

1 SHEPPARD, MULLIN, RICHTER & HAMPTON LLP
 A Limited Liability Partnership
 2 Including Professional Corporations
 STEPHEN S. KORNICZKY, Cal. Bar No. 135532
 3 skorniczky@sheppardmullin.com
 MARTIN R. BADER, Cal. Bar No. 222865
 4 mbader@sheppardmullin.com
 ERICKA J. SCHULZ, Cal Bar No. 246667
 5 eschulz@sheppardmullin.com
 12275 El Camino Real, Suite 100
 6 San Diego, California 92130-2006
 Telephone: 858.720.8900
 7 Facsimile: 858.509.3691

8 MICHAEL W. SCARBOROUGH, Cal. Bar No. 203524
 mscarborough@sheppardmullin.com
 9 MONA SOLOUKI, Cal. Bar. No. 215145
 msolouki@sheppardmullin.com
 10 Four Embarcadero Center Seventeenth Floor
 San Francisco, California 94111
 11 Telephone: 415.774.2963
 Facsimile: 415.434.3947

12
13 Attorneys for Plaintiffs

14 UNITED STATES DISTRICT COURT
 15 FOR THE SOUTHERN DISTRICT OF CALIFORNIA
 16

17 U-BLOX AG, U-BLOX SAN DIEGO,
 18 INC., AND U-BLOX AMERICA,
 19 INC.,

20 Plaintiffs,

21 v.

22 KONINKLIJKE KPN N.V.

23
24 Defendants.
25
26
27
28

Case No. '21CV1220 BAS AGS

COMPLAINT FOR:

- (1) Breach Of Contract;**
- (2) Declaratory Judgment;**
- (3) Antitrust Monopolization In Violation Of Section 2 Of The Sherman Act;**
- (4) Declaratory Judgment of Unenforceability of U.S. Patent No. 5,930,250; and**
- (5) Declaratory Judgment of Unenforceability of U.S. Patent No. 9,014,667.**

1 Plaintiffs u-blox AG, u-blox San Diego, Inc., and u-blox America, Inc.
2 (collectively, “u-blox” or “Plaintiffs”), by and through the undersigned counsel, file
3 this Complaint against Koninklijke KPN N.V. (“KPN” or “Defendant”) as follows.

4 **INTRODUCTION**

5 1. u-blox, a leading fabless semiconductor provider of embedded
6 positioning and wireless communication products, brings this lawsuit against KPN
7 because of KPN’s refusal and failure to license its alleged standard essential patents
8 (“SEPs”) on fair, reasonable, and non-discriminatory (also known as “FRAND”)
9 terms and conditions, and to prevent and restrain KPN’s anticompetitive conduct
10 and other violations of the law.

11 2. KPN owns and/or has the right to grant non-exclusive licenses to a
12 number of patents it asserts essential to the second generation (“2G”), third
13 generation (“3G”), and/or fourth generation (“4G”) cellular technology standards
14 established by the European Telecommunications Standards Institute (“ETSI”), a
15 standard setting organization (“SSO”). Through its patenting and SEP declaration
16 strategy, KPN intentionally sought to accumulate and aggregate them into a
17 portfolio with a dominant position in the market for licensing them, and improperly
18 seek unreasonable royalty rates.

19 3. As explained herein, KPN is and has been a member of ETSI and, thus,
20 the SEPs related to 2G, 3G, and/or 4G that KPN has the right to license are subject
21 to ETSI’s Intellectual Property Rights (“IPRs”) Policy. The ETSI IPR Policy
22 requires its members to disclose any intellectual property rights (“IPR”) that entity
23 has in technology that is or may become essential to a device practicing a standard
24 under consideration, and requires the entity to agree to an irrevocable obligation to
25 be prepared to offer licenses on a FRAND basis.

