

The Honorable James L. Robart

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UNITED STATES DISTRICT COURT  
FOR THE WESTERN DISTRICT OF WASHINGTON  
AT SEATTLE

MICROSOFT CORPORATION, a Washington  
corporation,

Plaintiff,

v.

MOTOROLA, INC., MOTOROLA MOBILITY  
LLC, and GENERAL INSTRUMENT  
CORPORATION,

Defendants.

CASE NO. C10-1823-JLR

DEFENDANTS' POST-TRIAL BRIEF

**REDACTED**

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[Witness] Tr. x:y-z	page x, lines y-z of the deposition testimony of the indicated witness
11/aa Tr. x:y-z	page x, lines y-z of the trial transcript of the indicated date
Ex.	Trial Exhibit No.
<i>Emphasis</i>	Unless otherwise indicated, all emphasis is added

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1 **I. INTRODUCTION**

2 The Court faces difficult issues of first impression: (1) what methodology to use to  
3 determine a RAND rate, and (2) how to implement that methodology to determine RAND rates  
4 for a license to Microsoft of Motorola’s SEPs. To be as true as possible to what actually happens  
5 in the real world, the Court should recreate the licensing negotiation that would have taken place  
6 had Microsoft negotiated with Motorola in response to its October 2010 offer letters.

7 The focus of this bilateral negotiation should be on Motorola’s past licenses. As the Court  
8 heard from Motorola’s licensing expert, Charles Donohoe, these licenses are negotiated, market  
9 transactions that are the best evidence of how Motorola and third parties in the real world have  
10 valued Motorola’s portfolios when negotiating under a RAND commitment. These license rates  
11 reflect the balance, which Microsoft itself has recognized, between (1) the right of SEP holders not  
12 just to recoup their substantial investment in R&D, but to receive fair value for their patents; and  
13 (2) the right of implementers to obtain reasonable (but not *de minimis*) rates for use of a standard.

14 During trial, Motorola’s experts demonstrated that the reasonableness of the rates in  
15 Motorola’s licenses is confirmed by the importance of Motorola’s patented technology to the  
16 standards, and the value of the standardized technology to Microsoft’s products. As Motorola’s  
17 experts, Drs. Timothy Williams and Timothy Drabik, explained, Motorola’s patents are directed to  
18 core, fundamental features of both the 802.11 and H.264 standards. And as the Court learned from  
19 Mr. Michael Dansky, 802.11 and H.264 technology provides functionality in Microsoft’s products  
20 that consumers demand and that is critical for these products to succeed in the marketplace.

21 In stark contrast to Motorola’s “real-world” approach, Microsoft’s experts, inexperienced  
22 in licensing, dismiss Motorola’s bilaterally negotiated licenses in favor of the sub-market rates of  
23 patent pools. Microsoft’s experts justify their reliance on pools as a benchmark by supposed “hold  
24 up” and “stacking” problems. But the evidence shows that “hold up” and “stacking” are not  
25 problems with Motorola’s licenses or in the 802.11 and H.264 industries. There is no justification  
26 for ignoring the best evidence of value – Motorola’s past licenses to these same patents – and

1 forcing Motorola and other SEP holders to license, against their wills, at depressed pool rates.

2 The impact of forcing SEP holders to license at pool rates would be significant and long-  
3 lasting. These pools feature sub-market rates that heavily favor implementers and distribute  
4 royalties based on the number of patents a company has contributed to the pool, rather than on the  
5 actual value of a company's patents. Thus, every patent, whether a fundamental contribution, or a  
6 mere "bozo tweak," is rewarded equally. If an SEP holder with fundamental patents is forced to  
7 license its patents at "pool rates," it will be unlikely to contribute them to the standard. Indeed, if  
8 companies like Motorola – which has invested \$50 billion dollars over the past 20 years in R&D –  
9 are forced to license their SEPs for a fraction of their value, incentives for contributing to  
10 standards will be eliminated. *See, e.g.,* Turner Tr. 75:3-9. This will result in less collaboration  
11 among high technology companies, slower progress in the development of technology, and weaker  
12 standards to the detriment of the industry and consumers alike. 11/19 Tr. 146:6-147:11.

## 13 **II. SSOs AND THE RAND COMMITMENT**

14 Standard Setting Organizations strive to create the best possible standards, which often  
15 require inclusion of patented technology. This creates two issues for SSOs: (1) encouraging patent  
16 holders to contribute valuable patented technology to a standard; while (2) ensuring that  
17 implementers will have access to that standard, regardless of any patent coverage. For decades,  
18 the RAND commitment established by SSO patent policies has worked successfully to balance the  
19 needs of patent holders and implementers in this regard, allowing patent holders to secure a  
20 reasonable return on their investment in developing patented technology, while assuring  
21 implementers that they will have access to a license on RAND terms.

22 The result has been broad participation in standards and incentives for innovation, resulting  
23 in adoption of robust standards in a variety of industries. Maintaining this balance is critical to the  
24 long-term success of standards. 11/13 Tr. 168:16-169:10. As Microsoft told the FTC:

25 Through *balanced IPR policies* that *help make innovative technology available*  
26 *to implementers on reasonable terms*, and that *do not undercut the value of*  
*patented technology or overly burden patent holders*, standards can help to

1 catalyze innovation by encouraging companies to contribute their innovative  
2 technology to collaborative standards-setting activities and to share their  
3 intellectual property with others via the standardization process. ***Standards will  
not fulfill their salutary purposes if standards policies deter innovators from  
contributing patented technologies or investing in further innovation related to  
standardized technology.*** Ex. 2970 at 4-5.

4 *See also* 11/13 Tr. 167:15-168:8; 11/19 Tr. 136:22-137-138:3, 169:13-170:7.

5 The RAND commitment provides flexibility to allow SEP holders and implementers to  
6 determine RAND terms. 11/19 Tr. 62:19-63:12; 11/16 Tr. 65:15-66:2. While SSOs do not dictate  
7 any particular method of doing so, such terms are typically determined through bilateral  
8 negotiation. Ex. 2970 at 8 n.5, 14-15; 11/16 Tr. 137:21-138:6; 11/19 Tr.142:17-143:10; Heiner  
9 Tr. 33:6-8. Microsoft and its experts agree that bilateral negotiations can lead to RAND licenses.  
10 Ex 2970 at 7-8, 14-15; 11/13 Tr. 181:12-15; 11/16 Tr. 138:7-18.

### 11 **III. RAND SHOULD BE DETERMINED BY A HYPOTHETICAL BILATERAL** 12 **NEGOTIATION**

13 In its *Daubert* Order, the Court observed that it “must employ a methodology which in  
14 some way reconstructs the negotiation that would have taken place between Microsoft and  
15 Motorola.” Dkt. No. 490 at 22. As Motorola’s economist, Dr. Richard Schmalensee, explained,  
16 the most appropriate way to reconstruct that negotiation is to use a modified form of the well-  
17 known *Georgia-Pacific* hypothetical negotiation. 11/19 Tr. 149:16-150:17, 177:7-179:19.

18 *Georgia-Pacific* provides an established, reliable framework for simulating a real-world  
19 negotiation in damages cases – a helpful analog for RAND licensing. Moreover, as the Court  
20 observed, the Federal Circuit “has consistently sanctioned the use of the *Georgia-Pacific* factors  
21 ‘to frame the reasonable royalty inquiry.’” Dkt. No. 490 at 13. The Court also noted that “other  
22 courts have spoken to the applicability of the *Georgia-Pacific* factors in determining a reasonable  
23 royalty in the RAND context.” *Id.* Indeed, there is significant support in the literature for  
24 employing a methodology like *Georgia-Pacific* to determine RAND terms. Dkt. No. 409 at 3, n5.

25 Microsoft, in contrast, advocates determining RAND terms using a theoretical multilateral  
26 *ex ante* framework. But the fundamental flaw with this approach is that it is premised on the

1 existence of two problems – “hold up” and “stacking” – that, as explained below, are not problems  
 2 in the 802.11 or H.264 industries, or for the parties in this case. Microsoft’s theoretical  
 3 multilateral *ex ante* “negotiations,” moreover, do not occur in the real world and, in fact, cannot be  
 4 conducted under the auspices of many SSO policies, including those of the IEEE. 11/16 Tr.  
 5 67:11-68:10.<sup>1</sup> Compounding this problem, an *ex ante* approach to valuing SEPs is impractical  
 6 and inadvisable and would be completely infeasible in this case. 11/19 Tr. 139:4-142:7, 168:3-20.

#### 7 **IV. THE PARTIES’ HYPOTHETICAL BILATERAL NEGOTIATION**

##### 8 **A. *Georgia Pacific* Factor 1 -- Licensing Benchmarks**

9 As explained below, Motorola’s licenses (1) are arms-length, marketplace transactions  
 10 negotiated in good faith under a RAND commitment with sophisticated licensees, (2) include the  
 11 patents at issue in this litigation, (3) were not the product of hold up, (4) have not contributed to a  
 12 stacking problem, and (5) are presumed reasonable. As such, these licenses are the best evidence  
 13 of the RAND rate and range for a license between Motorola and Microsoft. 11/19 Tr. 150:11-17;  
 14 *ResQNet v. Lansa*, 594 F.3d 860, 869-70 (Fed. Cir. 2010).

15 Professor Hovenkamp’s recent article endorses use of Motorola’s licenses to determine  
 16 RAND.<sup>2</sup> Although he concedes that “computing FRAND royalties . . . is not easy,” he agrees that  
 17 it is “much easier” when “the FRAND-encumbered patent has been licensed to others, thus  
 18 creating a ‘yardstick’ for measuring future royalties.” *Id.* at 8. Thus, Prof. Hovenkamp agrees  
 19 that, where licenses are available, they should be the foundation for determining a RAND rate.

##### 20 **1. Motorola’s 802.11 and H.264 Licenses Are the Best Benchmark**

21 Motorola’s substantial historical investment in R&D has resulted in significant portfolios  
 22 of important and valuable essential and non-essential patents. To recoup that investment,  
 23

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24 <sup>1</sup> In response to questions from the Court, Microsoft’s Dr. Lynde defined “*ex ante*” as before the effective  
 25 adoption of the standard and “*ex post*” as after the standard. 11/16 Tr. 86:5-15.

26 <sup>2</sup> Herbert J. Hovenkamp, *Competition in Information Technologies: Standards-Essential Patents, Non-Practicing Entities and FRAND Bidding*, No. 12-32, University of Iowa Legal Studies Research Paper (Nov. 2012), available at [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2154203](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2154203).

