
From: Su, Henry
Sent: Thursday, March 05, 2015 9:51 AM
To: Rob Mahini
Subject: Accepted: Invitation: Rob/Henry coffee @ Tue Mar 10, 2015 10am - 11am
(robmahini@google.com)

From: Su, Henry
Sent: Monday, March 09, 2015 11:11 PM
To: Rob Mahini
Subject: Accepted: Updated Invitation: Rob/Henry coffee @ Tue Mar 10, 2015 9:30am - 10:30am (Robert Mahini)

From: Rob Mahini <robmahini@google.com>
Sent: Tuesday, March 10, 2015 11:37 AM
To: Su, Henry <hsu@ftc.gov>
Subject: RE: Contact info

Sorry - bad traffic this morning. Running late, should be there in 5.

On Mar 9, 2015 10:58 AM, "Su, Henry" <hsu@ftc.gov> wrote:
Sure, that's fine. --Henry

From: Rob Mahini
Sent: Monday, March 09, 2015 10:56 AM
To: Su, Henry
Subject: Re: Contact info

Henry - I have a meeting at the FTC now at 11am. Would it be okay to meet earlier tomorrow morning? I get in around 10:30 AM.
On Mar 5, 2015 3:50 PM, "Rob Mahini" <robmahini@google.com<<mailto:robmahini@google.com>>> wrote:
Done - looking forward to it.

On Thu, Mar 5, 2015 at 3:49 PM, Su, Henry <hsu@ftc.gov<<mailto:hsu@ftc.gov>>> wrote:
Sorry, I didn't focus on the proposed time in your earlier email. 10:00 a.m. is fine on Tuesday. Could you send me a calendar invite?

From: Rob Mahini
Sent: Thursday, March 05, 2015 3:42 PM
To: Su, Henry
Subject: Re: Contact info

I have a call that ends around 9:30, and then can come straight after that. I think that would get me there around 10:00 AM.

On Thu, Mar 5, 2015 at 3:32 PM, Su, Henry <hsu@ftc.gov<<mailto:hsu@ftc.gov>><<mailto:hsu@ftc.gov><<mailto:hsu@ftc.gov>>>> wrote:
Can you meet early?

From: Rob Mahini
Sent: Thursday, March 05, 2015 3:31 PM
To: Su, Henry
Subject: Re: Contact info

Henry - do mean the one on 7th and E?

On Thu, Mar 5, 2015 at 3:27 PM, Rob Mahini <robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>>>> wrote:
Sounds great.

On Thu, Mar 5, 2015 at 3:24 PM, Su, Henry <hsu@ftc.gov<<mailto:hsu@ftc.gov>><<mailto:hsu@ftc.gov><<mailto:hsu@ftc.gov>>>>> wrote:
Sure, how about the Starbucks on the corner of 7th and F? It's a little roomier than the one on Indiana.

From: Rob Mahini
Sent: Thursday, March 05, 2015 3:23 PM
To: Su, Henry
Subject: Re: Contact info

Great - how about 10am on Tues? Happy to come to your neck of the woods.

On Thu, Mar 5, 2015 at 1:42 PM, Su, Henry <hsu@ftc.gov<<mailto:hsu@ftc.gov>><<mailto:hsu@ftc.gov><<mailto:hsu@ftc.gov>>>>> wrote:
Rob, any of those mornings will work for me. --Henry

From: Rob Mahini
Sent: Thursday, March 05, 2015 12:40 PM
To: Su, Henry
Subject: Re: Contact info

Hi Henry - sorry about the delay in getting you dates. Could you do coffee on any of Tues, Thurs, or Fri morning of 1

On Wed, Feb 25, 2015 at 8:42 PM, Su, Henry <hsu@ftc.gov<<mailto:hsu@ftc.gov>><<mailto:hsu@ftc.gov><<mailto:hsu@ftc.gov><<mailto:hsu@ftc.gov><>>>>>>
Sure, Rob. Why don't you suggest some dates. All the best, Henry

From: Rob Mahini
Sent: Wednesday, February 25, 2015 3:05 PM
To: Su, Henry
Subject: Re: Contact info

Hi Henry - congrats on the new role! It would be great to grab coffee to catch up - I can give you some background

Thanks,
Rob

On Feb 24, 2015 12:16 PM, "Kimmel, Lisa"

<lkimmel@ftc.gov<<mailto:lkimmel@ftc.gov>><<mailto:lkimmel@ftc.gov><<mailto:lkimmel@ftc.gov><<mailto:lkimmel@ftc.gov><>>>>>>
wrote:

Hi Rob. I am sorry we missed our coffee last week. I wanted to let you know that Henry Su, copied here, is going to

My last official day at the FTC is Friday. I am just moving three blocks down the street to Crowell & Moring, so I hop

All the best,
Lisa

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<mailto:robmahini@google.com>

From: Su, Henry <hsu@ftcexchange.com>
Sent: Thursday, March 19, 2015 12:01 AM
To: Rob Mahini <robmahini@google.com>
Subject: RE: Re:

Yeah, it's getting late here. Certainly, the Chairwoman is prepared to call him at 7:30 a.m. tomorrow. Thanks for checking. -- Henry

From: Rob Mahini
Sent: Wednesday, March 18, 2015 9:58 PM
To: Su, Henry
Subject: Re: Re:

Hi Henry - Sorry, but I haven't heard back from Kent. His assistant thinks he's likely commuting home now. I'll email you when I hear back, but if it's too late by then the times I gave tomorrow morning would still work.

Thanks again -
Rob

On Wed, Mar 18, 2015 at 9:33 PM, Su, Henry <hsu@ftc.gov> wrote:
Rob, I'm still here at the office, (202) 326-3659. --Henry

From: Rob Mahini
Sent: Wednesday, March 18, 2015 9:14 PM
To: Su, Henry
Subject: Re:

Hi Henry - I missed your email til now. Let me know when would be a good time to call.

Thanks,
Rob

On Wed, Mar 18, 2015 at 7:11 PM, Su, Henry <hsu@ftc.gov<<mailto:hsu@ftc.gov>>> wrote:
Dear Rob,

Yes, the Chairwoman would like Mr. Walker's cell number. If you give it to me, I will pass it on to her. I am still at the office. Thank you.

--Henry

Henry C. Su
Attorney Advisor, Office of Chairwoman Edith Ramirez
U.S. Federal Trade Commission
Mail Drop H-444
600 Pennsylvania Ave., N.W.
Washington, DC 20580
Direct: (202) 326-3659<<tel:%28202%29%20326-3659>>
iPhone: (b)(6)
E-mail: hsu@ftc.gov<<mailto:hsu@ftc.gov>>

From: Rob Mahini
Sent: Wednesday, March 18, 2015 5:18 PM
To: Su, Henry; Hipsley, Heather

Subject:

Hi Henry and Heather - we have an urgent situation that Kent Walker would like to speak with the Chairwoman about. I'm happy to set up a time -- alternatively, I could call you and provide his cell phone number for her to call.

Thanks,
Rob

Robert Mahini | Sr. Policy Counsel |
robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>>>

--
Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>>

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Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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From: Rob Mahini <robmahini@google.com>
Sent: Thursday, March 5, 2015 3:29 PM
To: Hipsley, Heather <HHIPPSLEY@ftc.gov>
Subject: #DearMe campaign

Hi Heather - I hope this email finds you well. I wanted to reach out to you on a YouTube global video initiative called [#DearMe](#), which aims to inspire and empower teenage girls. Here's more information for the campaign, which I think both you and the Chairwoman would be perfect for!

Thanks,
Rob

For this campaign, female role models record a video letter to their younger selves with the prompt "If you could go back in time and talk to your younger teenage self, what advice or encouragement would you give her?"

The initiative kicked off with a special video posted to the YouTube Spotlight Channel, which has over 22 million subscribers. We hope this video will inspire many more women around the world to create their own video letters after the launch of this video and help activate the YouTube community and social media. Since the initiative

What We Are Asking For:

- Create a video!
- Film 1-3 minute individual video giving advice to your younger self (prompts & sample questions below)
- Upload video on personal or organizations YouTube Channel andtag [#DearMe](#) to join the movement.
- Promote via social media using hashtag [#DearMe](#)
- Invite other inspiring women in your life to film a video too!

We're really excited about this initiative and hope that you'll participate and ask your friends and family to join the movement with you. Below we have details including prompts and sample questions about filming your own video.

#DearMe Video Recommendations:

- Record the video on a laptop or your phone (landscape mode). No need for professional camera.
- Speak directly to the camera.
- Keep your video between 1-3 minutes.

Overview:

Think of this video as a video letter to your younger self. If you could go back in time, what would you tell your 13-year old self? (Note: we're looking for stories of yourself as a young teenager, it doesn't have to be exactly 13).

Questions and Prompts:

Below are some questions and prompts to help you tell your story. Feel free to answer as many or as few as you want -- it's your story!

If you could go back in time and talk to your younger self, what advice and encouragement would you give?

What kept you awake at night?

- Did you worry too much about what people thought of you?
- Did you feel you weren't good enough? Pretty enough? Popular enough? Smart enough?
- Were you afraid to speak up? Did you feel powerless?
- Did you get picked on? Bullied?
- Did you feel completely alone?

Knowing what you know now, what would you tell yourself to do differently?

- How would you tackle and overcome your fears?
- How would you inspire confidence in yourself?

Paint a picture of your younger self.

- What did you like to do? What were your favorite subjects? What music did you listen to? Who did you have a crush on?
- What kind of woman did you dream of becoming in 10 or 20 years?
- Was there anything you wanted to do that didn't seem possible? Were there people who told you it was impossible?
- Who were your biggest critics?

Sign off your video with powerful words of encouragement (fill in the blank).

- YOU ARE _____ (Strong, fierce, awesome, beautiful, confident, proud, really funny, one amazing woman -- whatever strikes a chord with you!)

End your video with "Love, me" or "Love, [first name]".

Posting Instructions:

Here are a few guidelines for posting to make sure your video joins the campaign with the many other videos uploaded.

- For the video title, please start with **#DearMe:**
- For the video description, please make sure to include #DearMe (ex: Jamie Hill's #DearMe submission)
- For the video tags, include #DearMe, dearme, dear me, female empowerment, girl empowerment, girl power

From: Johanna Shelton <jshelton@google.com>
Sent: Wednesday, March 25, 2015 12:00 AM
To: Hipsley, Heather <HHIPPSLEY@ftc.gov>
Subject: can you give me a quick call

at (b)(6)

thanks much

--

Johanna Shelton
Director, Public Policy
Google
25 Mass Ave NW, 9th FL
Washington, DC 20001
202.709.7005 Google Voice
jshelton@google.com

From: Johanna Shelton <jshelton@google.com>
Sent: Monday, March 23, 2015 7:55 PM
To: Hipsley, Heather <HHIPPSLEY@ftc.gov>
Subject: Google further follow-up

Heather -

Google remains deeply troubled by the FTC's lack of an on-the-record clarification about the effect of the Bureau of Competition staff memo. We are puzzled why the FTC has not affirmed on the record that it took the staff recommendations from the Bureau of Competition, as well as the Bureau of Economics and others, fully into account in the final decision to close the investigation. Over the weekend we saw several press outlets confuse the Bureau of Competition's recommendations for further action with the question of search bias, and we saw a number of press outlets write that the Commission's ultimate decision went against the Bureau of Competition staff recommendations.

It also appears that the FTC is not responding to requests for comment from a number of outlets, nor commenting on the record that the Commission took the staff recommendations into account in its final agency action. This is enabling our competitors to make misleading statements that are not getting corrected. As you know, Google's competitors have used this document release to sow confusion and undermine the FTC's conclusions, especially in Europe. European policymakers are being quoted saying that this is "new" and "crucial".

We believe it is critical for the FTC to defend its reputation, showing that it followed a thorough process and fully took into account the Bureau of Competition staff memo, among other internal agency opinions including the Bureau of Economics. A public statement standing by the FTC's ability to make a final decision after assessing differing internal views would go far in the international space to restore the reputation of the FTC, especially on due process. We recall that in February 2013, when the process and result were similarly called into question by our competitors, every Commissioner, including then-Commissioner Ramirez, wrote a clarifying letter to the editor of Politico standing by the staff and their work in this matter. We believe this unfortunate FOIA incident is similarly worthy of a public statement of the FTC standing by its decision.

I detail some of this confusion and its impact below. We understand the Chairwoman will be in Europe this week and may have opportunities to express that the staff memo was fully taken into account and not inconsistent with the final agency action.

J. - Johanna
(b)(6)

1) Without a clear statement from the FTC to set the record straight, third parties are confusing and distorting the staff recommendations, creating a misleading impression that the FTC failed to take the staff recommendations into account when the Commission closed the investigation.

- Yelp's Luther Lowe has been widely quoted saying the FTC went against the recommendation of its staff. "With the F.T.C. agreeing to a weak settlement **against the recommendation of professional staff**, this anti-consumer behavior has been effectively greenlighted in the United States." (New York Times, 3/19/15, [Take Google to Court, Staff Report Urged F.T.C.](#))
- Matthew Reilly, Simpson Thacher/FairSearch counsel and former FTC official, is claiming on the record that the Commission voted against the division recommendation: "It's really remarkable the staff recommended issuing a complaint, and **the commission not only disagreed** but allowed Google to issue a letter saying 'we won't do it again,' rather than enter into a consent decree" (New York Times, 3/19/15, [Take Google to Court, Staff Report Urged F.T.C.](#))
- Consumer Watchdog, urging the Senate to examine how Google "**escaped prosecution for its anticompetitive practices**" (MediaPost, 3/20/15, [Advocacy Group Calls For FTC To Reopen Google Investigation](#)).
- Scott Cleland, Net Competition Chairman and Microsoft Consultant: "**The FTC staff findings and recommendation are very different from the ultimate FTC-Google settlement, which oddly did not focus primarily on fully resolving the FTC staff's recommendations**", creating "the appearance that the Google antitrust case was resolved for political reasons." (Daily Caller, 3/20/15, [Googlegate: FTC Political Appointees Bury Report Alleging Search Manipulation](#)).

2) It appears the FTC is declining to speak on the record.

- "A spokesman for the agency called the release of the documents unfortunate, but **declined to respond about their contents.**" (New York Times, 3/19/15, [Take Google to Court, Staff Report Urged F.T.C.](#))
- "A representative of the FTC said the agency had no comment on the report." (Reuters, 3/19/15, [Confidential FTC report found Google anticompetitive tactics: WSJ](#)).
- "A representative of the FTC said the agency had no comment on the report." (DailyMail.com, 3/20/15, [Google DID skew its search results: Report reveals tech firm favoured its own services over its rivals](#)).
- "The FTC declined to comment." (CNN, 3/19/15, [Google abused its monopoly power, FTC experts found](#)).
- "The FTC has not responded to a request for comment." (CNET, 3/20/15, [Ugly documents surface in antitrust case that Google settled with FTC](#)).

3) The release of the internal staff memo is creating the very type of confusion in the public that the FOIA exemption for pre-decisional agency analysis is designed to avoid. In particular, press outlets are questioning whether the final decision of the FTC really represented the agency's views, especially on search bias, and are skewing the agency's regular process as internal discord.

- "[W]hether the Federal Trade Commission made the right call when it **rebuffed its own staff recommendation** in 2013 to take Google to court over alleged anti-competitive practices." (Brian Fung and Andrea Peterson, The Washington Post, 3/20/15, [The FTC's internal memo on Google teaches companies a terrible lesson](#)).
- "The FTC's decision not to sue Google **contradicted those findings**." "But the Journal report shows that **U.S. regulators were more worried than they led on**." (CNN, 3/19/15, [Google abused its monopoly power, FTC experts found](#)).
- "Google was almost prosecuted by the US government three years ago for **skewing its search results**, according to a confidential report." (DailyMail.com, 3/20/15, [Google DID skew its search results: Report reveals tech firm favoured its own services over its rivals](#)).
- ['Googlegate': FTC Political Appointees Bury Report Alleging Search Manipulation](#), Daily Caller, 3/20/15.
- [Google cooked search results - FTC](#), RT, 3/20/15

4) This confusion is having a direct impact in Europe and other international investigations.

Ramon Tremosa i Balcells, European MEP from Catalonia: "This **new element and evidence is crucial** and could not come at better time" (NY Times, 3/20/15, [European Lawmaker Pushes Europe to Take Stronger Stance on Google](#)).

--

Johanna Shelton
Director, Public Policy
Google
25 Mass Ave NW, 9th FL
Washington, DC 20001
202.709.7005 Google Voice
jshelton@google.com

Non Responsive

From:ftc100 <ftc100@ftc.gov>
Subject:Reminder - Miles W. Kirkpatrick Award Ceremony
Date:March 10, 2015 at 12:25:22 PM PDT
To:undisclosed-recipients: ;

Dear FTC Alum,

Come celebrate our final 100th anniversary event. Please join us on Monday, March 16 at 1:30 pm in the Constitution Center Auditorium for our final centennial event to celebrate the day 100 years ago that we opened our doors to serve the American public. We will celebrate with a ceremony to award the Miles W. Kirkpatrick Award to William J. Baer and David C. Vladeck for their lifetime of inspired leadership in the agency's core missions of consumer protection and competition. A reception will follow. Please feel free to contact me if you have any questions.

For directions to Constitution Center, please follow this link: <https://www.ftc.gov/news-events/events-calendar/directions-ftc-satellite-building-conference-center>.

Regards,
Katia Barron
Honors Paralegal
Office of Chairwoman Ramirez
Federal Trade Commission
(202) 326-2620 | kbarron1@ftc.gov

Please RSVP to ftc100@ftc.gov.

From: ftc100
Sent: Friday, February 20, 2015 12:26 PM
Subject: Miles W. Kirkpatrick Award Ceremony

Dear FTC Alum,

I invite you to join us as the Federal Trade Commission recognizes the distinguished careers of former Bureau Directors David C. Vladeck and William J. Baer. To recognize the centennial of the FTC's service to the American public, I will have the honor of awarding the Commission's Miles W. Kirkpatrick Award to David and Bill for their lifetime of inspired leadership in our core missions of consumer protection and competition. David was the Director of the Bureau of Consumer Protection from 2009 to 2012. Prior to and after his time at the Commission, David has been a professor at Georgetown University Law Center inspiring students to pursue careers in public

service. Bill was Director of the Bureau of Competition from 1995 to 1999 and served in a variety of roles at the Commission from 1975 to 1980. As part of his long and distinguished career in the antitrust field, Bill has continued his work to promote competition as the current Assistant Attorney General for the Antitrust Division of the Department of Justice.

The ceremony will take place on March 16th at 1:30 pm in the Constitution Center Auditorium with a reception to follow. Please join me in celebrating 100 years since the agency opened its doors with two of our finest Bureau Directors.

With warm regards,
Edith Ramirez
Chairwoman

Please RSVP to ftc100@ftc.gov.

From: Barron, Katia <kbarron1@ftcexchange.com> on behalf of
ftc100 <ftc100@ftcexchange.com>
Sent: Friday, February 20, 2015 2:44 PM
To: Non Responsive
Bcc: Non Responsive
Non Responsive
'bhuseman@amazon.com';
Non Responsive
Subject: Miles W. Kirkpatrick Award Ceremony
Attach: Kirkpatrick Award Invite.pdf

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Chairwoman

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ftc100 <ftc100@ftcexchange.com>
Sent: Friday, February 20, 2015 2:44 PM
To:
Bcc:

Non Responsive

Non Responsive

'bmcnamara@apple.com'; Non Responsive

Non Responsive

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Edith Ramirez
Chairwoman

Please RSVP to ftc100@ftc.gov.

From: Barron, Katia <kbarron1@ftcexchange.com> on behalf of ftc100 <ftc100@ftcexchange.com>
Sent: Tuesday, March 10, 2015 5:43 PM
To: 'Bob McNamara' <rsm@apple.com>; Brendan McNamara <brendan_mcnamara@apple.com>
Subject: RE: Reminder - Miles W. Kirkpatrick Award Ceremony

Good afternoon,

My apologies for the mistaken emails. I have updated our alumni list to reflect Brendan's current email.

Best,
Katia

Non Responsive

From: ftc100 <ftc100@ftc.gov>
Subject: Reminder - Miles W. Kirkpatrick Award Ceremony
Date: March 10, 2015 at 12:25:22 PM PDT
To: undisclosed-recipients: ;

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Regards,
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From: Barron, Katia <kbarron1@ftcexchange.com> on behalf of
ftc100 <ftc100@ftcexchange.com>
Sent: Tuesday, March 10, 2015 5:17 PM

To:

Bcc: Non Responsive 'kandeer@apple.com';

Non Responsive

Non Responsive

'sdillon@apple.com';

Non Responsive

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ftc100 <ftc100@ftcexchange.com>
Sent: Tuesday, March 10, 2015 5:25 PM
To:
Bcc:

Non Responsive

Non Responsive

'bhuseman@amazon.com';

Non Responsive

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Attach: Kirkpatrick Award Invite.pdf

Dear FTC Alum,

Come celebrate our final 100th anniversary event. Please join us on Monday, March 16 at 1:30 pm in the Constitution Center Auditorium for our final centennial event to celebrate the day 100 years ago that we opened our doors to serve the American public. We will celebrate with a ceremony to award the Miles W. Kirkpatrick Award to William J. Baer and David C. Vladeck for their lifetime of inspired leadership in the agency's core missions of consumer protection and competition. A reception will follow. Please feel free to contact me if you have any questions.

For directions to Constitution Center, please follow this link: <https://www.ftc.gov/news-events/events-calendar/directions-ftc-satellite-building-conference-center>.

Regards,
Katia Barron
Honors Paralegal
Office of Chairwoman Ramirez
Federal Trade Commission
(202) 326-2620 | kbarron1@ftc.gov

Please RSVP to ftc100@ftc.gov.

From: ftc100

Sent: Friday, February 20, 2015 12:26 PM

Subject: Miles W. Kirkpatrick Award Ceremony

Dear FTC Alum,

I invite you to join us as the Federal Trade Commission recognizes the distinguished careers of former Bureau Directors David C. Vladeck and William J. Baer. To recognize the centennial of the FTC's service to the American public, I will have the honor of awarding the Commission's Miles W. Kirkpatrick Award to David and Bill for their lifetime of inspired leadership in our core missions of consumer protection and competition. David was the Director of the Bureau of Consumer Protection from 2009 to 2012. Prior to and after his time at the Commission, David has been a professor at Georgetown University Law Center inspiring students to pursue careers in public service. Bill was Director of the Bureau of Competition from 1995 to 1999 and served in a variety of roles at the Commission from 1975 to 1980. As part of his long and distinguished career in the antitrust field, Bill has continued his work to promote competition as the current Assistant Attorney General for the Antitrust Division of the Department of Justice.