26 4. KPN submitted a number of declarations to ETSI identifying numerous
27 patents as potentially essential to the 2G, 3G, and/or 4G cellular standards, and
28 agreeing to license its IPR on a FRAND basis (or “FRAND commitment”). ETSI

1 and its members relied on such FRAND commitments to include into and/or
2 continue to maintain KPN's technology as part of ETSI's published standards, thus
3 locking-in KPN's technology long into the future even if better or more suitable
4 technologies were invented over time. ETSI and its members relied on such
5 FRAND commitments to lock-in the technology into the standard.

6 5. For example, on April 27, 2015 and February 11, 2019, respectively,
7 KPN declared that U.S. Patent Nos. 5,930,250 ("the '250 Patent," attached hereto as
8 **Exhibit A**) and 9,014,667 ("the '667 Patent," attached hereto as **Exhibit B**), which
9 are owned by KPN, are essential to technical specifications relevant to 3G and/or 4G
10 standards.

11 6. The '250 Patent, entitled "Communication System for Interactive
12 Services," was filed on September 4, 1996 and issued on July 27, 1999. The '667
13 Patent, entitled "Telecommunications Network and Method for Time-Based
14 Network Access," was filed as a PCT on February 19, 2009, initiated prosecution in
15 the U.S. on August 27, 2010, and issued on April 21, 2015. As such, both patents
16 were filed and issued to KPN years prior to KPN's declaration to ETSI that either
17 patent was allegedly essential to technical specifications that are part of the 3G
18 and/or 4G standards.

19 7. Even though KPN disclosed certain patented technologies after ETSI
20 had already included those technologies into its standards, the ETSI IPR Policy
21 required ETSI to modify or abandon any already-published standards that included
22 technologies not available for FRAND licensing. Specifically, clause 8.2 of the
23 ETSI IPR Policy provides a procedure to address the "[n]on-availability of licenses
24 *after the publication of*" a standard, including efforts "to modify [the standard] so
25 that the IPR is no longer ESSENTIAL," and "non-recognition" of the standard in
26 question if no viable alternatives existed.

27 <https://www.etsi.org/images/files/IPR/etsi-ipr-policy.pdf>. By later affirmatively
28 committing to license its technology on FRAND terms, KPN displaced this process

1 and caused ETSI to forego replacing or abandoning any part of ETSI's published
2 standards that included KPN's late-disclosed patented technologies. As a direct
3 result of KPN's FRAND declarations, ETSI thus continued to maintain such
4 technology as part of ETSI standards.

5 8. Consistent with the intent of ETSI's IPR Policy, and relying on the
6 assurances of FRAND commitments by SEP holders, such as KPN, u-blox has
7 invested substantial resources in developing and marketing cellular modules that are
8 compatible with the 2G, 3G, and/or 4G standards worldwide, including in the
9 United States and California.

10 9. However, now that this lock-in has occurred and alternative
11 technologies have been excluded from the standards, it has become clear that KPN
12 never intended to license its alleged SEPs on FRAND terms and conditions.

13 10. u-blox is a ready and willing licensee to KPN's alleged SEPs, but
14 KPN's license related conduct plainly violates its FRAND commitments, including
15 but not limited to:

- 16 • Demanding royalty rates that are far in excess of the fair and
17 reasonable value of KPN's SEPs and instead leverage the value
of the standardization;
- 18 • Upon information and belief discriminating against u-blox and
19 violating ETSI guidelines by demanding u-blox pay higher
royalty rates than other implementers;
- 20 • Demanding u-blox pay royalties for alleged SEPs covering
21 portions of the standard not implemented by certain u-blox
products;
- 22 • Demanding u-blox pay royalties for alleged SEPs that KPN
23 failed to timely disclose prior to the standard being adopted; and
24 • Demanding royalty rates that do not account for the expiration of
25 KPN's alleged SEPs over the course of the license.