1 Motorola has a long history of licensing its core SEP portfolios, including cellular, 802.11 and  
2 H.264, at its “standard offer” of 2.25% of the end product price. 11/20 Tr. 30:4-20, 36:18-20. As  
3 explained by Kirk Dailey, the former head of Motorola’s licensing group, that “standard offer”  
4 resulted from Motorola’s experience licensing its cellular portfolios in the early 1990s. Originally  
5 a fixed per-unit fee of \$9, Motorola’s rate was converted to a 2.25% royalty at the request of  
6 licensees, who were concerned that falling cell phone prices had pushed the effective rate for  
7 Motorola’s patents higher than intended. *Id.* 36:23–37:8. Based on that experience, Motorola has  
8 continued to offer and enter into dozens of license agreements at or near this rate, including  
9 licenses for its 802.11 and H.264 technology. [REDACTED]

10 [REDACTED]  
11 [REDACTED]  
12 Motorola’s RAND licenses are complex agreements resulting from the exchange of  
13 sensitive business information during extensive good-faith negotiations. 11/20 Tr. 45-47, 119-  
14 121. Through the negotiation process, Motorola and its licensees are able to determine which way  
15 any balancing payments should flow, whether any caps should apply, how other non-monetary  
16 compensation will be paid, and whether additional portfolios will be selected under Motorola’s  
17 “no stacking policy.” 11/20 Tr. 136:15-137:4; PFF 33-37.

18 As is typical in the industry, Motorola requires a cross license under its licensee’s SEPs to  
19 protect its own product business. 11/20 Tr. 34:14-24. This requirement is compliant with RAND.  
20 In fact, Motorola’s LOAs with the ITU *explicitly condition* Motorola’s RAND obligation on a  
21 grant back license. 11/20 Tr. 33:12-34:17; Ex. 2838 at 2. Without a grant-back, Motorola does  
22 not owe a RAND obligation to a prospective licensee.

23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED] During  
26 negotiations, VTech requested a license under Motorola’s 802.11 and H.264 portfolios to “give

1 [VTech] some measure of protection on some future products on our road map” and proposed  
2 tiered royalty rates ranging from 0.5% to 2.5%. Ex. 2832; [REDACTED]. [REDACTED]  
3 [REDACTED]  
4 [REDACTED] Microsoft’s expert, Dr. Murphy, admitted that this  
5 agreement *was not the product of hold up*. 11/13 Tr. 184:5-10. Recently, VTech has launched  
6 two new tablets (the InnoTab 2 and 2S), both of which practice H.264 and 802.11 and are  
7 expected to generate significant royalty revenue in the near future. 11/20 Tr. 55:1-7; 3200; 3396.<sup>3</sup>

8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]

22 Mr. Donohoe testified that the Symbol licenses confirm his conclusions regarding the  
23 range of RAND rates for Motorola’s SEPs. In 2007, Motorola acquired Symbol Technologies.

24 <sup>3</sup> [REDACTED]  
25 [REDACTED]  
26 [REDACTED]

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11/20 Tr. 59:2-6. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Microsoft's experts argued that the [REDACTED] and [REDACTED] licenses are not appropriate benchmarks because, under Motorola's "no stacking" policy, it is difficult to apportion the royalties among the various licensed portfolios. But a closer examination of these agreements refutes that position. [REDACTED]

[REDACTED]

1 [REDACTED]  
2 [REDACTED]  
3 **2. Motorola's 802.11 and H.264 Licenses Are Not Infected With Hold Up  
And Do Not Contribute To A Stacking Problem**

4 Microsoft's experts dismissed Motorola's licenses because of supposed hold up and  
5 stacking concerns, but have no evidence that these are actual problems with Motorola's licenses.  
6 Dr. Murphy, for example, testified that Motorola's licenses "could have hold up" and that *ex post*  
7 licenses had the "potential" for hold up, but ultimately admitted that "hold-up has not necessarily  
8 been a problem." 11/13 Tr. 162, 179-80, 201-02. Dr. Simcoe admitted he has *no evidence* of hold  
9 up in any Motorola's license – or, for that matter, in *any* license from *any* company, or even *in*  
10 *this very case*. 11/16 Tr. 66:24-67:10. And Dr. Lynde admitted he has no specific evidence of  
11 hold up with Motorola's licenses. 11/16 Tr. 138:19-139:7; 11/19 Tr. 150:18-25. Thus, their  
12 testimony is fully consistent with Microsoft's statement to the FTC that hold up "occurs rarely"  
13 and there is "little evidence" it is a "real problem." Ex. 2970 at 6, 14-16.

14 Microsoft similarly presented no specific evidence of a stacking problem in the 802.11 or  
15 H.264 industries generally. 11/13 Tr. 177:14-179:14; 11/16 Tr. 66:3-23, 139:10-141:15.<sup>4</sup> As Dr.  
16 Schmalensee explained, while the economic literature recognizes royalty stacking as a theoretical  
17 concern, no actual stacking problem has been observed because, for example: (1) many SEP  
18 holders retain their patents for defensive purposes and do not license them; (2) stacking is taken  
19 into consideration during negotiations; and (3) parties tend to be reasonable because of the  
20 repeated and reciprocal nature of licensing. *Id.* at 148:8-18, 173:13-175:10; *see also* 11/19 Tr.  
21

22 <sup>4</sup> Microsoft's experts testified that stacking could become a problem if the Court adopts Motorola's proposed  
23 rates. 11/16 Tr. 179:1-7. But these opinions are nothing more than unsupported speculation. For example, Dr.  
24 Murphy presented a demonstrative (Ex. 4006) that purported to show that a stacking problem would exist if the Court  
25 found a RAND rate of 2.25% for Motorola's patents. But Dr. Murphy admitted that his "simple" demonstrative was  
26 merely "illustrative"; it (1) assumed all potential licensors would try to license their patents (which has not been the  
case), (2) assumed all would seek – and obtain – 2.25% for their patents (which does not conform to actual practice),  
(3) did not account for reductions in rate due to cross-licensing (which industry practice confirms is often the case),  
and (4) did not account for potential differences in size, value, strength and importance between Motorola's portfolios  
and the portfolios of others (which must be considered in any negotiation). 11/13 Tr. 175:12-177:10.

1 176:3-177:2 (“I license you, you license me; if I am unreasonable to you, you are going to be  
2 unreasonable to me tomorrow.”). Moreover, most SEP licenses are cross-licenses that yield lower  
3 “net” rates, which further alleviates any stacking problem. 11/13 Tr. 176:17-20. And there is little  
4 likelihood of Microsoft ever facing a stacking problem, as Microsoft [REDACTED]

5 [REDACTED].  
6 Microsoft relies on two 2006 proposals submitted by Motorola and others to an unrelated  
7 standards body (ETSI) for an unrelated technology (cellular) to try to substantiate its purported  
8 stacking concern. Exs.1031, 1033. The first proposal suggested “introduce[ing] the principles of  
9 aggregated reasonable terms and proportionality into the [ETSI] FRAND definition.” Ex. 1031 at  
10 § 6; 11/16 Tr. 77:12-20. This proposed revision was rejected. 11/16 Tr. 68-70. Motorola’s  
11 second proposal, which related to a proposed cellular patent pool, was also rejected. Notably,  
12 even without these changes being implemented, a cellular stacking problem has not materialized  
13 and cellular technology has enjoyed widespread, worldwide success. PFF 129-30. If anything,  
14 the history of these proposals confirms that the concepts of aggregate reasonable  
15 terms/proportionality and patent pooling are not necessary to prevent stacking problems.

### 16 **3. The Via Licensing and MPEG LA Patent Pools Are Poor Comparables**

17 Because a multilateral *ex ante* negotiation has never happened in the real world and is  
18 impossible to model accurately, Microsoft resorts to the MPEG LA H.264 and Via Licensing  
19 802.11 patent pools (and their depressed rates) as supposed proxies for such a negotiation. But  
20 these are poor comparables for a bilaterally negotiated license between Motorola and Microsoft.

21 *The characteristics of these pools make them poor comparables.* Pool licenses are  
22 fundamentally different from and serve a different purpose than SSOs and bilaterally negotiated  
23 licenses. PFF 143-46. Microsoft’s experts tried to justify reliance on these pools by attempting to  
24 find similarities between SSOs and patent pools. But Microsoft’s own Gary Sullivan, who helped  
25 lead the development of the H.264/AVC standard, refutes this false comparison:  
26

1 Do not mix up the notion of patent pools and open standards organizations. *They*  
 2 *have NOTHING to do with each other.* Open standards organizations (e.g., ITU-  
 3 T, ISO, IEC) have NO OPINION whatsoever on specific licensing terms and they  
 do not force anyone to join any pool and *have no relationship whatsoever with*  
*any pools that do form.* Ex. 2345; 11/14 Tr. 37:4-40:2.<sup>5</sup>

4 Indeed, Motorola's economic expert, Dr. Richard Schmalensee, explained that while pools and  
 5 SSOs both seek broad adoption of the standard, their motivations quickly diverge, making  
 6 Microsoft's comparison inaccurate. 11/19 Tr. 147:12-148:7.

7 Here, the Court is determining a RAND rate for a bilaterally negotiated license to  
 8 Motorola's patents based on the unique circumstances of Motorola and Microsoft. In contrast, the  
 9 MPEG LA and Via Licensing pools do not include Motorola's patents and were negotiated by  
 10 multiple parties based on their collective circumstances (and the desire for low rates to stimulate  
 11 pool membership). Moreover, Microsoft is relying on these pools as proxies for its proposed  
 12 multilateral *ex ante* negotiation, but these pools are neither fully multilateral nor *ex ante*. PFF  
 13 164-172. The Via Licensing pool has been unable over seven years to attract a meaningful  
 14 number of licensors or licensees and is effectively a failure. PFF 179-84. Indeed, Microsoft told  
 15 Via Licensing that it did not want to join because it preferred to license bilaterally, outside of the  
 16 pool – exactly Motorola's position. 11/18 Tr. 152:5-155:19; Ex. 3194. And Dr. Lynde testified in  
 17 a prior engagement for Fujitsu that a reasonable royalty for an 802.11 SEP would be higher than  
 18 the Via Licensing pool rate – ***as much as 500% or more higher.*** 11/16 Tr. 175:13-176:17.<sup>6</sup>

19 ***Microsoft's pools ignore patent value.*** These pools also are poor comparables because  
 20 they ignore the actual value and technical merit of patents and, instead, value all patents equally.  
 21 This contradicts directly Microsoft's economic theories advanced at trial that "a RAND royalty  
 22 must reflect the economic value of the patented technology" (11/13 Tr. 151:24-25, 153:1-10) and

23  
 24 <sup>5</sup> And while Mr. Sullivan tried to distance himself from these statements during trial, his email clearly that  
 "anyone studying the situation would reach the same conclusions [as in his email] and say roughly the same thing.  
 25 ***There's no major insight here. I don't really understand how a different impression can persist.***" Ex. 2345.

26 <sup>6</sup> While Microsoft argues self-servingly that the Via Licensing pool has been a failure because its rates are too  
 high to attract licensees (*see, e.g.*, 11/18 Tr. 117:18-23), an equally plausible explanation is that the rates were set too  
 low to attract licensors. Regardless, the abject failure of the pool makes it completely inappropriate as a benchmark.

