadband over that same line that was provisioned for
15 wholesale line rental. That would require additional
16 equipment. So when you look at the direct costs of
17 sales of broadband, that is not only the SMPF charge but
18 also the equipment used by other divisions of BT, in
19 this case, to provide that broadband service to
20 BT Consumer.

21 In terms of MPF, Dr Jenkins said at times the MPF
22 charge was lower than the WLR charge. That also
23 reflects the fact that MPF charge is only paying for the
24 copper line, whereas the WLR charge includes the cost of
25 the voice equipment which is required to provide

1 a service over that copper line. So when a provider
2 such as TalkTalk and Sky wanted to provide either
3 a voice service or a broadband service or a combination
4 over that MPF line, they were required to install their
5 own active equipment in BT exchanges. So the
6 differential between WLR and MPF needs to take into
7 account the fact that in order to provide a sort of
8 comparable service to WLR, you would also need to
9 provide some equipment in the exchange to do that.

10 The final sort of clarification is during the claim
11 period, there was a migration from what is called
12 standard broadband provided over SMPF or over MPF to
13 superfast broadband provided over VULA, and in that case
14 Openreach set separate charges for VULA which provided
15 the broadband component, and that needed to be purchased
16 either with a WLR service which provided the voice
17 service, or in some cases you could purchase an MPF
18 service and use that to provide the voice service but
19 not the broadband service. So rivals who wanted to
20 deliver superfast broadband were required to purchase
21 separate services to provide, or separate wholesale
22 services, one providing the voice component and one
23 providing the broadband component.

24 THE CHAIRMAN: Sorry, can I just ask a clarification of
25 that. Dr Jenkins said that in time the LLU became

1 cheaper, but can I just be clear about it, that if you
2 are BT, then if you have a bundle, you are providing
3 a bundle, you are buying WLR to service the voice
4 element.

5 MR DUCKWORTH: Yes, that is right.

6 THE CHAIRMAN: What is the product you are buying to service
7 the broadband element from Openreach?

8 MR DUCKWORTH: The service provided by Openreach is either
9 an SMPF service or a VULA service. However, that
10 service on its own is not enough -- that wholesale
11 service on its own is not enough to provide an
12 end-to-end broadband service, and so other divisions of
13 BT, who are not Openreach, would need to provide active
14 equipment and transmission from -- because both VULA and
15 MPF effectively are from the customer premises to the
16 exchange, and you need to provide sort of onward
17 transmission from the exchange to the core network.

18 THE CHAIRMAN: Right. But the distinction that was being
19 made between what BT have to pay for in terms of costs
20 and what its rivals have to pay for, its rivals are
21 using not WLR by itself. We were told it was one joint
22 product, effectively, wholesale product.

23 MR DUCKWORTH: Rivals did also use wholesale line rental to
24 provide a voice service, so they did not exclusively use
25 MPF to provide services.

1 THE CHAIRMAN: But the MPF is providing voice and broadband?

2 MR DUCKWORTH: It allows provision for both.

3 THE CHAIRMAN: Even though it is not everything, because you
4 said there is some other ...

5 MR RIDYARD: But they had to augment that with some kit that
6 they put into the ...

7 MR DUCKWORTH: Exactly.

8 THE CHAIRMAN: Thank you.

9 MR RIDYARD: So if we now step more broadly back, and we are
10 interested in getting an idea of what are the common
11 costs, not in sort of detail in terms of monetary
12 amounts, but just to understand what are the common
13 costs and what are not the common costs.

14 Maybe, Dr Jenkins, can you give us an overview of
15 which considerations you think fall in the common cost
16 bracket as opposed to costs which obviously can be
17 causally linked to one or other of the two services that
18 we are mostly talking about?

19 DR JENKINS: The common costs that I have identified
20 actually come from the SG&A and D&A groupings for
21 BT Retail. We could turn to annex 7 of my first report
22 to go through --

23 MR RIDYARD: But in general, it is a matter of the head
24 office costs and the marketing and sales and so forth.

25 DR JENKINS: That is right, so looking at components such as

1 marketing, but seeking to identify from that not the
2 elements of marketing that relate to specific campaigns
3 or specific products, but the general marketing which
4 relates to BT's own brand or its -- what it called
5 non-campaign marketing. It includes what was called
6 re-charges, also became known as TSO, which is the fact
7 that group provided services to the market facing units,
8 and so there was a re-charge of those central office
9 costs. So those are aspects of common costs which are
10 attributed to BT Consumer.

11 Again, in my analysis I did not seek to attribute
12 all elements of these cost categories from SG&A, but to
13 seek to make some educated estimate from the material
14 that was available of what proportion of those could be
15 assumed to be common for the purposes of this exercise.

16 MR RIDYARD: Just to go back to the previous question,
17 I mean, did you seek to make any common cost points out
18 of the wholesale costs of line rental?

19 DR JENKINS: No, I did not, because, as we discussed, the
20 way BT structured it, they were captured as direct costs
21 for voice and direct costs for --

22 MR RIDYARD: So they are separately identifiable and
23 therefore they were -- yes.

24 DR JENKINS: They were part of the direct costs which are
25 predominantly agreed between myself and Mr Duckworth.

1 MR RIDYARD: Yes. Okay.

2 Mr Parker, do you want to comment on that?

3 MR PARKER: Could I perhaps pass to Mr Duckworth first,

4 because this is more his --

5 MR RIDYARD: Certainly, yes.

6 MR DUCKWORTH: I would say that there are some common costs
7 between voice and broadband services. The question is
8 sort of the significance of those common costs. I think
9 there is disagreement between myself and Dr Jenkins on
10 the kind of the overall size of those fixed and common
11 costs. Clearly some elements, you know, production of
12 a paper bill and kind of postage which is sent to
13 someone buying both broadband and voice services. That
14 is clearly a common cost. It would be incurred whether
15 you were providing just a voice service or the two
16 together and then it does not really vary.

17 I think the issue is then when you get into some of
18 the costs, even sort of head office costs, to say that
19 those are completely fixed with respect to demand, you
20 know. My view is most of those costs are variable with
21 respect to demand in the long run, I think is the sort
22 of correct way of considering whether costs are fixed
23 and common, is to look at sort of long run variability
24 rather than short run variability. So even things like
25 people working in the finance side of BT, as there has

1 been increasing demand from either voice services or
2 broadband services, the current requirements of
3 BT Consumer for head office staff would change and then
4 that would lead to various costs becoming variable in
5 the long run.

6 MR RIDYARD: I guess some of those costs might depend on the
7 number of customers and some might depend on what the
8 customers buy --

9 MR DUCKWORTH: Yes.

10 MR RIDYARD: -- and ideally you would make a distinction
11 between those two things.

12 MR DUCKWORTH: Exactly.

13 MR RIDYARD: Yes, okay. Obviously we understand you
14 disagree with one another about the importance -- the
15 size of the common costs, and that is understood.

16 Are there any sort of clues or is there any
17 information in the way the products are priced that
18 yields some insights into common costs? Because that
19 would be one thing you might -- if you are looking at
20 a competitive market where there was bundling, you might
21 want to look at the incremental price of one product
22 rather than another, and maybe infer from that the
23 existence of common costs.

24 Dr Jenkins, do you think that is a fruitful thing
25 for us to do, to try and evaluate the common costs

1 question from the pricing side rather than from the
2 bottom-up costs side?

3 DR JENKINS: I think the pricing of bundles is a combination
4 of the demand and supply side elements, so I think one
5 can infer something from the ranking of the pricing, but
6 it is also going to be very much related to how these
7 competitive businesses thought customers would react to
8 that pricing. I think what you do see is that
9 standalone list prices for voice or broadband products
10 were higher than the incremental price of each of those
11 products once you looked at the price of the bundle, and
12 that might suggest that there are common costs that are
13 being recovered, because whether someone comes to you
14 just for voice or just for broadband, you have a higher
15 price than when they come to you for the two products
16 together.

17 I think, as I have set out at various points in my
18 reports, that rationale for bundling, that supply side
19 rationale for bundling is precisely that. Businesses
20 can want to pass on some of the cost benefits that come
21 to them from serving a single customer with two
22 products. We have already discussed the call -- you
23 know, the servicing of that customer in many ways may be
24 cheaper as a result of being able to supply two products
25 to them. The other aspect of bundling is in terms of

1 encouraging customers to take up multiple products with
2 you, and so that aspect of bundling incentives may not
3 fully reflect cost structures.

4 MR RIDYARD: Right, okay.

5 Messrs Parker or Duckworth?

6 MR PARKER: Shall I go first? Yes, I think in principle
7 the pricing of bundles reflects both demand and supply
8 factors, as does the pricing of SFV services.

9 The other thing that I think I would point to is
10 also potential market power in SFV services in terms of
11 thinking about the incremental broadband price. I mean,
12 if we go back perhaps to the Figure 5.5 of Dr Jenkins'
13 first report, which is page 134, {E/17/134}, we can see
14 there that the incremental starts -- it going into some
15 of the other points we will no doubt come to, but the
16 incremental prices being charged by Sky and TalkTalk are
17 very low, you can see people have free broadband type
18 offers there, prices of SFV or voice component that, in
19 my view, sort of floated up to match BT's price. That
20 allowed them some headroom, and they have used that to
21 offer very aggressive bundle prices. Because they are
22 looking at the combined cost of the bundle and they are
23 selling a combined price for the bundle.

24 I think what you see is sort of BT trying to be
25 competitive in that market and following the -- you

1 know, using an incremental broadband price, which is
2 actually in this, at least for 5.5, pretty close most of
3 the time to the direct costs of providing broadband,
4 sometimes slightly above, sometimes even slightly below
5 in order to remain I think competitive on the bundle as
6 a whole.

7 I am sure we will come to the incentive to move
8 people from an SFV product to a bundled product, but
9 I think I would treat the pricing decision for a bundle
10 as being very separate to the pricing decision for fixed
11 voice. I think you look at costs and the market
12 conditions for an SFV in one way, and then you look at
13 the total costs of the dual play product and the total
14 price as a separate issue.

15 MR RIDYARD: Okay. I will give you a chance to cover that.

16 I would just like to follow up briefly, Mr Parker. I
17 think that is an interesting answer, and one thing which
18 we wondered about was whether there would be some
19 information out of broadband only prices. Because with
20 voice only, obviously we understand the case is about
21 a claim that BT's got market power there, but with
22 broadband only, there is no claim that BT or anyone else
23 has market power there, I do not think.

24 So does that help us to distinguish between the
25 market power explanation and the efficiencies

1 explanation for the pricing that we see in the market,
2 given that, as I understand it, if I was to call up my
3 provider and say: oh, I do not use my voice line any
4 more, can I no longer have to pay the line rental?

5 I would get the answer of: no, you cannot.

6 MR DUCKWORTH: Could I interject on that one?

7 MR RIDYARD: Yes.

8 MR DUCKWORTH: Openreach had a requirement until recently
9 that if you wanted to enable a broadband service on
10 a line using either SMPF or a VULA service, you were
11 required to also have a wholesale line rental service
12 providing another line. So Openreach effectively said
13 you cannot buy a standalone broadband service on a line
14 without also providing the voice service over a
15 wholesale line rental. What that means is if you rang
16 up TalkTalk and said: I want a broadband -- sorry, if
17 you rang up BT Consumer and said: I only want the
18 broadband service, they would say: well, we have got to
19 provide a WLR service on the line so we will give you
20 the voice service as well.

21 So until recently it was not possible to buy
22 a standalone broadband service without having the voice
23 line enabled as well, and so the wholesale charges
24 reflected kind of the incremental costs of providing the
25 broadband once wholesale line rental was already there.

1 The other issue with the standalone broadband
2 services is that as the market was moving to bundles,
3 because from the perspective of someone like TalkTalk
4 and Sky who was using MPF, they did have effectively
5 common costs in order to provide voice and broadband,
6 they were very much incentivised to provide bundles of
7 voice and broadband, and in reaction BT Consumer was
8 also competing largely through providing bundles of
9 services.

10 So the standalone broadband services which BT was
11 required to provide separately from voice pre-2009, some
12 of those were sort of legacy services that had been
13 provided pre-2009 when BT Consumer was prevented from
14 bundling, and so may not be a perfectly comparable set
15 of broadband services to compare with bundles. So you
16 do need to be careful when saying I am going to come
17 back -- compare the costs of bundle services with the
18 kind of standalone cost of broadband and plus the
19 standalone cost of voice.

20 MR RIDYARD: But why has Openreach-has Openreach insisted
21 until recently that you must have the voice element?

22 MR DUCKWORTH: I think you would have to ask Openreach that
23 question. But historically the voice line was the
24 service provided to residential customers, and then when
25 broadband services were introduced, they were introduced

1 as an addition to the existing voice.

2 MR RIDYARD: Clearly we understand the history, but I just
3 wondered what it tells us about the economics of where
4 things are now.

5 Dr Jenkins, do you have a thought on that?

6 DR JENKINS: Yes, a few points to make. Maybe actually
7 going back first to Mr Parker's directing you to
8 Figure 5.5, and I just wanted to clarify that the BT
9 direct broadband costs estimate that I have made there,
10 yes, I think Mr Parker fairly did direct you to some of
11 the footnotes around that. I direct you to the page
12 previously, {E/17/133}, footnote 208. I am not really
13 saying one should read it all now, but basically what
14 that says is that in order to work out the cost of sales
15 for broadband, the information we have is aggregated
16 across all broadband products that BT is using, is
17 supplying, particularly for different speeds, and so the
18 input costs may be different for that.

19 So when you go to Figure 5.5 again, this -- but when
20 I presented the market prices, which is what I am doing
21 here, I have differentiated by the different speeds. So
22 it is not a perfect match, the broadband costs estimate
23 with the pricing that I have there, and certainly for
24 these lower speeds you might expect the broadband costs,
25 were I able to split them out, would be lower for the

1 lower speed products.

2 THE CHAIRMAN: Could I just interject one question. The BT
3 pricing there is higher than the Sky and TalkTalk
4 pricing. Are we comparing like with like, and is it the
5 case that their direct broadband costs are going to be
6 different from BT's?

7 DR JENKINS: A very good question. I was about to make that
8 point.

9 THE CHAIRMAN: Sorry, I interrupted.

10 DR JENKINS: So yes, they are like with like. So it is
11 saying what -- based on pure pricing data, so this is
12 the data is showing what are the prices being offered to
13 new customers, there was some discussion about that
14 earlier in the proceedings, and what the bundle price
15 is, including a promotional element of that that has
16 been smoothed over the contract period for that relevant
17 price. So it is trying to get at if you were purchasing
18 a bundle from BT, from Sky or from TalkTalk at the time,
19 what would be the average price over the contract
20 period, and subtracting from that the standalone voice
21 price that was offered at the same time.

22 THE CHAIRMAN: So when you talk about incremental broadband
23 monthly price, this is a reference to what would the
24 bundle price be for a new bundle customer who is
25 migrating from a voice only contract.

1 DR JENKINS: Yes, that is right, and it is capturing what
2 that customer, if they were doing the mental maths,
3 would work out was the additional cost they would pay to
4 add broadband to their voice offering from that
5 provider, and they are like for like, based on pure
6 pricing data.

7 You see that the TalkTalk data stops between 2016
8 and 2017, and that is because at that point TalkTalk
9 ceased advertising voice only products. You can no
10 longer calculate an incremental price for them.

11 Then to your point that what we do not know, what is
12 not in evidence is what were the direct costs that those
13 parties would have faced for providing those services
14 and, as we were discussing before, it is very likely
15 that BT's direct broadband costs are not a good measure
16 of that because these parties were very likely
17 purchasing the LLU products, certainly at this early --
18 the early period. They were incurring the additional
19 costs they would have to incur, but then that access
20 charge that was being paid to BT would be joint between
21 the voice and the incremental broadband product that was
22 being supplied, so their direct costs may be lower than
23 BT's, but there is no evidence to actually get a good
24 estimate of that.

25 MR RIDYARD: Yes.

1 DR JENKINS: However, the important point is, as
2 Mr Duckworth said, this is the competitive environment
3 that BT is operating in where it is facing Sky and
4 TalkTalk offering these much cheaper incremental
5 broadband prices at this time.

6 MR DUCKWORTH: Can I just make one clarification.
7 Dr Jenkins is right in this comparison, which is sort of
8 10 to 30 megabytes per second. These are services which
9 can be provided over MPF. When we look at the higher
10 speed services, TalkTalk and Sky could not provide those
11 over MPF and would be required to use a VULA service to
12 provide those services, and would have broadly the same
13 direct costs as BT Consumer, because BT Consumer is also
14 required to buy effectively the VULA service.

15 So for MPF there is a difference in how the service
16 has been provided between BT Consumer and Sky and
17 TalkTalk, but for VULA services or superfast broadband
18 services that difference fell away.

19 MR RIDYARD: Is that what Figure 5.6 is showing or looking
20 at? Or responsive to, at least?

21 DR JENKINS: I have got the same broadband cost estimate in
22 each chart because I cannot split it and match it to
23 speeds, but there, yes, you see all the providers are
24 charging higher amounts for that incremental cost.
25 I have done my best to match speeds and pricing through

1 pure pricing information.

2 MR RIDYARD: Okay. Then we had a question about the ASA
3 ruling in 2016 which has been discussed in quite a bit
4 of the evidence so far.

5 Dr Jenkins, do you think that changed the way
6 pricing was done, or did it explain anything on these
7 charts that you are showing us here, for example?

8 DR JENKINS: I think as I pointed out, at that -- basically
9 at that point, that is when TalkTalk actually ceased to
10 advertise a voice only product, perhaps reflecting the
11 fact that it was predominantly targeting attracting
12 customers, line customers to it, and was really only
13 interested in the bundle. So once the ASA prevented it
14 from citing the voice product, it decided to drop even
15 the offer of that product. I think other market
16 participants maintained a voice only product until
17 relatively late in the period.

18 I mean, whether it had a big impact on consumers,
19 I think there is some -- one of the pieces of evidence
20 I have put forward, which is called the events study,
21 which shows what happened when the BT commitments price
22 came in, and how -- as best I can estimate the behaviour
23 changed between voice only and split purchase customers.
24 There I did -- one of the sensitivity tests I did was
25 testing whether the ASA ruling was an alternative

1 explanation or influenced that, and that shows it did
2 not -- it was not that impactful, which would suggest
3 that consumers were able to do the mental arithmetic,
4 right. So if they could see the line rental price which
5 BT was -- and many of the rivals were advertising, and
6 the bundle price, they could calculate their incremental
7 price even if it was not being headlined any more in the
8 marketing material.

9 MR RIDYARD: So the rationale for the ASA ruling must have
10 been a concern at least that if you were offering
11 a bundle, you would distort the way you presented the
12 service to make the incremental price of broadband look
13 less than it truly was or should be, and therefore
14 removing that, you know, changing the law on the
15 advertising, if it had an effect, you would expect it to
16 increase the gap between the standalone voice and the
17 broadband price, but you are saying you do not think
18 that really happened?

19 DR JENKINS: The evidence does not seem to see a big change
20 at that point in time in the pricing behaviour with
21 respect to how incremental broadband prices were set,
22 which I think would suggest that customers could still
23 do that, it is still a meaningful driver of choice by
24 consumers, what the actual incremental cost was, even if
25 firms were no longer able to advertise that headline

1 rate.

2 MR RIDYARD: Mr Parker, do you have a perspective on that?

3 MR PARKER: Yes. I think several. Could we maybe turn
4 forward to page {E/17/140} of Dr Jenkins' first report
5 and Figure 5.12, and then there is also Figure 5.13.

6 So my view on the ASA is it is about how you
7 present -- it is a ruling about how you present what is
8 essentially a combined price. It could be: get
9 broadband for £5 a month if you pay £17.99 in line
10 rental. What the ASA is saying is: we do not like the
11 way that that is being split up, because the £17.99 is
12 kind of hidden in a footnote somewhere, you should just
13 say it is £22.99.

14 I think if you look at this chart, TalkTalk starts
15 doing something different, but BT and Sky basically seem
16 to do pretty much the same thing throughout, in terms of
17 their standard broadband monthly price. If you go down
18 to 5.13, then I think you see again the same sort of
19 thing. Things go up and down a little bit, but there is
20 not an obvious pattern or structural break as to why
21 things are different.