26 11. Upon information and belief, KPN was well aware of the fact that: (i)
27 u-blox entered into relationships with its customers in reliance on KPN's
28 commitment to offer a license to the alleged SEPs on FRAND terms, and (ii)

1 u-blox's customers and their downstream manufacturers relied on u-blox to obtain a
2 license from SEP holders such that they may design their products and incorporate
3 u-blox's technology into their products.

4 12. KPN expressly included the '250 Patent and the '667 Patent in its
5 demand to u-blox that u-blox license KPN's alleged SEPs on non-FRAND terms.

6 13. In response to KPN's unreasonable royalty rate demands, u-blox
7 provided KPN with a counter-offer, along with a detailed explanation of how that
8 counter-offer is FRAND, and reiterated that it was willing to negotiate a FRAND
9 license with KPN.

10 14. However, KPN refused to negotiate in good faith with u-blox for a
11 FRAND license. Among other things, KPN appears intent on pressuring u-blox into
12 a license that is not FRAND by interfering with u-blox's important customer
13 relationships.

14 15. In addition to seeking non-FRAND license terms from u-blox to KPN's
15 alleged SEP portfolio, KPN has also directly contacted u-blox customers to accuse
16 those customers of infringing and demand that those customers enter into separate
17 licenses to the same patents.

18 16. As a result of the foregoing, u-blox has no choice but to turn to the
19 Court to establish FRAND terms and conditions, including a royalty rate, for a
20 license to KPN's alleged SEPs, and to enjoin KPN from engaging in anticompetitive
21 conduct, including, but not limited to, demanding non-FRAND rates from
22 implementers, and seeking royalties for technology that was adopted into the
23 standards well before KPN properly disclosed its IPRs to ETSI and its members—
24 thereby rendering the alleged SEPs unenforceable.

25 THE PARTIES

26 **A. u-blox**

27 17. Plaintiff u-blox AG is a corporation organized and existing under the
28 laws of Switzerland, having its principal place of business in Zürcherstrasse 68,

1 8800 Thalwil, Switzerland.

2 18. Plaintiff u-blox San Diego, Inc. is a wholly-owned subsidiary of u-blox
3 AG. u-blox San Diego, Inc. is a corporation organized and existing under the laws
4 of Delaware, having its principal place of business at 12626 High Bluff Drive #200,
5 San Diego, California 92130.

6 19. Plaintiff u-blox America, Inc. is a wholly-owned subsidiary of u-blox
7 AG. u-blox America, Inc. is a corporation organized and existing under the laws of
8 Delaware, having its principal place of business at 1902 Campus Commons Drive
9 Suite 310, Reston, Virginia 20191.

10 20. u-blox delivers leading wireless technology to reliably locate and
11 connect people and devices. u-blox is a leading developer of global positioning
12 technology, including products and services based on Global Navigation Satellite
13 Systems (GNSS), including GPS and GALILEO, for the automotive, mobile
14 communications, and infrastructure markets. u-blox began offering wireless
15 products and services in 2009.

16 21. In 2011, u-blox acquired Fusion Wireless, a San Diego, California
17 based provider of CDMA wireless modules for consumer and machine-to-machine
18 (M2M) applications in North America. As u-blox's Chief Executive Officer
19 explained at the time, "[t]he acquisition of Fusion Wireless immediately gives
20 u-blox new, cutting-edge wireless module products plus access to the huge
21 embedded CDMA market in North America for both consumer and M2M
22 applications. It also expands our wireless module technology roadmap to cover all
23 popular standards used in the Americas based on a layout-consistent form factor.
24 This will allow our customers to easily adapt their products to match geographical
25 requirements as well as overcome network coverage limitations."

26 22. Fusion Wireless has been integrated into u-blox as u-blox San Diego,
27 Inc., and the combined company continues to develop and market wireless
28 communications modules worldwide—including in California and throughout the

1 United States. Today u-blox offers a wide range of high-quality, scalable cellular
2 modules perfectly suited for vehicle, industrial, and M2M applications, and mass-
3 market consumer products with demanding size, cost, and quality requirements.