The ceremony will take place on March 16th at 1:30 pm in the Constitution Center Auditorium with a reception to follow. Please join me in celebrating 100 years since the agency opened its doors with two of our finest Bureau Directors.

With warm regards,
Edith Ramirez
Chairwoman

Please RSVP to ftc100@ftc.gov.

Non Responsive

From: Rob Sherman [mailto:robsherman@fb.com]
Sent: Thursday, March 26, 2015 1:22 PM
To: Soltani, Ashkan
Subject: Facebook Privacy Event

Hi Ashkan,

Following up on our discussion about you coming out for an event at Facebook, I wanted to let you know that on June 3 (the day before PLSC) we are planning on hosting a small privacy conference at our Menlo Park headquarters. The conference will be open to the public, and the goal of the event will be to have a solutions-oriented discussion of how we as a community need to evolve our thinking on privacy given changes in technology, business practices, and consumer awareness — not just on Facebook but more broadly. We're hoping that you would be able to join us to give a keynote on this topic, since it intersects well with many of the issues you've been thinking about.

We're still finalizing the agenda but anticipate having an interactive component — giving people the ability to workshop a privacy problem — as well as sessions focusing on data-driven privacy solutions, new interfaces (ex., how do you handle privacy disclosures in the absence of a traditional interface), privacy in ad technology, and privacy engineering. (If you have thoughts on other topics that would be interesting, we'd appreciate that feedback as well.)

Our plan is to announce the event and agenda in the next few weeks, so it would be great to hear if you might be able to participate in this event.

Thanks so much — and please let us know if you could use any additional information on this.

Rob

Rob Sherman
Facebook | Deputy Chief Privacy Officer
1299 Pennsylvania Avenue, NW | Suite 800 | Washington, DC 20004 | 202.370.5147

From: <Soltani>, Ashkan <asoltani@ftc.gov>
Date: Wednesday, January 7, 2015 at 10:28 AM
To: Rob Sherman <robsherman@fb.com>
Subject: RE: Facebook 2015 Privacy Summit

Rob

Thanks for the invitation. Unfortunately, I'm not able to participate.
However, I'm told you might want to reach out to someone within DPIP at the FTC who might be of more help.

Hope you're well

-a

From: Rob Sherman [<mailto:robsherman@fb.com>]

Sent: Monday, January 05, 2015 12:18 PM

To: Soltani, Ashkan

Subject: Facebook 2015 Privacy Summit

Ashkan,

As we've discussed, I'm writing to invite you to participate in Facebook's Privacy Summit, an internal meeting of our global privacy team that we hold at our Menlo Park, CA headquarters each year. We're currently finalizing the date for the event but anticipate holding it during the last week in February.

At the Privacy Summit, our privacy team meets to review our privacy program, evaluate how we can improve it over the coming year, and explore important emerging public policy issues that our team will need to consider. A key part of this event is including presentations from external speakers who highlight important developments in privacy and identify areas where they'd encourage us to focus. We are hoping that you'd be willing to give this presentation for our 2015 Summit — probably in the form of about a 45-minute presentation and Q&A.

If you're interested in participating, we'd be happy for you to cover whatever topics you'd prefer. But we think it would be extremely valuable for our team to hear from you about your work at the intersection of technology and policy, on the issues you're focusing on in your role at the FTC, and how technology will impact the way we consider privacy at Facebook as we move into 2015.

Please let us know if you'd be able to join us for this event — and, if so, if you have any scheduling considerations that we should take into account. We also have some funds available to cover the cost of travel, so please let me know if you'd like to discuss that.

Thanks again for considering this invitation, and happy new year.

Rob

Rob Sherman

Facebook | Deputy Chief Privacy Officer

1299 Pennsylvania Avenue, NW | Suite 800 | Washington, DC 20004 | 202.370.5147

From: Watson, Shaundra <swatson@ftcexchange.com>
Sent: Wednesday, February 4, 2015 9:12 PM
To: Rob Mahini <robmahini@google.com>
Subject: RE: CDI Op-Ed on Private Data Re-Usage for Public Good

Hi Rob,

Thanks for your message. I am generally available the last two weeks of February, except Mondays and Feb. 18 and 19.

Thanks,

Shaundra

From: Rob Mahini
Sent: Wednesday, February 04, 2015 5:51 PM
To: Watson, Shaundra
Subject: CDI Op-Ed on Private Data Re-Usage for Public Good

Hi Shaundra -- I thought you might be interested in this op-ed. Also - I'd love to get together for lunch again. What works for you this month?

<http://www.computerworld.com/article/2880192/a-lot-of-private-sector-data-is-also-used-for-public-good.html?nsdr=true>

A lot of private-sector data is also used for public good

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darpa big data Credit: DARPA

The unprecedented collection of data by the private sector has been a boon for the average citizen, but government restrictions could have a chilling effect

By Josh New

Computerworld | Feb 4, 2015 1:14 PM PT

As the private sector continues to invest in data-driven innovation, the capacity for society to benefit from this data collection grows as well. Much has been said about how the private sector is using the data it collects to improve corporate bottom lines, but positive stories about how that data contributes to the greater public good are largely unknown.

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This is unfortunate, because data collected by the private sector is being used in a variety of important ways, including to advance medical research, to help students make better academic decisions and to provide government agencies and nonprofits with actionable insights. However, overzealous actions by government to restrict the collection and use of data by the private sector are likely to have a chilling effect on such data-driven innovation.

Companies are working to advance medical research with data sharing. Personal genetics company 23andMe, which offers its customers inexpensive DNA test kits, has obtained consent from three-fourths of its 800,000 customers to donate their genetic information for research purposes. 23andMe has partnered with pharmaceutical companies, such as Genentech and Pfizer, to advance genomics research by providing scientists with the data needed to develop new treatments for diseases like Crohn's and Parkinson's. The company has also worked with researchers to leverage its network of customers to recruit patients for clinical trials more effectively than through previous protocols.

Private-sector data is also helping students make more informed decisions about education. With the cost of attending college rising, data that helps make this investment worthwhile is incredibly valuable. The social networking company LinkedIn has built tools that provide prospective college students with valuable information about their potential career path, field of study and choice of school. By analyzing the education tracks and careers of its users, LinkedIn can offer students critical data-driven insights into how to make the best out of the enormous and costly decision to go to college. Through LinkedIn's higher-education tools, students now have an unprecedented resource to develop data-supported education and career plans.

Government agencies and nonprofits, which often lack the capacity to do their own large-scale collection and analysis, are using data from the private sector to advance their own missions. The nonprofit organization GiveDirectly discovered that the materials used for housing, such as metal roofs versus cheaper, homemade thatched roofs, are a good indicator of economic status in rural Africa. The group now analyzes satellite imagery from Google Maps to identify the poorest households in Uganda to prioritize aid delivery. Elsewhere in Uganda, a United Nations project has begun mining Facebook data to better understand perceptions surrounding contraception and teenage pregnancy in an effort to improve public health outcomes. By analyzing the content of Facebook posts, UN workers have begun to better understand attitudes towards condom use, abstinence, teen pregnancy and HIV/AIDS — incredibly valuable information in a country where one in four girls between the age of 15 and 19 are pregnant and 7.2% of adults have HIV — and increase the efficacy of the policies and programs to address these public health concerns. Finally, in the United States a researcher at the Food and Drug Administration mined 1.4 million electronic health records from health insurer Kaiser Permanente to determine that the popular arthritis and pain drug Vioxx posed serious health risks and should be withdrawn from the market.

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These beneficial uses of private-sector data are not just one-off, isolated occurrences — just this past month two major tech companies have offered to put valuable and even potentially life-saving data to good use for the public. Facebook will now start matching users' location data to Amber Alerts to rapidly spread awareness about missing children, and Uber will be donating its anonymized transportation data to city governments to help reduce congestion and enable better city planning.

However, it is important to keep in mind that many of these success stories could have been blocked by rules limiting data collection or unnecessarily restricting data reuse. If researchers had not been allowed to analyze data from the electronic health records of Kaiser's patients, it might have taken more time to prove the harmful effects of Vioxx. The takeaway for policymakers should be that data, even or perhaps especially in the hands of the private sector, has enormous potential to improve societal welfare, and so government should be cautious about implementing well-intended restrictions that limit data-driven innovation.

Josh New *is a policy analyst at the Center for Data Innovation, a nonprofit, nonpartisan think tank in Washington, D.C.*

--
Robert Mahini | Sr . Policy Counsel | robmahini@google.com

Non Responsive

Duplicate

From: Watson, Shaundra <swatson@ftcexchange.com>
Sent: Friday, January 9, 2015 5:42 PM
To: Rob Mahini <robmahini@google.com>
Subject: RE: Quick chat

Meeting starting now; will get back to you.

From: Rob Mahini
Sent: Friday, January 09, 2015 2:35 PM
To: Watson, Shaundra
Subject: Re: Quick chat

Kinda. Had a quick question for you - shouldn't take more than 30 seconds. Can I call you now?

On Fri, Jan 9, 2015 at 2:32 PM, Watson, Shaundra <SWATSON@ftc.gov> wrote:
Is it urgent? If not, can we talk Monday afternoon?

From: Rob Mahini
Sent: Friday, January 09, 2015 1:24 PM
To: Watson, Shaundra
Subject: Re: Quick chat

Anything opening up for you?

On Fri, Jan 9, 2015 at 10:05 AM, Rob Mahini <robmahini@google.com<<mailto:robmahini@google.com>>> wrote:
Sure thing, thanks.

On Fri, Jan 9, 2015 at 10:05 AM, Watson, Shaundra <SWATSON@ftc.gov<<mailto:SWATSON@ftc.gov>>> wrote:
Sure, maybe this afternoon. Can I get back to you on possible timing?

From: Rob Mahini
Sent: Friday, January 09, 2015 10:04 AM
To: Watson, Shaundra
Subject: Quick chat

Hi Shaundra - happy new year! Are you around for a quick phone call today?

--
Robert Mahini | Sr. Policy Counsel |
robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com>><<mailto:robmahini@google.com>>>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>>

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Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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From: Rob Mahini <robmahini@google.com>
Sent: Friday, January 16, 2015 11:19 AM
To: Watson, Shaundra <SWATSON@ftc.gov>
Subject: Re: Quick chat

Thanks (b)(6)

Yes. What's your number?

----- Original Message -----

Subject: Re: Quick chat
From: Rob Mahini <robmahini@google.com>
To: "Watson, Shaundra" <SWATSON@ftc.gov>
CC:
Date: Fri, January 16, 2015 6:28 AM

Hi Shaundra - no problem, I'm sorry you had to work so late. There was one thing I wanted to give you and the Chairwoman a heads-up on today that I think she'd want to know about. Could you call me at 9:30? Or would it be better if I give Heather a call? Whatever you think works best.

On Thu, Jan 15, 2015 at 11:25 PM, Watson, Shaundra <SWATSON@ftc.gov<mailto:SWATSON@ftc.gov>> wrote:
Hi Rob,

I am just now leaving work, so I am sorry that I couldn't back to you earlier. I'll be in transit tomorrow morning but could probably talk between 9:30-10:00 if you give me a number where I can reach you.

Thanks,

Shaundra

From: Rob Mahini
Sent: Thursday, January 15, 2015 11:21 AM
To: Watson, Shaundra
Subject: Re: Quick chat

How does the late afternoon look for a phone call? We can lock down a lunch date at the same time.

On Wed, Jan 14, 2015 at 10:17 PM, Watson, Shaundra <SWATSON@ftc.gov<mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov>>> wrote:
Thanks! Let's touch base tomorrow because I'm out on Friday. Also, in re to lunch, the second or third week of February likely works, though it will be freezing outside.

----- Original Message -----

Subject: Re: Quick chat
From: Rob Mahini <robmahini@google.com<mailto:robmahini@google.com><mailto:robmahini@google.com><mailto:robmahini@google.com>>>>
To: "Watson, Shaundra" <SWATSON@ftc.gov<mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov>>>>
CC:
Date: Wed, January 14, 2015 10:05 PM

Hi Shaundra -- absolutely not a problem, please don't apologize! I was happy to see on Monday why you've been so busy -- it was for a very good reason! It would be great to chat Thurs or Friday if you're free.

Also, let's try to get a lunch on the calendar. It's been too long - how does the next couple weeks look for you?

On Wed, Jan 14, 2015 at 12:31 AM, Watson, Shaundra <SWATSON@ftc.gov<mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov>>>> wrote:
Rob,

My sincerest apologies for the delay in getting back to you. I've been absolutely swamped. I'm not sure whether you still have an interest in speaking, but if you do, I am generally around tomorrow. Again, apologies if it was a time-sensitive matter.

Thanks,

Shaundra

From: Rob Mahini
Sent: Friday, January 09, 2015 1:24 PM
To: Watson, Shaundra
Subject: Re: Quick chat

Anything opening up for you?

On Fri, Jan 9, 2015 at 10:05 AM, Rob Mahini <robmahini@google.com<mailto:robmahini@google.com><mailto:robmahini@google.com><mailto:robmahini@google.com>>>> wrote:
Sure thing, thanks.

On Fri, Jan 9, 2015 at 10:05 AM, Watson, Shaundra <SWATSON@ftc.gov<mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov><mailto:SWATSON@ftc.gov>>>> wrote:
Sure, maybe this afternoon. Can I get back to you on possible timing?

From: Rob Mahini
Sent: Friday, January 09, 2015 10:04 AM
To: Watson, Shaundra

From: Watson, Shaundra <swatson@ftcexchange.com>
Sent: Monday, February 23, 2015 12:58 PM
To: Rob Mahini <robmahini@google.com>
Subject: RE: YouTube

Okay, thanks.

From: Rob Mahini
Sent: Monday, February 23, 2015 9:52 AM
To: Watson, Shaundra
Subject: Re: YouTube

Hi Shaundra - hope you had a nice weekend. I could do the 25th - let's go with that.

On Sat, Feb 21, 2015 at 10:42 AM, Watson, Shaundra <SWATSON@ftc.gov> wrote:
Thanks. In re lunch, I'm free March 13, March 19, and March 24-26. Actually, March 25 and 26 are probably the best dates.

From: Rob Mahini
Sent: Thursday, February 19, 2015 08:59 PM
To: Watson, Shaundra
Subject: YouTube

Hi Shaundra - I just wanted to let you know that it's likely that on Monday we'll be launching the product we demoed for the Chairwoman and Ashkan in Mountain View.

I still need to show it to you -- and also get back to you on lunch! I'm out of town next week, so how does early March look for you?

Robert Mahini | Sr. Policy Counsel | robmahini@google.com

Robert Mahini | Sr. Policy Counsel | robmahini@google.com

Non Responsive

On Wed, Mar 25, 2015 at 12:30 AM, Watson, Shaundra <SWATSON@ftc.gov> wrote:
Rob, Apologies, but could we reschedule?

From: Rob Mahini
Sent: Tuesday, March 24, 2015 09:49 PM
To: Watson, Shaundra
Subject: Tomorrow

Hi Shaundra - I have a 10:45 doctor's appointment that should be over in time for us to meet for lunch, but will keep you posted if the doc is running late. Let's shoot for 12:15. Where would you like to meet?

Thanks,
Rob

--

Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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Non Responsive

-----Original Message-----

From: Kyle Andeer [<mailto:kandeer@apple.com>]

Sent: Friday, February 13, 2015 8:41 PM

To: Vedova, Holly L

(b)(6)

Non Responsive

-----Original Message-----

From: Kyle Andeer [<mailto:kandeer@apple.com>]

Sent: Wednesday, February 18, 2015 6:29 PM

To: Vedova, Holly L.

(b)(6)

Holly-

(b)(6)

Kyle

> On Feb 18, 2015, at 8:28 AM, Vedova, Holly L. <HVEDOVA@ftc.gov> wrote:

>

> Kyle,

>

(b)(6)

>

> --Holly

>

>

> -----Original Message-----

> From: Kyle Andeer [<mailto:kandeer@apple.com>]

> Sent: Friday, February 13, 2015 8:41 PM

> To: Vedova, Holly L.

(b)(6)

>

> Hi Holly-

(b)(6)

>

> Kyle

From: Rob Mahini <robmahini@google.com>
Sent: Monday, March 9, 2015 4:02 PM
To: Burstein, Aaron <aburstein@ftc.gov>
Subject: Quick call

Hi Aaron - do you have a moment to chat this afternoon?

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com

From: Brill, Julie <jbrill@ftc.gov>
Sent: Wednesday, March 11, 2015 3:18 PM
To: Rob Mahini <robmahini@google.com>
Cc: Vedova, Holly L. <HVEDOVA@ftc.gov>; Ambrogi, Katherine A. <kambrogi@ftc.gov>
Subject: RE: EFF blog post about Oracle v. Google decision

Thanks much, Rob.

From: Rob Mahini
Sent: Wednesday, March 11, 2015 10:25 AM
To: Brill, Julie
Subject: EFF blog post about Oracle v. Google decision

Julie - it was nice to see you last night at Tech Prom ... It was a fun night, but of course that meant this morning was a bit difficult!

Also, thanks for our discussion on the Oracle case. Below (and [here](#)) is EFF's blog post on the Fed. Ct's decision. I'll highlight one statement, as it flags the broader ramifications that are concerning public interest groups:

... the freedom to reimplement and extend existing APIs has been the key to competition and progress in both hardware and software development.

EFF filed an amicus [brief](#) on behalf of 77 computer scientists (including Ed Felton), and [other amici](#) include Public Knowledge, Mozilla, Open Source Initiative, and other public interest groups. Their concerns are important to consumers who benefit from the competition spurred by free use of APIs. I'm hoping that these groups could have an ally and voice with the SG, and the FTC is the natural fit. Thanks - and happy to discuss.

Dangerous Decision in Oracle v. Google: Federal Circuit Reverses Sensible Lower Court Ruling on APIs

We're still digesting today's [lengthy decision](#) in the [Oracle v. Google appeal](#), but we're disappointed—and worried. The heart of the appeal was whether Oracle can claim a copyright on Java APIs and, if so, whether Google infringed that copyright. According to the Federal Circuit today, the answer to both questions was a qualified yes—with the qualification being that Google may have a fair use defense.

Quick background: When it implemented the Android OS, Google wrote its own version of Java. But in order to allow developers to write their own programs for Android, Google relied on Java APIs. Application Programming Interfaces are, generally speaking, specifications that allow programs to communicate with each other. So when you type a letter in a word processor, and hit the print command, you are using an API that lets the word processor talk to the printer driver, even though they were written by different people.

In May 2012, Judge William Alsup of the Northern District of California [ruled](#) that APIs are not subject to copyright. The court clearly understood that ruling otherwise would have impermissibly—and dangerously—allowed Oracle to tie up “a utilitarian and functional set of symbols,” which provides the basis for so much of the innovation and collaboration we all rely on today. Simply, where “there is only one way to declare a given method functionality, [so that] everyone using that function must write that specific line of code in the same way,” that coding language cannot be subject to copyright.

The Federal Circuit disagreed, holding that Java's API packages were copyrightable, although it sent the case back to the trial court to determine whether Google's copying was nonetheless a lawful fair use.

The implications of this decision are significant, and dangerous. As we and others [tried to explain](#) to the court, the freedom to reimplement and extend existing APIs has been the key to competition and progress in both hardware and software development. It made possible the emergence and success of many robust industries we now take for granted—for mainframes, PCs, workstations/servers, and so on—by ensuring that competitors could challenge established players and advance the state of the art. In other words, excluding APIs from copyright protection has been essential to the development of modern computers and the Internet.

When programmers can freely reimplement or reverse engineer an API without the need to negotiate a costly license or risk a lawsuit, they can create compatible software that the interface's original creator might never have envisioned or had the resources to create. Moreover, compatible APIs enable people to switch platforms and services freely, and to find software that meets their needs regardless of what

browser or operating system they use. The freedom to reimplement APIs also helps rescue “orphan” software or data—systems whose creators have either gone out of business or abandoned their product in the marketplace.

Today's decision puts all of that at risk, potentially handing Oracle and others veto power over any developer who wants to create a compatible program. What is worse, if today's decision is taken as a green light to API litigation, large and small software tech companies are going to have to divert more and more resources away from development, and toward litigation. That will be good for the legal profession—but not so good for everyone else.

The case is far from over. Google may seek a hearing from the full court, or appeal to the Supreme Court. Alternatively, Google can focus on asserting its fair use defense, and hope that fair use can once again bear the increasing burden of ensuring that copyright spurs, rather than impedes, innovation. We're confident that it can, but it shouldn't have to.

--

Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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Robert Mahini | Sr. Policy Counsel |

robmahini@google.com<mailto:robmahini@google.com>><mailto:robmahini@google.com><mailto:robmahini@google.com>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<mailto:robmahini@google.com>>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com

From: Rob Mahini <robmahini@google.com>
Sent: Tuesday, February 10, 2015 6:06 PM
To: Burris, C. Kawezya <cburris@ftc.gov>
Subject: Re: On site today

Hi! Just got back in the office, will come find you.

On Tue, Feb 10, 2015 at 3:04 PM, Burris, C. Kawezya <cburris@ftc.gov> wrote:

Hi Rob,

I'm here at Google today for a conference and wanted to say hi if you are around and not too busy. I'm here until about 4 or so. Best,

Kawezya

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com

From: Burstein, Aaron <aburstein@ftcexchange.com>
Sent: Tuesday, February 24, 2015 12:47 AM
To: Rob Mahini <robmahini@google.com>
Subject: RE: Oracle v. Google White Paper

OK, sounds good.

From: Rob Mahini
Sent: Monday, February 23, 2015 9:02 PM
To: Burstein, Aaron
Subject: Re: Oracle v. Google White Paper

Thanks Aaron. Daryl Joseffer may join us as well (he's outside counsel helping us on the Supreme Court case).

On Mon, Feb 23, 2015 at 5:56 PM, Burstein, Aaron <aburstein@ftc.gov> wrote:
That works. We will need to wrap up right at 5, but we will look forward to the discussion. See you tomorrow.