22 Similarly, 5.14, {E/17/141}. Again, I mean, it does
23 not really help because the timing is such that you move
24 to a new product. But for me, none of this is
25 suggesting that the ASA ruling had an effect on the real

1 combined price of the bundle. I think it just changes
2 the way the parties labelled different components.

3 MR RIDYARD: But you think it has changed the way that they
4 have labelled them?

5 MR PARKER: Well, they were able before to label it
6 £17.99 -- you know, £5 asterisk £17.99, and now they
7 have to say £22.99. So in that sense, yes, but
8 otherwise I think not in a material way.

9 MR RIDYARD: Yes. Okay.

10 MR PARKER: Might I just turn back to your previous question
11 on what we can draw from standalone broadband, with
12 apologies.

13 Could we go to my third report at page 80
14 {OR-E/3/80}. Do you want to maybe zoom in a bit, if
15 that is all right?

16 So this is a comparison of the total price paid by
17 a BT split purchase customer which is the red dots with
18 a variety of alternatives for buying the same services,
19 so you have the blue and the blue diamonds and the
20 yellow triangles are standard prices and promotional
21 prices as offered in the market from competitors. So if
22 the bundle market is competitive, that is the sort of
23 competitive price level.

24 Then you have split purchase, so the red boxes is
25 split purchase which is BT SFV service plus BT

1 standalone broadband. I have also put there TalkTalk
2 standalone broadband price as well. So you can see that
3 for the standard -- this is the standard broadband, so
4 this is a relatively low speed broadband -- you have
5 a gap between the blue, yellow and the green which is
6 due to SFV services. Then there is potentially an
7 additional gap between the green and the red which could
8 be considered to be some additional premium, shall we
9 say, that BT was able to charge for standalone broadband
10 for standard customers.

11 If we go to Figure 8 which is on the following page,
12 {OR-E/3/81}, then you see the same chart. There you see
13 actually there is much less of a gap between what is in
14 this case the red crosses and the red squares, so there
15 that suggests that this is Virgin Media's price for
16 superfast broadband on a standalone basis. So that is
17 suggesting there that the majority of the difference is
18 in the SFV services price.

19 I am not sure if that helps get to your question but
20 that is the --

21 MR RIDYARD: Maybe I am being a bit slow here but just go
22 back to figure 7. To what do you attribute the gap
23 between the red squares and the green dots? That is the
24 difference between buying -- the red dots is if I buy BT
25 voice and then separately buy BT Broadband. Whereas the

1 green one is if I buy BT voice and then TalkTalk
2 broadband.

3 MR PARKER: Yes.

4 MR RIDYARD: To what do you attribute -- clearly there is
5 a premium there, to what do you attribute that to?

6 MR PARKER: It could be that BT was also able to charge
7 a premium on standalone broadband. It is like due to
8 market power.

9 MR RIDYARD: But I thought there was no allegation --

10 MR PARKER: It is not part of the claim.

11 MR RIDYARD: No.

12 MR PARKER: But I think that could still be the explanation,
13 just has not being part of the claim from the very
14 beginning.

15 THE CHAIRMAN: The key difference you are drawing out here
16 is the difference between the split purchase red squares
17 and then either the list priced or promotional priced
18 bundle, dual play.

19 MR PARKER: Yes, that for me is the kind of key implication
20 of this data but we were talking specifically about
21 standalone broadband and what it shows you in this
22 context, but that for me is the key implication of this
23 data and the following chart and the subsequent charts
24 of this same nature, because you are talking about the
25 difference between voice and broadband taken separately

1 and voice and broadband taken as a bundle.

2 MR RIDYARD: No, I understand that. That is what you are
3 interested in doing this chart. But I suppose just more
4 generally, we are always looking for -- just looking
5 ahead of it, looking for competitive benchmarks and to
6 try and assess the reasonableness of pricing in this
7 context.

8 So what you are saying here is that -- because I had
9 kind of assumed it was an agreed position between the
10 parties that competition for broadband bundles mean it
11 is not perfect competition but it is effective
12 competition so we can sort of take comfort in that as
13 not explicitly defined as a benchmark by anyone here but
14 nevertheless that is a description of what workable
15 competition looks like with all its warts and all. But
16 here you are saying that you think this gap here is
17 a market power explanation rather than one of those
18 things that just happens to happen in workable
19 competition.

20 MR PARKER: No, I would distinguish between the blue and the
21 yellow which are the bundle prices and then the green
22 which is BT SFV plus TalkTalk standalone broadband. So
23 it is not -- and then the gap between the green and the
24 red is potentially market power that BT had or for some
25 reason was able to charge a price premium on the

1 standalone component relative to the standalone
2 component of TalkTalk. I do not think that has any
3 implications for whether the dual play prices were
4 a competitive benchmark for buying voice and broadband
5 but I think potentially the kind of the full difference
6 between that benchmark and BT SFV and BT, BT standalone
7 broadband is -- there is part of that gap is SFV and
8 part of it, the standard, for standalone broadband for
9 standard broadband speeds is also due to the difference
10 in the standalone price. I do not think that -- that
11 does not follow on Figure 8 because the gaps are very
12 much smaller and you will see if we jump on a bit later
13 you see the sort of similar --

14 MR RIDYARD: Yes, I will leave you a chance to comment on
15 that after the break, Dr Jenkins, because I guess you
16 might want to say something about it too.

17 THE CHAIRMAN: Thank you. We will take the break.

18 (11.47 am)

19 (A short break)

20 (12.04 pm)

21 MR RIDYARD: So Dr Jenkins, I was giving you an opportunity
22 to respond on that last point about this premium and
23 what it means.

24 DR JENKINS: Yes, I think your question started from what
25 can we infer about standalone broadband prices, and

1 Mr Parker took us to some of the analysis he had done of
2 the sum of certain standalone list prices, so it does
3 not actually show standalone broadband prices, and
4 I have not presented any direct evidence on that either
5 for you.

6 I think, thinking about how BT thought about it, it
7 is the case, as I think no doubt we will talk about
8 plenty, that when they were attributing bundle revenue,
9 they did attribute the full line rental price to the
10 voice aspect of that product, and then put the bundle
11 discount, effectively pass that through on the broadband
12 element of the product. So they did think of that dual
13 play price being a discount off the standalone broadband
14 price when they thought about that competition.

15 I think, as was suggested, there has not really been
16 any allegation that in the broadband market there is an
17 issue beyond workable competition and those -- it might
18 not be perfect, but the broadband element, there was
19 a lot of competitive constraint and competitive activity
20 that comes through the provision of broadband in bundles
21 particularly, but also in other ways by rivals.

22 I think, as you come through the period, towards the
23 end of the period is where we actually do see there is
24 more offerings of broadband only products. Virgin Media
25 I think recently has that. It is sort of tied in with

1 another aspect of the case, which is the fact that
2 people are using their fixed line much less frequently
3 for making calls. So they do not see that line any more
4 as a way to make calls, it is a way to connect so that
5 you get internet access, and people use their mobile
6 phones a lot more for making calls.

7 So actually in the latest period that we are looking
8 at in 2022/23, that is where I think you do see more
9 genuine standalone broadband packages in the market, but
10 I think I agree with -- I think it was Mr Duckworth
11 saying that early on in this period there really was
12 this sort of buy through element that you needed to have
13 a voice line in order to add on the broadband element to
14 it, and that is how the market was evolving.

15 So then just a final point, I will not go into a lot
16 of detail on what can you infer from the sum of the
17 standalone prices, other than to say that for the rivals
18 to BT, so where BT was supplying the voice service and
19 the rival was supplying the standalone broadband or
20 apparently standalone broadband to an SPC customer, that
21 product, that broadband product may well have been an
22 increment to the other services that were being provided
23 by the rival. So using list price analysis may well not
24 be the appropriate way to think about what the choices
25 were for SPC customers, and the survey evidence from

1 around 2016/2017 does show that the SPCs who were asked:
2 why do you have your voice service from BT --
3 effectively, since I think we all agree they have got
4 most of the voice element of this customer base -- but
5 your broadband from someone else? A very large
6 proportion of them said: because it is a good deal,
7 because it is cheaper for me.

8 So I think one needs to be very careful at looking
9 at a list price analysis where it may not fully capture
10 the promotions and deals that are on offer for broadband
11 from these other suppliers.

12 THE CHAIRMAN: Sorry, just picking up on that. I thought
13 you said that the rivals who were supplying ostensibly
14 broadband only to SPCs, I thought you said they might be
15 supplying something else as well?

16 DR JENKINS: For example, television services.

17 THE CHAIRMAN: That is what I was about to ask.

18 DR JENKINS: So both Sky and Virgin would have had a strong
19 incentive to add broadband, a broadband offer to their
20 TV offer which may have been attracting customers to
21 them. For Virgin, obviously voice would also come for
22 free as well.

23 MR RIDYARD: Yes, but they could also get voice from that
24 provider too, so there is still a puzzle as to why they
25 do not consolidate them all.

1 DR JENKINS: I think for Virgin, certainly they could get
2 voice. As I say, that was absolutely deliverable across
3 the cable technology. For Sky, I think Sky could choose
4 not to buy the WLR product and, in addition to its TV,
5 just have SMPF, and just add broadband to the TV bundle,
6 and then, having done that, then go for the voice
7 service as well.

8 So I do not think -- you know, obviously they could
9 also try to get both additional products, but I mean,
10 I think we all think the split purchase customers, you
11 know, it would be great to be able to have surveyed them
12 at the time to really understand what was going on in
13 their mind. There is some evidence but not a lot about
14 what the choice was and what offers they were being
15 made, but the evidence that is there does suggest that
16 they were getting offers that they perceived as
17 beneficial to split their purchase in that way.

18 MR RIDYARD: Okay.

19 I would like to sort of bundle up the next three
20 questions into one question, really. We are looking at
21 different ways in the other products, because I know
22 mainly we are talking about voice and broadband in this
23 discussion, but there are these other products too, TV
24 being quite an interesting product in itself, but also
25 the other variants of voice and the other products that

1 were available in the market.

2 Could I just ask Dr Jenkins, where do you see those?
3 What role is played by BT TV and Sport in this and the
4 other variants on the voice products? Should we be
5 treating them as something interesting or just as part
6 of the homogeneous mix?

7 DR JENKINS: No, I think you should definitely treat all of
8 that as interesting. I think they are important
9 elements of the competitive dynamics that were going on
10 in the market, and if we sort of take a step back to
11 think about what do we know about BT's strategic
12 direction through this period from 2009 when they were
13 allowed to offer bundled products, so at that point they
14 offer voice and broadband together, but they are facing
15 stiff competition from the other big rivals in their
16 market, Virgin Media, Sky in particular.

17 They have differentiated competitors. So they have
18 TalkTalk, who are in a sense competing on price on the
19 bundle more or less directly, they are not offering
20 a lot of additional services. Then you have Sky and
21 Virgin Media who have in effect more content that will
22 be accessible down this line, and they are competing to
23 capture the voice and broadband relationship with the
24 customer as the time -- as time goes on.

25 So BT recognises that in order to be able to compete

1 for these broadband customers, it also needs to be able
2 to offer that bundle service offering something that is
3 competitive with its main rivals in these markets while
4 also facing head-on competition on the products,
5 TalkTalk for voice and broadband bundles, but also the
6 Post Office for voice on a standalone basis.

7 So almost every aspect of how BT is engaging with
8 its customer base, it is seeing other rivals who are
9 competing head to head with it in that.

10 So BT is looking to ensure that its offer in the
11 bundle space is attractive in order to encourage its
12 customers to spin up, to take a bundle, if they are just
13 taking voice and that is all they are taking, but also
14 to spin to BT, if they are currently splitting their
15 purchase and taking the broadband element from someone
16 else, and also competing head to head in the bundle
17 market for other bundle customers to get them to come to
18 BT.

19 So I think the investments they made in TV and Sport
20 were very much associated with attracting and keeping
21 customer lines for their business in a very general way,
22 and that was seen as accretive to the revenue line of
23 the voice product broadly, the broadband product as
24 well. So that investment was paying off in terms of
25 the revenue that they would earn from voice and

1 broadband.

2 MR RIDYARD: So was BT Sport a sort of loss leader to
3 encourage people to buy telecom and broadband services?

4 DR JENKINS: Particularly broadband, yes, and over time they
5 have started charging directly for sport, but in the
6 early stage it was something that was particularly set
7 up and marketed as an attractor to taking broadband in
8 a bundle with BT.

9 MR DORAN: Just to pick up on your point. You said a moment
10 ago about customers were just taking voice, so that they
11 would spin -- I think you said spin to BT if they are
12 currently splitting their purchase and taking broadband
13 elsewhere. By increasing line rental, how does the
14 competitive dynamic of these other products and the
15 significant line -- well, the steady line rental
16 increases over this period, how do we fit this together?
17 Is this an overall package of revenue? How does its
18 work.

19 DR JENKINS: Yes, so I think BT is setting a system of
20 prices in each year when it is thinking about what it is
21 going to do, and it is facing constraints and
22 competitive dynamics in a number of ways. It is also
23 facing a decline in the calls elements, so calls revenue
24 is declining through this period. It has investment
25 needs to remain competitive in the broadly drawn

1 competitive arena, which is ensuring that its quality of
2 service for its voice is good, that it has attractive
3 products to offer to its -- to its customers in
4 competition with the other main rivals, and it is also
5 thinking about how the structure of pricing will
6 encourage its customers to take the services that it
7 wants through the bundling, saying: actually, what we
8 really want is to get people to take more services with
9 us, so we will structure our pricing so that the
10 incremental cost of the additional services is small.

11 So I think if you put that together where you have
12 an overall need to increase the revenue, and I think it
13 is not only that they are increasing the line rental
14 price, they are also increasing other prices through
15 this period because their cost base is going up. But
16 taken in the round, all those pressures mean that they
17 are having to increase prices, and they are doing it in
18 a way that is designed to meet that competitive dynamic
19 in the market to offer compelling services and encourage
20 the take-up of bundles.

21 MR DORAN: So you see for the voice customers these
22 differentiated products and the call deals being a very
23 important part of the overall picture we should see in
24 terms of competition. It is not all the line rental
25 question.

1 DR JENKINS: It is not all the line rental question.
2 Because while BT was, as you say, having a steady
3 increase in the line rental component, it was facing
4 declining call revenues overall, so the fact that they
5 needed to compensate for that. At the same time they
6 were observing customers leaving their voice only
7 product, and they did introduce the Home Phone Saver
8 product at that time. So that was in a sense saying,
9 okay, we see that the main direction of the competitive
10 dynamics in this market is towards bundled products, we
11 can see that generally, and we need to be competitive in
12 there because if we are not, you know, we are not going
13 to have any of these customers, they are all going to
14 leave us without that, but we do have other customers
15 who are not at the point that they are ready to spin up
16 to bundles, which many of the voice only customers were
17 moving to take up bundles during this period.

18 So for that, then they offered an attractive
19 differentiated bundle with additional voice services,
20 with call -- bundled call opportunities, if you like.
21 You can make many more calls and there will be no
22 incremental charge for those. They designed that as
23 a Home Phone Saver to target the interests of that
24 element of their customer base.

25 MR DORAN: Just on that point, just to be very clear, when

1 you mentioned "bundle" just now, you were actually
2 talking about a package of call-related services, not
3 broadband or anything else?

4 DR JENKINS: Absolutely. As I said, I got confusing. But,
5 yes, the Home Phone Saver package, which was additional
6 calls, some additional service level commitments, and
7 was precisely targeted at customers who, they said,
8 those not planning to take up broadband. It was for
9 those who wanted to continue as a voice only
10 relationship.

11 MR DORAN: Right. Thank you.

12 THE CHAIRMAN: We are shading, not surprisingly, into 1.2,
13 the next section. But before we do that formally, and
14 we know what you said, because a lot of what you said is
15 actually relating to 1.2 questions, can I just finish
16 off what I wanted to ask on 1.1, which is I note that
17 how you say the inclusion of things like Sport, TV, was
18 important for BT's competitive position in relation to
19 bundles. I follow that. But what does that have to do
20 for the pricing of SFV where they are not providing
21 a bundle, where they are simply providing a voice
22 service? What is the relevance to the competition in
23 the bundles to what they might decide to do pricing wise
24 on voice only?

25 DR JENKINS: So in the analysis that I have done, absolutely

1 the sports costs are part of the bundles, part of the
2 business, right? Like it is captured there. It is
3 relevant for thinking about the pricing of voice,
4 because effectively what the analysis that I have done
5 shows, and here, yes, leaping perhaps quite a long way
6 forward into part of the limb 1 analysis, but what can
7 explain part of the increase, the cost reflective
8 element of that increase, the fact that the increase is
9 a reasonable attribution of costs, is effectively that
10 more of the common costs get recovered from that product
11 because there has been deep investment that is going on
12 in the bundles market.

13 So the shift, what you need to be able to flex as
14 a business when you are facing these competitive
15 pressures, is how you recover your common costs may
16 change over time to respond to the competition that you
17 face.

18 MR RIDYARD: Mr Parker, anything to say on that at all?

19 MR PARKER: So quite a lot, but I am sure we will come to
20 much of it later.

21 I am not compelled by the idea in a competitive
22 market that if you are investing a whole bunch in, say,
23 bundles, TV, sport and so on, and you do not make so
24 much contribution on that, but in a competitive market
25 you would be able to increase your price of SFV

1 services. My view is there was a dual play bundle,
2 a triple play bundle, a quad play bundle. BT is
3 competing with rivals in those markets. It is setting
4 competitive prices in those markets. I think actually
5 the existence of bundles allows them to price
6 discriminate against the SFV customers because these
7 customers, by demonstrating they are still SFV, have
8 demonstrated that they are not terribly switchy, and
9 that has allowed BT to increase its prices year-on-year
10 up until the commitments were introduced, pretty much.

11 I do not think it is right to say that investment in
12 sport which does not benefit SFV should then lead to
13 price increases for SFV services, because customers on
14 SFV do not benefit from that, and I actually do not
15 think that in a working competitive market you would be
16 able to recover additional common costs. If SFV pricing
17 was competitive, making less money from bundles does not
18 somehow give you the ability, I think, to increase
19 the price of SFV.

20 There are many other points but I think I will stop
21 there for now, because we will ...

22 MR RIDYARD: We will indeed come on to those.

23 DR JENKINS: I would just add to that, though, that that
24 implies that somehow there are these SFV customers who
25 are very different from the bundle customers, and

1 I think that is the other piece I did not add there,
2 which is the other reason all this investment is going
3 on in sport and TV and all of those things is precisely
4 because customers that BT is serving are increasingly
5 attracted to the interconnectivity that is offered
6 through broadband and the additional services.

7 So it is precisely a customer who was a voice only
8 customer for whom the attractiveness of the bundle and
9 the relative pricing means they now move to BT's bundle
10 rather than a rival bundle, that is the risk that BT
11 faces, and it has to balance those while also investing,
12 and that is -- that dynamic rationale is what is driving
13 competition in this market. It is not the case that
14 there is this set group of SFV customers that can --
15 that are unmoved by the competitive activity that is
16 going on through being able to purchase voice through
17 a bundle.

18 MR RIDYARD: We will come on to that. They are not
19 necessarily mutually exclusive, it is possible there
20 could be a bunch of customers you could price
21 discriminate against whilst competing for other
22 customers in the bundles, but we will no doubt come on
23 to that.

24 I think we should probably switch to this
25 section 1.2, the questions of incentives to sell bundles

1 to SFV customers.

2 I think the first question I would like to ask,
3 maybe Mr Parker could go first on that, is: do we have
4 agreement on how you crunch the numbers, rather than --
5 I know we do not have agreement on how you interpret the
6 numbers having crunched them, but is there a common
7 position on the numbers, how you should be looking at
8 this?

9 MR PARKER: So is there a common position on the arithmetic?

10 I think the answer is yes. Is there a common position
11 on how you should be looking at it? I think the answer
12 to that --

13 MR RIDYARD: I think I knew the second bit, yes. Where is
14 the best place for us to go to look at the common number
15 on the arithmetic, the common view on the arithmetic?

16 MR PARKER: The joint expert statement in the annexes, which
17 is ...

18 MR RIDYARD: When I was going through those, I sort of
19 inferred that Dr Jenkins seemed to go last and therefore
20 she summarised the position for everyone, but was that
21 incorrect? No.