1 that a “reasonable royalty should be tied to the technical merit of the patent” (*id.* at 171:20-24).  
2 These pools do precisely the opposite – they distribute royalties on a per-patent basis and treat all  
3 patents (both weak and strong) as if they are equally valuable (or equally unimportant). PFF 157-  
4 63. This “patent counting” approach (1) is not used in bilateral licensing; (2) ignores the  
5 technology of the patent, its contribution to the standard and its use by licensed products; and  
6 (3) contradicts the irrefutable logic of Microsoft’s Gary Sullivan, who observed that a company  
7 can charge more for “fundamentally-important IPR” than for a “Bozo tweak.” Ex. 2345.<sup>7</sup>

8 ***Microsoft’s pools were not designed to maximize return.*** As the Court recognized, “[t]he  
9 motivation of someone joining the pool and setting a pool rate is not the same as Motorola’s  
10 motivation, which is to maximize its return.” 10/18/12 Hr’g Tr. at 40. Indeed, the sub-market  
11 rates of the MPEG LA pool were motivated by a desire to limit royalty exposure for implementers,  
12 not to maximize return. Garrett Glanz, a Microsoft in-house attorney, confirmed that Microsoft  
13 lobbied actively for low rates and annual caps to protect its OEM customers and to limit the cost  
14 to Microsoft of integrating H.264 into PCs. 11/13 Tr. 97:6-99:16; Ex. 2961.<sup>8</sup> When these efforts  
15 were successful, it was lauded as a “business win.” Ex. 2359 at 5; 11/13 Tr. 99:4-16, 104:12-  
16 105:19. Microsoft’s Dean Hachamovitch, a Vice President, confirmed that “revenue play[ed] no  
17 part in our decision” to join the pool. Ex. 2840 at 2. Instead, Microsoft sought to maximize its  
18 profits by selling as many H.264 products as possible that were clear of infringement claims.

19 ***Patent pools are voluntary organizations that companies should not be forced to join.*** It  
20 is not unRAND for a company to reject a pool and seek “higher reasonable rates” outside of the  
21 pool. 11/13 Tr. 101:11-18; *id.* at 98:7-12; 11/16 Tr. 139:18-22, 151:7-13. As recognized by Dr.  
22 Lynde, the higher the value of a patent owner’s SEPs and the more capable its licensing program,  
23

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24 <sup>7</sup> Judge Crabb also expressed skepticism that patent counting was “an appropriate way” to determine a RAND  
rate. (Nov. 5, 2012 Tr., Case No. 11-CV-178-BBC (W.D. Wis.), at 28.)

25 <sup>8</sup> Microsoft was not alone in lobbying for low rates and caps. Many of the companies with the largest potential  
26 exposure advocated for low rates and annual caps, including Sony, Fujitsu, Mitsubishi, Motorola, Samsung, and  
Nokia. 11/13 Tr. 78:8-17, 86:11-14; 97:6-13; Ex. 1139.

1 the lower its incentive to join a pool. 11/16 Tr. 145:21-146:3, 146:23-147:3. Consistent with this,  
 2 Mr. Glanz conceded that Motorola did not join MPEG LA because it believed “it was  
 3 advantageous for them not to license through the MPEG LA pool.” *Id.* at 102:6-18.<sup>9</sup> Indeed,  
 4 Motorola has invested \$50 billion in R&D over the last twenty years and its decision is in  
 5 complete harmony with Mr. Sullivan’s testimony that a patent holder is entitled to an “amount that  
 6 *fairly compensates for the value of their IPR.*” Ex. 2345; 11/13 Tr. 169:11-20; 11/14 Tr. 14:16-  
 7 15:1, 32:20-33:15; 11/16 Tr. 151:7-13; Ex. 3399.<sup>10</sup> The effect of Microsoft’s use of patent pool  
 8 licenses as a comparable is to improperly force Motorola to join these pools against its will.

#### 9 **4. Microsoft’s “Confirmatory” Evidence Should be Disregarded**

10 In an attempt to justify its patent-counting-based RAND rate, Microsoft relies on: (1) the  
 11 ARM Holdings licensing program (11/16 Tr. 120:5-124:16); (2) a 2003 InteCap analysis (11/16  
 12 Tr. 124:17-22); and (3) Marvell’s 802.11 chip price (11/16 Tr. 119:5-120:4). None provides a  
 13 reliable benchmark for determining a RAND rate and range applicable to Motorola’s SEPs.

14 *Royalties Earned by ARM Holdings Are Not Reflective of a RAND Royalty for*  
 15 *Motorola’s 802.11 SEPs.* Although Microsoft’s Dr. Lynde purportedly relied on ARM’s  
 16 licensing program as a benchmark, he never read the license agreement that ARM uses in that  
 17 program (11/16 Tr. 160:20-161:14), never familiarized himself with the agreement’s restrictions  
 18 on the scope of license (*id.* at 161:15-22), and presented no evidence regarding the number or  
 19 nature of any patents covered by the agreement. He similarly did not know whether the license  
 20 covers only ASICs made with ARM tools, and admitted that if so, the license could be “quite a bit  
 21 less valuable” than an unrestricted patent license. Finally, Dr. Lynde conceded that the ARM  
 22 license “is not a comparable to a multilateral *ex ante* negotiation....” 11/16 Tr. 160:13-15.

23 \_\_\_\_\_  
 24 <sup>9</sup> Even though Motorola was involved in the discussions that set the terms of the MPEG LA H.264 license,  
 25 Motorola’s decision not to join the pool was not unusual. Indeed, Apple, Nokia, IBM, and Thompson all were  
 26 involved in discussions with MPEG LA and none joined the pool at that time. 11/13 Tr. 117:2-119:2; 11/16 Tr.  
 150:5-152:4. Similarly, Microsoft has not joined the 802.11 Via Licensing pool because “Microsoft prefers to enter  
 into bi- lateral discussions with the Licensor’s [*sic*] individually.” Ex. 3194; 11/16 Tr. 153:19-155:19.

<sup>10</sup> Dr. Simcoe admitted that a RAND rate can be above a pool rate. 11/13 Tr. 119:3-190; 11/16 Tr. 72:6-10.

1           ***The 2003 InteCap Analysis is Not Informative of a RAND Rate for Motorola’s Current***  
2 ***Portfolio of 802.11 SEPs.*** The InteCap study did not generate useful data applicable to  
3 Motorola’s licensing efforts. Indeed, as Dr. Lynde confirmed, the 2003 InteCap exercise  
4 considered only 5 Motorola 802.11 SEPs – only ***one*** of those was listed in the Annex of 802.11  
5 patents offered to Microsoft in October 2010. *Id.* at 164:8-23. InteCap did not consider the  
6 strength of the later-acquired Symbol patents or the royalties they were awarded following  
7 successful litigation. *Id.* at 166:3-19. Dr. Lynde also did “nothing to assess the relative strength  
8 of the patents that InteCap considered, as compared to the patents at issue in this litigation owned  
9 by Motorola.” *Id.* at 165:14-21. InteCap also did not account for changing circumstances  
10 regarding the use of 802.11 in the marketplace (*id.* at 163:18-23); and utilized “projections [that]  
11 fell short of reality” (*id.* at 164:3-7). Ultimately, the InteCap analysis was viewed by Motorola  
12 only to determine whether there was “viability in proceeding.” Curtis Tr. 35:7. Motorola wanted  
13 to do “a worst case assessment of what a minimal opportunity might be” – it was ***not*** an exercise  
14 in profit maximization, as Dr. Lynde suggested. *Compare id.* at 38:7-8 with 11/16 Tr. 126:14-20.

15           ***Marvell’s 802.11 Chipset Is Not the Smallest Saleable Unit and Does Not Constrain a***  
16 ***RAND Royalty for Motorola’s 802.11 Patents.*** Dr. Lynde testified that application of Motorola’s  
17 2.25% rate to the price of the Marvell chipset would produce a royalty rate that corroborates the  
18 RAND rate that he calculated for Motorola’s patents. *Id.* at 119:20-120:4. As explained below  
19 (*see* Section IV.B.2, *infra*), the economic value of Motorola’s 802.11 technology is best measured  
20 by the value it provides to the user – not by the price of the Marvell chip. Moreover, it is incorrect  
21 that Marvell’s chipset, operating alone, practices each and every claim of the Motorola 802.11  
22 patents. *Id.* at 158:3-10; *see, e.g., Cornell Univ. v. Hewlett-Packard Co.*, 609 F. Supp. 2d 279,  
23 283, 288 (N.D.N.Y. 2008) (describing the “smallest salable unit” as the “patent-practicing unit,”  
24 the “infringing unit,” and the “unit incorporating [the patented] invention”). In fact, exactly the  
25 opposite was established by both Motorola’s Dr. Williams (11/19 Tr. 71:12-13, 132:13-133:5) and  
26 Microsoft’s Mr. Del Castillo (11/15 Tr. 25:15-19, [REDACTED]). According to a Microsoft engineer,

1 components of the Xbox outside of the Marvell chip are used to perform significant parts of the  
 2 802.11 functionality. Ex. 502 at ¶ 54. For example, the Xbox implements the 802.11 Standard's  
 3 highest level of security in order to be certified compliant by the Wi-Fi Alliance, and Motorola's  
 4 Banwart patent includes claim limitations that read on security functions carried out in the  
 5 processor and memory of the Xbox, not in the Marvell chip. 11/19 Tr. 98:15-100:13.<sup>11</sup>

6 **B. *Georgia-Pacific* Factors 6, 8, 9 and 13 – Motorola's SEPs are Important to**  
 7 **802.11 and H.264 Standards and to Microsoft's Current and Future Products**

8 *Georgia-Pacific* Factors 6, 8, 9, and 13 relate to the importance and use of the patented  
 9 technology and its implementation in the products that utilize it. In the context of a cross-license  
 10 to a portfolio of SEPs, this suggests a two-step inquiry. The fact finder should consider (1) the  
 11 value, benefit and importance of the patented technology in the context of the standards at issue  
 12 and (2) the value and importance of that patented technology to the products at issue by  
 13 considering, for example, sales revenue, market acceptance, profit, convoyed sales, and technical  
 14 operation. As set forth below, the analysis for Factors 6, 8, 9 and 13 demonstrates that Motorola's  
 15 802.11 and H.264 patents are valuable and confirms the rate in Motorola's executed licenses.

16 **1. Motorola's 802.11 SEPs Are Technologically Valuable**

17 As of October 2010, Motorola's 802.11 portfolio comprised at least 23 patent families with  
 18 at least 48 U.S. patents and hundreds of foreign counterparts. Ex. 1. Motorola's expert, Dr. Tim  
 19 Williams, selected 24 patents (one from each of 22 families, and two from a 23rd family),  
 20 analyzed the patents and file histories, selected and analyzed a representative claim from each, and  
 21 prepared a claim chart correlating each to the 802.11 Standard. Dr. Williams thus verified that  
 22 each claim was essential. 11/19 Tr. 70:10-71:5, 72:20-73:2, 74:18-22, 76:11-77:19, 109:15-25.<sup>12</sup>

23 <sup>11</sup> Moreover, Marvell does not sell chips that include license fees embodied in that price. 11/19 Tr. 157:18-19.  
 24 As Dr. Schmalensee testified, "[i]t is certainly not uncommon for the price of a product to vastly exceed the cost or  
 price of the hardware involved because of intellectual property." *Id.* at 156:8-10.