Aaron

From: Rob Mahini
Sent: Monday, February 23, 2015 05:50 PM
To: Burstein, Aaron
Cc: Non Respo Non Responsive
Subject: Re: Oracle v. Google White Paper

Hi Aaron - 4 pm would work for us if that time is better on your end.

Non Responsive

--

Robert Mahini	Sr. Policy Counsel	robmahini@google.com
---------------	--------------------	--

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Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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From: Burstein, Aaron <aburstein@ftcexchange.com>
Sent: Monday, February 23, 2015 8:56 PM
To: Rob Mahini <robmahini@google.com>
Cc: Non Responsive
Subject: Re: Oracle v. Google White Paper

That works. We will need to wrap up right at 5, but we will look forward to the discussion. See you tomorrow.

Aaron

From: Rob Mahini
Sent: Monday, February 23, 2015 05:50 PM
To: Burstein, Aaron
Cc: Non Responsive
Subject: Re: Oracle v. Google White Paper

Hi Aaron - 4 pm would work for us if that time is better on your end.

Non Responsive

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com

Non Responsive

Non Responsive

Non Responsive

From: Rob Mahini <robmahini@google.com>
Sent: Monday, February 23, 2015 7:05 PM
To: Burstein, Aaron <aburstein@ftc.gov>
Subject: Re: Tomorrow

Hi Aaron - Susan will send you the white paper soon. I'll get back to you on changing the time (I'm checking with everyone.)

On Mon, Feb 23, 2015 at 4:02 PM, Burstein, Aaron <aburstein@ftc.gov> wrote:
1:00 is also a possibility for us, if that helps you at all. Thanks.

-Aaron

P.S. I had understood from Susan that there was a white paper about Google v. Oracle. I didn't receive a copy of it; would it be possible to send it to me?

From: Burstein, Aaron
Sent: Monday, February 23, 2015 3:34 PM
To: Rob Mahini
Subject: RE: Tomorrow

Hi Rob We're juggling a few things tomorrow. Is there any chance we could start our meeting at 3 or 4, instead of 3:30?

Aaron

From: Rob Mahini
Sent: Monday, February 23, 2015 2:21 PM
To: Burstein, Aaron
Subject: Tomorrow

Hi Aaron - Hopefully we're still on for tomorrow from 3:30-4:30 pm. If so, we would love to discuss Oracle v. Google with Julie as well, as we met with the other Commissioners last week but wanted to make sure was also informed on this. I also wanted to note this in case she would like a competition advisor to join the meeting.

For security-desk purposes - it will be me, David Leiber, and Susan Creighton.

Thanks,
Rob

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com

Murray, Anna

From: Rob Mahini
Sent: Tuesday, March 24, 2015 11:01 PM
To: Burris, C. Kawezya
Cc: ALEX DHILLON
Subject: Re: Connecting folks

Hi everyone - Thurs is looking bad for me now because I'm going on vacation Friday. Would love to reschedule lunch for when I get back (I'm just gone a week).

My Wahoos flamed out too ... a very sad weekend. :(

Non Responsive

Non Responsive

On Wed, Mar 4, 2015 at 4:18 PM, Burris, C. Kawezya <cburris@ftc.gov<<mailto:cburris@ftc.gov>>> wrote:
Week of the 23rd is all clear for me so far. As a side note – Sweet Sixteen starts on Thurs/Fri of that week so if games are on during the day I wouldn't mind going somewhere for lunch that is playing them...

Non Responsive

Non Responsive

On Wed, Feb 11, 2015 at 12:49 PM, Burris, C. Kawezya <cburris@ftc.gov<<mailto:cburris@ftc.gov>>> wrote:
Hi Rob,

It was great to see you at the GOAL conference yesterday. Thanks for hanging out with us before your meeting. I wanted to make sure to connect you and Alex - he is included on this email. We are long overdue for a lunch- do you guys want to get together the last week of February? Maybe we can try to rope Katie in as well. Best,

Kawezya

C. Kawezya Burris
Attorney Advisor
Office of Commissioner Julie Brill
Federal Trade Commission
600 Pennsylvania Ave., NW | Washington, DC 20580
Tel: [202.326.2008](tel:202.326.2008)<<tel:202.326.2008>>

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B.A Economics
University of California-Berkeley

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B.A Neurobiology
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Research Assistant- Global Economy and Development
The Brookings Institution

Economic and Business Affairs Bureau
Internet, Communication, and Technology Office Intern
U.S Department of State

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Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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From: Nick Bauer <nbauer@google.com>
Sent: Thursday, January 15, 2015 12:44 PM
To:
Subject: Final Notice -- Google Government Ethics Invoice

To Whom It May Concern:

We are writing regarding an invoice you received from us in 2014. Google complies with federal, state, and local ethics laws, which address gifts from companies like Google. Our records show that you and/or your colleagues may be required to pay for meals or other items you received.

You are receiving this email because the invoice is now past due. This is the final reminder you will receive regarding this invoice. If we do not receive payment, we may be required to treat the activities described on the invoice as a gift from Google to you, which in some instances may need to be publicly disclosed.

If you would like to pay via credit card, please let us know. If you prefer to pay by check, please mail payment to:

Google, Inc.
Attn: Nick Bauer
25 Massachusetts Avenue, NW, 9th Floor
Washington, DC 20001

If you are allowed to accept the items you received from Google, please notify us so that we can adjust our records.

Sincerely,

-Nick
--

Nick Bauer | Political Ethics Legal Assistant | nbauer@google.com | 650-861-7940



From: Nick Bauer <nbauer@google.com>
Sent: Thursday, January 15, 2015 12:44 PM
To:
Subject: Final Notice -- Google Government Ethics Invoice

To Whom It May Concern:

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If you would like to pay via credit card, please let us know. If you prefer to pay by check, please mail payment to:

Google, Inc.
Attn: Nick Bauer
25 Massachusetts Avenue, NW, 9th Floor
Washington, DC 20001

If you are allowed to accept the items you received from Google, please notify us so that we can adjust our records.

Sincerely,

-Nick
--

Nick Bauer | Political Ethics Legal Assistant | nbauer@google.com | 650-861-7940



Luib, Gregory

From: Rob Mahini
Sent: Monday, February 23, 2015 2:59 PM
To: Luib, Gregory
Subject: Re: Quick chat -

Sure thing - I could call you at 2:45. Thanks!

On Mon, Feb 23, 2015 at 2:57 PM, Luib, Gregory <GLUIB@ftc.gov> wrote:

So, of course, I had a meeting scheduled for 2:00 since I emailed you. It should be over by 2:45. Would that work?

Gregory P. Luib
Attorney Advisor
Office of Commissioner Maureen K. Ohlhausen
Federal Trade Commission
600 Pennsylvania Avenue, NW
Washington, DC 20580
(202) 326-3249

From: Rob Mahini
Sent: Monday, February 23, 2015 2:56 PM
To: Luib, Gregory
Subject: Re: Quick chat -

Thanks - is 2:30 an option?

On Mon, Feb 23, 2015 at 2:12 PM, Luib, Gregory <GLUIB@ftc.gov<<mailto:GLUIB@ftc.gov>>> wrote:
Rob – Sure thing. Tomorrow afternoon would be better. Perhaps 2:00 or 3:00?

Gregory P. Luib
Attorney Advisor
Office of Commissioner Maureen K. Ohlhausen
Federal Trade Commission
600 Pennsylvania Avenue, NW
Washington, DC 20580
(202) 326-3249<<tel:%28202%29%20326-3249>>

From: Rob Mahini
Sent: Monday, February 23, 2015 1:28 PM
To: Luib, Gregory
Subject: Quick chat -

Greg - do you have time to talk today or tomorrow?

--

Robert Mahini | Sr. Policy Counsel |
robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com><<mailto:robmahini@google.com>>>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<<mailto:robmahini@google.com>>

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Robert Mahini	Sr. Policy Counsel	robmahini@google.com
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From: Chilson, Neil </O=FTCEXCHANGE/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=NCHILSON>
Sent: Tuesday, February 10, 2015 3:51 PM
To: Rob Mahini <robmahini@google.com>
Subject: RE: CDI Op-Ed on Private Data Re-Usage for Public Good

Rob,

Sorry for the slow response – I was at a conference much of last week and otherwise buried with work. Thanks for the article. Lunch for the rest of this month is a bit crazy, but I could do this Friday or the 26th.

From: Rob Mahini
Sent: Wednesday, February 04, 2015 5:50 PM
To: Chilson, Neil
Subject: CDI Op-Ed on Private Data Re-Usage for Public Good

Thought this would be strike you as interesting. Also - let's get together for lunch again. What works for you this month?

<http://www.computerworld.com/article/2880192/a-lot-of-private-sector-data-is-also-used-for-public-good.html?nsdr=true>

A lot of private-sector data is also used for public good

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Credit: DARPA

The unprecedented collection of data by the private sector has been a boon for the average citizen, but government restrictions could have a chilling effect

By Josh New

Computerworld | Feb 4, 2015 1:14 PM PT

As the private sector continues to invest in data-driven innovation, the capacity

for society to benefit from this data collection grows as well. Much has been said about how the private sector is using the data it collects to improve corporate bottom lines, but positive stories about how that data contributes to the greater public good are largely unknown.

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This is unfortunate, because data collected by the private sector is being used in a variety of important ways, including to advance medical research, to help students make better academic decisions and to provide government agencies and nonprofits with actionable insights. However, overzealous actions by government to restrict the collection and use of data by the private sector are likely to have a chilling effect on such data-driven innovation.

Companies are working to advance medical research with data sharing. Personal genetics company 23andMe, which offers its customers inexpensive DNA test kits, has obtained consent from three-fourths of its 800,000 customers to donate their genetic information for research purposes. 23andMe has partnered with pharmaceutical companies, such as Genentech and Pfizer, to advance genomics research by providing scientists with the data needed to develop new treatments for diseases like Crohn's and Parkinson's. The company has also worked with researchers to leverage its network of customers to recruit patients for clinical trials more effectively than through previous protocols.

Private-sector data is also helping students make more informed decisions about education. With the cost of attending college rising, data that helps make this investment worthwhile is incredibly valuable. The social networking company LinkedIn has built tools that provide prospective college students with valuable information about their potential career path, field of study and choice of school. By analyzing the education tracks and careers of its users, LinkedIn can offer students critical data-driven insights into how to make the best out of the enormous and costly decision to go to college. Through LinkedIn's higher-education tools, students now have an unprecedented resource to develop data-supported education and career plans.

Government agencies and nonprofits, which often lack the capacity to do their own large-scale collection and analysis, are using data from the private sector to advance their own missions. The nonprofit organization GiveDirectly discovered that the materials used for housing, such as metal roofs versus cheaper, homemade thatched roofs, are a good indicator of economic status in rural Africa. The group now analyzes satellite imagery from Google Maps to identify the poorest households in Uganda to prioritize aid delivery. Elsewhere in Uganda, a United Nations project has begun mining Facebook data to better understand perceptions surrounding contraception and teenage pregnancy in an effort to improve public health outcomes. By analyzing the content of Facebook posts, UN workers have begun to better understand attitudes

towards condom use, abstinence, teen pregnancy and HIV/AIDS — incredibly valuable information in a country where one in four girls between the age of 15 and 19 are pregnant and 7.2% of adults have HIV — and increase the efficacy of the policies and programs to address these public health concerns. Finally, in the United States a researcher at the Food and Drug Administration mined 1.4 million electronic health records from health insurer Kaiser Permanente to determine that the popular arthritis and pain drug Vioxx posed serious health risks and should be withdrawn from the market.

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These beneficial uses of private-sector data are not just one-off, isolated occurrences — just this past month two major tech companies have offered to put valuable and even potentially life-saving data to good use for the public. Facebook will now start matching users' location data to Amber Alerts to rapidly spread awareness about missing children, and Uber will be donating its anonymized transportation data to city governments to help reduce congestion and enable better city planning.

However, it is important to keep in mind that many of these success stories could have been blocked by rules limiting data collection or unnecessarily restricting data reuse. If researchers had not been allowed to analyze data from the electronic health records of Kaiser's patients, it might have taken more time to prove the harmful effects of Vioxx. The takeaway for policymakers should be that data, even or perhaps especially in the hands of the private sector, has enormous potential to improve societal welfare, and so government should be cautious about implementing well-intended restrictions that limit data-driven innovation.

Josh New is a policy analyst at the Center for Data Innovation, a nonprofit, nonpartisan think tank in Washington, D.C.

From: Chilson, Neil </O=FTCEXCHANGE/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=NCHILSON>
Sent: Wednesday, January 14, 2015 12:16 PM
To: Rob Mahini <robmahini@google.com>
Subject: RE: Concrete example of use-based approach

Thanks. This is incredibly helpful.

From: Rob Mahini
Sent: Wednesday, January 14, 2015 11:38 AM
To: Chilson, Neil
Subject: Re: Concrete example of use-based approach

So, a use based framework could deal with that as well. If we as a democratic society decide that we don't want data brokers training their algorithms to analyze data in order to make inferences that create inference-based lists, that data use could be prohibited. We might decide that some types of entities shouldn't use data to infer that people have a risk of disease (insurers and others should (my doctor.) It might be good to pin them down on what they mean exactly by "inferences" and how these couldn't be outlawed.

Of course, whether an "inference" is a harm is an important question for the FTC (and it's next report). The way I look at it (a clearly you agree), it's really the the second use after the inference that we as a society should really worry about in most cases

I'll keep looking for examples of use based frameworks stopping inferences, but the lack of these examples doesn't mean it can be done -- this is very new terrain and everyone so far has focused on stopping the "second use" (eg advertising based on health

On notice and choice - I agree. Are they really talking about using that? Or maybe they are thinking that data minimization / deletion would be the FIPPs principles that would deal with the inference "harm."

On Wed, Jan 14, 2015 at 11:14 AM, Chilson, Neil <nchilson@ftc.gov> wrote:

Excellent work here. As I am gaining a better understanding of the objections that have been raised, I think they object to the creation of sensitive inferences REGARDLESS of the use. (I am with you -- it is the use of an inference, not its creation, that could be harmful.) If this is their concern, the use-based approach may not handle that potential "harm." (although any counterexamples you could provide would be very helpful.) However, I am not sure how notice-and-choice could handle the creation of inferences, either. Any thoughts on why they would think N&C would be superior to use in stopping the very creation of inferences?

-Neil

From: Rob Mahini
Sent: Wednesday, January 14, 2015 10:58 AM
To: Chilson, Neil
Subject: Re: Concrete example of use-based approach

It looks like most of our examples took the concrete step of stopping the use of sensitive data. Examples:

- Axiom's "Position on Sensitive Data" (scroll down here<<http://www.acxiom.com/responsible-use-data/>>)
- Google's prevention on use of sensitive data (here<<https://support.google.com/adwordspolicy/answer/143465?hl=en>>)
- Facebook's prevention of use of sensitive "attribution" (here<https://www.facebook.com/ad_guidelines.php>)

On preventing sensitive inferences themselves, we should chat again about this -- but I would push back on the notion that this is a "harm" by itself that a use based approach would even need to address. It's what one does with the inference that could be the problem - using the inference to discriminate v. using the inference for good things (eg, using smart phone data to predict Parkinson's<https://www.michaeljfox.org/foundation/grant-detail.php?grant_id=1118> or using behavior to predict likely high

school dropouts<<http://www.cityyear.org/sites/default/files/PDF/ClosingtheImplementationGap.pdf>> -- p. 12).

Having said that, I'm still looking for examples on stopping inferences and also how inferences aren't all bad.

Thanks,
Rob

On Wed, Jan 14, 2015 at 9:45 AM, Rob Mahini <robmahini@google.com<<mailto:robmahini@google.com>>> wrote:
Just to confirm - is this your home run example? Examples where entities are collecting non-sensitive data but refraining from using it to make sensitive inferences (ie, use based restriction on sensitive inferences.)

Would it be a double (to use the baseball analogy again) if we found examples of collecting sensitive data but refraining from using it to make sensitive inferences?

On Wed, Jan 14, 2015 at 9:24 AM, Rob Mahini <robmahini@google.com<<mailto:robmahini@google.com>>> wrote:
<http://www.iab.net/media/file/ven-principles-07-01-09.pdf>

On Wed, Jan 14, 2015 at 9:18 AM, Chilson, Neil <nchilson@ftc.gov<<mailto:nchilson@ftc.gov>>> wrote:
Can you call me on (b)(6) >?

On: 14 January 2015 09:10, "Rob Mahini" <robmahini@google.com<<mailto:robmahini@google.com>>> wrote:
Just tried you -- wanted to get more clarity on what you mean by addressing "sensitive inferences." Would it be enough to find examples of the use based approach to prevent data discrimination? Or does it need to prevent making any inferences of a sensitive nature?

On Wed, Jan 14, 2015 at 9:06 AM, Rob Mahini
<robmahini@google.com<<mailto:robmahini@google.com>><<mailto:robmahini@google.com><<mailto:robmahini@google.com>>> wrote:
I'm on it. Do you have time to chat for a sec?

On Wed, Jan 14, 2015 at 8:50 AM, Chilson, Neil
<nchilson@ftc.gov<<mailto:nchilson@ftc.gov>><<mailto:nchilson@ftc.gov><<mailto:nchilson@ftc.gov>>>> wrote:

Rob,

This is a Hail Mary and somewhat urgent. One of the offices here (you can guess which) is convinced that a major weakness of the use based approach is that it cannot address sensitive inferences. You and I know that is exactly backwards, but I am looking for concrete examples to counter (to the Chairwoman's office) that mistaken perception. If there is any way I could get this by 10ish, it would likely shift the direction of the debate. Sorry for the urgency, and I understand if this is not doable.

-Neil

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From: Nick Bauer <nbauer@google.com>
Sent: Friday, January 23, 2015 9:21 AM
To: Anderson, Bridget <banderson1@ftc.gov>
Cc: Chilson, Neil <nchilson@ftc.gov>
Subject: Re: Final Notice -- Google Government Ethics Invoice

Great, thank you both!

On Fri, Jan 23, 2015 at 9:08 AM, Anderson, Bridget <banderson1@ftc.gov> wrote:

Nick,

Neil is correct. Commissioner Ohlhausen will be mailing a check to pay for hers. Thank you again for your follow-up.

Regards,

Bridget E. Anderson

Staff Assistant to Commissioner Maureen K. Ohlhausen

From: Chilson, Neil
Sent: Thursday, January 22, 2015 6:42 PM
To: 'Nick Bauer'
Cc: Anderson, Bridget
Subject: RE: Final Notice -- Google Government Ethics Invoice

Nick,

I have been informed by our ethics counsel that I need not pay for the lunch. I believe none of the attendees except for the Commissioner need pay, but Bridget will confirm. Thank you for following up, and please let me know if you need anything else from me.

From: Nick Bauer [<mailto:nbauer@google.com>]
Sent: Friday, January 16, 2015 12:00 PM
To: Chilson, Neil
Subject: Re: Final Notice -- Google Government Ethics Invoice

Hi Neil,

Thanks for your response. To clarify, we had sent you four invoices: one for yourself, and one each for Commissioner Ohlhausen, Anna Davis, and Elizabeth Parisi. This is because we did not have email addresses for the other three attendees. Will you be paying for all four attendees, or just yourself? If you are paying only for yourself, would you be able to provide contact information for the other three attendees?

Once I have this information, I will generate another invoice that will allow you to pay via credit card.

Many thanks,

Nick

On Thu, Jan 15, 2015 at 12:50 PM, Chilson, Neil <nchilson@ftc.gov> wrote:

I would like to pay by credit card. Please let me know how I can do so.

From: Nick Bauer [mailto:nbauer@google.com]

Sent: Thursday, January 15, 2015 12:44 PM

Subject: Final Notice -- Google Government Ethics Invoice

To Whom It May Concern:

We are writing regarding an invoice you received from us in 2014. Google complies with federal, state, and local ethics laws, which address gifts from companies like Google. Our records show that you and/or your colleagues may be required to pay for meals or other items you received.

You are receiving this email because the invoice is now past due. This is the final reminder you will receive regarding this invoice. If we do not receive payment, we may be required to treat the activities described on the invoice as a gift from Google to you, which in some instances may need to be publicly disclosed.

If you would like to pay via credit card, please let us know. If you prefer to pay by check, please mail payment to:

Google, Inc.

Attn: Nick Bauer

25 Massachusetts Avenue, NW, 9th Floor

Washington, DC 20001

If you are allowed to accept the items you received from Google, please notify us so that we can adjust our records.

Sincerely,

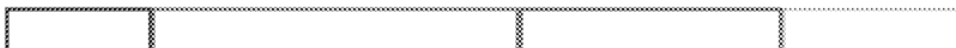
-Nick

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Nick Bauer	Political Ethics Legal Assistant	nbauer@google.com	650- 861-7940
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Nick Bauer | Political Ethics Legal Assistant | nbauer@google.com | 650-861-7940



From: Chilson, Neil </O=FTCEXCHANGE/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=NCHILSON>
Sent: Monday, January 5, 2015 5:56 PM
To: Rob Mahini <robmahini@google.com>
Subject: Re: Nest news

Can you call me now at (b)(6)

On: 05 January 2015 17:43, "Rob Mahini" <robmahini@google.com> wrote:

Thanks Neil. I can email you then to see if you're able to talk, if that works for you. Just wanted to see if I could help something while you're away.

On Jan 5, 2015 5:39 PM, "Chilson, Neil" <nchilson@ftc.gov> wrote:

I am running out the door now. I could potentially talk on my cell around 7:15.

From: Rob Mahini
Sent: Monday, January 05, 2015 5:34 PM
To: Chilson, Neil
Subject: RE: Nest news

Sure, sounds great. I'll email you next week - I want to hear all about Vegas!

Do you have a sec to chat this evening? Just had a quick question.

On Jan 5, 2015 5:26 PM, "Chilson, Neil" <nchilson@ftc.gov<mailto:nchilson@ftc.gov>> wrote:

Thanks, interesting! I am headed to CES in the AM, so maybe early next week?

From: Rob Mahini
Sent: Monday, January 05, 2015 12:20 PM
To: Chilson, Neil
Subject: Nest news

Hi Neil - Happy new year! I thought you'd be interested in this announcement from Nest. Also, if you're around this week, want to meet up for coffee or lunch?