22 MR PARKER: I would go to the tables, possibly it is the
23 right thing to do because it is easier to see the
24 numbers. I think we have tables in ... my annexes,
25 I guess they are, from page 231, yes, that is page 231

1 of the Opus reference, running through to 237. Then
2 also from 253 in Dr Jenkins' annexes up to 256. So
3 those I think are our broad materials from the
4 discussion.

5 MR RIDYARD: Yes. But you agree with one another on the
6 arithmetic there?

7 MR PARKER: As far as I know.

8 MR RIDYARD: Yes, okay. That is progress. Okay.

9 Then maybe staying with you, Mr Parker, I guess the
10 most -- maybe one of the most important questions here
11 is when we look at this incentive, should we be looking
12 at it on the basis of gross margins, or margins after
13 allocating incremental costs, or indeed margins after
14 allocating incremental costs and the profit element?
15 I know you prefer the third of those approaches. Can
16 you explain why that is the case?

17 MR PARKER: Yes. So we are thinking about -- the starting
18 point is would BT want to put up the price of SMP
19 services in order to move people onto bundles? The
20 incentive for BT to do that, if it puts its price up and
21 loses a bunch of customers on SFV and recaptures them on
22 bundles, it will incur the direct costs on bundles of
23 certainly each customer, plus the indirect incremental
24 costs of serving that new group of customers. I think
25 you have to cover both of those. I think perhaps if

1 we -- I am sorry, sir.

2 THE CHAIRMAN: No, that is all right. I am thinking.

3 MR PARKER: So you need to cover the direct costs and the
4 incremental costs. I would say you should also try and
5 cover the margin -- you would need to cover the margin
6 as well in the sense of the direct costs incur you
7 a cost, the indirect incremental costs incur you a cost.
8 To satisfy your investors you need to make a return on
9 those costs. Perhaps if we move to a world where we
10 have zero common costs, just for illustration. I know
11 that is not the case and the number is disputed. But
12 zero common costs, I would need to cover my direct
13 costs, my indirect incremental costs, and I would need
14 to recover a margin.

15 I think there are two ways you could do that in
16 terms of conceptually but they come to the same place.
17 You could either say: the direct costs are 100, the
18 indirect incremental costs are 100, I need to make a 10%
19 return on that, so that is 200 plus 20, 220. That is
20 the sort of version 3 that you identify.

21 Or you could say: well, I make direct costs of 100
22 and indirect costs of 100, and I need to make
23 a sufficient return. So rather than looking at a sort
24 of: am I above 220? You say: how far above am I from
25 200? Am I making my 10% return? Then the important

1 question is: do I go above or below that 10%?

2 I thought that Dr Jenkins was also of the same view
3 about the importance of looking at long run costs if
4 you -- perhaps we could get up 229 of the joint
5 statement. {OR-E/49/229}. If we could bring up
6 footnote 20 which is a reference to Dr Jenkins' report:

7 "If a firm is pricing below LRIC [so that is direct
8 costs and incremental costs] it will not recover the
9 direct costs of providing the service and will be making
10 a loss on each sale."

11 So it will not recover -- sorry, strike that.

12 It will not recover the direct costs of providing
13 the service and will make a loss on each sale. So it
14 will not be recovering actually the incremental costs,
15 if you like.

16 So you certainly need to recover all the incremental
17 costs, and then I think it is a matter of both direct
18 and indirect, and it is a matter of debate as to whether
19 you say: do I hit my 10% target margin? Or 33% if you
20 are using Dr Jenkins' world.

21 MR RIDYARD: So this third element, the profit element, you
22 see it as a kind of cost of capital? That is what
23 I have to do to satisfy the investors to make it
24 worthwhile them continuing to back me?

25 MR PARKER: Exactly. Because if you had one world where

1 I have got direct costs of -- you know, direct and
2 indirect costs of 200, say, and I make 100 return on
3 that, or another world where I have 500 costs and I make
4 a return of 110, your investors are not going to be
5 terribly happy because you have incurred 2.5 times as
6 much cost for a very small additional return.

7 So I think you need to think about that margin as
8 a sort of cost from capital proxy, which is why we are
9 using return on sales here and a sort of asset light
10 industry. We cannot use a return on capital employed.
11 We are using return on sales to proxy that. It is
12 basically I think a sort of required return for the
13 investor and that is ultimately who you are having to
14 satisfy.

15 MR RIDYARD: Okay.

16 THE CHAIRMAN: I want to try and distinguish with you,
17 Mr Parker, and then when it comes to Dr Jenkins, when
18 she is asked some questions, perhaps she can give her
19 view on it.

20 It seems to me there are two contexts. There is the
21 sort of heavy duty, if I might call it this,
22 calculations of incremental and genuinely common costs,
23 apart from direct costs, which in different ways each
24 side has to engage with when we come to the limb 1
25 question. Then there is this question of calculating

1 profitability which has arisen, I will not say by a side
2 wind; it is important, but it has arisen in the context
3 where there is a suggestion that BT was seeking to
4 incentivise at least some of its voice only customers to
5 move to bundles.

6 Now, there is a factual question there, which I do
7 not think the experts can answer, which is: is that what
8 they were doing? We have had some evidence about that
9 last week and we will have to consider it. But, as
10 I understood it, Mr Parker, your riposte to that
11 suggestion was, well, they cannot or at least they
12 cannot rationally be regarded as seeking to incentivise
13 customer movement through increased prices because it
14 would not profit them to do so.

15 Now, in the context of that examination of
16 profitability, how important to the analysis is it if in
17 fact it turns out that, for the purpose of assessing
18 profitability on a sort of month by month basis, BT were
19 in fact simply using gross margin?

20 Or do you say -- let us just assume that is a given
21 for the moment. Let us assume that is all they did.

22 You may say it is unscientific, but let us assume that
23 is what they were doing month by month. What relevance
24 does that fact have, if it be a fact, to your approach?

25 MR PARKER: For me, a recapture incentive comes in at sort

1 of the fourth or fifth criticism I have of Dr Jenkins'
2 critical loss analysis. It is not an absolutely
3 critical part of my case. But if we take a bit of
4 a step back, the contention is I want to put prices up
5 of voice in order to shift people to BT bundles, because
6 it is more profitable for BT. But it seems to me -- and
7 in order to kind of make the relative price difference
8 not so much, so you put the voice price up, and then the
9 incremental price of broadband is not so much on top of
10 that.

11 But it feels to me that is a suboptimal strategy,
12 because if you want to achieve a relative price
13 difference you can either put this price up or you can
14 put this incremental price down. If you put this price
15 up, you run the risk of losing your voice customers to
16 other SFV, losing them to other bundle providers because
17 you have made them think about moving, or then you might
18 recapture them yourself.

19 Whereas if you put your dual play price down, say,
20 for the sake of simplicity, or the dual play example,
21 put the incremental price of the broadband down so the
22 dual play price as a whole becomes more competitive, at
23 that point you might move people from BT SFV, you might
24 move people from other SFV, and you might move people
25 from other bundles. So it seems to me it is a much

1 better strategy, if you want to reduce this relatively,
2 to increase -- to reduce the price of the bundle.

3 Now, if we are saying you cannot reduce the price of
4 the bundle because it is so competitive, that is also
5 telling me there is not much profit in bundles. So
6 I would have expected BT to come down to the competitive
7 level, because we are on the basis that bundles are
8 competitive, and then at that point this profit
9 incentive does not really seem to be there, because
10 bundles are competitive, because they are making the
11 competitive return on bundles.

12 So to the extent of you want to -- why would you
13 want to put your price up on SFV where you are making,
14 for these purposes, it would imply, a supra-competitive
15 return, some kind of supernormal profits on SFV, why
16 would you be doing that to have some prospect of getting
17 a competitive return on bundles, but you could also --
18 I think the phrase used earlier was you might "poke the
19 bear", right, you might be encouraging people to switch
20 who may not have switched and you will lose some of
21 them. Would it not be more sensible to cut prices on
22 dual play, because that way if someone is encouraged to
23 switch then, great, you will pick them up, and you might
24 pick up from other competitors in the market as well.

25 THE CHAIRMAN: Thank you.

1 MR RIDYARD: Dr Jenkins, I do not know how -- I am sure
2 there are several things you would want to comment on.
3 Maybe start on the gross margin point. You favour
4 looking at this on the basis of gross margins alone.
5 Why is that?

6 DR JENKINS: Because if we are thinking about pricing
7 strategies set on an even one to two year basis, so the
8 fact that BT -- you know, as you say, this will have to
9 be determined in evidence, but the fact that there is
10 evidence that BT did use gross margins is consistent
11 with that economic view of pricing which says, okay,
12 first of all you want to cover the direct costs that you
13 incur for different products, and then you look at
14 setting your prices with respect to the demand
15 conditions that you face such that you can recover your
16 common costs that are there, fixed and common costs.

17 So we have the grey area, I would say, around
18 indirect incremental costs. Now, in general, when we
19 are talking about pricing decisions, those are often not
20 included in that gross -- if you think about gross
21 margin, in the sense that while for other purposes we
22 might be thinking about that in a longer term
23 perspective, for the question of what is the right
24 pricing to do in the market over the next year, you
25 would not be able to vary those costs, and so you would

1 often include those in the fixed element that is then
2 recovered from the pricing that you do.

3 I think -- so there is a grey area around how one
4 treats indirect incremental costs. I think it is
5 certainly the case you would not add a contribution,
6 a margin on top of that for determining what the
7 relevant pricing incentives is. That is the output of
8 the process is telling you, you know, how much are you
9 going to be able to earn, and, in a sense, saying to an
10 investor: oh, because I might not make the full margin
11 on this product, even though I earn absolutely more cash
12 on supplying that product, I do not think saying it is
13 because you have got to tell your investor that you are
14 going to do this, because the question is, will you earn
15 that amount of margin? That is the question that we are
16 looking at here.

17 So you do not bake that in to your pricing incentive
18 to say, well, I do not have an incentive to seek to
19 move -- seek to strategically target this area of the
20 market.

21 MR RIDYARD: Is that right, though? Because you are
22 committing -- by persuading this consumer to trade up to
23 more stuff, you are committing more resources into
24 serving that consumer. So are you not at the same time
25 asking your investors to stump up a bit more cash to

1 help me do this thing that I am trying to do?

2 I know you do not have an explicit conversation with
3 your investor every time you make a marginal choice, but
4 is it so wrong to think of that as committing more
5 resource to the activity, and therefore sooner or later
6 you are going to have to satisfy your investors that
7 that was a good thing to do?

8 DR JENKINS: I guess it is that short-term/long-term
9 question that we are looking at here. So in general
10 when you are thinking about these pricing incentives you
11 would use a shorter term measure, in which case that
12 return on the capital investment is not generally seen
13 as one of those variable cost elements that you would
14 seek to recover.

15 MR RIDYARD: You say it is "not generally seen as". What
16 does that mean? What is the basis of that statement?

17 DR JENKINS: That if -- in a sense it is like if you are
18 deciding, am I -- which of these products do I want to
19 be committed to in the long-term, and you say, okay,
20 I am going to approach the -- I am going to look at what
21 the absolute gross margin is of these different
22 products, and especially in a case where in a sense
23 a customer is moving from one category to the next over
24 this time period, so in a sense, many -- if what you are
25 thinking is many of the costs associated with dealing

1 with that customer remain the same, right, like that is
2 part of your common costs, and they remain there, but
3 now I am going to earn more from this customer because
4 they are going to take an extra product from me, and the
5 average revenue I am going to earn from them is more,
6 then I am then going to be able to recover more from
7 that customer.

8 Now, to add in a benchmark margin on top of that and
9 then say, oh, because that margin is very high I am not
10 going to be interested in serving that customer, even
11 though their actual contribution to that is higher, I do
12 not think that is a practical way in which that
13 pricing -- those pricing decisions get made, and the
14 whole framework as we are discussing it, like -- is
15 a very static one. It is like there is this perfect
16 choice. I can choose whether I am going to have this
17 customer stay as a standalone fixed voice customer or
18 whether I am going to move them over to this other
19 product.

20 However, the risk that BT was facing, it was facing
21 a lot of competition for these customers, so it was
22 deciding where to invest in order to capture, maintain,
23 serve those customers well, and so that is the sense in
24 which, yes, it is investing, and it is investing to
25 attract customers to the higher gross margin absolute

1 value product. Otherwise they run the risk of losing
2 all the margin on that customer, because they are not
3 actually meeting the competitive needs of the customers
4 that they have.

5 MR DORAN: So if I have understood what you have said, and
6 please correct me if I have not, what you are saying is
7 the customers were at significant risk of moving, in
8 which case your question is a binary question: do you
9 try and serve them or not? The return to investors
10 point is a consequence of how you serve them and how you
11 invest etc. It is not a reason because you cannot stop
12 them moving. Is that the point you are trying to make?

13 DR JENKINS: Yes, that is right.

14 MR DORAN: Thank you.

15 MR RIDYARD: So if there was -- if it was the case that
16 there were a bunch of VOCs who we knew were never going
17 to take on a bundle, and therefore the only competition
18 there is between BT and other people who are providing
19 standalone voice services, if that was the case, and
20 I know you do not think that is the case, but if that
21 were, then would you look at this, would you be looking
22 at this question of these incentives differently in that
23 scenario than the one you are? How important is this
24 so-called strategic issue, in your assessment?

25 DR JENKINS: I think the predominant arena of competition

1 was that move to bundles, and so that is why the bulk of
2 the thinking on these questions is about that shift, and
3 the main investment direction that BT was engaged in was
4 around having a compelling offer to bundle customers.

5 However, it is not that I think there were not
6 potentially some customers even probably today who do
7 not find a broadband offer something that they need or
8 desire, the problem is you do not know who they are. So
9 when you are deciding what you are going to offer in the
10 market, you cannot say, directly, oh, well, this
11 postcode, well we know what they are going to do, they
12 are going to be our standalone fixed voice customers.

13 Now, what BT actually did was they did design
14 a product to allow customers to select into that, the
15 Home Phone Saver one, which was recognising that there
16 were customers who were not at the point where they were
17 ready to move on to a bundle. So the bulk of their
18 strategic direction was around the bundle market, but
19 they were not forgetting these customers.

20 MR DORAN: Sorry, when you say you do not know who they
21 were, as in who those who were not going to move from
22 voice only to bundle, do you mean you do not know the
23 proportion? Is it the proportion?

24 DR JENKINS: Literally you do not know who -- you know, you
25 have a set of customers who today are taking

1 a voice only, or at the time in 2016 were taking
2 a voice only service. They did not have broadband, they
3 were taking standalone fixed voice from you. You would
4 not be able to rely on the fact that they were going to
5 remain -- any individual one of them was going to remain
6 with you in 12 months' time on that SFV contract, right.
7 They were -- they could well have been considering their
8 options, and if you do not offer an attractive offer to
9 them, either on a voice product or on a bundled product,
10 they may move to one of the rival firms.

11 MR DORAN: So numbers in that class who were going to remain
12 voice only falling, numbers of calls falling, and then
13 pricing for those, is it that the point you are trying
14 to make? You do not know who they are and you do not
15 know what scale they are or will remain?

16 DR JENKINS: I think it was known they were declining and
17 so -- yes. But you do not know how fast that decline is
18 going to come. Or even to some extent I think BT were
19 thinking: the quicker we get them on to a bundled
20 product with us, the better chance we have of keeping
21 them with us for the long-term, because we are meeting
22 the needs in that area.

23 To the extent there were some customers that were
24 not in that group, then they had the Home Phone Saver
25 offer, which they absolutely did not advertise widely,

1 but used at the point that those customers were calling
2 in to say: I am really unhappy. Then, in a sense, they
3 self-identify at that point: okay, I am one of these
4 customers. Here is the offer which is right for you.

5 MR RIDYARD: So it sounded like you were at least sort of
6 more open minded on the question of whether the indirect
7 incremental costs should be allocated or not in making
8 this assessment. If we are going to do that, how should
9 it be done?

10 DR JENKINS: I think that is really the challenge for this
11 exercise that we are talking about. If we are thinking
12 about a merger assessment where you have a very similar
13 question -- questions come up about, well, what are the
14 pricing incentives of the merged firm afterwards?
15 Generally start from gross margin, at times might ask
16 some questions of the merging parties to try to decide
17 what other costs might be incremental for the increment
18 that you are looking at.

19 Now, here what is definitely the case is there is no
20 identification of indirect incremental costs that was
21 used by BT on a regular basis to inform its pricing. In
22 the annex that Mr Parker took us to, I have shown three
23 different ways in which those indirect incremental costs
24 could be allocated. The first of those, EPMU, is the
25 one that I used for my SAC combinatorial limb 1

1 analysis, and there are particular reasons that I chose
2 to do it that way to be conservative in that analysis.
3 It is not necessarily the case that that is the way
4 I think BT would do it.

5 I have also presented a customer basis and a revenue
6 basis as other allocators that were used at various
7 points in time --

8 MR RIDYARD: Sorry to interrupt, but when you are playing
9 with these different ways of doing it, what you are
10 trying to do is to identify what is incremental. What
11 actually changes as a result of serving more of these
12 customers. So what is the connection between the
13 different -- we know you present three different ways of
14 doing it and we know it comes to different outcomes
15 and --

16 DR JENKINS: Yes, what does it mean? I would say in one
17 sense the customer one, I know that is the one that
18 gives the same ranking, but the reason why that has
19 merit is precisely where you are thinking, oh, I want --
20 it is a customer relationship -- I want to keep that
21 customer relationship as I move from them being a voice
22 customer to being a bundle customer, right? I do not
23 think one can reject that as a reasonable basis on which
24 those indirect incremental costs would be recovered.

25 Similarly, revenue would be: well -- that goes

1 a little bit to this question we were saying before.
2 Well, actually what I am interested in is how much they
3 are going to contribute to my bottom line for my
4 investors so I will do it on a revenue basis.

5 EPMU is probably the least intuitive from the
6 perspective of pricing that we are talking about here.

7 MR RIDYARD: Unless you believe that indirect costs -- the
8 causality of indirect costs is comparable to the
9 causality of direct costs.

10 DR JENKINS: Absolutely.

11 MR RIDYARD: Mr Duckworth, this is more your thing, is it
12 not?

13 MR DUCKWORTH: Yes. I think -- Dr Jenkins talked about how
14 BT set prices, but the fundamental issue is trying to
15 capture those indirect incremental costs, which are on
16 the basis of causality, not thinking about -- have BT
17 thought about its pricing decisions in terms of revenue.
18 So I think it should be trying to estimate incremental
19 costs which reflect cost causality in the most sensible
20 way.

21 I think also a discussion of kind of the time
22 perspective. You are capturing customers for -- if it
23 is a subscription service you are capturing them for
24 quite a number of years, typically, and so you should be
25 looking at costs which could vary not from month to

1 month but over a longer time period. So, for example,
2 customer care staff. Yes, you cannot change the number
3 of customer care staff from one day to the next, but
4 over time you are -- so bundle customers, and they are
5 calling into the customer care centre more often than
6 SFV customers because they have issues with faults on
7 broadband or their TV set top box, then you should be
8 taking that into account when looking at profitability,
9 even on a contribution margin basis, of those different
10 customers.

11 MR RIDYARD: I can see that. But what does not jump off the
12 page at me is which one of these three accounting rules
13 for allocating direct costs best reflects causality.

14 MR DUCKWORTH: That is also not clear from the evidence that
15 we have.

16 MR RIDYARD: No, okay.

17 MR PARKER: If I might. So on the question of gross margins
18 versus sort of national contribution margin, at some
19 point you need to recover these incremental costs and
20 the idea that every year you say when you set my prices
21 for the next year or two and I will do that on a gross
22 margin basis, and then next year you say, having set my
23 price this year, I am going to set it for the next year
24 or two on the basis of gross margin, you never get to
25 recover your long-run incremental costs if you do that,

1 and that does not seem sensible.

2 So if you are going to take on a bunch of customers
3 on a dual play product for example and that has a
4 lifetime of 18 months to 2 years, you are going to say
5 what are the total costs I will incur in serving another
6 100,000 of those customers and you are going to set your
7 prices in respect of not just the direct costs but also
8 the indirect incremental costs that are incremental to
9 serving those customers.

10 I cannot see how one cannot think about that. It
11 may be that you look at gross margins and you have in
12 your mind that I need to make a certain gross margin to
13 start covering the incremental costs that apply to each
14 of these products. But ultimately it has to be about
15 incremental costs.