25 <sup>12</sup> For the most part, Microsoft does not dispute that Motorola's 802.11 patents are essential – Microsoft's  
 26 expert, Dr. Jerry Gibson, simply assumed Motorola's patents were essential (indeed, were it otherwise, there would be  
 no RAND obligation on Motorola's part, and this litigation would be moot as to the 802.11 Standard). 11/15 Tr.  
 156:21-157:18. At trial, he attempted to modify this general assumption by raising some questions as to Dr.

1 Dr. Williams testified that Motorola's 802.11 SEPs are technologically valuable because  
 2 they cover fundamental and core features of the Standard. 11/19 Tr. 71:6-8, 128:21-130:12,  
 3 133:14-134:2. He considered eleven patent families covering various aspects of four core features  
 4 of the Standard, and explained why the inventions of these patents *must* be used by any device  
 5 certified as 802.11 compliant by the Wi-Fi alliance. *Id.* 73:12-22, 78:7-20, 79:10-16, 84:7-18:<sup>13</sup>

- 6 • **Network Setup:** 6,069,896 (Borgstahl, Ex. 171) and 6,331,972 (Harris, Ex. 177).  
 In 802.11, wireless connections must first be established by a predetermined  
 7 exchange of control information between a wireless "station" (e.g., smartphone  
 or Xbox) and an "access point" (e.g., a Wi-Fi router connected to the Internet)  
 8 before any further communication can occur. 11/19 Tr. 84:19-20, 85:2-86:2.
- 9 • **Channel Access Management:** 5,142,533 (Crisler, Ex. 148) covers the  
 situations where more than one 802.11 station has established a connection to an  
 10 access point. 802.11 communication is such that only one station may  
 communicate at any one point in time. To determine when an 802.11-compliant  
 11 device should transmit, Crisler implements a "listen before you talk" process.  
 This technique enables multiple 802.11 devices to share the channel efficiently.  
 12 11/19 Tr. 84:21-23, 86:3-23, 105:11-13.
- 13 • **Data Modulation Techniques:** Five patents – 6,473,449 (Cafarella, Ex. 180);  
 5,329,547 (Ling, Ex. 156); 5,822,359 (Bruckert, Ex. 170); 5,519,730 (Jasper, Ex.  
 14 164); and 5,272,724 (Solomon, Ex. 151) – relate to basic aspects of the  
 sophisticated modulation techniques used in 802.11. Different combinations of  
 15 these patents are used depending on whether the 802.11a, 802.11b, 802.11g, or  
 802.11n version of the standard is being used. 11/19 Tr. 84:23-24, 86:24-87:22.
- 16 • **Security and Encryption:** 5,357,571 (Banwart, Ex. 157), 5,467,398 (Pierce, Ex.  
 161), and 5,689,563 (Brown, Ex. 169). Any practical implementation of 802.11  
 17 must provide compliant security for the communication to prevent eavesdropping  
 and ensure authentic communication. 11/19 Tr. 84:24-85:1, 87:23-88:19.

18 Three additional families cover core features that certain types of 802.11 devices must use,  
 19 11/19 Tr. 73:23-74:9, 79:17-80:1:

- 20 • 6,404,772 (Beach, Ex. 179), required by access point devices, is directed to core  
 aspects of channel access management. 11/19 Tr. 79:23-24.
- 21 • 6,038,263 (Kotzin, Ex. 383) covers MIMO technology used in 802.11n devices,  
 and is rapidly increasing in importance and value. 11/19 Tr. 79:5-9, 24-25.
- 22 • 5,412,722 (Sherly, Ex. 160) covers important aspects of group key encryption.  
 23 11/19 Tr. 80:1.

24 Williams' essentiality analysis of two of the Motorola patents, but Dr. Williams refuted these assertions. 11/15 Tr.  
 108:22-109:7; 11/19 Tr. 94:19-95:3; 11/15 Tr. 107:22-108:21; 11/19 Tr. 95:5-11.

25 <sup>13</sup> The "Wi-Fi Alliance" has established a certification program whereby companies submit products for testing  
 26 to verify compliance with the Standard. Certified products are permitted to display the Wi-Fi Alliance logo. 11/19  
 Tr. 80:20-81:24; Ex. 2329 at 31; Ex. 2329A.

1 Motorola's nine remaining families are required for important advanced features that may  
2 or may not be used in a particular 802.11 device, 11/19 Tr. 74:10-17, 80:2-19:

- 3 • **Power Management:** U.S. Patent Nos. 5,029,183 (Tymes, Ex. 2013) and  
4 5,479,441 (Kramer, Ex. 2014) (members of the same family); 5,560,021 (Vook,  
5 Ex. 166); and 6,236,674 (Morelli, Ex. 2016), concerning power management, are  
6 important for battery-powered portable devices. 11/19 Tr. 80:6-15.
- 7 • **Low Density Parity Check Codes:** 7,143,333 and 7,165,205 (Blankenship,  
8 Exs. 181, 183) and 7,493,548 (Nimbalker, Ex. 2019) relate to "LDPC" codes.  
9 LDPC codes correct communication errors caused by noise or interference, and  
10 are expected to be mandatory in the near future. 11/19 Tr. 80:15-17.
- 11 • **Data Fragmentation, Fast Transitions, Networking:** 5,311,516 (Kuznicki, Ex.  
12 154) (Data Fragmentation); 7,236,477 (Emeott, Ex. 101) (Fast Transitions); and  
13 7,197,016 (Belcea, Ex. 100) (Mesh Networking). 11/19 Tr. 80:6-19.

14 Some of the patents that Dr. Williams considered have expired, and so would pertain only  
15 to past damages. But the Motorola 802.11 portfolio is a dynamic asset, and as some patents expire  
16 other recently issued patents join the portfolio. 11/19 Tr. 78:21-79:9, 80:15-17. What Microsoft  
17 does not use today (e.g., in Xbox) it might use tomorrow (e.g., in Surface tablets). This is  
18 precisely why parties seek portfolio licenses when licensing SEPs.<sup>14</sup>

19 Significantly, none of Microsoft's purported alternatives to the 802.11 technologies  
20 covered by the Motorola's essential patents were, in fact, credible, acceptable alternatives. None  
21 were shown to have been actually considered for implementation by the IEEE. Nor was it shown  
22 how any purported alternative would or could have been implemented in the Standard and, if  
23 implemented, how the Standard would have had to be further amended or rewritten, and what  
24 technological or commercial advantages or disadvantages would have resulted. Nor was it shown  
25 that any alleged alternative actually would have fallen outside the scope of the Motorola patent  
26 that it purports to replace. 11/19 Tr. 71:17-19, 102:17-106:4. Indeed, Dr. Gibson admitted that he  
was wrong as to at least one alleged alternative. 11/15 Tr. 169:14-175:12. Another alternative  
was based on his undergraduate textbook, whereas the technology of the standard requires far

<sup>14</sup> Microsoft owns seven patents that it says are essential to the 802.11 Standard. At least five, however, are in fact not essential. And the two remaining patents that arguably may be essential relate to subject matter that is peripheral to the normal use of 802.11 and has not been widely adopted in actual commercial use. Neither arguably essential patent is used in any Motorola 802.11-compliant product. 11/19Tr. 71:14-16; 100:24-102:16.

1 more complex approaches. 11/19 Tr. 105:17-106:4. His attempts to justify his analysis as to the  
2 other alternatives were neither rigorous nor credible. 11/15 Tr. 164:23-169:13.

3 The testimony of Marvell's Jennifer Ochs confirms Dr. Williams' opinion that Motorola's  
4 802.11 patents are valuable. She testified that Marvell has a "very valuable" 802.11 portfolio of  
5 "a few hundred patents" and yet offered to enter into a *zero-zero cross-license* with Motorola for  
6 its 802.11 patents. 11/14 Tr. 64, 76-77.

## 7 **2. Motorola's 802.11 SEPs Are Important To Microsoft's Products**

8 Based on Microsoft's statements that the Xbox and Surface comply with the 802.11  
9 Standard and bear the Wi-Fi logo, those products necessarily use at least the above-discussed  
10 eleven core patent families that must be implemented by any Wi-Fi-certified device. 11/19 Tr.  
11 71:9-11, 80:20-83:12; 11/13 Tr. 40:5-10, 41:9-20, 52:11-18; Exs. 2329 at 0606790, 2329A, 3145.

12 Dr. Gibson attempted to discount the value of Borgstahl and Harris by asserting that those  
13 patents relate only to "peer-to-peer" devices, and that therefore the Xbox products do not use those  
14 patents. 11/15 Tr. 109:11-110:14. But Dr. Gibson admitted on cross that the asserted claims do  
15 not include any "peer-to-peer" language, and Dr. Williams pointed out that Dr. Gibson was  
16 attempting to improperly import an illustrative embodiment disclosed in those patents into claims  
17 that impose no peer-to-peer limitation.<sup>15</sup> 11/15 Tr. 192:11-193:19; 11/19 Tr. 95:12-21. Dr.  
18 Gibson also deemed as "not relevant" Ling, Cafarella and Bruckert because they relate to the  
19 802.11b and 802.11g modulation schemes, which he characterized as slower "legacy" modes of  
20 operation. 11/15 Tr. 110:15-112:1. Dr. Williams refuted this, too, pointing out that the 802.11  
21 Standard requires these modes to be supported. This support allows for 802.11n devices to be  
22 backward compatible with 802.11b and 802.11g devices, allowing newer 802.11 devices to work  
23 with older ones, and for all devices in a network to "fall back" to the b- or g- modes when

24 <sup>15</sup> Microsoft's expert also argued that 5,142,533 (Crisler), prior to its expiration in March 2011, was not used by  
25 the Xbox. 11/15 Tr. 106:21-107:21. Dr. Williams refuted this, explaining that his original essentiality analysis cited  
26 the use of the RTS/CTS signal, and Quality of Service (QoS) features, in the standard as an *example* of how Crisler  
read on the standard, but that Crisler did not require use of RTS/CTS, or QoS, and its claims did in fact read on the  
Xbox operation. 11/19 Tr. 97:14-98:10.