Rob

<http://www.theverge.com/2015/1/5/7487735/nest-thermostat-smart-devices-august-phillips-lq-ces-2015>
Nest's thermostat gets smarter with support for more third-party devices

August smart lock, Philips Hue lights, and Automatic's driving assistant now work with Nest

Nest is today announcing a handful of new additions to the company's "Works with Nest" program<<https://nest.com/works-with-nest/>>, a designation given to third-party smart home products and appliances that can communicate with Nest's learning thermostat and smoke detector. And there are some fairly big names — 15 in all — coming on to help keep the temperature in your home at the perfect level. August's Smart Lock<<http://www.theverge.com/2014/10/1/6974129/august-smart-lock-now-available-apple-store>> can now interact with Nest, for example, and the pairing can be hugely useful if you happen to own both. Lock your doors and Nest will automatically go into away mode (and save energy in the process). Once you unlock the door and head in upon returning, Nest will toggle back into home mode and set things back to a comfortable temperature.

THESE PARTNERSHIPS ARE CRITICAL IF THE GOAL IS MAKING YOUR ENTIRE HOME SMARTER

Got Philips Hue lightbulbs installed throughout the house? They can now flash to make it immediately obvious when your Nest Protect smoke / CO detector goes off; that could be helpful if the Protect is in another room. Even cars can now communicate with Nest — if you're using Automatic. The system designed to better your driving habits can now automatically tell your Nest that you're headed home and warm things up in preparation.

But the new Works with Nest additions extend to appliances too. LG's networked appliances can talk to Nest to help figure out when you've left home. If Nest knows no one is home, it'll tell LG's refrigerator to enter power saving mode. LG can send you a notification if Nest thinks you've accidentally left the oven on.

APPLIANCES FROM LG AND WHIRLPOOL, TOO

More third-party apps like Lutron and Insteon can now control Nest, as well. Most of these partnerships are starting soon. But others, like the pretty great tie-in with Whirlpool's washing machine, will come a bit later in the year. And there's Big Ass Fans; if Nest detects the temperature in your house is dropping, it can tell your Big Ass Fan to enter "winter mode" and redirect hot air downward to warm things up — without having to turn up the thermostat every time.

Nest says that one in 10 of its customers are utilizing the Works with Nest platform in some capacity, a good sign that consumers are eager for a smarter home. And if that's the end goal, partnerships like these and wide compatibility will be critical to making it happen. Keep in mind that Nest already works with popular devices like Jawbone fitness tracker, Logitech remotes, Dropcam security cameras, and services like Google Now and IFTTT. We doubt Nest will be tagging team with Honeywell anytime soon (<http://www.theverge.com/2014/6/10/5793536/the-heat-is-on-honeywell-is-finally-ready-to-challenge-nest>), but the company seems determined to gather plenty of other smart home products under its umbrella. Here's the full list of what's coming.

Now: August smart lock, Automatic driving assistant, Insteon, LG appliances, Lutron, Ooma Telo, Philips Hue, Unikey Kevo smart lock, Withings Aura sleep system

Later: Beep Dial (February), Big Ass Fans (February), Chargepoint home EV charging stations (June), Whirlpool appliances (April), Zuli smart plug (April)

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Robert Mahini | Sr. Policy Counsel |

robmahini@google.com <<mailto:robmahini@google.com>> <<mailto:robmahini@google.com>> <<mailto:robmahini@google.com>>

From: Apple <appleid@id.apple.com>
Sent: Monday, March 23, 2015 1:36 PM
To: Moore, Derek <dmoore3@ftc.gov>
Subject: How to reset your Apple ID password.

Dear Derek Moore,

You recently initiated a password reset for your Apple ID. To complete the process, click the link below.

[Reset now >](#)

This link will expire three hours after this email was sent.

If you didn't make this request, it's likely that another user has entered your email address by mistake and your account is still secure. If you believe an unauthorized person has accessed your account, you can reset your password at My Apple ID.

Apple Support

My Apple ID | Support | Privacy Policy
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From: Apple <appleid@id.apple.com>
Sent: Monday, March 23, 2015 1:57 PM
To: Moore, Derek <dmoore3@ftc.gov>
Subject: Your Apple ID information has been updated.

Dear Derek Moore,

The following changes to your Apple ID (dmoore3@ftc.gov) were made on March 23, 2015 at 5:56:56 PM (GMT):

Shipping and/or billing address

If you need additional help, contact Apple Support.

Apple Support

My Apple ID | Support | Privacy Policy
Copyright © 2015 Apple Inc. 1 Infinite Loop, Cupertino, CA 95014, United States All Rights Reserved.

From: Apple <appleid@id.apple.com>
Sent: Monday, March 23, 2015 1:53 PM
To: Moore, Derek <dmoore3@ftc.gov>
Subject: Your Apple ID password has been reset.

Dear Derek Moore,

The password for your Apple ID (*dmoore3@ftc.gov*) has been successfully reset.

If you didn't make this change or if you believe an unauthorized person has accessed your account, go to iforgot.apple.com to reset your password immediately. Then sign in to My Apple ID to review and update your security settings.

If you need additional help, contact Apple Support.

Apple Support

My Apple ID | Support | Privacy Policy
Copyright © 2015 Apple Inc. 1 Infinite Loop, Cupertino, CA 95014, United States. All Rights Reserved.

From: Apple <noreply@apple.com>
Sent: Monday, March 23, 2015 1:57 PM
To: Moore, Derek <dmoore3@ftc.gov>
Subject: Your Apple ID was used to sign in to FaceTime and iMessage on an iPhone 5s.



Dear Derek Moore,

Your Apple ID (**dmoore3@ftc.gov**) was used to sign in to FaceTime and iMessage on an iPhone 5s named "Derek's iPhone".

Date and Time: March 23, 2015, 10:56 AM PDT

If the information above looks familiar, you can disregard this email.

If you have not recently signed in to an iPhone with your Apple ID and believe someone may have accessed your account, go to My Apple ID (<https://appleid.apple.com>) and change your password as soon as possible.

Apple Support

[My Apple ID](#) | [Support](#) | [Privacy Policy](#)

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From: Apple <noreply@apple.com>
Sent: Monday, March 23, 2015 1:56 PM
To: Moore, Derek <dmoore3@ftc.gov>
Subject: Your Apple ID was used to sign in to iCloud on an iPhone 5s.



Dear Derek Moore,

Your Apple ID (**dmoore3@ftc.gov**) was used to sign in to iCloud on an iPhone 5s.

Date and Time: March 23, 2015, 10:55 AM PDT

If the information above looks familiar, you can disregard this email.

If you have not recently signed in to an iPhone with your Apple ID and believe someone may have accessed your account, go to My Apple ID (<https://appleid.apple.com>) and change your password as soon as possible.

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Non Responsive

From: Schwab, Jennifer

Sent: Wednesday, February 18, 2015 9:23 AM

To: 'Brendan McNamara'; Non Responsive

Subject: FW: Cathy Non Re

(b)(6)

From: Kyle Andeer <kandeer@apple.com>
Sent: Sunday, March 1, 2015 8:34 PM
To: McSweeny, Terrell P. <tmcsweeny@ftc.gov>
Subject: Fwd: SEPs
Attach: Apple Inc. Submission to EC Public Consultation on Patents and Standards 2-14-15.pdf; ATT00001.htm

Commissioner McSweeny,

I hope this finds you well. My colleague BJ Watrous (Apple's VP and Chief IP Counsel) and I will be in Washington, D.C. next week to discuss recent developments related to IP and standards. We are going to be meeting with staff on Wednesday. I know this issue has been of interest to you in the past. We would be more than happy to stop by and discuss this or any other subject if you would like.

Best,
Kyle

? Kyle Andeer | Senior Director, Competition Law & Policy | Office: (408) 862-9307 | Mobile: (b)(6) kandeer@apple.com

Begin forwarded message:

Non Responsive

Apple Inc.

Response to DG Enterprise and Industry Consultation on Patents and Standards

14 February 2015

Apple, Inc.

Response to DG Enterprise and Industry Consultation on Patents and Standards

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Apple, Inc.

Response to DG Enterprise and Industry Consultation on Patents and Standards

I. EXECUTIVE SUMMARY OF APPLE'S RESPONSE¹

Apple values invention and respects intellectual property. Innovation is the cornerstone of Apple's business – and its history – and patents are critical to protecting the innovations embodied in Apple's differentiated products and services. We recognize that we are not alone in investing in and valuing innovation. To this end, our company has a long history of respecting the intellectual property rights of others and taking voluntary licenses when appropriate, reasonable and fair.

It is fundamental that owners of valid, enforceable and infringed patents should be able to obtain reasonable compensation for others' use of their patented technology. But the right to reasonable compensation is not unbounded. Compensation must be tied to the actual patented invention. Compensation beyond the value of the patented technology is a form of unjust enrichment to be guarded against. Valuation issues are especially acute in the context of standard essential patents (SEPs) that are subject to commitments to license on fair, reasonable and non-discriminatory (FRAND) terms. Apple has witnessed some SEP owners employ a series of tactics intended to leverage royalties beyond the value of their patented inventions.

Apple believes the following topics raised by the Consultation require the most immediate attention:

- **SEP Declarants Are Not Entitled to Special Legal Privileges.** Ownership of a SEP can confer market power, and the obligation of SEP holders to license on FRAND terms is designed to protect against abuses of such power. Nonetheless, some SEP holders seek to hijack the FRAND promise and flip FRAND's pro-competitive limitations to create new *privileges* that give them the right to assert infringement and collect royalties in a manner not available to any other patent holders. To obtain compensation for patents that are *not* encumbered by a FRAND declaration, patent owners must prove infringement, withstand challenges such as validity and enforceability, and thereafter prove the value of their patented innovations in a damages analysis – separately, for each and every patent. SEP licensors should not be placed above the law. These traditional legal rules and burdens of proof should apply to them equally. Participation in

¹ Response submitted by Apple Inc. ("Apple"), a corporation with its principal executive offices at 1 Infinite Loop, Cupertino, California 95014, United States. The reference person for this response is BJ Watrous, e-mail: bjwatrous@apple.com. Apple manufactures and sells mobile communication devices, media devices, portable digital music players and personal computers. It also sells a variety of related software, services, peripherals, networking solutions, and third-party digital content and applications. Apple does not qualify as a "small and medium sized enterprise" according to the EU definition. Apple is registered in the EU Transparency Register with ID 588327811384-96. Apple approves of the publication of its response. This response does not include confidential information.

standard-setting and the self-declaration of one's allegedly "essential" patents does not give certain patent owners the right to (i) skip the traditional burdens of proof or (ii) stake a special claim to royalties that exceed the value of the patented technology. Such novel privileges would be incompatible with the FRAND obligation.

- **Mandatory "Blanket" Portfolio Adjudication Is Incompatible with FRAND Licensing.** Some SEP holders believe they have the right to a "blanket" portfolio license – that is, the right to require payment of royalties for *all* of the SEPs they may hold that are allegedly essential to a particular standard (or group of standards), even if the applicability or validity of some of those patents is in dispute. Such patent holders, moreover, are unwilling to license any of the patents in their SEP portfolio, or a particular SEP portfolio, unless the licensee agrees to pay for a license to the entire portfolio or at the very least, all the SEPs relevant to a particular standard or suite of technologies. These "blanket" (all or nothing) portfolio demands are incompatible with the commitment to license on FRAND terms. By focusing on the size of a SEP patent portfolio instead of the individual merits of each patent in the portfolio, blanket portfolio licensing can encourage non-FRAND outcomes. Some argue that blanket portfolio licensing is necessary to promote efficiency and to accelerate their time-to-money and return-on-investment, but velocity should not trump veracity. Blanket portfolio licensing practices promote, rather than mitigate, patent hold-up.
- **National Courts Should Remain the Preferred Path to Dispute Resolution.** Efforts to improve and clarify FRAND obligations can reduce uncertainty, assist in building common understandings across industry, and thus encourage the private resolution of licensing disputes. But disputes will still occur. When they do, the transparent and exacting processes of national courts are the best way to analyze the infringement allegations of a SEP holder, challenge the validity and enforceability of any asserted patent, and properly value the contributions of the patented technology. Alternative dispute resolution also can be a useful business tool for private parties who cannot otherwise agree on a FRAND royalty, but only when voluntary and the result of mutual agreement. Moreover, in order to ensure an outcome that is fair, reasonable and non-discriminatory – not just between the dueling parties, but across the total addressable market of would-be licensors and would-be licensees – such alternative dispute resolution processes should be grounded in the merits of individual patents, remain consistent with contemporary concepts of patent valuation (*i.e.*, smallest salable unit, royalty stacking, patent exhaustion, etc.), respect traditional burdens of proof, and be both public and precedential similar to a court decision.
- **License Level Discrimination Violates the FRAND Promise.** Discrimination among implementers – both among and between different levels in the value chain – is incompatible with the promise to license on FRAND terms. Nonetheless, there are those SEP holders that refuse to license some implementers who are otherwise willing and able to pay FRAND compensation. This *selective refusal* to license can be used as a competitive weapon. Many SEP licensors

prefer to license higher in the value chain in an intentional effort to collect a larger royalty on a more expensive product. Such “level discrimination” violates the plain language of the FRAND promise, is contrary to Commission pronouncements about FRAND policy, ignores historical and current licensing practices, and can function as a tool for anti-competitive abuses.

- **Royalty Calculation Methodologies Must Reflect the FRAND Promise.** FRAND compensation should reflect the value of the patented invention. This value should be based on the patent’s merits – separate and apart from any value associated with its inclusion in a standard or any value derived from inclusion in a multi-function device (like an iPhone), and mindful of the aggregate impact of any individual FRAND royalty on the licensee and other implementers (*i.e.*, royalty stacking).
 - Many courts and regulators have embraced the concept of the “smallest salable patent practicing unit” to focus royalty analyses on the patented invention. Under this valuation methodology, the royalty calculation is based on the value of the particular component, sub-component or portion thereof that practices all or substantially all of the patented invention. In many cases, the smallest salable unit will be further apportioned to arrive at a royalty base that best corresponds to the claimed invention. This approach avoids attributing to the patentee any value associated with a particular patent’s inclusion in a standard. It also helps avoid awarding to the patentee/licensor any extra royalties related to the contributions and innovations of others (*i.e.*, marketing and manufacturing investment, component choices, other patented technologies, brand value, etc.).
 - There are over 100,000 patents and applications self-declared to the various cellular standards, held by dozens of different would-be licensors. Any calculation of a FRAND royalty should consider the impact on implementers of stacking these royalties. Evaluating the implications of any one royalty demand, from any one party, on any one patent is important to ensure that no single patentee/licensor is being either over-compensated or under-compensated. In order to guard against excessive royalty stacking, each patentee/licensor of FRAND-encumbered SEPs should be evaluated in view of that licensor’s *pro rata* ownership of all SEPs for the standard in question.
- **Licensors Should Not Be Permitted to Mandate Cross-Licensing of Non-SEPs.** SEP owners should not be permitted to use the market power of the standard to force implementers to cross license their non-SEPs, or to demand additional compensation for their own non-essential technologies. Demanding licenses to non-SEPs should be recognized as an improper use of SEPs as a means to coerce access to an implementer/licensee’s non-essential, differentiating technologies. Such coerced licenses to non-SEPs can undermine beneficial product differentiation and dis-incentivize investments in differentiating innovations.

- **Each Licensor of FRAND-Encumbered SEPs Should Be a “Willing Licensor”.** If an implementer/licensee has an obligation to be a “willing licensee” for purposes of determining whether or not a SEP holder may properly seek an injunction under the competition laws, then so too should a patentee/licensor be required to be a “willing licensor.” The characteristics of a “willing licensor” should include providing timely and adequate information sufficient to enable the would-be licensee to assess whether an offer is FRAND. In addition, a “willing licensor” should be expected to provide a detailed description of its patents, including relevant claim charts, a clear methodology leading to a specific FRAND rate, and sufficient information to allow the implementer to verify the non-discriminatory nature of the offer. If requested, a “willing licensor” also should be willing to extend a “cash-only” licensing offer. Without a “willing licensor”, it is difficult to imagine an “unwilling licensee.” Courts, agencies and standard setting organization (SSO) patent policies should explicitly recognize such obligations, and a “willing licensor” analysis should be required prior to any court’s issuance of injunctive relief for a FRAND-encumbered SEP.
- **Licensors Should Not Be Entitled to Injunctive Relief, Except in Very Limited Circumstances.** The Commission’s *Motorola* and *Samsung* precedents, as well as the Advocate General’s Opinion in *Huawei v. ZTE*, are part of the growing international consensus that injunctive relief based on FRAND-encumbered SEPs against willing licensees is an actionable abuse of the competition laws. In the absence of injunctive rights, the SEP-holder always retains the option of seeking FRAND-level damages using traditional legal procedures. With respect to concerns over bad faith delays or regarding non-European jurisdictions that do not provide for remedies in the event of bad faith litigation tactics, SSOs should consider policy provisions enabling the award of costs and interest among SSO Members to dis-incentivize bad faith abuses by either party.
- **SEP Transparency Should Be Improved.** The current system of self-declaration in SSOs and limited scrutiny by patent offices has resulted in a large number of patents declared as SEPs that turn out to be invalid and/or not actually essential to the implementation of the standard when tested in litigation. This has produced “high-volume/low-quality” SEP portfolios that allow certain SEP owners to claim a disproportionate share of royalties associated with the standard, while insulating their portfolios from robust review. One way to address such concerns could include development of an industry-led “gatekeeping” function”, *i.e.* have a trusted and independent organization vetting and certifying declared patents as more likely than not to be “essential” to a subject standard.

II. INTRODUCTION: APPLE'S CORE INTERESTS IN PROMOTING INNOVATION AND STANDARDIZATION

A. Apple is an Innovator, an Active SSO Participant, and Both a SEP Licensor and Licensee

Apple is one of the world's leading innovators. We invest nearly six billion Euros annually in R&D.² We own tens of thousands of patents and an international portfolio consistently ranked among the strongest³ and most valuable in the world.⁴ Apple is known for its unique and differentiating technology, but we are also a leader and key technological contributor to many SSOs.⁵ As a result, Apple's portfolio includes a significant number of patents declared essential to various industry interoperability and technical standards.

Apple's products implement many standards, and we rely on the commitment of third parties to license their SEPs on FRAND terms and conditions. Apple has SEP licenses with dozens of SEP holders and has paid *billions of dollars* in royalties to license SEPs, including patents allegedly essential to GSM, GPRS, UMTS, LTE, 802.11, H.264, MPEG-2, MPEG-4 and Audio MPEG.

Apple is both a willing licensee and a willing licensor. Whether we are licensing our own FRAND-encumbered SEPs to others or negotiating an inbound SEP license from a third party, we do so based on the foundation of three core principles:

- An appropriate royalty that reflects each licensor's *pro rata* ownership of all patents essential to a particular standardized technology;
- A common royalty base used equally and consistently by all licensees and licensors in royalty calculations, and one that reflects no more than the value of the component (*i.e.*, smallest salable unit) that practices all or substantially all of the patented, standardized technology sought to be licensed; *and*

² Apple, *Annual Report 2014* (“[t]otal R&D expense was US\$ 6.0 billion, US\$ 4.5 billion and US\$ 3.4 billion in 2014, 2013 and 2012, respectively”), available at <http://files.shareholder.com/downloads/AAPL/3848494678x0x789040/ED3853DA-2E3F-448D-ADB4-34816C375F5D/2014_Form_10_K_As_Filed.PDF> (last visited 13 Feb. 2015).

³ See IEEE Spectrum, *Patent Power Scorecard*, 2013, showing that Apple has the most powerful patent portfolio among “electronics” manufacturers, available at <http://spectrum.ieee.org/static/interactive-patent-power-2013#anchor_elec> (last visited 13 Feb. 2015); see also Ambergite, *Apple vs Microsoft vs Google - who has the strongest patent portfolio?* – available at: <http://www.ambergite.com/index.php/amberblog/entry/apple-vs-microsoft-vs-google-who-has-the-strongest-patent-portfolio#sthash.kchEE6Hf.dpuf>.

⁴ The value of Apple's patent portfolio was estimated at around US\$ 20 billion in 2013. See <<http://tinyurl.com/pj43l2c>> (last visited 13 Feb. 2015).

⁵ For instance, Apple was the promoter of the IEEE P1394 Working Group that developed the data transfer standard implemented in Apple's FireWire and Sony's i.LINK. See <<http://1394ta.org/about/>> (last visited 13 Feb. 2015). Apple likewise contributes to ETSI and 3GPP Standards.

- Injunctions should be rarely available, if ever, to licensors of FRAND-encumbered SEPs, especially when monetary compensation is otherwise available to the licensor for the use of its patents.⁶

B. Hold-up Problems Related to SEPs are Real and Should Be Addressed By the Commission to Promote European Markets

The potential for SEP hold-up⁷ is a significant concern for standardization.⁸ The threat of SEP injunctions is real and creates unfair negotiating leverage for licensors. As one SEP-holder's expert witness famously said, it "takes only one bullet to kill"⁹ (*i.e.* a single successful injunction based on a single SEP can force the implementer to settle on the SEP-holder's non-FRAND terms).

Courts in Europe, and in particular in Germany, have been the preferred venues for SEP-based injunctions.¹⁰ Motorola obtained an injunction against Apple in Germany and would have barred standards-compliant Apple products from the German market if Apple had not agreed to settle on Motorola's (abusive) terms.¹¹ Injunctions have been granted based on SEPs by other German courts, even if these have received less public attention.¹²

⁶ See Apple, *Letter from B. H. Watrous Jr., VP and Chief IP Counsel, Apple Inc. to L. J. Romero Saro, ETSI Director General*, 11 November 2011, available at <<http://www.scribd.com/doc/80899178/11-11-11-apple-letter-to-etsi-on-frand>> (last visited 7 Feb. 2015); see also Apple Remarks for ITU Patent Roundtable (Geneva, Switzerland - Oct. 10, 2012), available at <http://www.itu.int/dms_pub/itu-t/oth/06/5B/T065B0000340015PDFE.pdf> (last visited 7 Feb. 2015).

⁷ Hold-up may involve a "take it or leave it" royalty demand made possible by the mere declaration of a patent as standard-essential, and often accompanied by the threat of an injunction. See *Microsoft Corp. v. Motorola, Inc.*, 696 F.3d 872, 876 (9th Cir. 2012).