16 (Redacted)

17 MR RIDYARD: You need to be a bit careful about the
18 confidentiality of the second number; is that right?

19 MR BEARD: Yes.

20 THE CHAIRMAN: Yes, there is some yellow.

21 MR PARKER: Sorry, I will not talk about any of them. I am
22 going to talk about the ratios rather than the absolute
23 numbers. Sorry, apologies for that.

24 If we look at the next table, penultimate line, we
25 have, you can see costs at sort of 150/160 and then into

1 the confidential area.

2 So the relativity of in this case costs direct plus
3 indirect plus margin is about three and a half for
4 serving a bundle customer. So it is three and a half
5 times as costly to serve an average bundle customer as
6 it is to serve an average SFV customer.

7 If we can jump on to {OR-E/49/253} in the joint
8 statement. While Dr Jenkins does not report the per
9 line numbers, they are essentially the same in terms of
10 the relatively. So actually if you look at the SFV
11 services -- this one is fairly straightforward -- if you
12 divide the cost of sales number by the number of
13 customers maybe the easiest thing to do is to look at
14 2016/17 because the numbers do not change round that
15 much, it is about £100, and that is fairly consistent.
16 Then if you look at similar amounts for bundle customers
17 you are dividing, say, 2016, about 2.4 billion by
18 6.7 million. That is about 350. So we are talking
19 about again a ratio of about 3.5.

20 So actually these numbers -- these ratios will be
21 exactly the same because of using the approach that
22 Dr Jenkins has in her SAC combinatorial plus then just
23 scaling up by a margin is always going to give you that
24 ratio.

25 So what we have here is it costs you three and

1 a half times as much cost-wise to serve a bundle
2 customer as it is to serve an SFV customer but the
3 absolute, the absolute margin you get is you can see
4 from the difference in margin that -- the gross margin
5 that Dr Jenkins identifies is compared to the absolute
6 amount is about 30%, somewhere around that difference.

7 It seemed to me that is not a very large additional
8 profit for putting in £250 per customer even on a direct
9 cost basis compared to you would previously -- so you
10 are making £173 or whatever off the £100 costs for an
11 SFV customer and you are making 217 off the £350 costs
12 for a bundle customer. That is just on the direct cost
13 basis.

14 It seems to me your investors will care about the
15 returns that you are making. Another way of thinking
16 about this is the SFV services return is about 65%,
17 bundles return is about 35%. They vary up and down
18 a bit. But the contention is I want to put my SFV
19 prices up where I make 65% gross margin to push them on
20 to bundle where I make 35%.

21 MR RIDYARD: I suppose if you are looking at it in terms of
22 cash generated per customer, then you might still find
23 that attractive even though it is a much lower margin
24 business, you are just getting more cash out of that
25 individual customer. I understand what you are saying

1 about the effort involved and therefore in the
2 background the implications for investment cost.

3 I know we are very close to the lunch break. Sorry,
4 I just wanted to ask you, Mr Parker, to comment on
5 Dr Jenkins mentioned what do you do in merger control
6 when you are looking at unilateral effects analysis
7 because this topic of which margin to look at there, are
8 there any obvious lessons to learn from how it is done
9 when you look at this very similar issues at a different
10 context?

11 MR PARKER: Yes, I think I would not necessarily agree
12 that -- people do I think use gross margins in merger
13 analysis. I do not think it is the right thing to do.
14 I think you should generally use net margins. I think
15 to the extent there is some rationale for net or
16 contribution, however you want to think about it,
17 because that is the true profitability, but to the
18 extent that there is some rationale for doing it in
19 a merger case is because in a merger you have a kind
20 of -- the purpose of it is to create a structural break
21 in concentration in the industry and it is possible at
22 that point that you might be able to engage in some
23 short-term pricing behaviour before costs properly
24 adjust.

25 So I think there might be more of a motivation for

1 thinking about that in a merger context from a gross
2 margin perspective. Personally I do not think it is
3 right. I think the use of gross margins in a copy type
4 analysis or illustrative price rise analysis and so on,
5 I actually do not think is right but if you use high
6 gross margins as opposed to net margins competition
7 authorities will find it gives you more concerns, and
8 I do have a concern that they are somewhat over-egging
9 the kind of the concerns that they have. But I am not
10 sure that in this case it applies because we are talking
11 about a long-run pricing incentive. People will be
12 pricing at the long-run competitive level. That is what
13 LRIC is all about if it is a competitive market.

14 THE CHAIRMAN: We will continue this after the lunch break
15 but in the meantime we have got the essentially factual
16 questions that we raised in section 1.3. Now, first of
17 all, I wanted to ask Dr Jenkins, you mentioned something
18 about a data pack. What is that?

19 DR JENKINS: I might defer to -- I know we have been
20 contributing some of the answers to the questions you
21 asked.

22 MR BEARD: So the data pack, it is not quite so glamorous as
23 that. In answer to the questions that the Tribunal
24 posed on Day 5 we have been pulling together that data
25 and obviously Oxera have been assisting in providing the

1 references. We think most of it is agreed but there are
2 some issues that we think may not be which we need to
3 communicate to the other side and we are in the process
4 of doing that. Now, you are welcome to have what we
5 have but I know that in the questions that were asked
6 there was a question about: to what extent could these
7 points be agreed.

8 THE CHAIRMAN: Yes.

9 MR BEARD: That is the data pack that I assume Dr Jenkins is
10 referring to because Oxera have contributed to that so
11 that is charges and switching and incremental stuff. It
12 was all of those things that raised by the Tribunal on
13 Day 5.

14 THE CHAIRMAN: That is helpful. I think what might also be
15 of use is we have been trying to work out our own
16 checklist of where the tables or the figures are and
17 I think we would be quite happy to let you have what we
18 have -- where we have got to on this. In other words,
19 in terms of working out what table shows this, what
20 table shows that I suspect they might be common --

21 MR BEARD: They may well be.

22 THE CHAIRMAN: But it might be of use to the experts as well
23 because we do not want to spend a long time on question
24 1.3 which is essentially just working out where we are
25 going to find switching, pricing and things like that.

1 MR BEARD: Yes. Look, if the Tribunal wants to provide us
2 with that we can do a cross-check against the material
3 we have got and --

4 THE CHAIRMAN: Yes.

5 MR BEARD: -- then we are able to get to you at least some
6 of that in the next day or so.

7 THE CHAIRMAN: We have got some more things on 1.2 anyway
8 and then we do move to switching and pricing directly
9 which is why we wanted to try and see what common ground
10 there might be but I think the best thing is, we will
11 give you a version of our document and the experts
12 should be provided with it as well.

13 MR BEARD: That is fine.

14 THE CHAIRMAN: It just provides cross-references to where we
15 think the relevant bits are and even if it is just for
16 the purposes of the afternoon the experts may say that
17 is fine or no, this table is hotly contested. I do not
18 think it will. But we will do that over the course of
19 the luncheon adjournment.

20 MR BEARD: Sure.

21 THE CHAIRMAN: All right. 2 o'clock.

22 (1.06 pm)

23 (Luncheon Adjournment)

24 (2.00 pm)

25 MR RIDYARD: Dr Jenkins, I think you were keen to contribute

1 to the discussion just before lunch.

2 DR JENKINS: I just had one very small point to make on ...

3 I think we were at table ... it was in the joint

4 economic statement.

5 MR RIDYARD: Yes, was it table 4?

6 DR JENKINS: 4 or 5. Apologies. I closed it up.

7 {E/49/253}. Yes, that is right. I just want to make

8 a very quick point about the relative gross margins per

9 customer, that one should also look at the "Number of

10 customers" line directly above it, and so you see that

11 SFV services is declining from 2.7 million to half

12 a million and the bundles customers is relatively -- it

13 is going up and then coming down from 6.4 million to

14 6.3 million. So that is another part of thinking about

15 who were the customers that you are interested in. It

16 is with an eye to that overall change in the underlying

17 demand for these services.

18 MR RIDYARD: Okay. So maybe my next question, it probably

19 makes more sense to address it to Mr Parker in the first

20 instance.

21 It seems, maybe you disagree with this proposition,

22 but it seems that everyone in the market is very much

23 focused on seeking bundled customers. Why do you think

24 that is, given your conclusions about how much more

25 profitable standalone voice is compared to bundle?

1 MR PARKER: So I think that is going to be true for rivals
2 in the sense that the rivals -- so BT has inherited
3 a customer base from when it was a statutory monopoly.
4 By and large, there are elements that have changed
5 there, but that is the sort of starting position. That
6 has not been the case for rivals. Rivals, if they
7 wanted to get into standalone fixed voice, have had to
8 fight really hard to try and get people to take
9 standalone fixed voice. That seems to have been
10 difficult. There is evidence from rivals about the
11 customer acquisition costs of doing that.

12 As Dr Jenkins has pointed out, the majority of the
13 demand now is for bundled products, so they have been
14 focusing their competitive efforts there, because they
15 do not have a big SFV legacy customer base to deal with,
16 but BT is in a bit of a different position. So that is
17 why the competition focused over there and sort of left
18 this rump of customers, if you like, for BT --

19 MR RIDYARD: So it is down to customer acquisition costs for
20 the non-incumbent.

21 MR PARKER: Yes, I think so. I think that is why there has
22 not been SFV competition in a very material way. There
23 are one or two references to the Post Office. The
24 Post Office did try to compete on a substantially lower
25 line rental price for a while, but eventually it stopped

1 doing that and floated back up to the -- a little bit
2 below the BT level, but the sort of same level as
3 everyone else. Obviously I mean Post Office can speak
4 to why it did that, but it is at least consistent with
5 the view that it was not doing well enough out of having
6 that price differential, and having got some customers
7 it was then seeking to change to making money.

8 MR RIDYARD: We will come back to that when we talk about
9 entry barriers and so forth more directly.

10 Again, I think if I address it to you, Mr Parker, on
11 this whole issue about whether we should look at gross
12 margins or some notion of net margin, if -- to the
13 extent that we find that internally BT was talking about
14 gross margins, is your position there that they were
15 just looking at the wrong thing, or that they should
16 have been looking at net margins and maybe they were
17 behaving badly, or wrongly, as it were, or something
18 else?

19 MR PARKER: I mean, so obviously that is ultimately a matter
20 for BT, but my feeling would be you could look at gross
21 margins as a proxy for profitability, even if that is
22 not the true measure of profitability, if you thought it
23 was revealing something about the level of profitability
24 you thought -- the relative levels of profitability you
25 thought you were getting. So even if BT was talking

1 about gross margins, you would expect people to have in
2 mind, when you are talking about gross margins, all the
3 costs of serving the product, because if you are
4 completely divorced from that, I do not see how you can
5 make sensible pricing decisions.

6 MR RIDYARD: Okay, right.

7 Good, I think we can probably move on to -- I guess
8 we will come back to some of the points we have just
9 discussed in other contexts later on in the sessions,
10 but I think we can go on to the question of switching
11 now.

12 Our first question is really about the amount of
13 switching by BT's SFV customers that actually occurred.
14 We were hoping this might be a topic where -- again
15 where you would agree on the facts, and we were talking
16 about the interpretations, but is that the case?

17 Maybe Dr Jenkins, do you want to go first on that?

18 DR JENKINS: Yes. So I think we were helpfully sent --

19 I was helpfully sent a schedule that you had handed down
20 at lunchtime. I do not have it in front of me actually.

21 But to answer whether we are agreed on those bits, so

22 I will just explain to you what I --

23 MR RIDYARD: Yes, that is a good idea.

24 DR JENKINS: -- and see where we go from there.

25 I think you had highlighted in terms of what levels

1 of switching by BT's SFV customers actually occurred,
2 Figures 4.1 to 4.4 in my first report.

3 THE CHAIRMAN: Yes.

4 DR JENKINS: I think --

5 MR RIDYARD: Do you have a page number for that?

6 DR JENKINS: {E/17/76} is the bundle reference. So starting
7 from there. So this is the overall market outcomes, and
8 it looks a little bit odd at the beginning, because
9 there is missing data, okay. So I would say even up to
10 2013, because of the way BT's housekeeping worked, you
11 only have from 2014 onwards -- sorry, from 2014 onwards
12 we have data but going back from 2014 we only have the
13 data of the customers who were customers in 2014, Q1.

14 But what you see there is -- but the overall picture
15 from this is right, which is that overall BT's fixed
16 voice lines were declining, and their SFV lines --
17 sorry, the SFV lines were declining and the bundle fixed
18 lines were increasing, though in the part that we cannot
19 see, it is -- you see that towards the end of the period
20 BT's share of bundled lines is also falling.

21 THE CHAIRMAN: Can I just see if we can move through this
22 first question of switching in this way. You have got
23 your tables, Dr Jenkins, 4.1, and 4.1 is showing the SFV
24 lines in black decreasing, bundle fixed voice going up,
25 and your greyed area, the grey columns represent the

1 total.

2 DR JENKINS: The sum.

3 THE CHAIRMAN: Which is why, when there is a crossover at
4 2013, you have got about 5 million of each type of
5 customer, the SFV on the one hand and the bundle on the
6 other. Then we have the whole market -- the whole
7 number decreasing. So the number of bundles is
8 decreasing as well as the number of SFV lines, and we
9 can see that.

10 Then 4.2, if we can just move on to that {E/17/78},
11 is the breakdown of where the switchers are going. So
12 in each -- for each year -- for the switching you have
13 got -- you are losing 15% to non-BT suppliers.

14 DR JENKINS: So this is all excerpts from BT in Figure 4.2.
15 So this is -- in that SFV chart that we just saw, you
16 see that lines are declining, so this is showing the
17 amount of the decline in the SFV where they are exiting
18 BT, and the lighter green is where they have switched to
19 a different BT product.

20 THE CHAIRMAN: Yes.

21 DR JENKINS: So the reason is that it includes home movers
22 and those who have died.

23 THE CHAIRMAN: Yes, I appreciate it is all leavers.

24 DR JENKINS: So it is not moving to another supplier
25 necessarily, but I do have a chart that shows that.

1 THE CHAIRMAN: Right, it is all leavers, but of the
2 leavers -- when it says "out of BT cessations", those
3 are going to a non-BT supplier?

4 DR JENKINS: No, they are out of -- they are no longer
5 customers of BT. So if you think of BT's records --

6 THE CHAIRMAN: They are no longer customers of anybody.

7 DR JENKINS: Some of them are no longer customers of anybody
8 and some of them have switched to an alternative
9 supplier. So if you think about BT's record-keeping,
10 they know when someone switches to their other product
11 and they know when someone terminates the product, but
12 they do not necessarily know, unless the person tells
13 them, where they are going.

14 THE CHAIRMAN: If they have gone somewhere else, if at all.

15 DR JENKINS: Yes. But of course they do capture some
16 information about that, which is what I use elsewhere to
17 infer what proportion of that out of BT's cessation is
18 switching to a competitor supplier.

19 THE CHAIRMAN: Right. Then we have Figure 4.3, which is
20 just dealing with the within BT cessations, those who
21 cease but stay with BT on a different product, and that
22 shows the vast majority going to a bundle, and then much
23 smaller percentages either going to two -- bundle plus
24 mobile, or mobile.

25 Then finally on this point, if we go to Figure 4.4

1 {E/17/81}, we have got in each case, so far as the
2 switchers are concerned, whether they are going to
3 bundle or whether they are just going to another SFV,
4 and both percentages will make up the 100% in each case,
5 and what we see there is that the percentage who is
6 going simply to another voice contract is going right
7 down.

8 DR JENKINS: That is correct.

9 THE CHAIRMAN: If I could just pause there for a moment.

10 In terms of those figures, Mr Parker, is there any
11 disagreement about that? Because if there is not, then
12 we have a fairly clear statement of the general
13 switching position.

14 MR PARKER: No, so I think no disagreement with the figures.

15 Two small points. One is the cessation reasons that
16 underpin Figure 4.2, I think the data is a little bit
17 patchy, it is not fully collected, it is not all
18 customers, it is if they ring up, and it is if they are
19 asked a question about how do you leave, and then if it
20 is recorded properly, and so on. So I am not disputing
21 the figures at all, you just need a little bit of
22 caution, perhaps, on the interpretation of those.

23 Then similarly, Figure 4.4, I am not disputing the
24 figures, but as Dr Jenkins points out, the base is small
25 for these statistics, so you have got 37 people in 2016,

1 no, 2017. 28 people in total in 2016. So it is -- you
2 know, I am not suggesting this is not the direction of
3 travel or broad magnitudes, but I would not place too
4 much weight on the exact numbers.

5 THE CHAIRMAN: No. But there is no alternative version as
6 far as that is concerned. That is all I ...

7 MR PARKER: No, that is ...

8 THE CHAIRMAN: Just give me a moment ... (Pause)

9 Yes, can we just continue this trend of dialogue for
10 the moment because I think it might be helpful. We
11 might be able to knock some of these points on the head.

12 The other -- and I will do them all in one go,
13 because they are all in one place, and I am staying with
14 Dr Jenkins, but going to Dr Jenkins' second report and
15 starting at page 47, {E/18/47}. I want to go to her
16 Figure 3.2. We have got that there. If we could have
17 that enlarged.

18 Now, this is dealing with where the increase -- and,
19 Dr Jenkins, tell me if I have got this wrong. This is
20 dealing with where the increase in bundle lines has come
21 from. 25% has come from what were SPCs. 9.7% from
22 other voice only. 26% from new customers altogether.
23 4.9% from BT Basic, which we know -- we are considering
24 is not in this market. Then 34%, which is the largest
25 percentage, coming from BT's voice only customers.

1 Have I got that correct?

2 DR JENKINS: So I am inferring these different blocks,
3 because we do not have a source of data that precisely
4 gives this to us. So what I have done here is I have
5 said, okay, we observe a certain increase in BT's
6 bundled lines. So first of all, I assume that all of
7 the BT SPCs that have moved, have moved to BT bundles.

8 Now, maybe some of them did something different, but
9 I am trying to be conservative. So at the end the
10 proportion that is left for BT VOCs is the smallest it
11 could be.

12 THE CHAIRMAN: I see.

13 DR JENKINS: But, yes, your interpretation of each stack was
14 right, but each one I have sort of said: let us infer
15 all of whatever category I have identified has switched
16 in this way, and then what is the residual that is left,
17 which must have come from BT voice only customers.

18 THE CHAIRMAN: Right.

19 Then can we go to Figure 3.3, please, which should
20 be {E/18/49}. That is it. If we could have that one
21 enlarged.

22 That is just taking the cohort as it was at 2014,
23 just looking at it in a static way for a moment and
24 seeing what bit of that cohort left in each successive
25 year. So it is not looking at -- there were some

1 joiners in subsequent years, but we are not looking at
2 that, we are just looking at 2014. Have I got that
3 right?

4 DR JENKINS: Yes, that is correct.

5 THE CHAIRMAN: Right. Can we then go to 3.4, please,
6 {E/18/50}. So this is actually showing you again the
7 2014 customer base but showing what happens to it. So
8 for 2015 we have ...

9 DR JENKINS: Shall I have a go?

10 THE CHAIRMAN: I think you had better have a go. I am
11 running into the ground here.

12 DR JENKINS: Yes, exactly. It is a complicated chart,
13 absolutely.

14 So here what we are doing is building on the chart
15 before, which you rightly said is showing: take a cohort
16 of SFV customers in 2014 and see how many of them remain
17 each subsequent year, so it is tracking the customer.
18 So the first black column on each of these is the same
19 as the previous chart, so it is the 2014 cohort, how
20 many are left one year after, two years after. But as
21 we rightly said, to understand the SFV customer base,
22 actually then in 2015 we had some new joiners come in,
23 so that is the light green column.

24 What I have not done here is show you how many they
25 are. That is somewhere else. This chart is just

1 showing how the evolution of those customers compares
2 from cohort to cohort. So you see then the first green
3 bar in 1 -- so at 0 it is 100%, they have just joined.
4 What happens after one year? Half of them have already
5 left.

6 THE CHAIRMAN: Is this year 1? Is that 2015?

7 DR JENKINS: That would be 2016. Because they join in 2015,
8 so their first year is 2016. So that is why it is
9 labelled as "1", because for each cohort the actual
10 first year is a different one depending which year they
11 joined.

12 THE CHAIRMAN: Why have you got joiners of 2018 in year 1,
13 the purple bit?

14 DR JENKINS: So then the last -- the purple -- yes, the
15 purple bit, they joined in 2018, so the end of their
16 first -- so then their first year would be 2019.