1 operating conditions do not allow reliable n-mode operation. 11/19 Tr. 96:9-21; *also* 11/15 Tr.  
2 189:13-190:9, 191:19-192:10. [REDACTED]

3 [REDACTED]  
4 Microsoft's expert also attempted to dismiss Motorola's security SEPs, arguing that the  
5 Xbox's own end-to-end security rendered the security provisions of the standard not relevant to  
6 the Xbox. 11/15 Tr. 112:2-114:14. But this end-to-end security is limited to communications  
7 between two Xboxes or between an Xbox and an Xbox Live service. It does not encrypt and  
8 secure other communications, such as when using Internet Explorer to surf the Internet on the  
9 Xbox. *Id.* 181:6-185:15, 26:16-22, 27:16-28:1, [REDACTED]. Further, Wi-Fi certification is critical to  
10 the marketability of the Xbox, and certification is conditioned on compliance with the security  
11 provisions of the 802.11 Standard, which in turn requires use of Motorola's patents. If an Xbox is  
12 being used with a Wi-Fi access point that is set for 802.11 security, the Xbox must be set to  
13 function at that same level of security. *Id.* 175:23-177:20, 180:10-13; 11/19 Tr. 96:23-97:8. This  
14 is a common occurrence in the ordinary home environment in which the Xbox is used.<sup>16</sup>

15 There is no doubt that the ability to communicate via the 802.11 Wi-Fi Standard and  
16 obtaining Wi-Fi certification are crucial to the marketability of the Xbox. There has been a steady  
17 trend in recent years to provide Wi-Fi in consumer and business products, and it has become a  
18 customer expectation. 11/15/12 Tr. 46:13-19, [REDACTED], 86:3-89:20, 92:9-93:11. Microsoft's Xbox  
19 is no exception to this trend. As stated by a Microsoft engineer, Wi-Fi certification "is a key and  
20 very important marketing lever we have with our competition and not having the 802.11b/g/n Wi-  
21 Fi logo is not an option." Ex. 3145 at 1. Prior to integrating Wi-Fi in the Xbox 360 console,  
22 Microsoft acknowledged its concerns that the Xbox 360 would "appear dated" when compared to  
23 the competing consoles from Sony and Nintendo, which included integrated Wi-Fi, and that this  
24 [REDACTED] 11/15 Tr. 42:18-44:22; [REDACTED]

25 <sup>16</sup> Survey results show that 19.6% of users of the Xbox 360 use 802.11 CCMP security and 12.6% of users of  
26 the Xbox 360 use 802.11 TKIP security when connecting to the Internet through Wi-Fi. 11/19 Tr. 191:4-18, 191:25-  
192:9, Ex. 2392, Ex. 3034-A, PFF 706-707.

1 Indeed, without integrated Wi-Fi, the Xbox 360's market share plummeted to less than  
2 30% from a dominant 69% after launch. 11/14/12 Tr. 214:16-24; Ex. 2451. Product reviews  
3 lamented Microsoft's continued failure to include Wi-Fi in the Xbox 360. Ex. 2684 at 4 ("[T]he  
4 older Xbox was limited to a wired network connection. Sadly, that hasn't changed on the [new  
5 Xbox model]"). Realizing that "wireless connectivity using wifi was becoming a customer  
6 expectation," 11/15/12 Tr. 46:16-17, 50:7-8, Microsoft planned to beat Nintendo and Sony to the  
7 market with the first console to have integrated 802.11n wireless connectivity in the Xbox 360 S.  
8 Microsoft touted this feature as a "key product differentiator," where Nintendo and Sony only  
9 "have 802.11b/g included in [the console]." 11/15 Tr. 46:1-19; [REDACTED]; [REDACTED]

10 In addition, Microsoft understood the importance of providing 802.11n connectivity to  
11 existing Xbox 360 owners, and in parallel developed the "Omni N" wireless adapter for sale as an  
12 add-on accessory. [REDACTED] Microsoft sold its wireless adapter, which was directed solely to  
13 providing improved wireless functionality for \$99.99, despite its cost of goods sold of less than  
14 \$15. 11/15 Tr. 25:20-25, 50:12-17, 51:7-25, 53:3-14; [REDACTED]

15 Following launch in 2010 of the Xbox 360 S (with its now-integrated Wi-Fi) and the Omni  
16 N adapter, Microsoft regained the top market share, where it remains today. 11/15/12 Tr. 214:25-  
17 215:5; Ex. 2451. Microsoft has admitted that "most homes do not have wired networks today.  
18 When you go into a home, if they have a connection, it's going to be WiFi, because it's the easiest  
19 to set up." 11/15/12 Tr. 78:2-4. Indeed, without 802.11, it "would probably be difficult" to sell  
20 the Xbox 360 today. Penello Depo Tr. 71:10-14; *see also* [REDACTED]

21 Recently, Microsoft has focused on a strategy to "own the living room" by positioning the  
22 Xbox as a digital multimedia hub at the center of home entertainment. 11/15/12 Tr. 54:7-13,  
23 56:10-15; 11/19/12 Tr. 217:10-218:4; Exs. 2265 at 2-4, [REDACTED]. Wi-Fi is a  
24 critical part of this strategy, as it "opens up the world for all the other features that you can get to,"  
25 such as multiplayer video games, and bandwidth-intensive content like HD video available, for  
26 example, through Xbox LIVE subscriptions. 11/15/12 Tr. 46:20-25; [REDACTED], [REDACTED],

1 [REDACTED] Wi-Fi will be “vital” to the overall user experience in Microsoft’s next-generation Xbox.  
 2 11/15 Tr. 218:20-219:19; [REDACTED] [REDACTED]

3 [REDACTED]  
 4 [REDACTED]  
 5 [REDACTED]  
 6 Microsoft’s new Surface tablet uses only 802.11, instead of cellular or wired connections,  
 7 to connect to the Internet. 11/13 Tr. 41:9-20, 52:11-18. Critically, without 802.11 capability, the  
 8 Surface tablet would be unable to compete in the market, because consumers purchase tablets with  
 9 the intention of accessing online content frequently. Ex. 2718 at 1.

### 10 3. Motorola’s H.264 SEPs Are Technologically Valuable

11 Motorola has 16 U.S. patents in 6 families and 55 foreign counterparts that are essential,  
 12 technically valuable to, and directed to core features of, H.264 (11/19 Tr. 25-27; PFF 443-500):

- 13 • **Krause and Wu Patent Families:** 5,235,419 (Krause, Ex. 270) is technically valuable  
 14 because it relates to a fundamental prediction technique that compares a plurality of motion  
 15 compensators to find the one that results in the most compression. 11/19 Tr. 27:22-28:17;  
 16 PFF 450-52. 5,376,968 (Wu, Ex.283) is technically valuable because it relates to a  
 17 fundamental prediction technique that provides greater flexibility in adaptively choosing  
 18 compression modes, which leads to greater efficiency. 11/19 Tr. 29:2-22; PFF 457-59.
- 19 • **Eifrig Patent Family:** 6,005,980 (Ex. 268) is technically valuable because it generates a  
 20 predictor motion vector, which significantly improves coding gain over other choices of  
 21 blocks for motion vector prediction. 11/19 Tr. 30; 11/16 Tr. 200:2-202:11; PFF 464-67.
- 22 • **MBAFF Patent Family:** 6,980,596, 7,310,374, 7,310,375, 7,310,376, 7,310,377,  
 23 7,421,025, 7,477,690, and 7,817,718 (Exs. 271-278) are directed to a “main innovative  
 24 feature” of H.264 – macroblock adaptive frame/field (“MBAFF”) coding – that is  
 25 technically valuable because it provides substantial coding gain through the use of  
 26 macroblock pairs, which permit prediction on all seven block sizes in frame and field  
 mode. 11/19 Tr. 30:24-32:3; Ex. 574 at 136-37. The JVT adopted MBAFF after third  
 party coding experts confirmed that it outperformed the alternative in the draft Standard by  
 “up to about 18%.” 11/16 Tr. 205-10; Exs. 674 at 1, 2209, 2274, 2227; PFF 473-79.
- **PAFF Patent Family:** 7,769,087, 7,660,353, and 7,839,931 (Exs. 280-82) are directed to  
 improving a technique called “PAFF” – coding on a picture-by-picture basis. They are  
 technically valuable because they provide substantial coding gain by applying PAFF to  
 “bi-predicted” pictures (*i.e.*, pictures having 2 motion vectors), through flexibility not  
 found in prior PAFF methods. 11/16 Tr. 210-212; 11/19 Tr. 32; Ex. 654 at 5; PFF 486-90.

- 1       • **Scan Patent Family:** 7,162,094 and 6,987,888 (Exs. 265-66) are technically valuable  
2 because they relate to 4x4 and 8x8 scans, which were adopted into the Standard after the  
3 JVT confirmed they outperformed alternatives by “up to about 7%.” 11/16 Tr. 213-15;  
4 11/19 Tr. 33; Exs. 675 at 1, 2281 at 4-5, 710; PFF 496-500.

5       The Krause and Wu Families contributed to the 50% coding efficiency gain reported for  
6 H.264 progressive-scan video. 11/16 Tr. 192:25-193:16; Ex. 424 at 574. They are essential to the  
7 H.264 Standard at every level of the Baseline, Main, and High profiles. 11/19 Tr. 36-37. Every  
8 encoder and decoder that processes H.264 video uses these patents. 11/19 Tr. 28-29. The Eifrig,  
9 MBAFF, PAFF and '094 (Scan) patents are essential at the Main and High profiles, levels 2.1 to  
10 4.1; and the '888 (Scan) patent is essential at the High profile, levels 2.1 to 4.1. These  
11 profiles/levels are important because they are commonly used for standard definition and high  
12 definition video. 11/19 Tr. 31-32, 36-37. PFF 437, 440, 448-52, 455-59, 462, 471, 484, 494.

13       Microsoft discounts the value of Motorola’s patents by asserting that “comparable”  
14 technologies were available. Many of these technologies, however, were considered during the  
15 development of the Standard and did not provide the efficiency gains that the JVT experts sought  
16 to achieve. For example, Microsoft points to scans submitted by Sony as alleged alternatives to  
17 Motorola’s Scan Family. But the JVT determined that Sony “[n]eed[ed] to demonstrate larger  
18 gain for acceptance.” Ex. 2216 at 28; 11/16 Tr. 215-16. Ultimately, Sony itself, and others,  
19 actually recommended the adoption of Motorola’s scans. Exs. 710, 2281 at 1; 11/16 Tr. 213-16.  
20 Similarly, the alleged alternative to Motorola’s MBAFF and PAFF Families – applying AFF to  
21 single macroblocks – was characterized as “need[ing] more work” and was abandoned. Ex. 3382  
22 at 7; 11/16 Tr. 203-07. Likewise, for the Eifrig Family, the JVT adopted Motorola’s solution as  
23 the default for calculating predictor motion vectors, because other choices did not give as good  
24 performance. 11/16 Tr. 200-02. Finally, for the Krause and Wu Families, Microsoft has not  
25 shown that any alleged alternative was considered, or how it could have been implemented in the  
26 Standard. And, even if they had been considered, each of the purported alternatives would have

1 performed worse than do Krause and Wu. 11/19 Tr. 44:15-46:5; PFF 506-33.<sup>17</sup>

2 **4. Motorola's H.264 SEPs Are Important to Microsoft's Products**

3 ***Microsoft's H.264-Compliant Products Use Motorola's H.264 SEPs.*** Microsoft sells and  
 4 has sold numerous products that are compliant with the H.264 Standard, including the Xbox  
 5 products, Windows 7, Window 8, Windows Vista, Windows Embedded, Zune for Windows  
 6 Expression, Windows Phone, and the new Surface tablet. Each of these products supports profiles  
 7 and levels covered by Motorola's H.264 patents. 11/19 Tr. 33-38; 11/13 Tr. 40:5-41:8, 42-43;  
 8 Exs. █████ 937 at 2, 2042 at 3, 1489, 640 at 2-3, 936 at 2-3, 641 at 6, 2176 at 8, 15, and 2174 at 2;  
 9 PFF 534-557. As explained above, Motorola's patents span the Baseline, Main and High profiles,  
 10 and in particular the profiles and levels commonly used for SD and HD video. Because a  
 11 compliant decoder operating at these profiles/levels must implement all tools for that profile and  
 12 level, Microsoft's products use the technologies claimed in Motorola's H.264 patents. 11/19 Tr. at  
 13 25:21-23, 33-38; PFF 433-442, 534-557.<sup>18</sup> Indeed, a German Court found that the Xbox 360,  
 14 Windows 7, Internet Explorer 9 and Windows Media Player 12 infringe certain claims of  
 15 Motorola's Krause (EP 0538667) and Wu (EP 0615384) patents; and the ALJ in ITC Inv. No.  
 16 337-TA-752 determined that the Xbox 360 infringes certain claims of Motorola's '596 (MBAFF)  
 17 and '094 (Scan) patents. PFF 540-41, 545.