⁸ *Apple Inc. v. Motorola, Inc.*, 869 F. Supp. 2d 901, 913 (N.D. Ill. 2012) ("[B]ecause a prospective licensee has no alternative to licensing the patent[,], he is at the patentee's mercy.").

⁹ Testimony by Samsung's expert D. Teece in the Google's Motorola Mobility case against Microsoft related to H.264 patents, cited at <<http://www.fosspatents.com/2012/02/motorola-likens-its-enforcement-of.html>> (last visited 13 Feb. 2015).

¹⁰ This fact is conveniently ignored by studies that focus only on litigation in the United States. See, e.g., Gupta, Snyder, *Smart Phone Litigation and Standard Essential Patents*, Working Paper, May 2014, available at <http://www.law.northwestern.edu/research-faculty/searlecenter/events/entrepreneur/documents/Gupta_smartphone-litigation-working-paper.pdf> (last visited 13 Feb. 2015).

¹¹ Commission Decision of 29 April 2014 in Case AT.39985 - *Motorola - Enforcement of GPRS Standard Essential Patents* (hereinafter, "Case AT.39985 – Motorola"), recital 320.

¹² Apple is aware of several examples in Germany including: File No.4a 0 95/97 (Dusseldorf District Court, 7 October 2008) in relation to the MPEG-2 standard; File No.2 U 124/08 and 132/08 (Dusseldorf Court of Appeal, 14 and 28 January 2010) rejecting the appeal against the decision of the Dusseldorf District Court in relation to File No.4a 0 95/97 of 7 October 2008 concerning the MPEG-2 standard; File No.7 O 100/10 (Mannheim District Court, 18 February 2011) in relation to the UMTS standard; File No.6 U 29/11 (Karlsruhe Court of Appeal, 18 April 2011) rejecting the application for preliminary stay of the decision of the Mannheim District

Given the potential enterprise-threatening impact of market exclusion, standards implementers may be forced to accept abusive settlement terms if they perceive even a modest risk of an injunction issuing. Numerous real-life examples show that patent hold-up is a real concern, as the threat of injunctions invariably leads to excessive royalty demands. In a recent US case involving an IEEE standard¹³ the court awarded damages of US\$ 0.0956 per unit, vis-à-vis the SEP holder's initial demands for thousands of dollars per Wi-Fi access point,¹⁴ and eventual in-court royalty demand of US\$ 16.17 per unit. In another recent case, the FRAND rate per Xbox unit was set at US\$ 0.03471, as compared to Motorola's initial demand of US\$ 6-8 per unit.¹⁵ This reduced the claimed royalty rates from about US \$4 billion per year to a FRAND-compliant rate of less than US \$2 million annually.

These types of abusive demands, and many others like them, are made possible by the misuse of SEPs and coercive licensing practices in violation of the FRAND commitment. In these cases, the defendants were large corporations with significant financial means, and so were able to challenge the patent holder's hold up tactics; other parties with fewer resources to fund challenges may have little choice but to succumb to SEP hold-up.

Apple's own experience is that many of the SEPs asserted against it – whether in litigation or in assertive licensing – are not essential to a standard, are invalid, or, at the very least, do not accord the value sought by the patent holder. Studies show that even among the “strongest” patents selected by SEP-holders for litigation, the overwhelming majority – some 70-90% – have been found to be invalid, not essential to the standard, and/or not infringed.¹⁶ This highlights a central problem of SEP licensing: some patent holders seek to leverage the disproportionate hold-up power flowing from a small number of patents to receive compensation for a broad but unmeritorious (and often unchallenged) patent portfolio.

Court in relation to File No.7 O 100/10 of 18 February 2011; File No.4b O 31/10 (Dusseldorf District Court, 7 June 2011) in relation to the ADSL 2/2+ standard; File No.4b O 47/10, 54/10, 64/10, 89/10 and 101/10 (Dusseldorf District Court, 4 August 2011) in relation to the MPEG-2 standard; File No.7 O 122/11 (Mannheim District Court, 9 December 2011) in relation to the GPRS standard - an application for preliminary stay of enforcement was granted in File No.2 U 136/11 (Karlsruhe Court of Appeal, 2 February 2012); File No.7 O 20/11 (Mannheim District Court, 9 December 2011) in relation to the UMTS standard; File No.4b O 273/10 and 274/10 (Dusseldorf District Court, 24 April 2012) in relation to the UMTS standard; File No.2 O 240/11 (Mannheim District Court, 2 May 2012) in relation to the H.264/AVC standard; File No.7 O 114/12 (Mannheim District Court, 15 March 2013) in relation to the 4G standard.

¹³ *In re Innovatio IP Ventures, LLC Patent Litig.*, Case No. 11 C 9308, 2013 WL 5593609, (N.D. Ill. Oct. 3, 2013).

¹⁴ *See In re Innovatio IP Ventures, LLC, Patent Litigation*, Case No. 11-9308, Plaintiff's Amended Complaint, Docket No. 431, paragraph 47 (Oct. 1, 2012) (plaintiff's demanded “that end users of IEEE 802.11 equipment [...] agree to pay thousands of dollars to use components”).

¹⁵ *Microsoft Corp. v. Motorola, Inc.*, No. C10-1823 JLR, April 25, 2013, WL 2111217, (W.D. Wash. Apr. 25, 2013).

¹⁶ *See* Section XII.A *infra* (citing data and studies that 70-90% of asserted SEPs have proved invalid or not infringed).

Such concerns are particularly significant today, as standardized goods proliferate and as some companies with sizeable declared-SEP portfolios exit the product market and turn to patent assertion as a means to replace former product revenues. In some cases, these same declared-SEP holders have teamed-up with non-practicing entities (NPEs) by transferring patents, retaining a financial interest in any future licensing, and – through intentional disaggregation – seeking to profit disproportionately from their declared-SEP portfolios.

C. With the Proliferation of Standardized Technologies, SEP Hold-up Will Impact A Broad Range of European Businesses and Consumers

SEPs are not simply a communications industry issue. A broad range of European consumers and businesses will be impacted by the Commission's approaches to SEP issues and policies. As the Commission addresses standards issues and the potential for SEP abuses, it should bear in mind that these issues will reach broadly into European markets and new businesses.

III. SEPS ARE *NOT* A PRIVILEGED CLASS OF PATENTS ENTITLING THEIR OWNERS TO UNIQUE LEGAL PROCEDURES

As the European Commission, courts and regulators around the world have recognized, ownership of a SEP can confer market power on an individual SSO participant. Therefore, allowing competitors jointly to develop standards and thus limit technology competition among them requires safeguards to ensure that such activities are on balance pro-competitive. Only a FRAND promise that places meaningful *limitations* on the rights that a patent holder normally enjoys can effectively serve as a safeguard to ensure that standard-setting is pro-competitive and enhances consumer choice.

Given the market power that SEPs confer, they should be (and generally are) accorded more scrutiny than other patents, not less. Yet many SEP-holders seek to flip FRAND's pro-competitive limitations into new *privileges and entitlements*, including:

- Demanding mandatory blanket portfolio adjudication – thereby avoiding the obligation to prove infringement (and avoiding withstanding legitimate challenges to validity and enforceability) of all the patents it seeks to license, *and*
- Rejecting commonly accepted patent valuation principles, such as ensuring any FRAND licensing demand is closely correlated to the value of the patented invention.

In short, certain SEP holders effectively seek to hijack the FRAND obligation and transform it from a promise to implementers of market access via reasonable licenses into a means to facilitate excessive and unreasonable profits for their licensing businesses.

Consider the rules applicable to “ordinary” patent holders (*i.e.*, those licensing patents that are neither SEPs nor encumbered by the FRAND licensing obligation). In order to collect a royalty, ordinary patent holders must demonstrate that a targeted particular third party infringes the particular patents it seeks to license. Ordinary patent holders must then respond to challenges from the would-be licensor about the patent's

validity or enforceability and arguments of non-infringement. Finally, ordinary patent holders must prove-up the particular value of each asserted patent to justify their claim to a particular royalty.¹⁷

Some SEP holders want to skip these traditional procedures and substantive requirements. Such SEP holders claim their mere decision to contribute technology to a standard and self-declare patents as allegedly essential gives them special enforcement rights. This is a basic misunderstanding of the FRAND commitment.

The FRAND-commitment that SSOs demand is a *quid pro quo* for the benefits of having one's technology included in a standard and serves as a safeguard against hold-up. It is designed as a rights-*limiting* mechanism. It must not be flipped into a rights-*expanding* weapon against implementers. The FRAND promise is between the patent holder and the SSO. Implementers are third-party beneficiaries of that promise. The patent owner's promise does not eliminate *implementers'* rights to rely on the procedural and substantive protections of national laws.

One common argument from some SEP holders is that they *deserve* to be compensated for their investment in R&D and related standards activities. However, just as with any non-essential patent, any compensation owed to a SEP holder should be tied to the particular patent or patents it seeks to license, not based on the holder's R&D investment. A patent's value is traditionally measured by the value of the claimed technology, not the amount of effort expended by the patent holder in obtaining the patent, much less "failed investments" that did not result in any valuable patented technology. SEP-holders that claim that they should be entitled to compensation to ensure a "fair return" on their collateral investments in standardization are asking SSOs and regulators to disregard well-established principles of patent law, and to compensate them for value that they did not create.

A 2011 study for DG Enterprise by the Fraunhofer Institute on the Interplay between Patents and Standards found that the vast majority of SSO participants viewed generating licensing revenue as the *least* important aspect of owning SEPs – factors such as securing freedom to operate, signaling technological competencies, and the ability to cross-license were viewed as considerably more important.¹⁸ Indeed, some of the SEP-holders that today are the most vocal about the alleged need to "recoup their investment" in standard-setting emphasized the need for reasonable aggregate royalty burdens and cross-licensing at the time when they actually took the decision to contribute their IP to standards.¹⁹ For those companies, demands for a fair "return on investment" have

¹⁷ *Ericsson, Inc. v. D-Link Systems, Inc.*, 773 F.3d 1201 (Fed. Cir. Dec. 4, 2014) (the royalty award must be based *solely* on the incremental value of the patented invention).

¹⁸ Fraunhofer Focus, *Study on the Interplay between Standards and Intellectual Property Rights (IPRs)*, 2011, at 88, available at <http://ec.europa.eu/enterprise/policies/european-standards/files/standards_policy/ipr-workshop/ipr_study_final_report_en.pdf> (last visited 13 Feb. 2015).

¹⁹ See, e.g., Telefonaktiebolaget LM Ericsson, *Comments to the European Commission's Workshop on Intellectual Property Rights and ICT Standards* 9, November 2008 ("individual patent holders

nothing to do with ensuring continued investment in technological standards benefiting consumers, but simply are shorthand for seeking unjust enrichment.

IV. SEP HOLDERS MUST NOT DEMAND PORTFOLIO LICENSING

SEP holders do not have a *per se* right to a portfolio license. This is true in negotiations as well as in any adjudication process. While SEP holders certainly can propose portfolio arrangements and negotiating parties may often decide to resolve their disputes via portfolio licenses, SEP holders should not be allowed to leverage their market position to demand that would-be licensees take only a portfolio license – whether to the SEP holder’s entire portfolio or to a partial portfolio of SEPs.

Forced portfolio licensing raises the same issues of potential abuse of the standardization process – such as increased hold-up risk, unjust enrichment, reduced incentive to challenge invalid or unenforceable patents, and potential patent tying – that are addressed in the next section of this response, addressing Portfolio Adjudication and Blanket Rate Setting.

V. PORTFOLIO ADJUDICATION MUST REMAIN VOLUNTARY AND NOT INVOLVE “BLANKET RATE-SETTING”

The Consultation Questionnaire’s seventh “key issue” addresses approaches to dispute resolution for SEPs.²⁰ This section will provide comment on several suggestions that – as a condition to avoiding a SEP injunction – a standards implementer should be required to agree in advance to worldwide, portfolio-wide rate setting proceedings. We refer to such approaches as “Blanket Rate Setting” because they purport to establish rates in a blanket fashion, without individual assessments of infringement, validity or other issues necessary to establish a basis for whether a would-be licensee should pay for a FRAND license – let alone how much. As the UK High Court has noted: “Although it is a truism that disputes of this kind often end up with a global licence, one needs to be careful turning that truism into something like a right to compel a defendant to enter into such a licence.”²¹

should not set their royalty claims without taking into account the legitimate expectations of other innovators who contribute to the standards. Thus, each patent owner's individual entitlement to royalties after the standard is adopted should be reasonable in light of the proportional contribution of that patent owner's essential patents compared to the total contribution of all other essential patents reading on the standard.”), and Ericsson, *Response to FTC Request for Comments, FTC Standard Setting Workshop* (available at <http://www.ftc.gov/sites/default/files/documents/public_comments/request-comments-and-announcement-workshop-standard-setting-issues-project-no.pl11204-00049%C2%AO/00049-80189.pdf> (last visited 13 Feb. 2015)), at 6 (“if the royalty levels for a standard are cumulatively too high, they will adversely impact and may negate the economic benefits of standardization. It is, therefore, important when negotiating royalty rates that individual licensors take into account the cumulative royalty levels payable by licensees”).

²⁰ Questionnaire, Item 7 (“[i]n some fields standard essential patents have spurred disputes and litigation. What are the causes and consequences of such disputes? What dispute resolution mechanisms could be used to resolve these patent disputes efficiently?”).

²¹ *Vringo v. ZTE*, UK High Court of Justice, 6 June 2013 (emphasis added).

A. Blanket Rate Setting is Contrary to EC Precedent

The Commission recognized in *Samsung* and *Motorola* that an implementer's acceptance of judicial rate setting is only *one way* of showing the implementer's "willingness", and that a patent holder is not entitled to an injunction for the simple reason that the implementer does not agree to such adjudication.²² Similarly, the Advocate General's Opinion in *Huawei* shows that, while not required where the licensor has failed to provide adequate information or not provided an offer with FRAND terms, an appropriate counter offer from the implementer might also serve as an indication of the latter's "willingness".²³ In its recent submission to the OECD, the Commission states that the EC precedents should not be read as requiring the implementer to agree to rate setting on a portfolio basis (as opposed to a rate for the patent in suit) to benefit from a safe harbor.²⁴

Courts and regulators are right to reject mandatory portfolio adjudication, particularly in the form of Blanket Rate Setting. Such approaches lead to inaccurate determinations of FRAND compensation, and moreover run counter to national legal procedures and national patent laws.

²² In *Case AT.39985 – Motorola*, the Commission states that the analysis of the implementer's willingness to enter into a license agreement occurs in the context of whether a prima facie abuse under Article 102 TFEU is "objectively justified." *Id.*, recital 434. It is incumbent upon the dominant undertaking to provide all the evidence necessary to demonstrate that the conduct concerned is objectively justified. See Judgment of 17 September 2007, *Microsoft Corp. v Commission*, T-201/04, EU:T:2007:289, paragraph 688; see also Judgment of 1 July 2010, *AstraZeneca v Commission*, T-321/05, EU:T:2010:266, paragraph 686; Judgment in *Ministère Public v Tournier*, C-395/87, EU:C:1989:319, paragraph 38; Judgment of 12 December 2000, *Aéroports de Paris v Commission*, T-128/98 EU:T:2000:290, paragraph 202. In particular, "it falls on the dominant undertaking to demonstrate any negative impact which an obligation to supply is likely to have on its own level of innovation. If a dominant undertaking has previously supplied the input in question, this can be relevant for the assessment of any claim that the refusal to supply is justified on efficiency grounds." See Communication from the Commission — Guidance on the Commission's enforcement priorities in applying Article 82 of the EC Treaty to abusive exclusionary conduct by dominant undertakings, OJ 2009 , C 45, p. 2, paragraph 90.

²³ See Opinion of AG Wathelet in *Case C-170/13 Huawei Technologies v. ZTE*, EU:C:2014:2391, ("AG Opinion"), paragraph 93 ("Furthermore, if negotiations are not commenced or are unsuccessful, the conduct of the alleged infringer cannot be regarded as dilatory or as not serious if it asks for those terms to be fixed either by a court or an arbitration tribunal.").

²⁴ See OECD, *Intellectual Property and Standard Setting, Note by the European Union, 2 December 2014*, DAF/COMP/WD(2014)117, at 53 ("Even if the Court were to decide along the lines of the opinion by AG Wathelet, this would not mean, however, that all issues surrounding FRAND and SEPs will be solved – there are still several issues that continue to be hotly debated, such as what FRAND actually means concretely (beyond not to seek injunctions against willing licensees), whether the rules must be applied patent-by-patent or to entire patent portfolios, or whether the activities of patent assertion entities possibly raise competition concerns.").

B. Blanket Rate Setting Is Likely To Be Inaccurate and Promote Abusive Licensing Practices

Blanket Rate Setting has the potential to feed abuse in SEP licensing by, among other things, promoting hold-up of licensees and unjust enrichment to licensors.

Blanket Rate Setting limits the incentives of would-be licensees to challenge the validity and infringement merits of the SEPs sought to be licensed, and thereby undercuts the valuable “public notice” function that occurs when courts, in particular, vet asserted patents. There are strong public and private interests served by the removal of invalid patents from the public domain.²⁵ As the Commission has stated, “[i]t is in the public interest to allow challenges to the validity of patents and to ensure that royalties are not unduly paid.”²⁶ A Blanket Rate Setting process, on the other hand, deters challenges to validity, enforceability and infringement.²⁷ And those challenges that are asserted may never even be heard or determined, in the discretion of the adjudicator based on purported timing constraints. Likewise, limiting incentives to challenge infringement would not serve the public interest. As with invalidity, where declared SEPs are determined non-essential, that decision will inure to the benefit of other potential licensees and the industry as a whole. Similarly, inventors of valid, essential SEPs risk having their royalties diluted based on payments for others’ inapplicable patents.²⁸

Blanket Rate Setting can also raise patent tying concerns. In order to access certain valid and infringed FRAND-encumbered patents, the licensee would be required to pay for a package license to patents that may very well include assets that are invalid and non-infringed. In other words, the FRAND rate for the needed patents would be increased to a supra-FRAND amount based on inclusion of unneeded or unwarranted patents. Such mandatory package licensing is not consistent with the FRAND pledge,

²⁵ Case AT.39985 – *Motorola*, recital 378 (“invalidation of the [alleged SEP] would benefit the entire industry and, ultimately, consumers”); *see also*, Commission’s Guidelines on the Application of Art. 81 of the EC Treaty to Technology Transfer Agreements, OJ 2004 C 101/2 paragraph 112 (“The reason for excluding non-challenge clauses from the scope of the block exemption is the fact that licensees are normally in the best position to determine whether or not an intellectual property right is invalid. In the interest of undistorted competition and in conformity with the principles underlying the protection of intellectual property, invalid intellectual property rights should be eliminated. Invalid intellectual property stifles innovation rather than promoting it.”).

²⁶ Case AT.39985 – *Motorola*, recital 491; *see also* *Lear, Inc. v. Adkins*, 395 U.S. 653, 670 (1969) (“If [invalidity challenges] are muzzled, the public may continually be required to pay tribute to [the patentee] without need or justification.”); *Blonder-Tongue Labs., Inc. v. Univ. of Illinois Found.*, 402 U.S. 313, 349-50 (1971) (“[T]he holder of a patent should not be insulated from the assertion of defenses and thus allowed to exact royalties for the use of an idea that is not in fact patentable or that is beyond the scope of the patent monopoly [...]”).

²⁷ This is true regardless of whether challenges might be available *outside* the rate-setting process. A potential licensee faced with no avenue to resolve viable defenses in the rate-setting procedure may have little incentive to file and pursue external invalidation actions for dozens or hundreds of allegedly applicable patents.

²⁸ For a specific discussion on the concept of reasonable royalty, see Section VIII *infra*, and case law cited therein.

and can constitute “unfair trading terms” within the meaning of Article 102 TFEU, as recognized in the Commission’s *Motorola* decision²⁹ and Advocate General Wathelet’s Opinion in *Huawei v ZTE*.³⁰

Moreover, it is unclear how adjudicators specializing in one (or a few) nation’s laws could effectively or accurately evaluate and set rates for patents subject to other laws and requirements. Patents applicable in different jurisdictions, including counterparts descending from the same patent family, regularly differ from one another in substance, and moreover will be subject to different legal requirements and defenses. As the Commission correctly recognized in *Motorola*, suggestions that a licensee must agree to worldwide rate setting procedures or be deemed “unwilling” are not well taken.³¹

C. Blanket Portfolio Adjudication Can Frustrate Each Nation’s Interests In Applying Its Own Laws

The prospect of foreign judges evaluating and setting rates for European patents – in addition to raising concerns over accuracy – raises issues of foreign encroachment on European laws. Does it serve European interests to establish procedures that can be used to force European companies (at the risk of foreign SEP injunctions and loss of access to foreign markets) to agree to adjudicate FRAND rates for European patents before foreign courts? Should an American, Korean or Chinese court be authorized – without the licensee’s voluntary consent – to set rates for French, Italian and German patents? Such foreign adjudications of European patents must be expected if proposals for Blanket Rate Setting are adopted, as the patent owner would have *carte blanche* to choose the international jurisdiction where it will pursue its worldwide FRAND compensation.

VI. ALTERNATIVE DISPUTE RESOLUTION MECHANISMS MUST REMAIN VOLUNTARY AND RESPECT CERTAIN SAFEGUARDS

The Commission’s seventh consultation “key issue” also seeks views regarding alternative dispute resolution mechanisms such as arbitration.

National court proceedings are (and should remain) the preferred method for dispute resolution of patents, particularly FRAND-encumbered SEPs. The transparency and diligence of individualized patent assessment in such national litigations make it the

²⁹ Case AT.39985 – *Motorola*, recital 386 (“In the *Der Grüne Punkt – Duales System Deutschland GmbH* (“DSD”) case, the Union Courts held that it was abusive for a dominant undertaking to require a royalty payment for the use of a trade mark when the licensee was not actually using the service denoted by the trade mark. In the same vein, in this case, Motorola’s seeking of royalty payments for the use by the iPhone 4S of SEPs that Apple may not be infringing, amounts to Motorola requesting the payment of potentially undue royalties, without Apple being able to challenge such infringement.”).

³⁰ AG Opinion, paragraph 96 (“As regards the use of the teaching of a patent, undertakings which implement a standard clearly do not have to pay for intellectual property which they are not using.”).