17 THE CHAIRMAN: Ah, all right. So the years are different
18 depending on who we are talking about.

19 DR JENKINS: Yes. What I am trying to show is what the --
20 the decline rate. I am comparing decline rates and not
21 actual years. That is why you cannot have a yearly
22 comparison.

23 THE CHAIRMAN: Right.

24 DR JENKINS: So you see that our cohort from 2014, which is
25 where we pick them up, so they are a mix of people, they

1 do -- they are in a sense stickier than the subsequent
2 cohorts, because you see their black line is above the
3 others, right, so that the joiners, the ones who are
4 coming in, within the first year mostly half of them
5 have spun out. Again a voice somewhere else. I did
6 think about showing what happens to these --

7 THE CHAIRMAN: The short point is those who were customers
8 earliest tend to be the stickiest.

9 DR JENKINS: They are the stickiest, but they are still
10 declining through this period, so that by the end of the
11 period you see you have only a quarter of the people
12 left in that group who started in 2014.

13 THE CHAIRMAN: I follow. So if you go to 0, you have got
14 all the colours there because they are all the people,
15 and then they all decrease.

16 DR JENKINS: Yes.

17 THE CHAIRMAN: Right, I have got that.

18 DR JENKINS: By the time you get to year 4, while there
19 still is a difference with that first cohort, the black
20 stack is still a bit bigger than the others, it is still
21 10 percentage, 15 percentage points more. But overall
22 what you are seeing is while the joiners that come in
23 are then moving on from the SFV service, in general all
24 of those SFV customers are -- or, rather, a high
25 proportion of those SFV services customers have left by

1 the end of that period.

2 THE CHAIRMAN: Right. All right.

3 Can we then just look at Figure 3.5 which may be
4 {E/18/54}. Yes, this one. Now, this is the recapture
5 rate. If you could just take us through that.

6 DR JENKINS: I will just read the notes so I can tell you
7 exactly right.

8 THE CHAIRMAN: I appreciate this is in your critical loss
9 analysis we are coming to later on, but I just wanted to
10 get the ...

11 DR JENKINS: So here what I have -- because I was using it
12 in my critical loss analysis, here I am asking the
13 question now not of all leavers from BT, but the leavers
14 from BT that I assessed to be doing so for price-related
15 reasons. I make a number of corrections for that. But
16 for the sake of simplicity, let us say, for example,
17 I do not include all the people who are thought to have
18 died as part of this. It is not very informative for
19 a recapture analysis.

20 THE CHAIRMAN: I think, okay, we will park that one, because
21 that is likely to be disputed, I think. Then there is
22 a question of --

23 DR JENKINS: Yes. But just in terms of what it is showing,
24 it is showing, in a sense, customers that were
25 responding to -- that were making active choices here,

1 what proportion of them remained with BT, so they moved
2 to a non-SFV BT product, a BT bundle or BT Mobile.

3 THE CHAIRMAN: Right. Then finally, so far as your diagrams
4 are concerned, Dr Jenkins, if we could go to your first
5 report at page 155, your Figure 5.19 {E/17/155}.

6 DR JENKINS: Yes, this is the one that has been updated and
7 will be provided. But for the sake of explaining what
8 it is, this builds on Figure 4.2 for the leaving, the
9 black lines, the leaving BT's SFV. So when we looked at
10 Figure 4.2, it was all cessations, it is like all the
11 ending of the line -- the SFV relationship. Here, what
12 I have done is only counted those that are leaving to
13 competitors, and for that I have based that on the
14 cessation reason code information that we have. So that
15 means I have stripped out the bereaved, those who are
16 moving home, and other, a few other miscellaneous
17 categories, and so those numbers have changed because of
18 the error, but that is what that bottom --

19 THE CHAIRMAN: So the minus 8% is 8% of whatever that cohort
20 was in 2014?

21 DR JENKINS: Not the cohort. That is -- these are all on
22 the SFV base in that year, so it mixes up the cohort.
23 In 2014 it is of course the whole cohort, because that
24 is our starting position.

25 THE CHAIRMAN: But it is SFV, not your bundle customers, it

1 is just SFV?

2 DR JENKINS: SFV base.

3 THE CHAIRMAN: SFV. But what I am saying is the 8% is 8% of

4 ...

5 DR JENKINS: The SFV base at the beginning of the stated
6 calendar year.

7 THE CHAIRMAN: The total number of SFV customers.

8 DR JENKINS: Yes, in 2014 and in --

9 THE CHAIRMAN: But on the other hand, you say there is
10 a number which represents 10% coming in.

11 DR JENKINS: Coming in, that is right.

12 THE CHAIRMAN: Right, and we have that going all the way
13 through. Fine.

14 Now can I ask Mr Parker: Mr Parker, in relation to
15 all of those diagrams, except the recapture rate, which
16 we will park for the moment, again there is no
17 alternative version to these figures, is there?

18 MR PARKER: I think the only one I would have a concern
19 about is 5.19 and the additions numbers. The reason for
20 that is if you look at -- there is a sort of
21 clarificatory point about what proportion of the
22 customers remaining in 2022 were there in 2014? We are
23 both in agreement that it is a large proportion. So of
24 the -- however many there are left, 0.5 million, or
25 whatever it is, in 2022, what proportion of those were

1 in the data in 2014, and the answer is 80/85%, something
2 like that. The substantial majority. I think we all
3 agree on that.

4 THE CHAIRMAN: Yes.

5 MR PARKER: So if that is right, it is not very consistent
6 with the idea that you are getting 10% additions into
7 the customer base every year, because 80% of customers
8 who are left there at the end were there right at the
9 beginning. So it could be the case that there is a sort
10 of a frothy top, if you like. There is a pint of
11 Guinness, and there is the black stuff which is the
12 customers who stay there all the time, and then there is
13 this incredibly frothy top with people churning in and
14 out, in and out all the time. I think that is unlikely,
15 because there is other data from Ofcom that says how
16 long have you been with your SFV provider if you are BT,
17 and the vast majority of people have been there five, 10
18 years, if not more.

19 So I am dubious about the data on customer
20 additions. I wonder whether there is some misrecording
21 going on in that data. Because I do not think it is
22 consistent with the idea that virtually everyone who was
23 there at the end was also there at the beginning. That
24 seems to be more consistent with a sort of new
25 acquisition rate of 2% per year, which I think is also

1 one of the data points that has come out when BT has
2 looked at it.

3 THE CHAIRMAN: This is the issue that was subject to
4 clarification in the joint expert reports. There was
5 a question mark about what Dr Jenkins had meant,
6 I think. Is this not where there was a --

7 MR PARKER: This is a side effect of that issue.

8 THE CHAIRMAN: A side effect. But this is the one where you
9 say that as at -- which period was it? 2022 you were
10 comparing who was there in 2014?

11 MR PARKER: Yes. So maybe the --

12 THE CHAIRMAN: Is there another chart from your side showing
13 this figure, these figures?

14 MR PARKER: So maybe -- if we can just go up one page,
15 because that is the starting point, and we have got
16 5.82 -- sorry, I am just trying to give a sense of the
17 debate {E/17/154}. So we have here, if we look at the
18 losses and additions, there has been such significant
19 churn that only a small proportion of BT's customers in
20 2022 were part of BT's SFV base in 2014. That is the
21 same as was -- actually that ends up looking at the
22 wrong end of the telescope, so that has been clarified
23 now in the joint statement which ...

24 DR JENKINS: Sorry, could I just clarify the clarification.

25 So I do not think it is looking at the wrong end of

1 the telescope. It is correct that, as worded, that was
2 incorrect. But the change I made was to swap the dates.

3 So there has been significant churn, such that only
4 that proportion of BT's SFV customers in 2014 were also
5 part of BT's SFV base in October 2022. So I am saying
6 what is of interest is you say think of the claim
7 period, how it starts. We have got all these SFV
8 customers there. When we get to the end of the period,
9 what we find is there is only ... a small, you know,
10 a small proportion of them left, since I cannot say the
11 number I think.

12 Now, what Mr Parker is correcting is that we both
13 agree that if you look at the other end of the telescope
14 and you say, okay, but what I want to know is when
15 I look at the customers who were left there in
16 October 2022, how many of those were also in the base in
17 2014, then that number is 85/90%, and we agree on that,
18 I agree on that.

19 So it is not that that statement is looking at the
20 wrong end of the telescope. It was misworded, but
21 I intended to look at it from the end of the telescope
22 such that the smaller proportion was --

23 THE CHAIRMAN: Because it is obviously the case, and we can
24 use entirely arbitrary numbers so we do not stray into
25 confidentiality. It is obviously the case that you can

1 say that you had 100 customers in 2014 and of those
2 customers only 25 remained in 2022. The 25 -- but on
3 the other hand, of all customers who were there in 2022,
4 and there may have been customers gained along the way,
5 nonetheless, most of the customers from 2022, which is
6 a much smaller number, were there from 2014.

7 So I think you are both agreed.

8 DR JENKINS: Exactly, we are agreed on that.

9 THE CHAIRMAN: There is no dispute about the figures there.

10 But, Dr Jenkins, Mr Parker has just said that a side
11 effect of this is that he then questions whether your
12 additions percentages can be right, and I do not know if
13 you want to come back on that?

14 DR JENKINS: I mean, you saw the cohort analysis which --
15 whether that matches the frothy idea, but it certainly
16 does show that the people who come in are more likely to
17 leave than those who were present in 2014. I have not
18 done a full reconciliation of all of that, but I do not
19 think it is inconsistent actually to have the levels of
20 additions that are there and those two numbers. I do
21 recall thinking about that at some point, but I cannot
22 in this moment remember exactly what it is, but I think
23 if you do have some difference, such as people are
24 coming in, and it could be that someone is coming off
25 different contracts, so they take SFV for a bit with BT,

1 move their voice over, and then go on to a bundle. So
2 that time when they are transitioning through the voice
3 product is because they are intending to take a bundle,
4 but this is just how they are doing the switch in
5 a particular -- I do not know, that is a speculation on
6 my part.

7 So in terms of these additions numbers, I think
8 Mr Parker would agree those are the numbers that are in
9 the data has been shared, and it also includes new
10 household formation. So that is the bit to remember
11 when one is thinking, oh, but how can there be all these
12 people? Actually, every time a new household forms, it
13 is very likely they are deciding what to take as their
14 product, and, again, it could be new households that
15 first establish a landline and then decide what they are
16 going to do with their bundle product.

17 THE CHAIRMAN: All right. Then I want to do one more thing
18 on this, and then we are done with switching facts,
19 subject to anything you say.

20 SPC switching specifically. Could we go to
21 Mr Parker's third report, page 85, figure 9.

22 MR PARKER: Yes.

23 THE CHAIRMAN: Let us wait for that to come up on the EPE.

24 It is page 85, Mr Parker's third. {E/3/85}

25 Now, can you just take us through that, Mr Parker.

1 MR PARKER: So this is a best guess on the number of BT SPC
2 customers. It is based on Ofcom data, because BT
3 pre-commitments -- so this is all pre-commitments -- BT
4 did not know, could not distinguish between voice only
5 and split purchase customers at the time. We have the
6 total SFV lines from Dr Jenkins and from BT, and this is
7 applying the percentages that there are in the Ofcom
8 data, which is based on some of the data submitted to it
9 in the Section 135 notices for the purposes of the
10 provisional conclusions, to give an estimate of how that
11 total SFV base splits between voice only and split
12 purchase. It is about 50/50 I think in each year, and
13 this is just the decline in the split purchase customer
14 base best estimate. Not perfect, but I do not think we
15 have a better ...

16 THE CHAIRMAN: That is what I wanted to ask.

17 MR PARKER: A better number. So I think you just need to
18 be -- I think at the level of total aggregate decline,
19 I think this is fine. I think if you start doing kind
20 of more sophisticated analysis on it, I think we are in
21 danger of placing more weight on it than one would
22 necessarily think it should bear.

23 THE CHAIRMAN: Thank you.

24 Dr Jenkins, there is not anything else, doing this
25 particular calculation, is there, which competes with

1 this?

2 DR JENKINS: I have done my own version of this and get --
3 and do it in some slightly different ways. But I agree
4 with Mr Parker that the approach, which is to use the
5 Ofcom analysis, because they had access to information
6 from other market participants and, importantly,
7 Openreach at the time, on which they derive these
8 proportions, they did it quarterly. For part of what we
9 have done, you have got to turn it into monthly. It
10 finishes in 2017, so you have to extrapolate from the
11 end of the Ofcom period to when we start to get the
12 accurate information from BT systems post-commitments.
13 We have done slightly different things when we have done
14 that, but overall --

15 THE CHAIRMAN: Are you prepared to go with this for the
16 purpose of argument?

17 DR JENKINS: I am very happy to go with this for the ... I
18 mean, there are a couple of points I have tested to say
19 that none of my conclusions change where I'd use Mr
20 Parker's.

21 THE CHAIRMAN: That is what I wanted to get at.

22 I am hoping, on that basis, if we just use these
23 materials for the moment, the figures are broadly
24 agreed, there are a few nuanced points, I can then
25 invite Mr Ridyard to go back to the specific questions.

1 MR RIDYARD: I would just like to pick up on one of these
2 charts. Figure 4.2 in Jenkins 1. That is page 78 of
3 Dr Jenkins' first report {E/17/78}.

4 One thing which I think has come up in some of the
5 expert commentaries is this notion that, over time, the
6 SFV customers are becoming more and more of a hard core
7 and therefore changing in how likely they are to switch
8 away. You could have a sort of impressionistic view
9 that in the early years here, lots of people are
10 switching to bundles, so there is lots of risk of losing
11 people, but as time goes on, you are getting more of an
12 exploitable rump of customers who are never going to
13 switch.

14 But this table here would not support that
15 proposition, I do not think, would it, because it seems
16 to be showing that the black -- whether you look at the
17 black bar or both the bars, the proportion of the SFV
18 customer base which is stopping being an SFV is
19 pretty -- obviously it wriggles around a little bit, but
20 it is basically pretty similar throughout the whole
21 period. Is that how both of you would interpret this
22 evidence?

23 Dr Jenkins.

24 DR JENKINS: Yes.

25 THE CHAIRMAN: Mr Parker.

1 MR PARKER: Yes, I think there is a pretty constant rate of
2 decline. I think the implications of the switching rate
3 for pricing are a rather different matter which no doubt
4 we will come on to.

5 MR RIDYARD: Yes.

6 DR JENKINS: The only thing I would add is this is the one
7 which includes bereavement and home moving, so when the
8 corrected 5.19 is in place ... But even that, the level
9 is lower. But you see, if anything, increased switching
10 through that period, but it is still relatively similar.
11 You certainly do not see the opposite of that, which is
12 a group of customers who are less engaged through that
13 period.

14 MR RIDYARD: Yes, okay.

15 Then we had a question about -- we were interested
16 in the consumers who were joining the SFV kind of base
17 in each one of the years. We were quite curious as to
18 who they were and why they were joining as SFV
19 customers.

20 Dr Jenkins, you have given us some speculation on
21 that, which is sort of quite plausible.

22 Did you want to add anything to that, Mr Parker?

23 MR PARKER: So if you look at the underlying data for 5.19
24 and the additions, you see things like about 5% of the
25 SFV customer base is apparently switching from BT

1 bundles back to SFV. It seems to me -- I wonder whether
2 there are data issues that mean that BT's data is not
3 fully capturing exactly -- it might be creating
4 artificial sort of churn and additions if it is not
5 fully properly recording things, because I had
6 understood -- you know, Dr Jenkins makes a point
7 elsewhere that once you have gone to dual play, you
8 never come back, and if 5% of people are coming back
9 every year, that is quite significant, and that is just
10 from BT.

11 So I am not totally sure how you reconcile those two
12 points. It goes back to my -- I think my general doubts
13 about the additions data is we know that by the end of
14 the period, almost everyone, not almost everyone; 85% of
15 the people who are left were there at the beginning. So
16 you could imagine a world where there are people just
17 frothing in and out.

18 MR RIDYARD: Yes.

19 MR PARKER: But I think that feels to me more like --

20 MR RIDYARD: It may be just noise.

21 MR PARKER: It may be noise --

22 MR RIDYARD: It is noise of one kind of another.

23 MR PARKER: -- misrecordings of various sorts in the
24 underlying data.

25 MR RIDYARD: Okay. Let us go on to looking at the question,

1 which is I guess the relevant question for market
2 definition and our SSNIP test.

3 Dr Jenkins, I think it is probably best to address
4 this question to you. I know there are all sorts of
5 issues about how you would describe the hypothetical
6 monopolist; but leaving that to one side, as a matter of
7 principle, what you are trying to do is identify for
8 this hypothetical monopolist what the own price list of
9 demand is for that product, holding other things
10 constant.

11 Now, in doing that, is it true that the right way of
12 looking at it is control for other factors that would
13 have caused switching in and out, irrespective of price
14 changes, and just identify the impact of price
15 change-based switching, compared to other things that
16 might have influenced the number of customers that might
17 exist from one year to another?

18 DR JENKINS: The hypothetical monopolist test is seeking to
19 identify what the close substitutes are for the focal
20 product and it is generally formulated as a response to
21 price, as you say, holding other things constant. What
22 is I think increasingly understood, which you can see in
23 the US merger guidelines or the recent
24 European Commission guidelines, is that sometimes, if
25 you are in the real world looking at information, you

1 will have price changes, but you also may have quality
2 differences, and those other competitive attributes to
3 do with the nature of the product can also be relevant
4 when thinking about, in a sense, the relative price.

5 So as you put it: what we would ideally like is
6 price holding everything else constant, but in the event
7 that in the real world you have quality changes, you
8 have to think about that as well, you would not
9 necessarily ignore those, like the quality adjusted
10 price is probably the price that you would want to use
11 in your test.

12 MR RIDYARD: "The quality adjusted price is ... the price
13 you would want to use". Sorry, can you expand a bit on
14 what that means?

15 DR JENKINS: So what I have used is the price, because that
16 is what I have available to me, but you need to think
17 about the fact that at the same time you may have had
18 that the attractiveness of the alternative product was
19 increasing for -- because it was being invested in, even
20 if the price was not changing necessarily, and that is
21 a relevant pull factor for consideration in
22 a hypothetical monopolist test in thinking about
23 substitute products.

24 MR RIDYARD: It is relevant. In this case, let us say the
25 quality of broadband was increasing year-on-year, and

1 that is not to say that it was getting faster or better,
2 but the attraction to a consumer of having broadband was
3 increasing year-on-year, just because there was more
4 stuff you could do on the internet year-on-year.

5 If that was the case, would you want to control that
6 out of your SSNIP test and to say how would people have
7 responded to the changes in price if that quality
8 improvement had not occurred, or do you want to include
9 that quality improvement in the way you describe the
10 SSNIP test?

11 DR JENKINS: I would -- I think ideally you would estimate
12 a demand system that enabled you to control for features
13 of the products as well as the price of those in order
14 to accurately identify own price elasticity. I would
15 not ignore that overall switching behaviour that is
16 linked to the features of the products when I am
17 thinking about the price responsiveness, because there
18 is always going to be a trade-off between the price and
19 the offer that is being made.

20 So it is inherent, in thinking about that switching
21 decision, that it is not just the price that was offered
22 but what was offered for that price. So in using the
23 actual information that we have of what people did, as
24 good or bad as it is, it seems to me you would not
25 ignore the fact that you are observing switching to this

1 alternative way in which voice was sold through this
2 period.

3 MR RIDYARD: Mr Parker, what is your perspective on that
4 one?

5 MR PARKER: Yes, so I think I would say the start point for
6 market definition is looking at whether there is a set
7 of products over which it is possible to exert market
8 power if you are a monopolist, and trying to identify
9 what are the significantly important competitive
10 constraints that would mean that the hypothetical
11 monopolist could not raise prices when you expand the
12 market.

13 So it is not about identifying what is the closest
14 substitute, it is about identifying whether any
15 substitutes are sufficiently close and important to lead
16 to price constraints. That is just a kind of point of
17 distinction, I think, between the way we are both
18 looking at it.