18 ***Microsoft's Products Play Progressive and Interlaced H.264 Video.*** Microsoft's H.264-  
 19

20 <sup>17</sup> Microsoft's assertions that Motorola's patents are invalid over prior art are flawed, because it has not shown  
 21 that any of the alleged references discloses each and every element of the claims of Motorola's patents. PFF 636-59.  
 22 Microsoft's assertion that the Krause and Wu patents do not cover software decoders is equally flawed, because one of  
 ordinary skill reading the specifications (including the references to algorithms) would understand that the "decoder  
 apparatus" could be implemented in hardware or software. 11/19 Tr. 41:20-42:2; PFF 633-34.

23 <sup>18</sup> Microsoft asserts that Motorola's Eifrig, MBAFF, PAFF and Scan patents are limited to "interlaced" video.  
 24 However, none of Motorola's patents has claim limitations to "interlaced." And, as Microsoft's Dr. Sullivan  
 25 explained, "whether the video is interlaced or progressive is outside the scope of the standard." 11/14 Tr. 27:11-22;  
 26 Ex. 424 at 6 ("The coding representation in H.264/AVC is primarily agnostic with respect to this video characteristic,  
 i.e., the underlying interlaced or progressive timing of the original captured pictures."). Microsoft ignores that the  
 Eifrig, MBAFF, PAFF and Scan patents are directed to frame and field coding, and the Main and High profiles of the  
 H.264 Standard cover frame and field coding. *Id.* These Motorola patents are optimized for interlaced video, but can  
 also be used advantageously on progressive video. 11/19 Tr. 63:12-64:21, 43:4-44:13.

1 compliant products use Motorola's H.264 SEPs to play H.264 video.<sup>19</sup> For example, the Xbox  
 2 H.264 decoder plays progressive and interlaced H.264 video from a variety of sources: the Xbox's  
 3 Internet Explorer browser plays H.264 content from the Internet; the Xbox as an extender to  
 4 Windows Media Center plays recorded TV/video; the Xbox plays H.264 video from AT&T U-  
 5 verse; and the Xbox's USB ports are used to play H.264 video. 11/15 Tr. 40-42; 11/14 Tr.  
 6 157:20-160:8; Exs. 2738, 2161 at 2-3. Dr. Drabik confirmed through testing that the Xbox H.264  
 7 decoder decodes progressive and interlaced H.264 video in these ways. 11/19 Tr. 40:6-41:19. Dr.  
 8 Sukumar confirmed that surveyed Xbox users use their consoles to watch video, including 30.3%  
 9 who watch interlaced video. 11/19 Tr. 186-87; Exs. 2399, 3034 at Ex. A2 at 15.

10 Originally, Microsoft's General Manager of Xbox, Leonardo Del Castillo, testified that  
 11 Xbox's Internet Explorer did not support interlaced H.264 video. 11/15 Tr. 22:23-23:4. But  
 12 Microsoft recanted Mr. Del Castillo's statement in a letter to the Court:

13 After Dr. Drabik's testimony to the contrary, we went back to Mr. Del Castillo,  
 14 and he checked with internal Microsoft resources and tried the search Dr. Drabik  
 15 identified. *Mr. Del Castillo determined that he had been misinformed. Xbox's  
 Internet Explorer browser will play interlaced-coded H.264 video from the  
 Internet if it encounters such content. Microsoft wanted to inform the Court and  
 correct the record.*" Ex. 3448.

16 Similarly, Microsoft's expert, Prof. Orchard, asserted that "no interlace is supported by Xbox  
 17 Live." 11/14 Tr. 145:7-10. But, Microsoft's Del Castillo contradicted his own expert, admitting  
 18 that for Xbox Live "there may be interlaced content." 11/15 Tr. 32:3-32:15; PFF 559-70.

19 The Windows H.264 decoder plays progressive and interlaced H.264 content from a  
 20 variety of sources, including the Internet, TV and camcorders. Exs. [REDACTED], 2738; 1408 at  
 21 409, 412; 11/14 Tr. 153:2-154:2, 159:15-23. Microsoft's V.P. for Windows, Jon DeVaan, testified  
 22 that Windows Media Player and Internet Explorer use the Windows H.264 decoder to decode  
 23

24 <sup>19</sup> The smallest saleable unit for the H.264 functionality in Microsoft's products is the Xbox and Windows 7.  
 Microsoft does not sell the Xbox H.264 decoder or the Windows 7 H.264 codec separately. [REDACTED]

25 [REDACTED] Likewise, the Windows  
 26 H.264 codec functions are carried out in the CPU and memory of the PC and may also use a hardware accelerator.  
 11/13 Tr. 35:6-14; Ex. 591 at 5.

1 H.264 video. 11/13 Tr. 43:21-44:8.<sup>20</sup> Microsoft's "Windows 7 Inside Out" states that Windows  
 2 Media Player 12 "now directly supports the most common high-definition formats, especially  
 3 those that use the H.264 video compression codec." Ex. 1408 at 408-09; 11/13 Tr. 44:21-45:19.  
 4 Microsoft admits that Windows Media Center can be used to "[w]atch, pause, and record HDTV,"  
 5 and that "when you use Windows Media Center to . . . watch a video, Windows Media Player is  
 6 actually doing the work in the background." Exs. 2738, 1408 at 413.<sup>21</sup> Major network operators  
 7 broadcast HDTV in H.264. Exs. 2739 at 3-5, 2342; 11/13 Tr. 51:17-25. Dr. Drabik verified that  
 8 the Windows H.264 decoder plays progressive and interlaced H.264 video. For example, Dr.  
 9 Drabik downloaded a Katy Perry BBC video from the Internet, confirmed that it was H.264  
 10 interlaced (MBAFF), and played it with Windows 7. 11/19 Tr. 38:10-40:5; Ex. 2183; PFF 571-80.

11 ***Microsoft Added H.264 Support in Response to Consumer Demand.*** Mr. Del Castillo  
 12 admitted that Microsoft markets the Xbox as the "all-in-one entertainment hub," and that "the  
 13 living room is very important" to the Xbox, where "there's a high volume of consumption of  
 14 digital goods and services." 11/15 Tr. 54:23-56:1; Exs. 2265 at 2-3, 2161. Before the Xbox  
 15 supported H.264, it was criticized as having "crippled" video playback. Ex. 2572 at 3. [REDACTED]

16 [REDACTED]  
 17 [REDACTED] 11/15 Tr. 34.<sup>22</sup> When  
 18 Microsoft added H.264 support, it was applauded as putting Microsoft "at the head of the pack."  
 19 Ex. 2724. H.264 support, including for interlaced, continues to be important to Microsoft. [REDACTED]

20 [REDACTED]  
 21 [REDACTED] 11/14 Tr. 162:5-8. PFF 585-601.

22 \_\_\_\_\_  
 23 <sup>20</sup> Microsoft discourages consumers from using third party codecs, because they "can cause the player to crash,  
 freeze or suffer reduced performance." Ex. 1408 at 410; 11/13 Tr. 46-48; PFF 581.

24 <sup>21</sup> Prof. Orchard failed to consider several functions in Windows Media Center. 11/14 Tr. 156-7; PFF 584.

25 <sup>22</sup> This HD DVD player provides a powerful indication of the value of H.264 in the Xbox. The Xbox 360 HD  
 DVD player's function is to play high definition video, including H.264. Ex. [REDACTED]. The Xbox 360 HD DVD  
 26 player had a retail price of \$199, reflecting the market value Microsoft placed on being able to play high-definition  
 H.264 video on the Xbox 360. Exs. [REDACTED], 3347 at 4 ("The Xbox HD DVD player is the best high-definition  
 movie experience and value on the market."); 11/15 Tr. 35:15-22, 37:1-15, 38:10-23.

1 Mr. DeVaan testified that Microsoft included support for H.264 in Windows 7 because  
2 third party codecs were “not delivering the quality, safety, and seamlessness that the end-user  
3 really expected” and Microsoft “wanted to relieve the end-user from having to go to the hassle and  
4 risk of installing H.264 from a third party.” 11/13 Tr. 47:23-49:3. “One of the key pillars of the  
5 Windows 7 vision” was “enabling Microsoft to provide customers an **in box solution** to view both  
6 the playback and broadcast video content as well as live broadcast video content.” Ex. 2739 at 4-  
7 5; 11/13 Tr. 49:9-51:9. A “key success metric” for this pillar was “[p]layback of new file types  
8 (...H.264).” *Id.* Another “pillar” for Windows is to be “Optimized for Entertainment.” Ex. 2373  
9 at 18. Microsoft’s Windows 7 specification states that “[f]or Windows 7 to be a success in media  
10 playback, it is essential that a strategic subset of popular non-Windows Media codecs are provided  
11 in the box.” *Id.* Mr. DeVaan testified that this subset includes H.264. DeVaan Dep. Tr. 59:7-16.  
12 Without including H.264 capability, Microsoft would have difficulty selling its products, because  
13 these devices would be unable to play a significant and growing proportion of H.264 video  
14 content. Microsoft has clearly recognized consumer demand for H.264 content by incorporating  
15 H.264 capabilities into its products. 11/20 Tr. 14-17, 20-21; Exs. 2572 at 3, 2515; PFF 602-619.

16 ***Interlaced Video Is Ubiquitous and Important to Microsoft’s Products.*** Microsoft’s  
17 assertions that interlaced video “is very rare” and “not very important” in H.264 are contradicted  
18 by the record. In 2001-2002, third parties stated that “it is important to make sure that H.26L  
19 [draft of H.264] has adequate syntax to support the interlace needs for video.” Exs. 782 at 1, 653  
20 at 1. And, as recently as July 2012, seven companies (NBC, HBO, CBS, CBC, MMI, Comcast  
21 and Cable Labs) submitted to MPEG that “interlaced scan formats remain ubiquitous” and “in  
22 order to achieve commercial success, new compression standards should continue to efficiently  
23 support interlaced formats for the foreseeable future.” Ex. 2342; 11/20 Tr. 20:6-21:5. Microsoft’s  
24 own documents admit the importance of interlaced. The Windows support website states that  
25 “interlaced” is a feature “of increasing importance, as support for Windows Media-based content  
26 spreads to DVD players, set-top boxes, and other home electronics.” Ex. 2768. Microsoft also

1 acknowledges that “interlaced video content is widely used in television broadcasting.” Ex. 2249.