³¹ Case AT.39985 – *Motorola*, recitals 437, 490.

appropriate venue to ensure that a would-be licensor is receiving appropriate FRAND compensation for a patent that is truly essential, infringed, valid and enforceable.

Voluntary mediation and arbitration can be useful tools for private parties to resolve a dispute when they are unable to reach a negotiated outcome. But these business tools have always been and should remain voluntary, and should include procedural safeguards that will help ensure the outcome is FRAND – not only to the parties, but in a way that can benefit other would-be licensors and licensees.

One reason mandatory arbitration would be poor SEP policy and inconsistent with the FRAND promise is because arbitration, as a process, often lacks the kind of procedural safeguards to ensure effective and consistent application of the EU competition rules. For instance, Article 15 of Regulation 1/2003 and Article 267 TFEU provide for national courts' ability to seek guidance from the Commission and the Court of Justice.³² Arbitration, on the other hand, is typically confidential, depriving other standards implementers of instructive precedent that could promote consistent treatment of FRAND disputes, and facilitating discriminatory licensing practices. Moreover, mandatory arbitration could invite a wholesale delegation of competition law disputes (which FRAND-disputes regularly are) to private bodies, and reliance on such a "solution" would thus be contrary to the Commission's interests and obligations in enforcing the competition rules.³³

On the other hand, voluntary arbitration has the potential to serve a useful role as an option for disagreeing parties to resolve disputes over the licensing of declared SEPs *if and only if* the process is focused on accuracy, protects the interests of both the patentee/licensor and implementer/licensee, is consistent with FRAND principles, and both parties voluntarily and mutually agree to the process. While the specifics of such voluntary processes are generally up to the parties' mutual agreements, to promote a FRAND result such processes should generally reflect the following principles:

- ***Traditional Burdens of Proof:*** The SEP-holder should bear its traditional burdens of proof and must prove by a preponderance of the evidence both (i) infringement by the particular implementer/licensee, and (ii) the right to a particular FRAND royalty. This may be most efficiently accomplished by bifurcating issues of liability and damages. First the SEP-holder must prove that the potential licensee actually infringes asserted patents that the SEP-holder has declared essential to industry

³² The relevance of such safeguards is underscored by the reference from the Düsseldorf Court in *Huawei Technologies v. ZTE* and the order of the Mannheim Court of 8 November 2013 in *Motorola Mobility v. Apple*, which asks the Commission to opine on key aspects of determining a FRAND rate for patent portfolios. See < <http://www.fosspatents.com/2013/11/german-court-stays-google-apple-frand.html>> (last visited 13 Feb. 2015).

³³ The General Court has made it clear in its 2007 *Microsoft* Judgment that the Commission does not have unlimited freedom to delegate its powers of investigation and enforcement to private enforcement agents – in that respect, an arbitral tribunal is no different to a monitoring trustee: Judgment in *Microsoft Corp. v Commission*, EU:T:2007:289, paragraphs 1251 to 1279. See also Judgment of 27 June 2012, *Microsoft Corp. v Commission*, T-167/08, paragraphs 115 and 116.

standards. It must also meet its burden of proof in responding to challenges to the validity and enforceability of those patents. The question of the value of the SEP-holder's portfolio can only be addressed once the SEP-holder has established that it holds valid, infringed and enforceable SEPs. Only then must the SEP-holder also prove that it is entitled to a particular FRAND royalty for those patents found valid, enforceable and infringed.³⁴

- **Meaningful discovery:** The licensee should be entitled to meaningful discovery into the terms of the patent holder's other licenses, and the patents that it believes are essential to the standard in question. Only with meaningful discovery into the merits of the patent infringement claim and the royalty demand will a would-be licensee be able to analyze the patent holder's claims of patent infringement and essentiality, as well as properly test whether the associated royalty demand is fair, reasonable and non-discriminatory.
- **Transparent, reasoned decision by arbitrators:** The arbitrator's decision should be public (to the greatest extent possible), with robust written reasoning rather than confidential and perfunctory determinations. At a minimum, the arbitrator should outline the methodology used to establish the value of the SEPs. This type of transparency can create a body of decisions that will assist arbitrators in future cases to analyze FRAND demands, and also is likely to help promote resolutions without litigation or arbitration by providing licensors and licensees with clearer expectations.
- **Meaningful appellate review:** Because FRAND rate-setting cases are significant and have the potential to impact royalties paid to and demanded of others, both for the parties and industry participants more generally, substantive appellate review should be available.

The arbitration process also should specify a common set of core valuation principles to promote consistency in the award of a FRAND royalty across all would-be licensors and licensees. This common set of core principles should promote reasonableness, guard against unjust enrichment, and prevent discrimination among licensors and licensees:

- **Royalty Base:** The royalty base should be common in SEP licensing discussions across a common industry. The base should be specifically linked to the alleged standardized and patented functionality. In the context of cellular SEPs, for example,

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One common demand of SEP licensors seeking to adjudicate a portfolio license is to select and test a small collection of “proud” or proxy patents. For the reasons detailed above, this approach is suspect and unlikely to lead to a FRAND outcome – for the simple reason that “proxy patents” are rarely a true representation of the merits and value of a patentee’s entire portfolio. In circumstances where parties voluntarily and mutually agree to such proxy procedures, special considerations should be employed to help guard against unjust enrichment. One such step would be to have each party – in addition to identifying proxy patents from their own SEP portfolio – also select for evaluation a representative sample of patents from the *other party’s* SEP portfolio. Alternatively, parties might decide that a random sampling of the portfolio could be a more accurate and representative.

the common base should be *no more than* the smallest salable patent practicing unit (*i.e.*, the baseband processor) where all or substantially all of the patented, standardized technology is practiced. And that royalty base should be further apportioned, if necessary, to closely correspond only with the asserted SEPs. As explained in Section VIII, this is a starting point, but an important one to ensure that the SEP licensor does not receive unjust enrichment by taxing a base beyond its patented, inventive contributions.

- **Royalty Rate:** The royalty rate should reflect both the *pro rata* ownership of the would-be licensor (as compared to all other would-be licensors of patents essential to the same standard), and the consequences to the implementer if other SEP licensors adopted similar rates, *i.e.* royalty stacking (see Section VIII).
- **Actual Value of Technology:** The royalty rate must be based on the value of the patented technology, not including any other value associated with its inclusion in the standard or an associated end product.

VII. LICENSE LEVEL DISCRIMINATION VIOLATES THE FRAND PROMISE

A key aspect of the FRAND obligation is that the patent holder cannot selectively refuse to license certain implementers. Yet certain SEP-holders claim to be entitled to do just that, by unilaterally (and often on an *ad hoc* basis³⁵) stipulating that they will license only certain levels of the supply chain (“Level Discrimination”).

At the most extreme end of the scale are patent trolls that seek to hold up small business users or even consumers for royalties for declared SEPs, such as Innovatio, a

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Companies that have championed the pursuit of Level Discrimination have themselves repeatedly and systematically violated their own purported licensing restrictions, or changed course for no apparent reason. For example, despite its “policy” of only licensing OEMs, one prominent European patent holder has licensed chip companies on multiple occasions, and – after initially refusing licenses to certain SEPs – has now offered licenses to chip companies. *See, e.g.*, Qualcomm, *Ericsson and Qualcomm Reach Global CDMA Resolution*, 25 March 1999, available at <<http://www.qualcomm.com/media/releases/1999/03/25/ericsson-and-qualcomm-reach-global-cdma-resolution>> (last visited 13 Feb. 2015) (license including ITU patents to component manufacturer); and also Ericsson, *Business Review 2002*, available at <http://www.ericsson.com/res/investors/docs/annual-reports-1970-2002/business_review_2002_eng.pdf> (last visited 13 Feb. 2015) (reporting licenses with “six of the top semiconductor producers – Infineon, Intel, National Semiconductor, Philips Semiconductors Samsung and STMicroelectronics”); *Ericsson Inc. v. D-Link Sys., Inc.*, Case No. 6:10-cv-473, Memorandum Opinion and Order, Docket # 615 (E.D. Tex. Aug. 6, 2013) (noting that after prior refusals to license component supplier, the patent holder ultimately offered a license to the asserted patents in March 2013). Likewise, a prominent industry chip company has both obtained licenses from various OEMs, and itself licensed at least one chip company. *See, e.g.*, Qualcomm, *Nokia and Qualcomm Enter Into a New Agreement*, 24 July 2008, available at <<https://www.qualcomm.com/news/releases/2008/07/23/nokia-and-qualcomm-enter-new-agreement>> (last visited 13 Feb. 2015) (noting cross-agreements between OEM and chip company); *Qualcomm and Broadcom Reach Settlement and Patent Agreement*, available at <<http://www.broadcom.com/press/release.php?id=s379764>> (last visited 13 Feb. 2015) (noting license agreement with chip company).

company that recently acquired and asserted patents based on purported essential features allegedly embodied in Wi-Fi chips.³⁶ Rather than offering licenses to chip makers or OEMs (such as Wi-Fi router manufacturers), Innovatio targeted retail establishments and hotels, seeking royalties for use of the Wi-Fi chips calculated based on considerations (such as the square footage of the retail establishment or the number of hotel rooms) that clearly bore no relationship with the value of the patented technology.³⁷ Similarly an entity named “MPHJ Technology Investments” pursued a licensing campaign targeting small businesses for the use of the scanning function in office copiers, demanding US\$ 900 to US\$ 1,200 per employee.³⁸ The rationale for targeting lower levels of the supply chain is obvious: such businesses are highly vulnerable to the threat of having their business shut down by injunctions or saddled with litigation costs, and thus often more willing to give in to the patent holder’s demands.

This problem is not reserved to patent trolls or small companies. A notable SEP licensor recently acknowledged, “[o]ne big advantage with this strategy is also that it is likely that the royalty income will be higher since we calculate the royalty on a more expensive product.”³⁹ In other words, downstream levels of the supply chain may be targeted simply because of their higher revenues and (it is hoped) higher royalty rates. But FRAND rates are FRAND rates. A patent holder should be able to justify its FRAND rate – and willing to accept FRAND compensation in return for a license – regardless of the business model of the particular licensee.

Level Discrimination is clearly contrary to the FRAND promise, undermines the FRAND ecosystem, and threatens business continuity. The purported justifications for Level Discrimination cannot possibly support the associated harms to the standards infrastructure. The U.S. Department of Justice recently reviewed and approved an SSO provision prohibiting level discrimination, and clarified that the provision adds “clarity as to who is entitled to a license under the IEEE RAND Commitment and has the potential

³⁶ See *In re Innovatio IP Ventures LLC Patent Litigation*, 2013 WL 5593609 (N.D. Ill. Oct. 3, 2013).

³⁷ See *In re Innovatio IP Ventures, LLC, Patent Litigation*, Case No. 11-9308, Plaintiff’s Amended Complaint, Docket No. 431 (Oct. 1, 2012). Innovatio’s licensing demands reportedly calculated to *thousands of dollars per Wi-Fi chip*, *Id.* paragraph 47.

³⁸ According to public reports: “MPHJ Technology Investments sent letters to hundreds of small and medium-sized businesses across the country, including two non-profits, telling them that they violated a patent if they used a type of scanner typically found on office copiers. Providing no specific evidence of patent infringement, MPHJ demanded US\$ 900 to US\$ 1,200 per employee for a license to use the patent. For some of the small businesses that were targeted, it made more financial sense to pay the erroneous license fee than to fight the troll in court.” See *Bramble, Patent Trolls Spell Trouble for America’s Economy*, 18 November 2013, available at <<http://blogs.reuters.com/great-debate/2013/11/18/patent-trolls-spell-trouble-for-americas-economy>> (last visited 13 Feb. 2015).

³⁹ See *Foss Patents, Ericsson Explained Publicly Why it Collects Patent Royalties from Device (Not Chipset) Makers*, available at <<http://www.fosspatents.com/2014/01/ericsson-explained-publicly-why-its.html>> (last visited 13 Feb. 2015).

to facilitate implementation of IEEE standards, to the benefit of consumers, and is unlikely to cause competitive harm”.⁴⁰

Restricting the licensing obligation to some implementers, and not others, also violates the express requirements of the FRAND obligation. The Commission has previously interpreted the FRAND promise to prohibit Level Discrimination:

In order to ensure effective access to the standard, the IPR policy would need to require participants wishing to have their IPR included in the standard to provide an irrevocable commitment in writing to offer to license their essential IPR to *all third parties* on fair, reasonable and non-discriminatory terms. [...] FRAND commitments can prevent IPR holders from making the implementation of a standard difficult by refusing to license ... after the industry has been locked-in to the standard.⁴¹

The United States’ top appellate court for patent matters recently ruled that royalty calculations for essential patents must not include any value based on the patent holder’s typical abilities to restrict or limit its willingness to license.⁴² In other words, “a patent holder who participates in the standard-setting activities and makes a F/RAND licensing commitment is implicitly saying that she will license the patent claims that must be used to implement the standard to *any licensee* that is willing and able to comply with the licensing terms embodied in the commitment.”⁴³

A review of the FRAND licensing policies of some prominent SSOs demonstrates that Level Discrimination is not authorized by the FRAND promise. For example, the ITU’s patent policy requires that FRAND declarants confirm that they are “prepared to grant a license to an *unrestricted number of applicants* on a worldwide, non-discriminatory basis and on reasonable terms and conditions to make, use and sell implementations of the” applicable standard. Claims that a patent holder may unilaterally restrict such “unrestricted” licensing obligations are simply incorrect.⁴⁴ As one United

⁴⁰ U.S. Department of Justice, *Business Review Letter 15-1, Institute of Electrical and Electronics Engineers, Incorporated* (“IEEE”), (2 February 2015) (the “IEEE Business Review Letter”), available at <<http://www.justice.gov/atr/public/busreview/311470.htm>> (last visited 13 Feb. 2015), at 14.

⁴¹ Communication from the Commission – Guidelines on the applicability of Article 101 of the Treaty on the Functioning of the European Union to horizontal co-operation agreements, OJ 2011 C11, p. 1, paragraphs 285-287.

⁴² *Ericsson, Inc. v. D-Link Systems, Inc.*, 773 F.3d 1201 (“[T]he licensor’s established policy and marketing program to maintain his patent monopoly by not licensing others to use the invention [is not relevant for SEPs]. [...] Because of Ericsson’s RAND commitment [...] it cannot have that kind of policy for maintaining a patent monopoly.”) (emphasis added).

⁴³ Renata Hesse, U.S. Department of Justice, *Six ‘Small’ Proposals for SSOs Before Lunch* (October 10, 2012), available at <<http://www.justice.gov/atr/public/speeches/287855.pdf>> (last visited 13 Feb. 2015), (emphasis added).

⁴⁴ Some have asserted that it is permissible to refuse licenses to some applicants so long as “access” is provided to the SEPs via licenses at other levels of the supply chain. This is a red herring. The

States appeals court has held, “[t]his language admits of no limitations as to who or how many applicants could receive a license (‘unrestricted number of applicants’).”⁴⁵ Likewise at ETSI there is no right to discriminate among classes of licensees included in the IPR Policy. Rather, the ETSI undertaking requires the granting of rights to not only sell patented technologies, but requires that the patent holder offer licenses to make standardized products, as well as to sell and use them.⁴⁶ Particularly given that OEMs such as Apple do not “make” all of the standardized components that they incorporate into their devices, the ETSI rules instruct that licenses are and must remain available to manufacturers of standardized components. Moreover, the ETSI IPR Policy Guidelines clarify that all members and all third parties shall have the right “to be granted licenses on fair, reasonable and non-discriminatory terms and conditions in respect of a standard.”⁴⁷

VIII. FRAND ROYALTY CALCULATIONS MUST REFERENCE AND REFLECT THE VALUE OF THE PATENTED INVENTION, *NOT* THE VALUE OF THE STANDARD, UNPATENTED COMBINATIONS OR CONTRIBUTIONS OF OTHERS

The Consultation Questionnaire’s sixth “key issue” addresses the meaning of the FRAND undertaking, and the principles and methods necessary to evaluate whether compensation sought by a patent owner is, or is not, consistent with FRAND.⁴⁸ This section will focus on three core principles that must be considered in evaluating such issues:

- Ensuring that the patent owner is compensated only for technologies that she invented, and *not* compensated based on the public benefit and value of standardization itself. To accomplish this, royalties should be set based on the actual value of the patented technology, considered apart from its inclusion in a standard;
- Ensuring that the patent owner is compensated only for technologies that she invented, and *not* compensated for other technologies or uses that she did not invent and patent. To best align compensation with the patent holder’s actual

ITU’s policy, Guidelines and Licensing Form are clear that a SEP holder must provide access to SEPs specifically by *licensing* them to any applicant willing to pay FRAND compensation.

⁴⁵ *Microsoft Corp. v. Motorola, Inc.*, 696 F.3d 872, 884 (9th Cir. 2012).

⁴⁶ See ETSI, *ETSI Rules of Procedure*, 19 November 2014, Annex 6 *ETSI Intellectual Property Rights Policy*, (“ETSI Intellectual Property Rights Policy”) section 6.1, available at <<http://www.etsi.org/images/files/IPR/etsi-ipr-policy.pdf>> (last visited 13 Feb. 2015).

⁴⁷ See ETSI, *ETSI Guide on Intellectual Property Rights* (adopted September 19, 2013), available at <<http://www.etsi.org/images/files/IPR/etsi-guide-on-ipr.pdf>> (last visited 13 Feb. 2015). Other SSOs policies similarly require licensing to companies willing to pay a FRAND rate, without permitting discrimination against some classes of companies.

⁴⁸ Questionnaire, Item 6 (“Many standard setting organizations require that patents on technologies included in their standards are licensed on “fair”, “reasonable” and “non-discriminatory” (FRAND) terms, without however defining these concepts in detail. What principles and methods do you find useful in order to apply these terms in practice?”).

inventive contribution, in most cases compensation for infringement should be calculated with reference to the “smallest salable patent practicing unit with a sufficiently close relation to the claimed functionality,” and may require further apportionment to correspond to the relevant technology;⁴⁹

- Ensuring that overall royalty levels remain reasonable while encouraging investment in and promulgation of standards by recognizing all would-be SEP licensors should have the opportunity to share in the FRAND royalties associated with a standard and as such, particular FRAND royalties collected by each licensor on each of its SEPs, but take into account royalty stacking and a licensor’s *pro rata* ownership of all self-declared SEPs relevant to a particular standard.

Negotiating parties and decision-makers can methodologically strive to guard against unjust enrichment by implementing these core FRAND principles in their royalty analysis. Taken together, these three key methodologies help to ensure that FRAND royalties correspond closely to the patent owner’s actual inventive contribution.

A. SEP Owners Must Not Co-Opt The Value of Standardization

Patent holders that contribute technologies to a standard are entitled to reasonable compensation for the value of their patented contributions. But they should not be permitted to co-opt additional value that is beyond their creation, and is instead a product of standardization itself.⁵⁰ The United States Federal Circuit, the country’s top appellate court for patent matters, recently addressed this issue, and explained the need for careful methodologies to prevent unjust enrichment of SEP holders. It explained:

As with all patents, the royalty rate for SEPs must be apportioned to the value of the patented invention. [...] [T]he patentee’s royalty must be premised on the value of the patented feature, not any value added by the standard’s adoption of the patented technology. *These steps are necessary to ensure that the royalty award is based on the incremental value that the patented invention adds to the product, not any value added by the standardization of that technology.* [...] When a technology is incorporated into a standard, it is typically chosen from among different options. Once incorporated and widely adopted, that technology is not always used because it is the best or the only option; it is used because its use is necessary to comply with the standard. In other words widespread adoption of standard essential technology is not entirely indicative of the added usefulness of an innovation over the prior art. This is not meant to imply that SEPs never claim valuable technological

⁴⁹ See, e.g., *VirnetX, Inc. v. Cisco Sys., Inc.*, 767 F.3d 1308, 1329 (Fed. Cir. 2014); *Ericsson, Inc. v. D-Link Systems, Inc.*, 773 F.3d 1201.

⁵⁰ Mere inclusion in a standard can artificially inflate a technology’s value. “Once incorporated and widely adopted, the technology is not always used because it is the best or the only option; it is used because its use is necessary to comply with the standard.” *Ericsson*, 773 F.3d at 1233. Consequently, “widespread adoption” of the standard essential technology is not entirely indicative of the actual usefulness of an innovation over the prior art.” *Id.*

contributions. We merely hold that the royalty for SEPs should reflect the approximate value of that technological contribution, not the value of its widespread adoption due to standardization.⁵¹

By carefully focusing on the technical value of the patent, and not including value attributable to the market power⁵² gained due to a patent's inclusion in a standard, parties and (if necessary) courts can eliminate "hold up value" from the FRAND rate-setting analysis while providing fair compensation to the patent owner calculated based on the value of its contribution. In particular, this requirement "is meant to exclude from the rate the value arising from the cost or inability of implementers to switch from technologies included in a standard".⁵³

B. FRAND Compensation Should Be Based on the Patented Technology, Not On Unpatented Combinations or Uses of the Patented Technology

To restrict unjust enrichment or over-valuation of patented contributions, it is also necessary to focus compensation on the actual, patented inventive contribution of the SEP licensor, and not on value created by unpatented combinations or uses of the patented item. This methodology is sometimes referred to as the "smallest salable unit" approach, and is yet another application of the rule that FRAND methodologies must be tailored to carefully focus compensation for SEPs on the value of the patented technology itself.

1. "Price Discrimination" Based On Unpatented Features Violates FRAND

Royalty demands based on downstream product values can be inherently discriminatory because they can lead to different royalties by different implementers for use of the very same licensed technology on different devices. Prices of downstream products vary widely because of features unrelated to the standardized technology (such as form factor, memory or processor speed, marketing and advertising, additional features and functionalities, brand value, etc.). Therefore, royalties based on downstream product values can co-opt and add-on value that is otherwise attributable to these non-patented features.

FRAND compensation must focus on reasonable rewards to the patent holder for the patent holder's patented invention, not rewards for downstream uses of technology that the patent holder never invented or claimed. If the patent holder did not invent and claim a novel use of the technology in a downstream device, then the patent holder would be seeking compensation for value that it did not invent – which is clearly contrary to EU

⁵¹ *Ericsson, Inc. v. D-Link Systems, Inc.*, 773 F.3d 1201, 1223, emphasis added.