19 It seems to me that starting from that perspective,
20 then the question is: if you raise prices as the
21 hypothetical monopolist, holding everything else
22 constant, can you do that profitably? If people are
23 switching away, and would switch away in any event, we
24 had a bit of this discussion earlier. If people are
25 going to switch away in any event, then those are people

1 you would lose in any event. So you should not think
2 about, as the hypothetical monopolist, you should not
3 think about: those are customers I am losing because
4 I put my price up. You should think about all the
5 customers you lose because you put the price up.

6 I am going to lose 50% of my customer base anyway,
7 whether I put the price up or not, so you need to look
8 at the next change, I think, from changing the price, in
9 this case of SFV services, and say, well, how much of
10 that general switching away is to do with the price
11 change? Because that then tells me what is profitable,
12 because you are looking at a counterfactual analysis:
13 I am going to lose 50% of the customers. If I put
14 the price up 10% maybe I will lose 55/60%. But I really
15 care about the 5/10% of additional switching, I do not
16 care about all 60, because I am going to lose that in
17 any event. So that is what I have described as a
18 secular trend, but ...

19 THE CHAIRMAN: If I can just interject here. I want to ask
20 about the secular trend because both of you -- you,
21 Mr Parker and you, Dr Jenkins -- have addressed this
22 question, but there is obviously, to say the least,
23 a difference in emphasis here.

24 Now, Mr Parker, dealing -- let us just assume
25 switching is significant, and let us just assume the

1 reasons for switching are significant. Your analysis
2 seems to say, well, broadly speaking, most of these
3 people who are switching can be put down to a secular
4 trend. Can you just first of all say have I got your
5 evidence correct and, secondly, just to be precise about
6 what you mean on secular trend.

7 MR PARKER: So secular trend is people who will have
8 switched away anyway, irrespective. I think there are
9 multiple data points that one could look at to look at
10 this question. So if we could go to Dr Jenkins'
11 Figure 4.1 {E/17/76}. So if you imagine maybe sort of
12 start from the claim period, and so from 2015, Q3, this
13 is the decline in the SFV customer base. During that
14 period we have price increases on SFV services, which
15 you would think would lead to a greater decline. We
16 have a price freeze period, where BT did not put up
17 the price of SFV line rental. We have the commitments,
18 where there was a substantial reduction in the price for
19 VOC customers. It is very hard to see from that line --
20 we also had increases in broadband -- different
21 broadband products being introduced increasing the
22 broadband quality. It is really hard to see any of that
23 going on in that line. That line just goes down.

24 If you go on to Table 4.1, {E/17/90}. This is the
25 analysis Dr Jenkins carries out for each of the price

1 increases, but you will see -- and you see the dates in
2 the first couple of rows. But you will see there is
3 a break between June 17 and September 18 between 4 and
4 5, and there are two things going on in that break.
5 There is a period from June 17 until April 18 when there
6 was no change.

7 THE CHAIRMAN: That is the price freeze.

8 MR PARKER: That is the price freeze period. Then there is
9 a period -- there was a big price reduction at April 18.
10 If you look at -- just look back at the graph, that
11 price freeze period, you do not see any change really in
12 the reduction in the number of SFV customers in
13 the price freeze period as opposed to the previous
14 period, or indeed other periods. So I think it is
15 not -- that price freeze period is -- maybe that
16 reflects the secular trend. If that is the right number
17 of -- if that is customers who are leaving anyway even
18 if there is no change, that tells you something else is
19 going on.

20 I have also looked at the impact of the commitments.
21 I have done this in two ways. I have said, first of
22 all, if the elasticities that Dr Jenkins has calculated
23 here are correct, then the commitments price change was
24 about 30% price reduction, so you might have seen,
25 might have expected to see, a very large jump, because

1 of an elasticity of 3, and a price reduction of 30%, you
2 should see a 90% increase in the number of customers.

3 The other way to look at that is to say maybe what
4 we see is not an increase in the number of customers,
5 but a reduction in the customers that switch away.

6 Dr Jenkins has done some analysis that says, well, the
7 number of customers that remain after the commitments,
8 a year after the commitments, seems to be -- I think it
9 is 21% higher than it would have been if the commitments
10 had not been introduced, and that is an elasticity of
11 minus 0.7, so very low. This is all stuff that is in
12 the reply report, I think.

13 I think it is a bit -- I think there is quite a lot
14 of evidence -- there is clearly evidence of lots of
15 people switching away gradually over time. I think we
16 are all in agreement on that. The question is why. It
17 seems to me it is hard to attribute to the impact of
18 price increases. It seems like -- for me, there is
19 quite a lot of evidence that people are just gradually
20 switching away for whatever reason, and therefore
21 a hypothetical monopolist, as we see, the prices have
22 been -- line rental has been going up every year, up
23 until the price freeze period, and the question is, that
24 was -- that price increase was not being prevented by
25 whatever switching we saw.

1 MR DORAN: Can we make anything of what I think it was
2 Mr Bunt said about the impact of price changes, which is
3 that there would be an announcement in the press and
4 they would get a response, and then people would
5 start -- then there was a sequence of notification
6 processes which would take several months, and then
7 people would get their first bill, and at each of these
8 stages you might get a little spike of people ringing up
9 and talking to an adviser, some terminating the contract
10 within the requisite ... I have forgotten now the
11 general condition, but within the requisite general
12 condition, others not doing so.

13 So that would tend at least to some smoothing effect
14 question over time, and then of course you have the
15 back book and front book question as well, and I am
16 afraid sitting here I cannot quite think of what impact
17 that would have in relation to smoothing or not, but you
18 might be able to help on both those points.

19 MR PARKER: Yes. So I think, if I understand correctly,
20 there was a phase-in of sort of two to three months,
21 I believe, of the price notifications, and then people
22 might ring up to avoid the early termination --

23 MR DORAN: That is right. I was picking up on your
24 "gradual", which is the impact would be graduated in
25 some way if there was a response to pricing.

1 MR PARKER: Yes. So I think, if that is right, what I would
2 expect to see would be a bigger response in the
3 two/three-month period where people were getting the
4 notifications and faced the early termination -- the
5 opportunity to avoid the early termination charge. Then
6 maybe I would see a reduction, because it is no longer
7 so salient. Then I would see another reduction the next
8 time the price increase was being made.

9 MR DORAN: Or when their first bill comes, which I think was
10 a secondary point that was made.

11 MR PARKER: So maybe another three or four months then.

12 MR DORAN: Yes.

13 MR PARKER: But I think you should ...

14 MR DORAN: You would expect to see steps?

15 MR PARKER: I would expect to see some kind of greater
16 response. I think it was called "bill shock", was of
17 one of the phrases that was used. I would expect to see
18 more of a response than you seem to see in that figure
19 which, to me, shows a pretty gentle decline. Then of
20 course you have got the price freeze period, which looks
21 like the number of people leaving is essentially the
22 same than -- as it was in the previous period.

23 THE CHAIRMAN: Thank you.

24 Dr Jenkins, just sticking with switching, we are
25 going to come on to pricing anyway, but just sticking

1 with switching and the reasons for switching. Now, in
2 the analysis that you do, I think, if I am correct, you
3 do discount -- you put a discount on the amount of
4 switching to take effect of non-price-related reasons,
5 if I can put it in that way. Was that 20% or 40%?

6 DR JENKINS: For the out of BT switchers, the losses out of
7 BT, I first of all exclude quite a large chunk of the
8 stated reasons for leaving which I think could
9 contribute to the secular trend, and those are in
10 particular bereavement, moving to care homes, those
11 kinds of elements. So to the extent that that secular
12 trend is driven by an almost aging population and
13 changing the demand, that part of it I have stripped out
14 of my analysis and not counted as price-related
15 switching.

16 Then as you rightly say, when -- I have then ...
17 certainly for the market definition analysis. The other
18 category I have stripped out is the evidence that shows
19 BT customers that are switching to another SFV product,
20 because that would not -- that is what the hypothetical
21 monopolist is monopolising, so strip that out. Then
22 what I have got left is my estimate of, from the
23 cessation reason code information, the people who are
24 switching to other products. Then, as you say, I have
25 then, recognising that the data is not perfect, I have

1 made a 20% reduction, and then, as a sensitivity, a 40%
2 reduction, to capture any further non-price-related
3 element. But what I would say is that --

4 THE CHAIRMAN: Sorry, so just on the maths, in terms of the
5 total number of people switching, ie coming away from
6 their SFV contract, you end up with, what, 60% is
7 price-related? Or something less than 60%? Because
8 I just want to see what the difference effectively is
9 between you.

10 DR JENKINS: It is much less, because I strip out 70% on the
11 basis of those bereavements.

12 THE CHAIRMAN: 17%?

13 DR JENKINS: No, 7-0, or 69.4%, for those other reasons.
14 I think it is in the annex.

15 THE CHAIRMAN: You still have 69% of switchers?

16 DR JENKINS: For bereavement and those sorts of reasons.

17 Let us just remember what I keep in, the people who
18 are switching within BT, right? Because they are
19 switching to bundles.

20 THE CHAIRMAN: Just a moment. I see, all people who switch
21 to BT bundles are in, in any event. Which in fact is
22 a reasonably significant proportion of switchers,
23 because we know that BT recaptured quite a lot of them.

24 DR JENKINS: That will probably help with your mental maths
25 on this point.

1 But then of the ones who are leaving -- let me see
2 if I can find ... (Pause). So it is at {E/25/26},
3 paragraph A1.43. This is in my annex describing in
4 detail the CLA that I have done.

5 THE CHAIRMAN: This is your Annex A1.

6 DR JENKINS: Yes, in my first report.

7 THE CHAIRMAN: Yes.

8 DR JENKINS: So you see the last sentence of that paragraph.

9 (Pause)

10 I am excluding those for two reasons, as I said.
11 Part of that is the secular trend part, which is people
12 who are dying or moving home or moving overseas, those
13 sorts of reasons, and the other is moving to another SFV
14 product, because I want to exclude those from my
15 hypothetical monopolist.

16 I could work out for you how many are there, but
17 I am really trying to only include people who are
18 switching to other products other than SFV in the CLA
19 analysis.

20 MR RIDYARD: But you are not including, in the secular
21 trend, people who switch from a voice contract to
22 a bundle because the internet has just got more
23 attractive to them and who would have switched to the
24 bundle even if prices had not changed?

25 DR JENKINS: For those customers I make the 20% adjustment.

1 MR RIDYARD: What is the basis for the 20% adjustment?

2 DR JENKINS: Judgment on -- just saying, okay, it is hard to
3 know exactly what is going on there.

4 Now, in my view price does have an impact on that
5 decision, and that is shown by the events study that
6 I did, which showed that when you increase the gap
7 between the voice only element and the bundle, you had
8 a reduction in the amount of switching that went on in
9 that period.

10 So in a sense, that, yes, there may be things going
11 on that make bundles attractive and you have price
12 changing at the same time, so how -- I do not see how
13 you can disentangle those two things. That is what
14 is -- the price is an integral part of what it is
15 driving at.

16 If we take, for example, the split purchase
17 customers who are buying these two products currently
18 separately, and then we say: are we saying that when
19 they switch to a bundle -- because they are included in
20 this SFV group, the data I am talking here -- they
21 switch within BT from taking the voice, they cease to
22 have their broadband from their other supplier, and they
23 take it from BT now. It cannot be a secular trend
24 because they already had broadband, and do we say, well,
25 it just happened and the price had nothing to do with

1 that?

2 It just seems to me that even if we believe that, it
3 would still be relevant switching for the purpose that
4 we are interested in, which is to decide whether or not
5 it would -- it is something that you would want to do in
6 terms of raising prices, or whether you are going to
7 encourage customers to switch to this bundle.

8 THE CHAIRMAN: Why cannot there be, if you like,
9 a sub-secular trend of people who are just moving
10 towards bundles, because ultimately it is going to be
11 more convenient, and although there were lots of
12 different offers taking two products, everyone is kind
13 of gravitating towards bundles? Why does that have to
14 be a price-sensitive move, which is what you are
15 attributing it to?

16 DR JENKINS: I make an adjustment such that it does not get
17 the full weight. However, I am saying that when making
18 that choice for any substitute product, it is always the
19 case that what you are thinking about is the combination
20 of the price and the product features that are going on.
21 So even if it were the case that you said, well, the
22 price stayed the same and the quality improved of
23 bundles, and we saw switching towards it, that is still
24 relevant, economically driven switching for the voice
25 customers. The other product is becoming more

1 attractive.

2 THE CHAIRMAN: Right, so let me just isolate that, if I may.
3 You did talk about this earlier on, when you said it is
4 not just pure price, it is a question of quality.

5 So if someone switches to a bundle because there is
6 some perceived quality advantage, even if the prices
7 were the same, and they were not the same, but even if
8 they were the same, you say that should be taken into
9 account in your SSNIP analysis, or however you frame it,
10 because in truth it is price related?

11 DR JENKINS: It is a meaningful competitive attribute,
12 perhaps is a better way of putting it. That a SSNIP
13 analysis or a hypothetical monopolist test, as we both
14 agree, it is a framework of thought that is trying to
15 capture changing -- worsening the competitive
16 conditions, actually, is what the HMT does, and does it
17 via increasing price. But that can be worsened in other
18 ways, and the guidance does -- increasingly you see in
19 the guidance given by competition authorities
20 a recognition that, in thinking about substitution
21 behaviour, it may not only be price that you want to
22 take into account, it can be other features, and that is
23 coming to the fore because we have, increasingly,
24 products that have zero price.

25 So when people are contemplating that, they go,

1 well, does that mean, you know, there is never anything
2 to monopolise? Well, we monopolise in a different way.
3 I think that is just recognising that what is being
4 offered and what you have to think about is not -- we
5 economists are terrible at just saying, well, you can
6 turn everything into a price, and that is why we do this
7 as a shortcut, but it does not mean you ignore switching
8 that is driven by these other competitive factors. It
9 is relevant.

10 Indeed, the way I structured my market definition
11 analysis was to start by saying there is just a lot of
12 switching from voice sold at standalone to voice sold in
13 a bundle; in and of itself that is a clear sign that the
14 two products are seen to be substitutes in some kind of
15 way.

16 THE CHAIRMAN: Can I just ask one more question, and then
17 I am going to revert back to Mr Ridyard, which is on
18 this point about perceived quality benefit, even if not
19 in price terms, of the bundles, in a different context
20 I think when you were asked to deal with the suggestion,
21 the SPCs were in some way inert or disengaged, I think
22 you put forward well, that is not necessarily the case.
23 They may positively prefer to stay as SPCs because there
24 may be quality advantages with the two contracts. I do
25 not quite see how that squares with what you have just

1 said now.

2 DR JENKINS: Well, through this period, because what I am
3 basing this on is the actual evidence of what was going
4 on, so I mean, so we are framing it as a hypothetical
5 monopolist but we are basing it on the switching that BT
6 observed on its customer base.

7 Now, it may be that it was serving some SFV
8 customers with a voice only contract because they got
9 a really great deal for TV and broadband from Sky. BT
10 then introduces TV and sport and all of a sudden for
11 that customer they go, oh, okay, now I would prefer to
12 switch to BT for my bundle because I am going to get
13 BT Sport, I can still get the Sky channels through my TV
14 package and that makes sense to me now.

15 That type of switching behaviour could be what is
16 underpinning this.

17 THE CHAIRMAN: Thank you.

18 MR DORAN: So that is a sort of quality, it is perhaps
19 a range question. It is about the nature of the
20 alternative products whether inside the market strictly
21 or outside the market. Is that the point here?

22 DR JENKINS: Yes, so I would say whether it is inside the
23 focal product or the potential alternate product that
24 may be within the market, yes.

25 MR DORAN: But these are competitive responses by players in

1 the market. We will improve quality here, we may not
2 change price. We will improve this, we may not change
3 price.

4 DR JENKINS: That is right. Hence, when one is looking at
5 what are the constraints for someone who is seeking to
6 monopolise standard fixed voice it would be relevant
7 what is going on in the bundles market there because
8 even if what is going on is not a purely price effect
9 but also other aspects of the offering effect.

10 MR RIDYARD: Mr Parker, would it be fair to say that you
11 would completely disagree with what Dr Jenkins has said?
12 Because I think you have explained your position on this
13 and it seems to me you completely disagree with her on
14 this point, and do you want to say anything more than
15 that?

16 MR PARKER: I think you have cracked the code on that one.
17 Yes, I am very much in disagreement. Perhaps it may be
18 worth pointing, if we go to the joint expert statement
19 at 246. {E/49/246}. Just jump to a couple of charts.

20 So this is a chart on -- the commitments is the
21 black line. This is the standard line rental price in
22 red and the wholesale line rental which is the main
23 90-95% of the direct costs of standard fixed voice.

24 So this is saying line rental price has gone up
25 a lot and over the same period up to commitments also

1 line rental price went down. I think for me the purpose
2 of an analysis of switching is to identify whether the
3 level of switching that has been observed is sufficient
4 to place a competitive constraint on the focal product
5 in question and what this is telling me is I cannot see
6 how -- I can see if you take this view this was all this
7 price related switching how is it that BT has responded
8 to that by continuing putting up its price.

9 You can see a similar chart in relation to calls.
10 Obviously there will be a conversation about this. But
11 if you look at {E/49/228} in the joint expert statement
12 you have BT's average revenue per minute, so average
13 effective price. Similarly -- and the blue line there
14 is the average for rivals, so I think rivals, smaller
15 more likely to be competitive, more likely to be cost
16 related. Then again you have this sort of, this
17 divergence in price.

18 But it seems to me the point of a switching analysis
19 in a hypothetical monopolist test is to understand
20 whether it leads to a competitive constraint. It is not
21 an end in itself. For me I think the discussion about
22 secular trend, I think we both agreed there is one. It
23 is a question of how big. To me the relevant question
24 is: was it enough to prevent BT from raising its prices
25 and that to me is the kind of the most important lens

1 that you need to sort of apply to the level of
2 switching. So I am not disputing that there was a level
3 of switching. I just do not think it was enough to
4 constrain BT's pricing.

5 THE CHAIRMAN: Yes, just give me a moment. (Pause).

6 We have a little bit more on 1.4 but we are going to
7 do that after the break. In the meantime, the other
8 page of the document we sent at lunchtime tries to do
9 the same exercise on switching as we have done on
10 pricing. So you will see the reference -- and once we
11 have finished 1.4, we will do the same thing. We will
12 quickly run through and see if there is agreement on the
13 relevant materials, two of which that we have suggested
14 you have just mentioned now, Mr Parker.

15 Right, we will take our break.

16 MS KREISBERGER: Sir, I wonder if I could just ask if

17 Mr Duckworth could be released now.

18 THE CHAIRMAN: Of course. Thank you very much,

19 Mr Duckworth.

20 (3.15 pm)

21 (A short break)

22 (3.30 pm)

23 THE CHAIRMAN: Just as a matter of housekeeping before we
24 resume, we hope to get through certainly most of 1.5,
25 which is the facts on pricing, today, but we may not,

1 and our intention is that tomorrow we will be starting
2 cleanly with 1.6. So can we start at 10 o'clock
3 tomorrow, please? If that means we get through
4 everything we need to get through before we get to
5 dominance tomorrow, and it is a little bit earlier than
6 4.30, then we will stop earlier, but just in case, so we
7 would like to start at 10 tomorrow.

8 Now Mr Ridyard has some more questions.

9 MR RIDYARD: Just before we move on to 1.5, I just wanted to
10 ask about the exercise that Mr Parker did, looking at
11 the impact of the commitments. This is, as I understand
12 it, as you described already actually, you tried -- you
13 tried to look to see whether that experiment and that
14 change in price caused by the commitments, whether
15 lessons could be learnt that would disentangle the price
16 effect from the secular trend effect, and I think your
17 conclusion, Mr Parker, was that that implied a very low
18 elasticity, because what you got was a decline in the --
19 a fall in -- a decline in the amount of switching from
20 voice to broadband but not a reversal.

21 I explained that very badly, I apologise. But
22 Dr Jenkins, the point you make on that is that that
23 might be because switching is asymmetric between one
24 direction and the other. Can you just expand on that
25 and explain why you think that asymmetry may exist,

1 or ...

2 DR JENKINS: Yes, so for this point, and the use of this
3 information, when the commitments price reduced it would
4 imply that bundle customers decide to cease to take
5 broadband and switch back to SFV, and given that the
6 bundle product, as we all agree, is voice plus
7 something, and that once customers have taken up that
8 offer, then it would not be at all surprising to see an
9 asymmetric response to a reducing of the price of the
10 alternative less elaborate product, in this case, the
11 standalone fixed voice.