2 **5. The Technical Value of Microsoft’s H.264 SEPs**

3 Microsoft’s claim of 40 essential patents is exaggerated because at least 17 are not  
4 essential: 15 are directed to optional features in the Annexes of the Standard, and at least 2 have  
5 claim limitations that are not in the Standard. 11/19 Tr. 46-47. At least 7 more had alternatives  
6 available at the time of the adoption of the Standard that offered comparable performance. For  
7 example, the JVT found for the FastVDO transform that there “was not significant difference” in  
8 complexity and “no difference demonstrated” in quality. Ex. 2216 at 21. At least 5 more patents  
9 are directed to minor aspects. 11/19 Tr. 47:9-11. And, at least 2 more relate only to the Extended  
10 profile, which is little used. 11/19 Tr. 47:6-13. Thus, Motorola’s H.264 portfolio is as valuable,  
11 or slightly more valuable, as a technical matter, than Microsoft’s portfolio. 11/19 Tr. 25:24-26:2.

12 [REDACTED]

13 [REDACTED] PFF 660-686.

14 **C. Georgia-Pacific Factor 15 -- The Hypothetical Negotiation<sup>23</sup>**

15 Mr. Donohoe relied upon the evidence adduced at trial and the opinions of the experts on  
16 his “negotiating team” to simulate a bilateral negotiation and opine on a range of RAND rates for  
17 Motorola’s patents. Notably, Microsoft’s experts, who collectively lack any meaningful  
18 negotiating experience of their own, failed to present their own affirmative evidence regarding the  
19 outcome of a hypothetical bilateral negotiation and presented no opinion as to the nature of the  
20 rate that would result from the consideration of relevant *Georgia-Pacific* factors.

21 ***Net Selling Price Is The Most Appropriate Royalty Base.*** Motorola’s standard offer and  
22 nearly all of its SEP licenses with a running royalty have used the net selling price of licensed end

23  
24 <sup>23</sup> *Georgia Pacific* Factor 14 relates to reliance on qualified expert testimony. A typical licensing negotiation  
25 team commonly includes technical, financial, marketing and legal team members. In this case, Motorola’s experts –  
26 Drs. Schmalensee, Drabik, and Williams and Mr. Dansky – are qualified experts who have examined and evaluated  
evidence in the same way. Their testimony informs the analysis of Factors 6, 8, 9, and 13, as well as the hypothetical  
bilateral negotiation that follows. Motorola submits that, in light of the RAND commitment and based on the  
evidence introduced during trial, *Georgia-Pacific* Factors 2-5, 7, and 10-12 are neutral or have no effect.

1 products as the royalty base. 11/20 Tr. 36:16-37:8; 11/19 Tr. 152:1-9. Motorola has agreed to pay  
2 others using net selling price as a royalty base. *Id.* Using net selling price is not unique to  
3 Motorola – as Mr. Dailey testified, it is common industry practice. 11/20 Tr. 37:20-38:13. The  
4 Federal Circuit and licensing treatises confirm this. 11/16 Tr. 173:8-175:12; 11/19 Tr. at 152:10-  
5 14; 154:20-8; Ex. 2922 at 4; Dkt. 409 at 18-19. And the current IEEE LOA form expressly  
6 permits royalties to be based on a product price. Ex. 3394; 11/19 Tr. 174:22-175:12.

7 Motorola’s practice – endorsed by SSOs and by industry practice – of using net selling  
8 price necessarily informs what the royalty base would be in the hypothetical negotiation, because  
9 this is what has been done in prior real-world negotiations involving Motorola’s patents. *See, e.g.,*  
10 *Multimedia Patent Trust v. Apple*, 10-CV-2618, 2012 WL 5873711, at \*6 (S.D. Cal. Nov. 20,  
11 2012) (“[T]he use of the accused products’ entire market value as a royalty base can be  
12 economically justified where sophisticated parties have entered into agreements that base the value  
13 of the patented invention as a percentage of the commercial products’ sale price.”); *see also*  
14 *Boeing Co. v. United States*, 86 Fed. Cl. 303, 319-20 (2009); *Mondis Tech., Ltd. v. LG Elecs., Inc.*,  
15 Nos. 2:07–CV–565–TJW–CE, 2011 WL 2417367, at \*3 (E.D. Tex. June 14, 2011).

16 Microsoft’s experts argue that net selling price is inappropriate as a royalty base because,  
17 for example, the royalty for 802.11 would exceed the price of the chip that contributes much of the  
18 802.11 functionality in the Xbox. But the Federal Circuit has recognized that “the economic value  
19 of a patent may be greater than the value of the sales of the patented part alone.” *King Instr. Corp.*  
20 *v. Perego*, 65 F.3d 941, 950 n.4 (Fed. Cir. 1995). That is precisely the case here – the value of  
21 Wi-Fi to the Xbox cannot be measured by the price of the Marvell chip. Rather, its economic  
22 value is based on the value of the functionality it provides to the end user. As explained above,  
23 Wi-Fi functionality is a critical feature in the Xbox that imparts significant value to the end user.

24 Microsoft’s experts next urge that a per-unit royalty must be used because net selling price  
25 may capture the value of non-patented components. *See, e.g.*, 11/16 Tr. 82:3-11. But the Court  
26 has previously stated that it “does not agree with Microsoft that it is always facially unreasonable

1 for a proposed royalty rate to result in a larger royalty payment for products that have higher end  
 2 prices.” Dkt. 188 at 16 (citing Dkt. 183); *see also Lucent v. Gateway*, 580 F.3d 1301, 1339 (Fed.  
 3 Cir. 2009) (stating that even though a patented invention is part of a multicomponent product,  
 4 awarding a reasonable royalty based on the sale price can be “economically justified”). As Dr.  
 5 Schmalensee explained, such a royalty structure may be reasonable here. 11/19 Tr. 155:14-156:3.

6 This is best demonstrated by an example. Assuming a 2.25% royalty, Microsoft would  
 7 owe a royalty of \$4.50 on a \$200 Xbox with a 4 GB hard drive and \$9.00 on a \$400 Xbox with a  
 8 256 GB hard drive even though both have the same Wi-Fi functionality. But the user of the \$200  
 9 Xbox will quickly fill his 4 GB hard drive. In contrast, the user of the Xbox with the 256 GB hard  
 10 drive has more storage space and can more fully utilize the Xbox, for example, by wirelessly  
 11 downloading additional games and videos. Thus, the 802.11 functionality provides more value to  
 12 the end user of the \$400 Xbox and justifies a higher royalty.<sup>24</sup>

13 The use of net selling price of the Xbox is an appropriate royalty when considering that  
 14 Microsoft realizes significant additional revenue streams through the use of 802.11 and H.264 by  
 15 the Xbox that is not subject to a royalty payment. [REDACTED]

16 [REDACTED]  
 17 [REDACTED] Many users download and play games and access Xbox LIVE  
 18 through a Wi-Fi connection. Thus, the Xbox’s Wi-Fi capability unlocks this additional content for  
 19 users (and thus additional revenue for Microsoft that is not subject to a royalty).

20 ***The Entire Market Value Rule (“EMVR”) Is Not Relevant to RAND Negotiations.***

21 Microsoft argues that the EMVR precludes the use of net selling price as a licensing royalty base.  
 22 But the EMVR is a rule used in determining patent infringement damages. While Microsoft has  
 23 repeatedly advocated that the EMVR should be extended to licensing, Microsoft has presented no

24 \_\_\_\_\_  
 25 <sup>24</sup> Simple math demonstrates that using a per-unit royalty in situations in which products vary by price has its  
 26 own problems. As the Court noted, a licensee would pay the same royalty (e.g., \$0.20) for the same technology  
 regardless of whether the product is being sold for \$125 or \$1. 11/13 Tr. 198:14-199:8. For the \$125 product, the  
 effective royalty rate is 0.16%. For the \$1 product, the effective royalty rate is 20%.

1 legal authority to support this extension. And Microsoft presented no evidence that parties in a  
2 real-world licensing negotiation ever use the EMVR. There are compelling reasons for this.  
3 Because parties to SEP licenses typically seek broad coverage and protection, SEP licenses almost  
4 always cover future unknown products that may use the standardized technology in new and  
5 unanticipated ways and, thus, cannot be considered adequately in an EMVR analysis.

6 This case is a real-world example demonstrating why: In October 2010, the Xbox was the  
7 only Microsoft Wi-Fi product with significant sales. But recently, Microsoft introduced its  
8 Surface Tablet, which relies on 802.11 as its sole means to connect to the Internet. And  
9 apparently, Microsoft is now working on its own smartphone, which will undoubtedly have Wi-Fi.  
10 A RAND rate set using the EMVR in the context of the Xbox alone would not be appropriate for  
11 the Surface and other future products. Indeed, as Dr. Lynde admitted, a royalty rate can be RAND  
12 even if not calculated pursuant to the EMVR. 11/16 Tr. 169: 6-8, 173:21-174:5.<sup>25</sup>

13 Even if the Court believes the EMVR might have some applicability in the licensing  
14 context, using net selling price as the royalty base is appropriate in this case based on Motorola's  
15 prior licensing practice. Indeed, this Court has found that there is no "*per se* rule that a royalty  
16 rate may never be applied to the entire product price without satisfaction of the entire market value  
17 rule" and "[c]onsistent with the statements in *Gateway*, district courts have permitted license  
18 agreements based on the entire product value as evidence of a reasonable royalty rate despite a  
19 lack of showing that the patented feature formed the 'basis for customer demand.'" Dkt. 490 at  
20 17. Here, Motorola's established licensing practice of using net selling price dictates that the  
21 EMVR should not be applied in determining RAND in this case. *See Riles v. Shell Explo. & Prod.*  
22 *Co.*, 298 F.3d 1302, 1313 (Fed. Cir. 2002) (finding expert improperly "ignored [patentee's]  
23 established licensing practice" when considering royalty rate); *Unisplay, S.A. v. Am. Elec. Sign*

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24  
25 <sup>25</sup> There are other reasons why the EMVR is inapplicable in private contracts. The EMVR is a constraint on  
26 U.S. patent infringement damages. Motorola's 802.11 and H.264 patent portfolios include patents from numerous  
foreign countries. Exs. 1, 2. Blindly applying the EMVR to *non-U.S.* patents in setting a worldwide royalty rate  
would have the effect of imposing a U.S. litigation constraint to arms'-length licensing around the world.

1 *Co., Inc.*, 69 F.3d 512, 519 (Fed. Cir. 1995); *Studiengesellschaft Kohle, m.b.H. v. Dart Indus.*,  
 2 *Inc.*, 862 F.2d 1564, 1568 (Fed. Cir. 1988) (“[T]he patentee’s usual licensing approach should be  
 3 considered in assessing a reasonable royalty.”); *see also* page 27, *supra*.