⁵² "When the standard becomes widely used, the holders of SEPs obtain substantial leverage to demand more than the value of their specific patented technology." *Microsoft Corp. v. Motorola, Inc.*, No. C10-1823-JLR, 2013 WL 2111217, at *10 (W.D. Wash. Apr. 25, 2013); *see also Broadcom Corp. v. Qualcomm Inc.*, 501 F.3d 297, 310 (3d Cir. 2007) ("In this unique position of bargaining power, the patent holder may be able to extract supracompetitive royalties from the industry participants.").

⁵³ IEEE Business Review Letter, at 11.

precedent.⁵⁴ In other words, where a SEP is directed to technology implemented at one level of the supply chain, requiring payments based on the unit pricing of downstream products incorporating the lower-level technology can be abusive and dis-incentivize the development of valuable improvements.⁵⁵

In view of such concerns, courts routinely insist that compensation be carefully aligned with patent scope. For example, as one court recently noted in overturning an excessive FRAND damages award relating to alleged Wi-Fi SEPs:

[W]here multi-component products are involved, the governing rule is that the ultimate combination of royalty base and royalty rate must reflect *the value attributable to the infringing features of the product, and no more*. As a substantive matter, it is the “value of what was taken” that measures a “reasonable royalty” under [applicable law]. What is taken from the owner of a utility patent [...] is only the patented technology, and so the value to be measured is only the value of the infringing features of an accused product.⁵⁶

By contrast, including the value of unpatented features in a royalty calculation would award compensation to a patent holder for features that do not infringe, and base rate calculations on aspects of the downstream device that are beyond the scope of the SEP holder’s invention or its contribution to the standard. Suggestions that FRAND compensation should include rates based on price discrimination relating to unpatented features should be rejected.

2. Reference to the Value of the Smallest Salable Unit Can Provide the Necessary Correlation Between SEP Rates and Invention Scope

Courts and regulators have developed and adopted the requirement that damages usually should be calculated with reference to the “smallest salable patent practicing unit” to ensure that compensation to a patent holder will be carefully and narrowly tailored to the patent holder’s actual invention. Moreover, where the smallest salable unit is over-inclusive, further apportionment may be required. As one US court explained, the smallest salable unit approach is “intended to produce a royalty base much more closely

⁵⁴ See Case C-385/07 P, EU:C:2009:456 – *Der Grüne Punkt – Duales System Deutschland v Commission*, paragraphs 141-147 (obligation to pay trademark royalties with respect to the licensor’s services that the licensee does not use constitutes an “unfair trading condition” in violation of Article 102 TFEU), cited AG Opinion, paragraph 96 (“undertakings which implement a standard clearly do not have to pay for intellectual property which they are not using”).

⁵⁵ For example, where a patent holder unfairly extracts royalties based on the value of unpatented improvements, it may reduce the profits and royalties potentially available to inventors and licensors that might otherwise develop, patent and license downstream improvements.

⁵⁶ *Ericsson, Inc. v. D-Link Systems, Inc.*, Case No. 13-1625 at 39-40 (Fed. Cir. Dec. 4, 2014) (available at <http://www.cafc.uscourts.gov/images/stories/opinions-orders/13-1625.Opinion.12-2-2014.1.PDF> (last visited 13 Feb. 2015)) (emphasis added, citations omitted).

tied to the claimed invention than the entire market value of the accused products.”⁵⁷ In that case, the court overturned a damages award against Apple where the patent holder failed to base its demands on the value attributable to the patented features, and instead sought compensation based on the entire value of the downstream product.⁵⁸

In the Commission’s *Rambus* investigation, Rambus’s alleged abuse of its computer memory patents was resolved based on Rambus’s commitment to offer licenses at certain rates. The Commission accepted Rambus’s proposed commitments only after “Rambus clarified that the royalty shall be determined on the basis of the price of an individually sold chip and not of the end-product.”⁵⁹ This requirement applied regardless of whether the memory devices were individually sold or incorporated into downstream products, and was further apportioned (via use of a royalty cap) where the chip itself included multiple functions.⁶⁰ As with the cases referenced above, the Commission’s requirements in the Rambus investigation helped to ensure that royalty calculations remained focused on the patent holder’s actual technical contributions.⁶¹

⁵⁷ *VirnetX, Inc. v. Cisco Systems, Inc.*, 767 F.3d 1308, 1327-28 (Fed. Cir. 2014); *see also LaserDynamics, Inc. v. Quanta Computer, Inc.*, 694 F.3d 51, 67-68 (Fed. Cir. 2012) (“It is not enough to merely show that the disc discrimination method is viewed as valuable, important, or even essential to the use of the laptop computer. Nor is it enough to show that a laptop computer without an ODD practicing the disc discrimination would be commercially unviable...But proof that consumers would want a laptop computer without such features is not tantamount to proof that any one of those features alone drives the market for laptop computers [...]. It is this latter and higher degree of proof that must exist to support an entire market value rule theory.”) *Id.* at 25-26.

⁵⁸ *VirnetX*, 767 F.3d at 1327-28. Of course, depending on the patented technology and the market for the end products, further apportionment beyond the smallest salable unit may be necessary. For example, as the courts have recognized, where the patent addresses technology focused on only a portion of the smallest salable unit, there may need to be additional apportionment to focus the compensation inquiry more precisely on the patented technology. *Id.* Again, the key focus is to ensure that compensation will be aligned with the scope of the patent holder’s actual contribution.

⁵⁹ Commission Decision of 9 December 2012 in Case COMP/38.636 – *Rambus*, recital 66.

⁶⁰ *Id.*

⁶¹ Some courts have adopted a “substantial embodiment” test to determine the focus of the patent holder’s rights and potential damages. That is, a component of a product may in some circumstances qualify as a “patented item” even if it does not practice every element of the claims, so long as it “embodies essential features of [the] patented invention.” *See Quanta Comp., Inc. v. LG Elecs., Inc.*, 553 U.S. 617, 636 (2008). Such a component may be found to substantially embody a patent where “the only step necessary to practice the patent is the application of common processes or the addition of standard parts [such that] [e]verything inventive about each patent is embodied in the [component].” *Id.* at 632. In the FRAND rate-setting context, this suggests that a patent holder should not be permitted to unduly expand its invention by simply grafting on cursory “system level” elements to its patent claims. That is, FRAND compensation should remain directed to and focused on the patent holder’s inventive contribution, and not be unduly enhanced based on creative attorney claims-drafting. Requiring that compensation be set with reference to components that substantially embody the relevant patents may help to limit efforts to over-state FRAND rates based on insubstantial tweaks in the claims-drafting process.

In sum, FRAND rate-setting approaches must include clear methodologies to focus compensation on the patent holder's actual patented invention, and not on any value created by others outside the scope of the relevant SEP.⁶² Focusing the FRAND inquiry on the value of the patent apart from its inclusion in the standard, and on the smallest salable unit, provides important safeguards to prevent unjust enrichment and to guard against unreasonable, supra-FRAND compensation.

C. FRAND Royalty Calculations Must Consider the Impact of Other Patents Applicable to the Standard

When addressing FRAND royalties, it is important to assess the impact of royalty stacking in order to address the legitimate interests of both implementers and patent holders.

On the one hand, according to the *Patents and Standards* report for DG Enterprise, royalty stacking relates to the concern that “a standard that is covered by a (very) large number of essential patents might face a high cumulative licensing fee, even if each individual essential patent is available at a relatively low rate. The cumulative fee might even reach a level that prohibits actual implementation (*e.g.*, where the total of licensing fees exceeds the market value of the product).”⁶³ Considering FRAND licensing rates in view of the other patents and licensing claims that may be applicable to the standard helps to protect implementers from excessive royalty demands that could limit promulgation of the standard.

On the other hand, from the patent owner's perspective, royalty stacking is a key methodology to ensure that initial licensors do not obtain undeserved compensation that limits the available compensation to other, equally deserving SEP owners. That is, following the *Patent and Standards* report's conclusion that there can be a limited amount of licensing fees that the market can bear, royalty stacking considerations help to protect against abusive third party licensing demands that unfairly reduce the available

⁶² As a matter of arithmetic, profits could be apportioned in a number of ways: One of the many patents practiced by the iPhone's camera, for example, might be determined to contribute some small percentage to the entire value of the iPhone, or instead some larger percentage to the value of just the camera. But the former method leaves far more room for error. (How could one ever “reliabl[y]” know whether a patent adds 0.0001% or 0.001% of the entire value of a phone with so many physical and software components?) Such imprecision increases the “risk that the patentee will be improperly compensated for non-infringing components of that product”, *LaserDynamics*, 694 F.3d at 67.

⁶³ ECSIP Consortium, *Patents and Standards – A modern framework for IPR-based standardization*, study prepared for the Directorate General for Enterprise and Industry of the European Commission, (hereafter, “Patents and Standards”), pp. 39, 112 (“if technologies are complements, the adopter of the technology (and ultimately the end-user) is subject to multiple monopolists, each of which is eager to extract rents (royalties). Even if these individual royalties are capped by FRAND conditions, the cumulative payable royalty may still become excessive”); *See also In re Innovatio IP Ventures, LLC Patent Litigation*, No. 11 C 9308, 2013 WL 5593609, at *11 (N.D. Ill. Sept. 27, 2013) (royalty-stacking “concern arises because most standards implicate hundreds, if not thousands of patents, and the cumulative royalty payments to all standard-essential patent holders can quickly become excessive and discourage adoption of the standard”).

“pie” of licensing fees available to other SEP owners. Absent such considerations, the first few licensors could effectively deplete available licensing markets, interfering with the ability of other SEP owners to obtain compensation for their own contributions.

Royalty stacking is not a theoretical concern. Royalty stacking can be illustrated by litigated cases and real-world SEP-holder demands. In *Ericsson/D-Link*, the District Court awarded Ericsson a prima facie modest royalty rate of 15 cents per unit for the infringement of three patents that Ericsson had declared essential to the 802.11 (Wi-Fi) standard.⁶⁴ However, given that an estimated 3,000 or more US patents alone have been declared essential to the 802.11 standard, the implied cumulative royalty burden could be as high as US\$ 150 per unit – simply for a device utilizing Wi-Fi functionality.⁶⁵ A recent paper published by *Armstrong, Mueller* and *Syrett* finds that cumulative announced royalty demands for LTE cellular functionality already amount to US\$ 54 for a US\$ 400 smartphone.⁶⁶ Significantly, that amount reflects only the demands of companies accounting for about half of all patents declared essential to the LTE standard, and excludes demands by other companies that claim to hold large SEP-portfolios and are aggressively asserting their declared SEPs. These amounts are staggering given that the average cost of the baseband processor that implements cellular functionality is as little as US\$ 10 to US\$ 13.⁶⁷

Another recent study found that the average laptop computer implements more than 200 standards.⁶⁸ Many of these standards are based on patented technology and their use thus subject to SEP royalty demands. Likewise, modern smartphones implement not only cellular standards such as LTE, but also additional royalty-bearing standards such as the above-mentioned 802.11 (Wi-Fi), as well as AAC, MP3, and H.264. Based only on publically available information on royalty demands and court awards, *Armstrong, Mueller* and *Syrett* calculate a cumulative royalty burden for smartphones at approximately US\$ 120 for a US\$ 400 device, which is almost equal to the cost of the device’s hardware components.⁶⁹

The fragmentation of SEP portfolios is aggravating the issue. Particularly troublesome is the trend by SEP-holders to engage in “privateering” – spinning off parts

⁶⁴ *Ericsson, Inc. v. D-Link Systems, Inc.*, Case No. 2013-1625 at 39-40 (Fed. Cir. Dec. 4, 2014), at 5.

⁶⁵ Br. of Amici Curiae Broadcom Corp., et al., In re *Ericsson, Inc. v. D-Link Systems, Inc.* Court of Appeals for the Federal Circuit, Case No. 13-1625, at 2.

⁶⁶ Armstrong, Mueller, Syrett, *The Smartphone Royalty Stack: Surveying Royalty Demands for the Components Within Modern Smartphones*, working paper, February 12, 2014 (available at <http://www.wilmerhale.com/uploadedFiles/Shared_Content/Editorial/Publications/Documents/The-Smartphone-Royalty-Stack-Armstrong-Mueller-Syrett.pdf> (last visited 13 Feb. 2015), pp. 13-14.

⁶⁷ *Id.*

⁶⁸ Biddle, White, Woods, *How Many Standards in a Laptop? (And Other Empirical Questions)*, 10 September 2010, available at <http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1619440> (last visited 13 Feb. 2015).

⁶⁹ *Armstrong, Mueller, Syrett*, cit., p. 2.

of their portfolios to “non-practicing entities” (NPEs) that can assert those patents without having to fear counterclaims. The original patent holder often retains a financial interest in the patents being asserted or otherwise licensed by the privateering partner. Consideration of royalty stacking as part of the FRAND analysis helps to protect against abusive disaggregation tactics and strategies.

IX. SEPS MUST NOT BE USED TO FORCE CROSS-LICENSING OF NON-ESSENTIAL, DIFFERENTIATING PATENTS

As the Commission has recognized, using the market power conferred by a SEP to obtain access to implementer’s differentiating technology can be abusive.⁷⁰ While voluntary cross-licensing of non-SEPs is certainly permissible, leveraging the hold-up value of a SEP to force such licenses is a form of abuse. Conversely, SEP-holders may abuse their position by making a license on FRAND-terms conditional upon the implementer also taking a license to their non-SEPs.

Coerced licenses to non-SEPs can undermine product differentiation and disincentivize investments in differentiating innovations. Unlike SEPs where the patent owner has made a voluntarily commitment to license on FRAND terms, there is no legal obligation to provide licenses for differentiating inventions. A patent owner, if it so chooses, may retain its non-essential technologies for its own use and exploitation in competitive markets.

Apple has invested in and developed a large number of differentiating technologies, and owns patents addressing various non-essential features. These innovative features separate Apple’s products from Apple’s competitors. Likewise, Apple’s competitors may own, implement and patent differentiating features of their own. This competition to invent and sell unique and desirable features promotes consumer choice and encourages companies like Apple to continue to invest in development of unique technologies and consumer experiences. Unlike FRAND-encumbered standards essential patents, which are necessary for compatibility, competitors have no obligation or need to share their non-essential technologies. The U.S. Department of Justice recently clarified that SSOs may legitimately prohibit SEP holders from demanding compulsory cross-licenses, and recognized that “*a compulsory cross-license can, in some cases, decrease incentives to innovate*”.⁷¹

The leverage of a SEP – whether through assertive licensing or litigation – should not alter this traditional right to retain differentiating patents for one’s own exclusive use, and likewise should not be used to force a licensee to pay for non-essential technologies

⁷⁰ Commission Decision of 13 February 2012 in Case COMP/M.6381 – *Google/ Motorola Mobility*, (“Google/Motorola Mobility”) recital 116 and Commission Decision of 29 April 2014 in Case AT.39939 – *Samsung - Enforcement Of UMTS Standard Essential Patents* (“Case AT.39939 – *Samsung*”), recitals 89 and 102. In both cases the Commission identified the risk that the implementer be forced into cross-licensing valuable differentiating IP as one of the principal competitive harms that can result from injunctions for FRAND-encumbered SEPs.

⁷¹ IEEE Business Review Letter, at 15.

that it does not want or need. Efforts by SEP holders to use SEPs as a tool to force access to competitors' differentiating technologies – to, in effect, obtain the benefit of competitors' private innovations – would discourage development of such innovations.

X. SEP LICENSORS HAVE AN OBLIGATION TO DEMONSTRATE THAT THEY ARE WILLING LICENSORS

The Consultation Questionnaire's eighth "key issue" addresses the circumstances under which a standards implementer might be considered an "unwilling licensee." Yet one cannot assess the "willingness" of the licensee unless one first focuses on the willingness of the licensor.

It takes two to negotiate a license. If a would-be licensor is not a "willing licensor", it is difficult to imagine how any implementer can be legitimately labeled an "unwilling licensee." In order for an implementer to make an informed assessment as to whether the terms of an offer are FRAND, and/or to make a reasonable (counter)offer for a FRAND license, implementers need to be provided with certain information. Some characteristics of a "willing licensor" might be:

Clear description of the SEPs that the SEP-holder proposes to license. A SEP-holder demanding a given royalty rate must at a minimum provide a detailed description of its portfolio, including a clear explanation as to why any patents sought to be licensed are in fact standards-essential, supported by claim charts.⁷² A standards implementer can be faced with a substantial number of declared SEPs in a fast-evolving technical and competitive environment and cannot be expected to verify essentiality and validity of each patented technology without some assistance and information as to how the patent holder contends they apply to the standard.⁷³

Reasoned offer on FRAND terms. The SEP-holder must make the implementer a written offer for a license on FRAND terms. As Advocate General Wathelet points out, such a requirement is not disproportionate, as the SEP-holder voluntarily declares the patent to be essential and freely enters into a FRAND commitment with respect to that patent. Such an offer must contain all the terms normally included in a license in the sector in question, including "*the precise amount of the royalty and the way in which that amount is calculated*".⁷⁴ The explanation of the method of calculation should address the

⁷² Case AT.39939 – *Samsung*, recitals 87 and 100 (commitments amended to clarify that Samsung should produce a "proud list" of mobile patents, including claim charts).

⁷³ AG Opinion, paragraphs 81, 82 and 84, and footnote 53 ("Standard implementers in the telecommunications industry cannot be expected (nor is it customary in that sector) to assess every patent that has been declared essential, enter into negotiations to obtain a licence to use that patent and issue a legally binding declaration in respect of each essential patent to every owner of such a patent before starting to use the standard in question. The administrative and financial burden involved would be so onerous and the investment in time so considerable as to make it impossible in practice to use the standard").

⁷⁴ AG Opinion, paragraph 85. The European Commission has also recognized the public interest in transparency of the method used to calculate FRAND rates by requiring in *Samsung* that the

royalty base used, and the rate applied, taking into account the principles set out below in Section VIII. The license offered should also be of reasonable duration.⁷⁵

Demonstrably non-discriminatory nature of offer. Advocate General Wathelet also emphasizes the requirement that the SEP-holder's proffered terms shall be non-discriminatory: "The SEP-holder alone has the information necessary for purposes of complying with that obligation."⁷⁶ The SEP-holder's existing licenses represent one benchmark in negotiations, with the obvious caveat that any unfair and unreasonable terms contained in such licenses (reflecting the SEP-holder's hold-up power) cannot justify a perpetuation of such terms ("no equality in illegality"). Some SEP-holders claim that they are offering the same terms to everyone, and in fact justify their demands by claiming that other licensees have willingly agreed to those same terms. At the same time, however, these SEP-holders do not provide any particulars about their existing licenses and refuse to allow the implementer to verify their claims in any way, citing non-disclosure agreements (NDAs) with their existing licensees (which in many cases the patent holder drafted and required of the prior licensee). A truly "willing licensor" is ready to offer non-discriminatory terms to all comers and does not need to engage in such tactics.⁷⁷

Cash-only option. A "willing licensor" should offer a license on a cash-only basis. A cash-only option allows comparison of terms extended to different licensees, and can help the implementer assess whether the SEP-holder's terms are in fact FRAND. Such approaches have been endorsed by the US Department of Justice⁷⁸ as well as the *Patent and Standards* study prepared for DG Enterprise.⁷⁹

No Mandatory Bundling. A "willing licensor" should be willing to license patents that the implementer agrees to be valid and essential, even if the parties cannot resolve disputes as to other asserted SEPs owned by the licensor. A SEP-holder's refusal to do so may amount to tying in violation of Article 102 TFEU and similar prohibitions of abusive conduct in jurisdictions around the world: the SEP-holder would be leveraging

method not be redacted in the publication of any determination by an arbitration tribunal. See Case AT.39939 – *Samsung*, recital 103.

⁷⁵ Case AT.39939 – *Samsung*, recital 100 (five years or more).

⁷⁶ AG Opinion, paragraph 86.

⁷⁷ To be sure, there may be legitimate reasons to protect the confidentiality of certain terms contained in SEP-licenses. However, that does not justify a blanket refusal by the licensor to disclose the remaining terms of its existing licenses to the implementer in the course of the negotiations. Such disclosure could be subject to an NDA with the implementer (preventing the implementer from using such information outside of its licensing negotiations with the SEP-holder), or in particularly sensitive circumstances might be made to an independent auditor who could verify that the terms offered by the licensor are in fact non-discriminatory.

⁷⁸ See U.S. Department of Justice (DOJ), *Antitrust Policy in the Information Age: Protecting Innovation and Competition*, Talk delivered by J. F. Wayland, Acting Assistant Attorney General Antitrust Division, at the Fordham Competition Law Institute, September 21, 2012; Renata Hesse, U.S. Department of Justice, *Six "Small" Proposals for SSOs Before Lunch*, Remarks as Prepared for the ITU-T Patent Roundtable on October 10, 2012 Geneva, 2012.

⁷⁹ *Patents and Standards*, pp. 137-138.

the dominant position it holds with respect to a few valid and essential SEPs in order to force the implementer to take a license to other SEPs associated with the same standard that it does neither want nor believe it needs because the assets are unenforceable, invalid, not essential, or not infringed by the implementer (for example, because the implementer benefits from pass-through rights by a component supplier).⁸⁰ This view is also implicit in the Advocate General's Opinion in *Huawei v. ZTE*, which consistently addresses licensing of particular SEPs, and does not support or require mandatory bundling.⁸¹ To be sure, many implementers may prefer to take a license to an entire SEP-portfolio (if the terms offered are FRAND) because of the legal certainty that such a license provides. However, this should remain the parties' option. If the implementer is prepared to run the risk of the SEP-holder asserting some of the unlicensed patents, it should have the right to do so. An "all or nothing" demand for a portfolio license by the SEP-holder is not one that characterizes a "willing licensor". The U.S. Department of Justice also acknowledged that SSOs may legitimately prohibit such forms of patent tying.⁸²

No Mandatory Cross-Licensing of Non-SEPs. Last, as discussed above, a "willing licensor" should be willing to grant licenses without requiring a cross license to non-essential, differentiating technology held by the implementer.

These characteristics of "willing licensors," although not exhaustive, have the potential to help mitigate potential SEP abuses, and assist voluntary licensing negotiations.