12 MR RIDYARD: Can I stop you there. Maybe it is a bit
13 surprising, is it not? Because the last few people to
14 have switched to the bundle are the ones who were the
15 hardest at this point to be persuaded that broadband was
16 worthwhile, so they were just -- they thought it was
17 just worthwhile trading up to broadband, and then
18 suddenly the prices change and the price I am paying --
19 incremental price I am paying for broadband has just
20 jumped. So why would I not say, oh, in that case I am
21 going to switch back to what I was doing before?

22 DR JENKINS: We do not have a lot of evidence about what was
23 in the minds of those customers at the time. I do think
24 that it is possible for voice only customers that for
25 various reasons they may feel they do not need or they

1 do not want broadband or they do not want to engage with
2 that. Once having received -- once having broadband,
3 for example, able to use wi-fi on a computer, or they
4 may have been -- they may get a tablet, they can do
5 calling over the internet, voice calls, video calls.
6 There may have been a range of services that became
7 available to them that perhaps they had not realised how
8 much they would value them when they had them.

9 So at the point the price falls, it is a point at
10 which you now understand very well the product that you
11 are now consuming, and you have the question of, okay,
12 do I actually want to give this up? Or has it revealed
13 to me that the value is sufficient to pay that
14 incremental additional amount?

15 MR RIDYARD: So you are saying these consumers, they were
16 not really marginal people at all, they just did not
17 realise they should have switched long ago.

18 DR JENKINS: Quite possibly.

19 MR RIDYARD: It is more than that; that is what your
20 argument depends on, is it not?

21 DR JENKINS: I think we know that you can need a push to
22 make you engage and to make a decision to switch, and
23 then once you have switched you may decide not to go
24 back. So, yes, it is that they did not understand.
25 There was an information barrier and people did not

1 understand fully what the benefits would be of that
2 service. Or perhaps they felt they knew and then when
3 it happened it did change.

4 MR RIDYARD: Okay. Mr Parker, your thoughts on that?

5 MR PARKER: So I think -- I have done two different
6 analyses. One analysis is to say, looking at the
7 decline and taking the numbers that Dr Jenkins has
8 calculated for her elasticities of demand, a cut in
9 price should lead to an increase in demand, and you do
10 not see that. Dr Jenkins' response to that is this idea
11 that there might be asymmetry, that once you move from
12 dual play -- to dual play, you may not come back.

13 But I have done a separate piece of analysis which
14 says: take Dr Jenkins' analysis of the reduction in
15 switching away after the commitments, because what we
16 see after commitments is that people were still
17 switching away in total from SFV, despite a 30% price
18 increase, but the rate of that decline falls.

19 So this is not an asymmetric -- it cannot be
20 answered by this asymmetric idea of: I have moved to
21 dual play and I might be coming back. This is people
22 who are already in -- they are still in SFV, but they
23 are not switching away as quickly, because now it is
24 a much cheaper price. That would be the contention.

25 If you look at that, the elasticity of those

1 customers is less than 1, and I do not think -- I think
2 that is not captured, even if you thought that
3 Dr Jenkins' view on asymmetry as between dual play or
4 bundles and SFV, that is not relevant to this piece of
5 analysis. This piece of analysis says: I am already
6 SFV, I am just less likely to switch away. But how
7 many -- it is not a very big effect, given the scale of
8 the price change which was 30%.

9 This is for VOCs, I should say.

10 MR RIDYARD: Yes. Then are there any clues we can get from
11 the different choices of VOCs versus SPCs in all of this
12 respect? Is there anything there which we have not
13 thought about it so far? Obviously prior to the
14 commitments BT was not able to identify them, so a bit
15 of a silly question for that purpose, but maybe
16 afterwards.

17 DR JENKINS: I think Mr Parker said just before the break
18 about showing how prices had -- the line rental prices
19 had increased over the period and saying, okay, so the
20 switching is not enough to constrain BT's pricing.
21 I think the question that we are thinking about for
22 market definition is trying to identify what was the
23 response to those price rises and looking at the actual
24 switching evidence, and that is what I have done, is
25 I have sought to pass that to get to some meaningful

1 evidence on what are the switching responses that
2 occurred at the time of those price rises.

3 If we look at SPCs for the period after the BT
4 commitments, so my CLA looks from that point onwards,
5 I am looking at SPCs, but the challenge I face is that
6 there is not any specific data on SPCs. The actual data
7 we have from BT is still for all SFVs and how they are
8 leaving. While the VOCs have dropped out of the claim,
9 they are still out there in the market doing things. So
10 for that period post 2018, I am applying the general SFV
11 shifts to the SPC price changes at that time.

12 So even when we do know who are the SPCs and who are
13 the VOCs, we still do not have very good information on
14 what is driving the choices that the SPCs make. We do
15 see that the SPCs continue to decline dramatically
16 through that period, and so this -- I am sure we are
17 going to come to that at other parts of agenda, but it
18 is really important to be clear when we are talking
19 about what BT would do and what a hypothetical
20 monopolist would do, and we will no doubt debate that.

21 MR RIDYARD: We will.

22 DR JENKINS: But the work that I have done in my CLA was
23 using the market evidence to infer what you can about
24 what a hypothetical monopolist of SFV would find
25 profitable, and that -- because I think that is the

1 relevant question that we have to ask here.

2 MR RIDYARD: Thanks.

3 I think we should probably move on to the pricing
4 evidence.

5 THE CHAIRMAN: So if we can just go through the same sort of
6 exercise we went through on the switching evidence. If
7 we start with line rental increases, and I think
8 Mr Parker already looked at this, but we -- there is
9 a joint -- it is in the joint expert report, so
10 presumably it is agreed. Page {E/49/246}, please.

11 MR PARKER: It is in one of my annexes so I would certainly
12 agree with it.

13 THE CHAIRMAN: Right.

14 MR PARKER: I think possibly Dr Jenkins might, but I should
15 not speak for her.

16 DR JENKINS: Yes, I think at that early period there may be
17 one or two other little changes that happened, but
18 overall, yes, I agree with that.

19 THE CHAIRMAN: Not material.

20 DR JENKINS: Yes.

21 THE CHAIRMAN: Right, so we can use that one. I know there
22 are more -- I know, Mr Parker, that in your third report
23 you have done some more sophisticated versions of this
24 where you have put in competitive prices, but for the
25 present purposes I think, if we are just looking at BT's

1 line rental increase, we can use that.

2 Also there is the Annex 2 to Mr Bunt's witness
3 statement.

4 MR PARKER: I would need that handed to me if we have
5 a copy.

6 THE CHAIRMAN: If we could call that up, that is D/2/4. Ah,
7 so I have this in error.

8 MR PARKER: It is towards the end.

9 THE CHAIRMAN: I will get the reference for that. Just
10 a moment. (Pause).

11 MS KREISBERGER: Page 47.

12 THE CHAIRMAN: Thank you. Yes, I missed off the 7.
13 {D/2/47}

14 We had some -- you cannot take all of the figures at
15 the bottom in terms of pricing changes completely at
16 face value, because Mr Bunt explained that where it is
17 a bundle, and there is £1 on line rental, it is not
18 another £2.50 on broadband. The total increase would be
19 £2.50. But putting that to one side, if we just look at
20 line rental for the moment, that is the easiest thing to
21 look at here, because that is all we are concerned with
22 at the moment, what he has done there is identify, for
23 example, where it changed to CPI or CPI plus 3.9% or the
24 price is frozen.

25 Have you seen this before, Mr Parker, this document?

1 MR PARKER: I have seen it. I have not necessarily tracked
2 it back recently through to the price changes that are
3 in the back of my document. I think that is something
4 I would have to take away and confirm.

5 THE CHAIRMAN: Well, you can have a look at that overnight.

6 Dr Jenkins, have you seen this before?

7 DR JENKINS: I have seen it before, and I have not
8 considered that I needed to check it in detail.

9 THE CHAIRMAN: It may not be critical, because we have got
10 the document at page -- the table at 246. But can you
11 both have a look at it overnight, just to see if there
12 is likely to be any objection to what is being portrayed
13 in terms of line rental increases.

14 MR PARKER: Yes, so not on line rental. If we are going to
15 come back and talk about this in relation to calls and
16 bundles, then I think there is a distinction between the
17 front book and the back book, and I think ...

18 THE CHAIRMAN: Well, in any event, on call charges -- let us
19 leave that one where it is.

20 Call charges, Dr Jenkins' first report, there are
21 a number of figures here. Page 275. {E/17/275}.

22 If we can go back to Figure ... Go back one more
23 page, please {E/17/274}. 7.6, it is a bit ... I am
24 looking for call charge increases here.

25 DR JENKINS: This is it. This is the beginning of the call

1 plans, so this is the first chart.

2 THE CHAIRMAN: That is the first chart. So this is
3 a comparison of call plans. All of these are call
4 plans?

5 DR JENKINS: The first three are call plans, which are the
6 three call plans that are part of the claim. Then
7 I move to comparing some of the salient per unit -- or
8 not per unit, but call prices for specific types of call
9 that would be out of bundle -- out of plan, out of
10 package.

11 THE CHAIRMAN: Right. As I have got this, this goes up to
12 7.12.

13 DR JENKINS: Yes. So 7.6, this is unlimited weekend --

14 THE CHAIRMAN: Why do you not just quickly go through each
15 of these figures.

16 DR JENKINS: Yes. So Figure 7.6 that we are showing is
17 unlimited weekend call plans, and you see that has a lot
18 at zero, because this was one of the call plans that was
19 predominantly included for no additional charge with
20 line rental for many of the operators.

21 THE CHAIRMAN: Right.

22 DR JENKINS: If we go on to Figure 7.7, which is on the next
23 page at the top, {E/17/275}.

24 THE CHAIRMAN: If we can have that expanded.

25 DR JENKINS: Yes, expand that one. So that is the unlimited

1 evening and weekend call plans for the different
2 operators. BT is the black line, and you see
3 Virgin Media is the light blue, Post Office is the
4 yellow.

5 THE CHAIRMAN: Yes.

6 DR JENKINS: If we go down that page.

7 THE CHAIRMAN: Bottom half of that page, 275.

8 DR JENKINS: Figure 7.8. That is right. So this is the
9 unlimited anytime call plans. It gets -- towards the
10 end of this period, it gets harder to benchmark, I think
11 I explain that in the paragraph below. You see a move
12 away from time of day charging for fixed call bundles or
13 segmentation on time of day and move to just inclusive
14 minutes, which I think Mr Bunt explains in his third
15 witness statement was with the increasing competition
16 from mobiles, and the way people were thinking about how
17 they used and made calls, that BT moved its call
18 packages over to look more like a mobile package.

19 I have benchmarked this with the large unlimited
20 minutes plan, but it was a bit hard to benchmark with
21 some of the other participants.

22 THE CHAIRMAN: Right. That is 7.8. Then if we can move on.

23 DR JENKINS: We go to 7.9 {E/17/277}. So here I now have
24 three -- four charts, actually, that talk about
25 the pricing of an out-of-plan call. I have calculated

1 these over a five-minute duration, because most of the
2 suppliers would have an up-front charge and then a per
3 minute charge. So if you have too short a call, that
4 can put too much emphasis on the up-front charge, so
5 I chose a five-minute call duration to benchmark.

6 So these are out-of-plan daytime calls to UK
7 geographic numbers. This would be the price that would
8 be charged. If you did not have a plan, they offered
9 you those for free.

10 THE CHAIRMAN: Yes. Then the next ...

11 DR JENKINS: Then 7.10, it is the same principle, but that
12 is out-of-plan evening calls. {E/17/278}

13 THE CHAIRMAN: Let us look at the top half of that. That is
14 it.

15 DR JENKINS: Again, five-minute calls. If we go down to
16 Figure 7.11, then we get out-of-plan weekend calls. You
17 see -- so for this one again BT had this basically
18 within plan until 2019, so that is basically at zero,
19 and then the BT line is the black line at the end.
20 Other market participants had plans which did not
21 include this. So they had an out-of-plan charge.

22 Then 7.12, {E17/279} is out-of-plan anytime call to
23 UK mobile numbers.

24 THE CHAIRMAN: Yes.

25 DR JENKINS: Again, a five-minute call.

1 THE CHAIRMAN: Thank you.

2 Now, Mr Parker, in terms of the facts underlying
3 each of those increases, is there any dispute about
4 this?

5 MR PARKER: So I think in relation to 7.6-7.8, these are
6 front book prices, and there are potentially different
7 back book prices not captured here. I think there is
8 a reference to something called Isabella. There are
9 pre- and post-Isabella prices which I think was when
10 BT --

11 THE CHAIRMAN: You have not put any alternative --

12 MR PARKER: No, I have not. But this is -- just to say this
13 is what it does capture and what it does not capture.
14 I have not put the full list of prices, but the average
15 revenue per minute analysis, that I think we were going
16 to come on to next --

17 THE CHAIRMAN: We will come on to that.

18 MR PARKER: -- amalgamates all of the call minutes and the
19 relevant revenues to get an average across the --

20 THE CHAIRMAN: Just to make it clear, the call charge
21 increases here. The reason why I went back to this
22 document, it is actually quoted in the Class
23 Representative's skeleton argument, but you have made
24 the qualifier about what the back room cost is. Then
25 after 7.8, 7.9 to 7.12, anything on that?

1 MR PARKER: Again, if I understand correctly, and Dr Jenkins
2 should contradict me if this is not right, this looks --
3 I think you are taking one data point per year per
4 operator where such things exist for each of these call
5 plans, and question whether that is a front book price,
6 a back book price. There could be multiple things going
7 on for all these tariffs.

8 DR JENKINS: Yes, so it is their reported list prices at
9 that point in time. So I would have to check whether
10 they operated at different price points. I think BT did
11 not operate different call price points on different --

12 THE CHAIRMAN: You mean whether you were an existing
13 customer or whether you were a new customer?

14 DR JENKINS: Yes, but I would have to check that, whether --
15 so the difference is if you were switching to them or
16 you called them up and said: I want the new call
17 package, you would get that price, but if you did not
18 call them, you might be on a previous one.

19 THE CHAIRMAN: We certainly have references to front book
20 and back book in the witness evidence.

21 DR JENKINS: Yes, I would have to read this in the evidence
22 to just check that when they changed the outer call plan
23 prices, whether they just had one schedule that worked
24 for everyone, or whether they had multiple schedules
25 depending which plan people were on. I will have to

1 check that.

2 THE CHAIRMAN: Right. All right. Then can we move to
3 page 228 of the joint expert statement, which we looked
4 at just before the break. This is the ARPM.
5 {E/49/228}. This is BT data. Mr Parker looked at it
6 earlier on.

7 MR PARKER: It is BT data for BT and it is Ofcom data for
8 non-BT.

9 THE CHAIRMAN: Right. But I mean, you do not take any issue
10 with this diagram, Mr Parker?

11 MR PARKER: No.

12 THE CHAIRMAN: Dr Jenkins?

13 DR JENKINS: Yes, I do.

14 THE CHAIRMAN: Ah, right.

15 DR JENKINS: I think it would be useful if we could go to
16 the confidential version of the JS.

17 THE CHAIRMAN: So IR ... just a moment.

18 DR JENKINS: E/49/258.

19 EPE OPERATOR: Is it OR, not IR?

20 DR JENKINS: OR. {OR-E/49/258}.

21 So this has an additional column in there, compared
22 with Mr Parker's. So I have some principled reasons why
23 I do not think that average revenue per minute is the
24 right approach for calls, because it --

25 THE CHAIRMAN: Just one second. Let us deal with your side

1 on that now, and then we will revert to Mr Parker on
2 this principle question.

3 DR JENKINS: Yes, which is that average revenue per minute,
4 because people are often buying these bundles which give
5 them the option to make calls, and then if they make
6 fewer calls in that period for which they have paid
7 a certain fixed amount, then the average revenue earned
8 per minute will be higher, even though the customer may
9 have bought the package that suited them, but made fewer
10 calls than another customer.

11 So just as a matter of principle, I think it is best
12 to use the list prices for comparing what was actually
13 offered to customers, particularly where we are thinking
14 about switching decisions, which is people will know
15 what their own usage pattern may be, or maybe they will
16 not, but they will make a judgment on looking at what is
17 being offered to them and comparing the different offers
18 like for like, and so -- and that is certainly what I am
19 interested in at the market definition stage.

20 Then the second point I have made with respect to
21 this ARPM data, which is we are comparing -- the dark
22 column is the BT internal information on call revenue,
23 and the grey final column is for other suppliers that
24 are not BT, which comes from Ofcom. I think then what
25 I have added in is BT's data from Ofcom. It is not

1 showing very well on that, but that is the green column
2 in the middle.

3 So if you use the same Ofcom source for the BT
4 information as the non-BT, and you see that between 2019
5 and 2020 there was a reallocation that Ofcom did, and
6 you see it had a very big impact on the revenue that was
7 attributed to calls for BT, so that in 2020 that
8 shift -- so before 2020 the black and the green columns
9 are not -- they are not identical but they are not
10 massively different, and then you get to 2020 and there
11 is this very big difference, and now the BT Ofcom ARPM
12 data looks very similar to that of the rest of the
13 market.

14 Now, I actually -- I did ask a few questions about
15 do we know what Ofcom did? I could not find any
16 explanation of that. But it made me question whether or
17 not you can do this comparison because of the different
18 sources, and especially when you couple that with
19 looking at the list price evidence, which seems to
20 suggest that the BT pricing and the pricing of the other
21 suppliers was not that different, that it could be that
22 the reason we are seeing this big difference is a data
23 issue, rather than a genuine difference in the average
24 revenue per minute --

25 THE CHAIRMAN: I am sorry to interrupt, because it is not

1 quite clear on the colours here, but the Ofcom data
2 from -- the "BT (Ofcom data)" is the green?

3 DR JENKINS: Yes, it is the green.

4 THE CHAIRMAN: Yes.

5 DR JENKINS: Sorry, I agree with you, that legend looks
6 a bit odd.

7 THE CHAIRMAN: They look black. It is green, right.

8 MR RIDYARD: I understand what you are saying, but is there
9 any reason why the BT numbers would be so much higher
10 than the non-BT numbers?

11 Just to go back to what you were saying about in
12 your view what matters is the list prices, because that
13 is what causes people to choose. Is there -- could you
14 think of a rationalisation for why consumers have done
15 that, seen that the two list prices are similar, but
16 then the outturns are so different between BT and non-BT
17 customers?

18 DR JENKINS: I could not, and so actually --

19 MR RIDYARD: Which leads you to your --

20 DR JENKINS: Which led me to look into this and ask the
21 question: do we have the BT Ofcom data? Because this
22 data looked so weird compared with the list price
23 analysis, and then this came to light. But honestly
24 I do not know what Ofcom did. I do not know if Ofcom
25 went through the same thought process and thought, oh,

1 that looks a bit odd and then they recalibrated. I do
2 not know.

3 MR RIDYARD: Mr Parker, are we missing something here?

4 MR PARKER: It might be worth turning up Dr Jenkins' first
5 report at page 119 {E/17/119}. If you look at the
6 footnote at the bottom there, 165, that is the
7 reallocation of revenues point. At that point,
8 Dr Jenkins had a view that she felt the BT revenue data
9 was reliable, that was the internal BT data, so this top
10 line.

11 To the extent I think that there are potential
12 reasons why list prices might give you different results
13 to ARPMs, I think there could be a front book/back book
14 issue. All we are seeing is the front book prices.
15 There may be people on back book products which are
16 maybe legacy products, people who have hung around for
17 a long time and have not changed. There might be usage
18 differences.

19 Dr Jenkins says, well, what happens if one person is
20 paying £10 a month and uses 20 minutes, and another
21 person pays £10 a month and uses 100 minutes because it
22 is an unlimited package, that may be true on an
23 individual customer base, but the question is: why would
24 that be systematically true for BT customers as opposed
25 to others? So why would it be that BT customers bought

1 these unlimited packages but then did not really use
2 them very much? Or another way of thinking about it is:
3 why would BT not feel the competitive pressure to price
4 down to the costs they are genuinely facing in providing
5 those packages, because they could do -- they could be
6 more attractive. Customers that choose them do not use
7 these products very intensively so they could be more
8 aggressive on price. There could be a product mix
9 effect, which is that although there are different lists
10 prices for different products, BT customers might
11 disproportionately be on more expensive products.