4 Moreover, Motorola submits that the EMVR has been satisfied at least with respect to the  
 5 Xbox’s and Surface’s use of 802.11. As explained in detail above, Wi-Fi in the Xbox is expected  
 6 by customers and is key to its competitive positioning. Similarly, Wi-Fi is vital to the Surface  
 7 because it has no other way of connecting to the Internet. *See, e.g., Dataquill Ltd v. HTC Corp.*,  
 8 2011 U.S. Dist. LEXIS 138565, at \*78-80 (S.D. Cal. 2011) (stating that a reasonable jury could  
 9 find the EMVR satisfied because the patented technology was “vital” to the defendant’s  
 10 “competitive position in the marketplace”); *see also Marine Polymer Tech., Inc. v. Hemcon, Inc.*,  
 11 672 F.3d 1350, 1360 (Fed. Cir. 2012) (finding EMVR satisfied because of the importance of the  
 12 patented technology to the infringing product and its significance on market demand).

13 ***The RAND Rate and Range for a License Between the Parties.*** With respect to  
 14 Motorola’s 802.11 SEPs, consistent with industry practice, SSO policy, Motorola’s own licenses,  
 15 and Motorola’s offers in this case, Mr. Donohoe concluded that the parties would have negotiated  
 16 a cross-license and, as part of that, would calculate a balancing payment based on the relative  
 17 strength of one another’s portfolio as compared to their respective exposures. 11/20 Tr. 133:23-  
 18 134:14, 136:15-137:4, 142:5-22. [REDACTED],<sup>26</sup>  
 19 the technical testimony of Dr. Williams and the valuation analysis conducted by Mr. Dansky, Mr.  
 20 Donohoe concluded that Motorola’s portfolio would be valued at 2.25% of the end product price.  
 21 Microsoft’s 802.11 portfolio, which was significantly smaller and is directed to ancillary features  
 22 in the standard (and Motorola’s products), would be conservatively valued at between 0.25% and  
 23 0.5%. Using these values and the relative exposures of one another’s 802.11-compliant products,  
 24

25 <sup>26</sup> Courts have endorsed determining a royalty rate based on one or two licenses. *ResQNet.com, Inc. v. Lansa,*  
 26 *Inc.*, 594 F.3d 860, 870, 872-73 (Fed. Cir. 2010) (remanding to determine a royalty based on two licenses); *Procter & Gamble Co. v. Paragon Trade Brands, Inc.*, 989 F. Supp. 547, 614 (D. Del. 1997) (“The Court also finds the Confab license to be probative of the rate to which P & G and Paragon would have agreed at the time of infringement.”).

1 Mr. Donohoe calculated a balancing payment favoring Motorola and concluded that the RAND  
2 rate for Motorola's patents would be between "1.15 percent to 1.73 percent, which would be the  
3 RAND royalty amount paid based upon the sales of the Xbox 360." 11/20 Tr. 144:18-19.

4 With respect to Motorola's H.264 SEPs, Mr. Donohoe similarly concluded that the parties  
5 would negotiate bilaterally for a cross-license to one another's H.264 SEPs. [REDACTED]

6 [REDACTED], the testimony of Dr. Drabik and the valuation  
7 analysis conducted by Mr. Dansky, Mr. Donohoe concluded that Motorola's portfolio would be  
8 valued at 2.25% of Windows 7. Based on the relative strength of Microsoft's H.264 portfolio, Mr.  
9 Donohoe concluded that Microsoft would also be credited with 2.25% for its own portfolio. After  
10 computing a balancing payment, he concluded that Motorola would be willing to cap annual  
11 Microsoft payments at between \$100 and \$125 million, [REDACTED]

12 [REDACTED] After converting this to a running royalty, the RAND  
13 rate for Motorola's H.264 essential patents would be about \$0.50 to \$0.63 per-unit. 11/20 Tr.  
14 146:9-10. If left as a per unit percentage, this would equate to "a rate of 0.68 percent to 0.84  
15 percent as the royalty rate on the ... Windows 7 product." *Id.* 146:11-13.

16 **V. CONCLUSION**

17 Messrs. Dailey's and Donohoe's testimony establishes that, had Microsoft responded to  
18 Motorola's October 2010 initial offer letters by negotiating in good faith, the parties would have  
19 agreed to the foregoing percentage royalty rates and annual caps, which are within the RAND  
20 range for these portfolios. Motorola's standard offer and licensing history confirm that the RAND  
21 range for Motorola's 802.11 and H.264 portfolios – before adjustments for a particular licensing  
22 negotiation as here – extends up to 2.25% of the end product price. This conclusion is dictated by  
23 Motorola's history of making this offer for these portfolios [REDACTED]  
24 [REDACTED] and its conclusion of licenses – [REDACTED] – in which Motorola  
25 adjusted its standard rate in light of the licensee's portfolio in the ultimate cross-license.

26 \* \* \*

## VI. MOTOROLA'S OCTOBER LETTERS WERE SENT IN GOOD FAITH

At the conclusion of trial, the Court requested that the parties address the “legal basis for a high and a low range in a good faith contract negotiation.” 11/20 Tr. 169:21-23. Specifically, the Court was interested in “what constitutes a good-faith range” and “is the high in a good faith range a multiple of three times the final number? Or is it not so unreasonably . . . unrelated to reality that it shocks the conscience.” *Id.* 171:8-11. Motorola has been unable to identify cases in this Circuit (or elsewhere) that address these questions directly. However, Motorola has identified authority that informs whether an offer is reasonable.

Washington law recognizes in nearly every contract an implied duty of good faith and fair dealing. *Edmonson v. Popchoi*, 155 Wash. App. 376, 386 (Ct. App. Div. 1 2010), *aff'd*, 172 Wash. 2d 272 (2011); *Badgett v. Security State Bank*, 116 Wash.2d 563, 569 (1991). The duty of good faith generally requires contractual parties to cooperate in view of their agreed common purpose and each other's justified expectations. *See Edmonson v. Popchoi*, 155 Wash. App. at 783–86 (noting duty requires “mutual cooperation so that each party may enjoy the full benefit of performance”). There is no “free-floating duty of good faith unattached to the underlying legal document.” *Badgett*, 166 Wash.2d at 570. Thus, Washington courts therefore look to the terms of the contract to determine whether the duty of good faith has been breached.

The reasonableness of an offer cannot be determined based on a bright-line test. *See, e.g., Cellco Partnership v. FCC*, No. 11-1135, 2012 U.S. App. LEXIS 24849, at \*34-35 (D.C. Cir. Dec. 4, 2012) (stating that the 16 factors provided by the “data roaming rule” to evaluate whether a rate is commercially reasonable provides “considerable flexibility” and “largely leaves the terms . . . up for negotiation.”).<sup>27</sup> Rather than imposing specific numerical constraints when evaluating the

<sup>27</sup> The reasonableness of an offer often arises in the context of the UCC or by operation of statute. *See, e.g., Qwest Corp. v. Minn. Pub. Utilities Comm'n*, 684 F.3d 721, 728 (8th Cir. 2012) (finding that whether a price under 47 U.S.C. §271 is “just, reasonable and non unreasonably discriminatory” is a “fact-specific inquiry” that can be shown by demonstrating that the offered rate is either at or below the rate offered to similarly-situated companies or in arms-length agreements with such companies); *Harris v. Equilon Enters., LLC*, 107 F. Supp. 2d 921, 930-931 (S.D. Ohio 2000) (“‘It is settled law that a bona fide offer under the PMPA [Petroleum Marketing Practices Act] is measured by an objective market standard.’ An objectively reasonable offer is one that approaches fair market value.”); *Allapattah*

1 reasonably of an offer, courts have recognized that offers must be viewed objectively in the  
2 context of a negotiation. In practice, parties typically open with a “high” offer because there is an  
3 expectation that parties must leave room for bargaining and compromise during negotiations.

4 Even if the court accepted CP’s position that EEOC’s initial proposal was  
5 somewhat excessive, the court would not find in CP’s favor. EEOC needs never  
6 present an initial offer that is acceptable to an employer. *A well-recognized  
7 negotiations tactic is to ‘open high’ and leave room for integrative solutions.* [n18  
8 ‘Every litigator knows that few cases can be settled with a single offer, because  
9 even if the first offer is reasonable the offeree seldom believes that the opening  
10 offer is the final offer. *In fact, litigators are expressly advised to start with an  
11 inflated demand or a stingy offer in order to leave room for further bargaining.’]*  
12 During the bargaining process, positions give way to interests; assertions of power  
13 and rights dissolve into searches for common ground.

9 *Dinkins v. Charoen Pokphand USA, Inc.*, 133 F. Supp. 2d 1237, 1244 (M.D. Ala. 2001); *see also*  
10 *J. Marymount, Inc. v. Bayer Healthcare, LLC*, No. 09-03110, 2009 U.S. Dist. LEXIS 118882, at  
11 \*9 (N.D. Cal. Nov. 30, 2009) (“[T]ypically initial offers are used ‘to anchor the negotiations in [a  
12 party’s] favor by starting the process with a high number.’”).

13 The inapplicability of a bright-line rule is even more apparent in the context of RAND  
14 licensing. Unlike straight-forward commercial contracts, such as purchase agreements, which may  
15 involve only the payment of money, RAND licenses are often complex, involving numerous  
16 material terms, such as scope, field of use, grant backs, defensive suspension, patent transfer,  
17 releases, and covenants. Moreover, at the time an initial offer is made, the licensor is typically  
18 unaware of the particular business needs, desires and considerations of the licensee. Only through  
19 negotiation can this information be known. Accordingly, licensors typically present an opening  
20 offer that allows the licensor sufficient room for compromise and bargaining.

21 Thus, whether Motorola’s offers were reasonable should be judged in the context of typical  
22 negotiating practices, where the reasonableness of an offer does not turn on any multiplier. In  
23 particular, Motorola did not deviate from its standard licensing practice with Microsoft – it treated  
24 Microsoft like any other potential licensee and offered its standard rate, just as it has done dozens

25 *Serv. v. Exxon Mobil*, 61 F. Supp. 2d 1308, 1323 (S.D. Fla. 1999) (stating that under the UCC, a departure from  
26 customary usage and commercial practice “strongly indicate” that a price is not commercially reasonable).

1 of times before. *See, e.g., Transitron Elec. Corp. v. Hughes Aircraft*, 487 F. Supp. 885, 903 (D.  
2 Mass. 1980) (noting that a 1% royalty rate was not excessive, where it was a standard offer made  
3 to all licensees and imposed no unreasonable restrictions). Moreover, Motorola's executed  
4 licenses are consistent with this standard rate (and, in fact, these very rates were agreed to by  
5 VTech in its license). And as the Court has recognized, parties do not have information when an  
6 initial offer is made to know what is and is not RAND. Dkt. No. 335 at 23-25. That can only be  
7 determined through negotiations, which should have occurred here. For these reasons, Motorola's  
8 offer was not unreasonable or a violation of its obligation of good faith and fair dealing.

9 DATED this 14th day of December, 2012.

10 **RESPECTFULLY SUBMITTED,**

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**CERTIFICATE OF SERVICE**

I hereby certify that on this day I electronically filed the foregoing with the Clerk of the Court using the CM/ECF system which will send notification of such filing to the following:

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DATED this 17th day of December, 2012.

*/s/ Marcia A. Ripley*

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