XI. INJUNCTIONS FOR FRAND-ENCUMBERED SEPS ARE NOT APPROPRIATE EXCEPT IN VERY LIMITED CIRCUMSTANCES

A general consensus has developed, both in the courts and the competition authorities, that seeking injunctions on FRAND-encumbered SEPs constitutes at least *prima facie* abusive conduct absent an objective justification. As the U.S. Department of Justice recently stated, "[t]he threat of exclusion from a market is a powerful weapon that can enable a patent owner to hold up implementers of a standard. Limiting this threat reduces the possibility that a patent holder will take advantage of the inclusion of its patent in a standard to engage in patent hold up, and provides comfort to implementers in

⁸⁰ Case AT.39985 – *Motorola*, recital 386 ("In the *Der Grüne Punkt – Duales System Deutschland GmbH* ("DSD") case, the Union Courts held that it was abusive for a dominant undertaking to require a royalty payment for the use of a trade mark when the licensee was not actually using the service denoted by the trade mark. In the same vein, in this case, Motorola's seeking of royalty payments for the use by the iPhone 4S of SEPs that Apple may not be infringing, amounts to Motorola requesting the payment of potentially undue royalties, without Apple being able to challenge such infringement").

⁸¹ AG Opinion, paragraphs 81 ("the teaching of a patent"), 82 ("agreement to license an SEP on FRAND terms"), "use of the teaching protected by that patent"), 84 ("the SEP concerned"), 86 ("immediately upon obtaining 1st patent").

⁸² IEEE Business Review Letter, at 16.

developing their products.”⁸³ Indeed, as confirmed by the recent decisions of the European Commission in the *Motorola*⁸⁴ and *Samsung*⁸⁵ cases, and by the Opinion of Advocate General Wathelet in *Huawei Technologies*,⁸⁶ seeking injunctions based on FRAND-encumbered SEPs is an abuse of a dominant position under Article 102 TFEU, unless the SEP-holder can demonstrate that the implementer is an “unwilling” licensee.

Injunctions are fundamentally incompatible with the FRAND-promise, barring exceptional circumstances in which a damages award is not a sufficient remedy even where the patent merits are proven. This might include instances in which the implementer is suffering from severe financial distress or residing outside of a jurisdiction in which a damages award can be enforced.⁸⁷ There is no need, and no legal basis, for an objective justification of prima facie abusive conduct based on a notion as fluid as the subjective “willingness” of the implementer to pay a FRAND rate. The definition of “unwilling licensee” cannot include parties that have simply challenged a SEP holder’s contentions on the merits, a dispute that can be resolved in a court (or a mutually agreed arbitral tribunal).

Issue 8 of the Commission’s Questionnaire nevertheless raises the question of whether injunctions are needed for “holders of standard essential patents [to] effectively protect themselves against implementers who refuse to pay royalties or unreasonably delay such payment”, and sub-question 8.1 asks: “[w]hat needs to be done to ensure that holders of standard essential patents have effective means of obtaining appropriate remuneration for their patents and to defend themselves against implementers who are unwilling to pay royalties or who delay payment of such royalties?”

Effective means already exist: the SEP-holder can bring a legal action for compensation against the implementer, or in rare circumstances where compensation is not obtainable via such processes (*e.g.*, if the licensee is bankrupt or has insufficient assets in the relevant jurisdiction), injunctions may be permissible. As the US Department of Justice recently noted, a restriction on the use of injunctions “does not affect the rights of patent holders [...] to seek patent damages, in the form of RAND compensation, for infringement of their patents when the parties cannot agree to a negotiated license.” In addition “where potential licensees appear recalcitrant about

⁸³ IEEE Business Review Letter, at 9. In particular, the Department of Justice addressed a change in the IEEE’s policy according to which the holder of a FRAND encumbered SEP “shall neither seek nor seek to enforce a Prohibitive Order [...] unless the implementer fails to participate in, or to comply with the outcome of, an adjudication, including an affirming first-level appellate review [...] by one or more courts that have the authority to determine Reasonable Rates and other reasonable terms and conditions; adjudicate patent validity, enforceability, essentiality, and infringement; award monetary damages; and resolve any defenses and counterclaims”.

⁸⁴ Case AT.39985 – *Motorola*, recitals 280-281 and 306-307. At recital 432, the Decision also records that in the administrative procedure, Motorola itself accepted that SEP-based injunctions against willing licensees are incompatible with Article 102 TFEU.

⁸⁵ Case AT.39939 – *Samsung*.

⁸⁶ AG Opinion, paragraphs 83-96.

⁸⁷ Case AT.39985 – *Motorola*, recital 427.

taking a license, courts and other third-party decision makers may seek to ensure payment by requiring alleged infringers to post a bond or make escrow payments.”⁸⁸

In particular, the EU Enforcement Directive requires Member States to provide for effective mechanisms to obtain compensation for patent infringements.⁸⁹ Articles 13 and 14 of the Enforcement Directive require Member States to ensure that the competent judicial authorities order an infringer to pay the rights holder damages “appropriate to the actual prejudice” suffered by the right holder, including appropriate interest. Art. 14 of the Enforcement Directive also provides for the “losing party pays principle” to ensure that the right-holder does not have to bear the legal costs of seeking redress before Member State courts.⁹⁰ Indeed, in *Motorola*, the Commission rejected Motorola’s arguments that actions for compensation before national courts are too “slow and expensive” to fairly protect a patent holder’s commercial interests.⁹¹

Focusing on the availability of compensation, rather than injunctions, supports a fair and predictable FRAND process when parties disagree on the compensation due. When there is a dispute, it is important to obtain the *correct* result, not just some quick result, and the concerns raised to purportedly justify a deviation from established adjudicatory approaches do not withstand scrutiny.

As Judge Posner pointed out in *Apple v. Motorola*,⁹² the absence of injunctions does not mean that the standards implementer would have no incentive to settle. Potential licensees have incentives to resolve disputes regarding FRAND licenses out of court even if they face “only” damage actions and not injunctions. For instance, the licensee might end up paying more if a court sets the FRAND rate than if it negotiates a rate with the SEP owner, particularly if the licensee will also be responsible for costs, fees and interest incurred by the SEP owner as a result of any delay.

XII. SEP SELF-DECLARATION, OVER-DECLARATION AND THE PROBLEM OF ACCURATELY IDENTIFYING SEPS

The Commission’s consultation Questionnaire’s third “key issue” addresses patent transparency – *i.e.*, how can we better identify and provide information regarding essential patents.⁹³ The problem of identifying truly essential, valid, enforceable and

⁸⁸ *Id.*, at 10-11.

⁸⁹ Directive 2004/48/EC of the European Parliament and of the Council of 29 April 2004 on the enforcement of intellectual property rights, OJ 2004, L 157, p. 16, Article 3.

⁹⁰ While “losing-party-pays” is not the rule in the US and some other jurisdictions, courts typically do have discretion to impose sanctions in the case of bad faith litigation. In the United States, the Supreme Court recently increased the use of such awards to deter bad faith patent litigation. *See Octane Fitness, LLC v. ICON Health & Fitness, Inc.*, 134 S. Ct. 1749, 1756 (2014).

⁹¹ Case AT.39985 – *Motorola*, recital 519.

⁹² *Apple Inc. v. Motorola, Inc.*, 869 F. Supp. 2d 901, 913 (N.D. Ill. 2012) (Posner, J.), at 20-21.

⁹³ Questionnaire, Item 3 (“Patent transparency seems particularly important to prevent achieve efficient licensing and to prevent abusive behaviour. How can patent transparency in standardization be maintained/increased? What specific changes to the patent declaration systems

infringed SEPs has likely been one of the key contributors to SEP disputes and related litigation. Steps to improve transparency – at least as to patents more likely than not to actually be essential – have the potential to bring more consistency and efficiency to FRAND licensing efforts and the standardization ecosystem.

The current SEP licensing regime suffers from problems associated with declaration. On the one hand, there is *under*-declaration, where a standards participant fails to timely disclose a patent that it knows is, or is likely to be, essential, and then later asserts that patent in licensing efforts or litigation. This creates the potential for a set-up and raises issues of reliance and estoppel based on the failure to disclose. Unfortunately, *self*-declaration commonly breeds *over*-declaration. Recent studies suggest that as many as 90% of declared-essential patents are not actually SEPs.

A. The Unilateral Declaration Process Overstates The Volume of SEPs

The patent declaration process for SSOs is generally *unilateral*. That is, the patent owner self-declares that it believes a patent or patent application that it owns is essential to a standard.. Indeed, “[m]any SSOs explicitly disclaim any effort to interpret the patent or to determine whether or not a patent reads on a proposed standard.”⁹⁴ That is because “SSOs themselves are generally not comprised of patent lawyers and rendering opinions would increase the SSO’s potential liability exposure should the SSO get it wrong.”⁹⁵ The self-declaration process has led to an enormous proliferation of declared-essential patents (“Declared Patents”).⁹⁶

Strong empirical evidence indicates that most Declared Patents are not actual SEPs; that is, upon deeper examination, a majority of Declared Patents are found to be either not essential, invalid or otherwise unenforceable. According to one recent study of 380 Declared Patents that were challenged in court since 2005, only 16% were ultimately found valid and infringed.⁹⁷ Other studies have generated similar results, each concluding that between about 70-90% of the Declared Patents studied are not actual SEPs.⁹⁸

of standard setting organizations would improve transparency regarding standard essential patents at a reasonable cost?”).

⁹⁴ Teece, Sherry, “Standards Setting and Antitrust”, 87 *Minn. L. Rev.* 1913, 1949 (2003).

⁹⁵ *Id.*

⁹⁶ See, e.g., IPlytics GmbH, Standard Essential Patent Database 1 (2014), available at <<http://tinyurl.com/IPlyticsDatabase>> (last visited 13 Feb. 2015) (containing over 300,000 claimed SEPs).

⁹⁷ RPX Corporation, *Standard Essential Patents: How Do They Fare?* at 9, available at <<http://www.rpxcorp.com/wp-content/uploads/2014/01/Standard-Essential-Patents-How-Do-They-Fare.pdf>> (last visited 13 Feb. 2015).

⁹⁸ Goodman, Myers, “3G Cellular Standards and Patents”, *Fairfield Resources Int’l* (2003), available at <<http://tinyurl.com/3GCellStandards>> (last visited 13 Feb. 2015), p. 5 (finding that about 80% of Declared Essential patent families for 3G standards are not SEPs); Jurata, Smith, “Turning the Page: The Next Chapter of Disputes Involving Standard-Essential Patents”, *CPI Antitrust*

A recent study by *Kang and Bekkers* of the W-CDMA and LTE standardization process shows that SSO participants filed a disproportionate number of patent applications immediately before or during meetings of technical committees, and that such “just-in-time inventions” translate into poor patent quality.⁹⁹

Over-declaration can create a false perception of the patent landscape for a given standard, and may result in certain patent owners appearing to have more SEPs than they actually own. Such patent owners, in turn, may demand a disproportionate share of royalties associated with the standard, all the while insulating their Declared Patents from robust review.¹⁰⁰

B. Establishing A “Gate-Keeper” Function May Help Address Some of the Problems Related to SEP Over-Declaration

One step worthy of consideration by the European Commission would be the development of a “gatekeeper” function, whereby a trusted, impartial and independent third party who is an expert in the relevant standard and associated technology could be tasked with vetting the alleged essentiality of any patent that a patentee may wish to license as a SEP.

The vetting process would need to be transparent, open to third-party comment and contribution, but must *not* result in any burden shifting or presumptive implications in the event that the parties later resort to litigation or other dispute resolution mechanism. The process must be structured so that the independent third party remains impartial, *e.g.*, there must not be any incentives for the independent third party to determine that a declared SEP is essential.

Patent pools offer a comparable example. Some patent pools have independent evaluators who are responsible for examining candidate patents for potential inclusion in the pool. These gatekeepers do not attempt to opine on the merits of validity or whether particular products are infringing. Rather, they focus their assessment on whether a particular candidate patent is likely to be essential to the subject standard.

Chronicle, Oct. 2013, p. 5 (“only 1 of every 8 SEPs tested in court has, in fact, been valid and technically essential to practice the standard.”).

⁹⁹ *Kang, Bekkers*, “Just-in-Time Inventions and the Development of Standards”, *Eindhoven Ctr. for Innovation Studies, Working Paper No. 13.01*, 2013), p. 6, available at <<http://tinyurl.com/KangBekkers>> (last visited 13 Feb. 2015).

¹⁰⁰ For example, a patent holder may assert a small handful of “strong” patents in licensing negotiations or litigation, but endeavor to base its licensing rate on the alleged large quantity of SEPs in its portfolio. Such approaches can be highly misleading, as portfolio quality can vary significantly among patent holders, and a patent holder should not be entitled to higher RAND compensation simply because it owns a large number of “junk” patents that would never survive in-depth review. *See, e.g.* Parchomovsky, Wagner, “Patent Portfolios”, 154 *U. Pa. L. Rev.* 1, 69-70 (2005) (discussing “high-volume, low-quality” patent portfolio strategy).

XIII. PATENT POOLS CAN BE AN EFFECTIVE MEANS OF FRAND LICENSING, PROVIDED VARIOUS SAFEGUARDS ARE RETAINED

The Consultation Questionnaire's fifth "key issue" addresses various items relating to patent pools.¹⁰¹ Apple has significant experience with patent pools, and has been an active participant in patent pools, both as a licensor and as a licensee. For example we have contributed and licensed our patents via MPEGLA pools, including AVC, HEVC and IEEE 1394. Patent pools with transparent valuation models have the potential to promote efficient FRAND licensing in many circumstances.

A. Patent Pools Can Promote Effective FRAND Licensing

Patent pooling arrangements involve multiple patent owners joining together to license their essential patents. A patent pool "may provide competitive benefits by integrating complementary technologies, reducing transaction costs, clearing blocking positions, and avoiding costly infringement litigation."¹⁰² Such pooling can be particularly effective where the pool attracts broad participation by the relevant SEP holders. Conversely, arrangements that involve only a small number of companies or a small percentage of the relevant SEPs may sometimes behave and function in ways that are similar to abusive patent assertion entities.

Patent pools can serve as a "one stop shop" where licensees can obtain a FRAND license to the patents needed to implement the relevant standard. Although no patent pool has achieved the participation of *all* relevant SEP owners, some pools are capable of attracting a critical mass of SEP holders, such that they can offer licenses to a meaningful number of applicable SEPs. Patent pools generally must be non-discriminatory, offering common rates to all potential licensees and including appropriate governing documents and structures in conformance with competition law requirements.¹⁰³

B. Considerations In Evaluating Pooling Arrangements And Potential Abuses

Patent pools can promote FRAND licensing provided they clearly and carefully incorporate FRAND compliance into their licensing efforts. First, to ensure FRAND-compliance, and as discussed above in Section VIII, patent pools should carefully and expressly calculate their rates based on the value of the technology contributed by the subject patents, and not include any "lock in" amounts or other value attributable to standardization itself. Second, as discussed in Section VIII, a patent pool's methodology must also take into account the aggregate royalties that would apply if other SEP holders made the same royalty demands of the implementer of the standard. Where a patent pool

¹⁰¹ Questionnaire, Item 5 ("Where and how can patent pools play a positive role in ensuring transparency and an efficient licensing of patents on technologies comprised in standards? What can public authorities and standard setting organizations do to facilitate this role?"). Patent pools are defined by the Questionnaire as "an agreement by which two or more holders of patents agree to licence these patents under a joint licence to each other and/or third parties."

¹⁰² U.S. Department of Justice-Federal Trade Commission, *Antitrust Guidelines for the Licensing of Intellectual Property* ("IP Guidelines"), paragraph 5.5.

¹⁰³ *Id.*

does not represent the full set of applicable SEPs, but nonetheless sets rates without regard to the hundreds or thousands of essential patents that are not included in the pool, FRAND licensing is undermined. And third, as discussed above in Section VIII, to avoid unjust enrichment it is crucial that the patent pool's rates focus on the actual functionality that the pool's patents purport to have invented, and not on uses or combinations that the pool's patents do not cover.

Patent pools also should undertake periodic reviews of their rates to ensure ongoing FRAND-compliance. For example, a formerly robust patent pool may find that over time it eventually represents a smaller percentage of the overall SEPs applicable to the standard.¹⁰⁴ This can occur as other patent owners enter the market and start to actively license their portfolios, as technology and implementations evolve, and as patents expire. Instead of simply requiring the same historical rate for a license renewal (or higher rates), pool managers should consciously and transparently examine whether the existing rate is still FRAND and offer a new rate if necessary, in light of market conditions at time of renewal.

In sum, while patent pooling can sometimes offer benefits and efficiencies, great care must be taken to ensure that SEP pooling includes safeguards against abusive licensing incompatible with the FRAND commitment.

XIV. CONCLUSION

Rational SEP policies can fairly balance a patent owner's ability to obtain reasonable compensation for its valid, enforceable and infringed SEPs, while protecting against abusive licensing or litigation assertions that seek compensation beyond the value of the patented technology. Apple supports the Commission's efforts to study this important issue, and appreciates this opportunity to offer its views on how to best achieve this balance.

¹⁰⁴ One example of a pool that has encountered these issues is the MPEG-2 Video Codec pool (administered by MPEG LA). The pool was originally offering a rate that was not accepted by a certain segment of the relevant market. After some litigation, the pool reduced its rate and offered the same rate to existing and future licensees. Years later, almost all the pool patents have expired, but inexplicably the pool rate, and the licensees' obligation to pay, remain unchanged.

From: Brendan McNamara <brendan_mcnamara@apple.com>
Sent: Friday, February 13, 2015 1:51 PM
To: Schwab, Jennifer <jschwab@ftc.gov>
Cc: Non Responsive
Subject: Re: Cathy (b)(6)

(b)(6)

On Feb 13, 2015, at 10:47 AM, Schwab, Jennifer <jschwab@ftc.gov> wrote:

(b)(6)

Non Responsive

From: Brendan McNamara <brendan_mcnamara@apple.com>
Sent: Tuesday, March 24, 2015 9:53 AM
To: Schwab, Jennifer <jschwab@ftc.gov>
Cc: kkazmerzak@sidley.com
Subject: Re: Eeeck

That is a lot of people. Scary.

On Mar 24, 2015, at 5:31 AM, Schwab, Jennifer <jschwab@ftc.gov> wrote:

Yikes! Never heard of it until today.

Non Responsive

Non Responsive

From: McSweeney, Terrell P.
Sent: Monday, March 02, 2015 7:42 AM
To: 'kandeer@apple.com'; Saceda, Joneta; Schwab, Jennifer; O'Dea, Brian A.
Subject: Re: Fwd: SEPs

I would. Copying Brian, Jenny and Joneta.

From: Kyle Andeer [<mailto:kandeer@apple.com>]
Sent: Sunday, March 01, 2015 08:34 PM
To: McSweeney, Terrell P.
Subject: Fwd: SEPs

Commissioner McSweeney,

I hope this finds you well. My colleague BJ Watrous (Apple's VP and Chief IP Counsel) and I will be in Washington, D.C. next week to discuss recent developments related to IP and standards. We are going to be meeting with staff on Wednesday. I know this issue has been of interest to you in the past. We would be more than happy to stop by and discuss this or any other subject if you would like.

Best,
Kyle

? Kyle Andeer | Senior Director, Competition Law & Policy | Office: (408) 862-9307 | Mobile: (b)(6) kandeer@apple.com

Begin forwarded message:

Non Responsive

Non Responsive

From: Rob Mahini </O=FTCEXCHANGE/OU=FIRST ADMINISTRATIVE GROUP/CN=RECIPIENTS/CN=ROBMAHINI>
Sent: Wednesday, March 11, 2015 3:16 PM
To: Tzucker, Joshua <jtzucker@ftc.gov>
Cc: Saceda, Joneta <jsaceda@ftc.gov>
Subject: Re: Mar 18

Thanks - that should be enough time, and we can follow up with her if she has more questions.

On Wed, Mar 11, 2015 at 2:48 PM, Tzucker, Joshua <jtzucker@ftc.gov> wrote:

I'm looping Joneta. She can only do 40 minutes; we have a meeting to get back to at 11.

Joneta, after her speech next week on the 18th, Rob Mahini with Google wants a meeting. It would be in the same place as the speech.

From: Rob Mahini
Sent: Wednesday, March 11, 2015 1:19 PM
To: Tzucker, Joshua
Subject: Re: Mar 18

Great - can we lock down a meeting with her after the speech? If we could have an hour of her time, that would be great. Thanks.

On Tue, Mar 10, 2015 at 2:23 PM, Tzucker, Joshua <jtzucker@ftc.gov<mailto:jtzucker@ftc.gov>> wrote:
It is on her schedule for 9:30 and she has time afterward.

From: Rob Mahini
Sent: Tuesday, March 10, 2015 1:31 PM
To: Tzucker, Joshua
Subject: Mar 18

Good seeing you today. Do you know what time Terrell is supposed to do the keynote? I assume it's at the start, maybe we could meet right after that.

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com<mailto:robmahini@google.com><mailto:robmahini@google.com><mailto:robmahini@google.c

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com<mailto:robmahini@google.com>

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Robert Mahini | Sr. Policy Counsel | robmahini@google.com

From: Tzucker, Joshua </O=FTCEXCHANGE/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=JTZUKER>
Sent: Thursday, February 19, 2015 4:34 PM
To: Rob Mahini <robmahini@google.com>
Subject: Re: Tomorrow

No worries. Thanks.

From: Rob Mahini
Sent: Thursday, February 19, 2015 04:12 PM
To: Tzucker, Joshua
Subject: Re: Tomorrow

Sure - sorry, should have done this already:

Rob Mahini, Senior Policy Counsel
Jon Rochelle, Director, Product Management
Gina Paik, Director (legal compliance)
Sarah Holland, Senior Policy Analyst

On Thu, Feb 19, 2015 at 4:08 PM, Tzucker, Joshua <jtzucker@ftc.gov> wrote:
Hey Rob-

Could you shoot me the names/titles of anyone coming to the meeting tomorrow?

Thanks,
Josh

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com

From: Rob Mahini </O=FTCEXCHANGE/OU=FIRST ADMINISTRATIVE GROUP/CN=RECIPIENTS/CN=ROBMAHINI>
Sent: Thursday, February 19, 2015 8:41 PM
To: Tzucker, Joshua <jtzucker@ftc.gov>
Subject: YouTube

Hi -- it's likely that on Monday we'll be launching the product I demoed for you, Christine and Terrell right before the FOSI conference. There are a few changes that I can tell you about tomorrow.

--

Robert Mahini | Sr. Policy Counsel | robmahini@google.com