12 I think there is just -- I think there are so many
13 different tariffs out there and so many sort of
14 different weightings, the point of the ARPMs analysis is
15 to amalgamate all of the revenues and divide through by
16 all of the volumes to get an average across all the
17 tariffs, and it seems to me that is a sensible thing to
18 do. That is sort of the effective price, if you like.

19 MR RIDYARD: Yes, but still ... You have provided some
20 possible explanations, I suppose. But we are talking
21 here about the whole of BT's voice customers across ...
22 so this is not just the VOCs or the SFV customers here.

23 MR PARKER: Yes, we cannot distinguish between SFV versus
24 everything else.

25 MR RIDYARD: It is going to be dominated -- these results

1 are going to be dominated by what is happening to the
2 bundle customers because, as you go through time, they
3 become the majority.

4 MR PARKER: Yes, I do not think we have got any particular
5 reason to think that bundles and SFV customers from a
6 calls perspective are very different.

7 MR RIDYARD: No.

8 THE CHAIRMAN: Thank you.

9 Then we turn to, Mr Parker, your fourth report,
10 page 25, on line rental and incremental or total
11 broadband prices, Figures 1 and 2. If you could just
12 run through those. {E/5/25}

13 Let us do them separately for the moment. Can we
14 just have Figure 1 expanded, please, and then ... Yes,
15 because I was not sure what you meant when you said
16 "the price of incremental broadband", so can you just
17 take us through this.

18 MR PARKER: So the red, blue and green lines are the
19 incremental price of broadband within a bundle. I have
20 actually taken this from Dr Jenkins' reports, so these
21 are I think similar to 5.5 to 5.7, though slightly
22 amalgamated.

23 So the dotted line is the BT standard line rental
24 price, that is going up, and the red, blue and green
25 lines are the incremental price of broadband within

1 a dual play bundle. So if you added the dotted line to
2 each of the red, blue and green lines, you would get the
3 total dual play price, but this is just looking at the
4 incremental price of the broadband service within the
5 dual play bundle.

6 THE CHAIRMAN: So in other words, on top of line rental,
7 what you are paying if you are taking a BT dual play
8 bundle.

9 MR PARKER: Yes.

10 THE CHAIRMAN: So the fact -- whether the blue, red, yellow,
11 etc, goes above or beyond the line rental point is
12 really of no significance at all because it is
13 a different pricing.

14 MR PARKER: Yes. So the purpose of putting them on the same
15 graph is to say if you thought that, if you like, there
16 was a fixed relationship between standard line rental
17 and the total bundle price, what you would see is that
18 the incremental broadband prices would all be flat, the
19 standard line rental price is going up, and therefore
20 the dual play prices, when you add them together, are
21 going up by the amount that the standard line rental
22 price is going up. That is not what you see. What you
23 see is the incremental broadband price changes around
24 a lot in order to get the dual play price to be
25 competitive in dual play.

1 THE CHAIRMAN: So taking the red line, for example, looking
2 at it so that -- it starts at £25, so that would be £25
3 plus the line rental.

4 MR PARKER: Yes.

5 THE CHAIRMAN: Then we see it drops right down to just over
6 £10, etc, and then it goes up and down.

7 MR PARKER: Yes.

8 THE CHAIRMAN: So that is what that is showing, right. Then
9 Figure 2 which is across the page {E/5/27}.

10 MR PARKER: So this is the total price, so that is adding --
11 it is the same data but it is adding the standard line
12 rental and the relevant incremental prices, so this
13 is -- those blue, red and green lines are now the total
14 dual play bundle price.

15 THE CHAIRMAN: Let us pause there.

16 Dr Jenkins, especially if this was derived from your
17 report originally, is there any disagreement over the
18 actual facts that are shown here?

19 DR JENKINS: No. The only additional point I would make is
20 that this is drawn from the pure pricing data. It is
21 explained in my first report. So these are new customer
22 acquisition prices by the different parties, so it is
23 the price that they offer in each month, and it includes
24 any promotional activity on those products as well,
25 which I think I described earlier. The way we did it

1 was if you were offered six months free on a 24-month
2 contract, you would not do six months free and then
3 18 months full price, I would spread it over as an
4 average price for the 24 months.

5 THE CHAIRMAN: So it is front book.

6 DR JENKINS: It is even more promotional than front book,
7 because what I have not done is then wait -- okay,
8 someone joined with the front book price at this period
9 and then it is held for 24 months, and then someone else
10 comes in and the front book has changed for them. So it
11 is the price that if you went to whichever -- sorry, in
12 my report I have got all the operators, but if you go to
13 BT's website at that point in time and want the best
14 promotional price for that speed, this is what you will
15 get at any point in time.

16 THE CHAIRMAN: Right, thank you.

17 Then going back to Mr Parker's fourth report again,
18 page 44. This is now ARPU. SFV as against bundles.
19 Figure 4 and Table 1, please. It should be page
20 {E/5/45}.

21 Do you want to just go through this, Mr Parker.

22 MR PARKER: So this is based on the data again in
23 Dr Jenkins' SAC combinatorial, I believe. So this is
24 the total average revenue per user for someone taking BT
25 SFV services, and then someone taking any kind of

1 bundle. So this is not just dual play, this is dual
2 play, triple play, quad play, weighted across all of
3 those, so it is -- and I think it would include BT Sport
4 as well. So this is out of -- this is, again,
5 Dr Jenkins' data that I have presented in a slightly
6 different way.

7 THE CHAIRMAN: Right, but this is just revenue. Right. So
8 any disagreement with this, Dr Jenkins?

9 DR JENKINS: I do not believe so.

10 THE CHAIRMAN: No, because if this is just revenue, we know
11 there is an argument about profitability here, but this
12 is just revenue. All right.

13 Table 1 which should be I think the next page,
14 {E/5/46}.

15 MR PARKER: I think that is just the same number.

16 THE CHAIRMAN: It is the same information, is it not?

17 MR PARKER: Yes, it is the same information, so I do not
18 think there is any --

19 THE CHAIRMAN: Finally can we go to Mr Parker's third
20 report, {E/3/81}. This is SPC two contracts prices as
21 against BT dual play prices.

22 MR PARKER: Yes.

23 THE CHAIRMAN: So this is what we looked at earlier --
24 I think we looked at this.

25 MR PARKER: So this is BT SPC so standalone fixed voice and

1 standalone broadband versus rival dual play pricing.

2 THE CHAIRMAN: Yes, the combination of the standalone voice

3 and the standalone -- you have to add them together,

4 have you not?

5 MR PARKER: The SFV price for BT against the dual play price

6 for rivals.

7 THE CHAIRMAN: Yes, right. Then if we go to {E/3/83},

8 tables 8 and 9.

9 MR PARKER: These are just derived from that figure.

10 THE CHAIRMAN: Right, and is the same true for table 9 which

11 again are the percentages? Yes.

12 MR PARKER: Yes.

13 THE CHAIRMAN: Then can we go figures 10 and 11, page

14 {E/3/98}.

15 MR PARKER: These are the same equivalent charts but for

16 a later time period.

17 THE CHAIRMAN: Is this post-commitment? Yes,

18 post-commitment.

19 MR PARKER: Yes.

20 THE CHAIRMAN: 10 and 11 should be -- that is all blanked

21 out. But I can see why. But let us just go finally to

22 table 10, page {E/3/101}.

23 MR PARKER: Which again should be a reflection. Table 10

24 and 11 are essentially drawn from figures --

25 THE CHAIRMAN: So Dr Jenkins, taking the figures as figures

1 is there any debate or dispute over these?

2 DR JENKINS: I have not presented equivalent analyses on the
3 standalone broadband price of rivals. I accept
4 Mr Parker's assessment of that. I think we discussed
5 this briefly earlier which is whether or not the list
6 prices that have been chosen there are salient ones that
7 are actually representative of what SPC customers of BT
8 who are taking the voice component from BT would have
9 actually paid from the other supplier who was supplying
10 them broadband. I think you cannot know that from this.
11 It is just adding two list prices together.

12 THE CHAIRMAN: But for the purpose of the argument where
13 there is a debate between you on the differential
14 between what in total the SPC is paying, there is no
15 alternative to these figures or tables from your side.

16 DR JENKINS: Yes, there is no alternative.

17 THE CHAIRMAN: Thank you. That is what I wanted to say on
18 pricing.

19 MR RIDYARD: That is very useful.

20 When we think about whether it is the SSNIP test or
21 actually more generally looking at excessive pricing
22 later on, when we talk about the focal point here which
23 is voice services sold on their own, is it necessary for
24 us to look at both access and the call charges and if so
25 how do we do it? Mr Parker, do you want to start on

1 that.

2 MR PARKER: So I have looked at both and I have looked at
3 them separately and I have added them up. I have also
4 looked in my latest report at if you just took the split
5 purchase analysis and said well, what if there was no
6 change -- if calls were competitive and so we do not
7 need to think of any price increase on calls, do you
8 still get the same results, and I say you do.

9 It seems to me if the focal product is access and
10 calls, then you need to be looking at a SSNIP of access
11 and calls over all. Clearly if you have a SSNIP on
12 access and a SSNIP on calls and you have them together
13 you will get a SSNIP on the whole thing because if they
14 are both of appropriate proportion then the weighted
15 average will be above.

16 So I think you could look at everything together or
17 you could look at it separately.

18 MR RIDYARD: Except if call volumes are calling in the time
19 period that you are looking at, that is something we are
20 coming on to in a minute, but if call volumes are
21 falling, then you might get a very different story from
22 looking at average revenue per user than you do from
23 looking at the increase in the price of access and
24 calls.

25 MR PARKER: So that is correct. The other way to do this is

1 to look at the limb 1 analysis directly which looks at
2 average earned use per user as a whole. It seems to me
3 that the way that the SSNIP test is normally done is on
4 a per unit price and therefore I would have a tendency
5 to use effective prices for access. That is the same --
6 for the list price is the average per user because it is
7 a one unit product. For calls it is not the same and it
8 is a bit more complicated.

9 I think if you look back at the calls chart, which
10 is annex A2 of the joint statement, because the
11 substantial difference between the average revenue per
12 unit for BT versus rivals, obviously very much more
13 than --

14 MR RIDYARD: Sorry, which page are you looking at there?

15 MR PARKER: I am sorry. Page {E/49/228}. So if you look at
16 the difference between the BT pink bar and the non-BT
17 bar we are looking there at increases that from 2015 or
18 16 or so, the price differential per unit is more than
19 100%.

20 MR RIDYARD: Yes, it is huge and also the relative, it is
21 growing here I think.

22 MR PARKER: Yes, that is right. Up to 2020 at least.

23 MR RIDYARD: Yes.

24 MR PARKER: Yes, there has been a decline in call volumes
25 but that is obviously associated with a decline both in

1 revenues per user although being offset by this revenue
2 per minute going up and in the cost of providing those
3 calls because if you have fewer calls that you are using
4 you have lower costs as well.

5 MR RIDYARD: Clearly lower costs.

6 MR PARKER: The lower costs if the non-BT calls market is
7 competitive and they are reflecting the costs of those
8 calls are being -- seem to be fed through there. So it
9 seems to me, and I think if I look at the calls volumes
10 for both BT and rivals, although I am not sure that is
11 in any of the reports, they are essentially falling at
12 pretty similar rates. There is not a dramatic kind of
13 mix effect.

14 So I think taking all of that together and if you
15 look at the limb 1 analysis that Mr Duckworth has done,
16 you find that there is an additional effect from calls.
17 So I think take all that together and you end up with
18 a view that, yes, whether you look at access and calls
19 separately or you look at them jointly I think you end
20 up in the same place.

21 MR RIDYARD: Okay. Dr Jenkins.

22 DR JENKINS: Okay. Mr Parker and I take very different
23 approaches to the question of market definition, so when
24 I am using the price information I am using it to help
25 me estimate any elasticity by looking at the switching

1 that I can link to those price changes, so I am using it
2 in concert with the switching evidence.

3 Mr Parker is inferring something directly from
4 the price evidence that he sees and so I think we could
5 make different uses of the price information for that
6 reason.

7 Starting first with Mr Parker's position that you
8 can look at line rental and you can look at calls
9 separately, I think if his position is you can infer
10 directly from the average price that is paid by
11 a customer something about whether or not BT is able to
12 increase prices, then the ARPU for SFV services would
13 seem a natural metric that he might consider.

14 If we went to Figure 3.8 of my first report, which
15 is {E/17/56} I mean, we did see a chart from Mr Parker
16 but this just shows what the ARPU is for SFV services
17 through this period. You can see that there has not
18 been -- there was some increase over the first few years
19 and then it has been declining since that point.

20 If we --

21 MR RIDYARD: Let me just interject. This is something that
22 is really bothersome for us looking at this because you
23 have this pretty flat movement in ARPU and yet the ARPM
24 seems to be saying something quite different, subject to
25 the criticisms and concerns that you have of the ARPU

1 numbers. It is a real problem for us to -- and also the
2 ARPU is doing something very different than looking at
3 line rental on its own. It is quite a challenge to sort
4 of prioritise these different measures of price because
5 you can see that they are all interesting and they are
6 all relevant but we really need to hone in on what is
7 the right price to be looking at for what purpose.

8 DR JENKINS: I agree. I would say this is the focal product
9 which is SFV services and it is calls and access and it
10 is an average revenue measure which Mr Parker has
11 articulated with respect to calls that he thinks is
12 a valuable measure.

13 Now, the calls measure that has been presented, the
14 average revenue per minute, I think as we discussed
15 a little earlier, that is for voice overall. It is not
16 for the customers only, the SFV services customers only.
17 So the inference that Mr Parker is taking from that is
18 that there were SSNIPs on a product that was being
19 supplied to a group of customers that are beyond those
20 that are solely in the Class and beyond the focal
21 product which is voice sold to SFV services.

22 So I mean, I agree that, as he pointed out, like
23 I use BT data predominantly because I think that is the
24 most accurate one. What I doubt is the comparison of
25 the ARPM of BT with the rivals because I think rivals'

1 ARPMs were probably going up as well. It is just not
2 showing in the Ofcom data.

3 THE CHAIRMAN: Can we just get Mr Parker's response to that
4 particular point there because I think it is quite a key
5 one.

6 MR PARKER: So in terms of this Figure 3.8, I think the key
7 thing is to say that starts in 2015. The question for
8 me is where have we got to in 2015? So if you look back
9 at the joint expert statement at {E/49/246}, so what you
10 see is there has been a lot of price increases up to the
11 start of the period and then actually not much happening
12 since then. You have one more price increase and then
13 Ofcom starts looking at it and then there is a price
14 freeze. At the same time, yes, you have -- so what the
15 ARPU does not tell you is whether that was close to the
16 competitive level so we can see that the wholesale line
17 rental price there has gone down over that period but
18 then the ARPU is quite flat within the claim period but
19 I think you need to work out, you need to say, well,
20 where have you started from? If you started from
21 a place that is well above the competitive level the
22 fact that the ARPU is quite flat from there does not
23 stop you observing that there is a SSNIP above the
24 competitive level. It just tells you there may not have
25 been a SSNIP from the beginning of the claim period.

1 MR RIDYARD: Do we have ARPU for prior years, to the years
2 before 2015/2016? Can we take that back to 2009?

3 DR JENKINS: Not back to 2009 I believe. I would have to
4 check, but maybe to 2014 we can. It is what data is
5 available but I would not want to be held to whatever
6 I say on my feet now.

7 MR PARKER: The other way to think about ARPU is to look at
8 the limb 1 analysis because that looks at total revenue
9 for SFV services including calls for SFV customers,
10 total costs and obviously that gets into a broader
11 debate. But that is the other way to sort of think
12 about the whole ARPU and whether that is above the
13 competitive level. So, if you like, that bundles up
14 everything. That is probably not helpful language here,
15 but that combines ARPUs for all of the products or SFV
16 customers only. This is sort of breaking it down to the
17 individual component points.

18 My view is this shows you that there were
19 considerable increases up to the beginning of the claim
20 period and I think you need to take account -- you
21 should not just start at the claim period and say what
22 was going on from the beginning of the claim period.
23 You should look at the difference again.

24 MR RIDYARD: I understand that totally. But if we are
25 looking at the wholesale and retail line rental prices,

1 as it were, you are saying BT is just sort of reselling
2 the Openreach product to consumers. But if there is
3 more going on in the background such as fall in call
4 volumes and if the line rental price is doing
5 a different job over time, it is not just a way in which
6 BT or any other operator re-charges the wholesale cost.
7 It is providing a margin to cover other things that are
8 happening and compensating for the volume reductions and
9 the change in the way in which calls are priced as well.
10 It is a bit more complicated, is it not?

11 MR PARKER: Maybe another point to look at in the annex to
12 the joint statement, well, let us do it from Dr Jenkins'
13 data, so this is the -- if you go to {E/49/253}, so
14 these are ARPUs against direct costs. So the SFV ARPUs
15 or the total revenues and the total costs. Yes, we are
16 seeing that is approximately a 65% margin, varies up and
17 down a bit from year to year. So that is very
18 consistent even though the volumes of calls at least are
19 declining and the volumes of customers are declining.

20 You can look similarly, if you want to do it on more
21 of a contribution margin basis, then you can have a look
22 at the numbers in, if we go to {E/49/231}. Then we have
23 table B22. We have got BT SFV services, revenues and
24 incremental costs and we have the contributions there.
25 Again, quite substantial margins on the basis of -- and

1 these are again ARPUs against, in this case, total costs
2 as calculated by -- well, this comes out of Dr Jenkins'
3 model.

4 MR RIDYARD: Dr Jenkins, yes.

5 DR JENKINS: I think it is agreed between Mr Parker and
6 myself that when we come to limb 1 we are all agreed
7 that we should use ARPU but the question you asked was
8 about what is the right price to use at the market
9 definition stage.

10 MR RIDYARD: Yes.

11 DR JENKINS: What Mr Parker has suggested is we look at the
12 line rental list price and we look at the ARPMs of
13 calls. He is inferring directly from price changes that
14 are observed something about what that means in terms of
15 the switching behaviour of customers and the fact that
16 those price changes are informative about whether or not
17 they would be profitable for a hypothetical monopolist.

18 So the question I am asking is, for that purpose if
19 you are talking about the price of the focal product,
20 which is SFV services, and you want to think about the
21 increase in price of that product, would ARPU have
22 relevance for that?

23 The reason I have not used it, which may be a reason
24 that Mr Parker would also say he does not use it, is
25 I am going to use the price information to match with

1 the actual switching behaviour and try to work out okay,
2 what actually happened when these prices were changed,
3 what sort of response did we see?

4 Now, what is certainly true is that the ARPU does
5 incorporate some of that quantity response in it because
6 it is a mix of the price and the actual purchase that
7 people made of it.

8 But it is not clear to me that Mr Parker thinks it
9 is relevant what switching actually happened. He is
10 saying you can infer from its face something about
11 whether or not it was appropriate and for that then that
12 price seems salient.

13 Now, for the analysis I have done, just to get that
14 in here before we finish for the day, is I have used the
15 line rental price rises as a proportion of ARPU, right,
16 and the reason I have done that is the switching that
17 I am capturing is the choice by customers to cease being
18 an SFV customer and switch to voice in a bundle.

19 So I think for that decision the relevant question
20 is the line rental price. The call prices will actually
21 be the same for them, whether they are an SFV or
22 a bundle customer. I have divided by overall ARPU
23 because that is actually the amount that will be on
24 a customer's bill each month. It will be the mix of the
25 calls they have made and their line rental charge.

1 So when they are thinking about, I have got a line
2 rental increase they think of it as a proportion of the
3 average revenue that they are paying per month.

4 So I have used that because that is the sort of push
5 price that is sensible to link to the switching that
6 I observe and so it is relevant for my analysis. It is
7 not clear that just taken on its face, I disagree
8 with Mr Parker's analysis, I do not think you can
9 conclude anything from those list price rises without
10 thinking through what was the consequence of those price
11 rises in the market.

12 THE CHAIRMAN: Just one moment. (Pause). We will stop now.
13 We will resume at 10 o'clock. There may be a couple
14 more questions on the facts of pricing before we then go
15 on to 1.6. So 10 o'clock tomorrow. Thank you very
16 much.

17 (4.32 pm)

18 (The hearing adjourned until Tuesday, 13 February at
19 10.00 am)

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