4 23. u-blox's wireless communications modules are capable of
5 incorporating a wide variety of cellular technologies. Supported cellular
6 technologies provide global geographic coverage and include at least 2G, 3G, and/or
7 4G. Even within the 4G standard, u-blox offers a wide range of products practicing
8 different iterations and categories of the 4G standard designed for vastly different
9 tasks, including NB-IoT (LTE Cat NB1), LTE Cat M1, LTE Cat 1, LTE Cat 4, and
10 LTE Cat 6. These different cellular technologies offer different levels of
11 performance and cost benefits. For example, u-blox's LTE Cat 1, LTE Cat M1, and
12 NB-IoT modules are designed to support a wide range of Internet of Things (IoT)
13 applications requiring medium to very low data rates. This includes a broad
14 spectrum of applications covering speeds high enough for voice and video
15 streaming, as well as those that need optimized performance for ultra-low power
16 consumption and extended in-building range. By contrast, u-blox's high speed LTE
17 Cat 4 and LTE Cat 6 modules meet the needs of applications requiring high data
18 rates, such as for HD video transmission and infotainment solutions. u-blox sells
19 standard compatible products in California and around the world.

20 **B. KPN**

21 24. Upon information and belief, Defendant Koninklijke KPN N.V. is a
22 telecommunications (including fixed, mobile, television, and internet) and ICT
23 solution provider headquartered at Wilhelminakade 123, NL-3072 AP, The
24 Netherlands.

25 25. Upon information and belief, KPN purports to own a large portfolio of
26 U.S. patents and non-U.S. patents spanning multiple jurisdictions and
27 telecommunication technologies related to 2G, 3G, and/or 4G cellular technology.
28 KPN provided lists of its patents to u-Blox in a series of demand letters.

1 Specifically, KPN identified the patents it alleges are essential to the relevant
2 telecommunications technologies at issue here in correspondence sent on January
3 31, 2018, and on April 23, 2021, which are incorporated herein by reference.

4 26. Upon information and belief, KPN derives revenues from patent
5 licensing and aggressively seeks to monetize its intellectual property portfolio by
6 targeting companies like u-blox that sell standards compatible products in California
7 and around the world.

8 27. KPN has engaged, and continues to engage in patent license
9 negotiations with potential licensors in California, including without limitation,
10 u-blox and u-blox's customer, CalAmp, regarding at least the 2G, 3G, and/or 4G
11 patents that KPN owns, manages, and/or controls.

12 **JURISDICTION AND VENUE**

13 28. u-blox brings this action for declaratory relief, injunctive relief, costs of
14 suit, and reasonable attorneys' fees arising under, *inter alia*, the patent laws of the
15 United States, 35 U.S.C. § 1 *et seq.*; Section 2 of the Sherman Antitrust Act, 15
16 U.S.C. § 2; and the Declaratory Judgment Act, 28 U.S.C. §§ 2201 and 2202.
17 Accordingly, this Court has jurisdiction to hear this case pursuant to 28 U.S.C.
18 §§ 1331 and 1337.

19 29. This Court has subject matter jurisdiction over u-blox's pendent state
20 law claim pursuant to 28 U.S.C. § 1367, because u-blox's state law claim arises
21 from the same factual nucleus as its federal law claims.

22 30. This Court has personal jurisdiction over KPN based on the antitrust
23 laws, and at least because KPN (1) committed intentional acts, including the
24 wrongful conduct described herein, that give rise to the causes of action herein
25 alleged in this jurisdiction; (2) expressly aimed such acts at u-blox in San Diego,
26 California, among other places, and on information and belief at others in this State;
27 and (3) caused harm that KPN knew was likely to be suffered in this State, including
28 the harm to u-blox described herein.

1 31. KPN has purposefully directed its actions to California via its exchange
2 of numerous communications with u-blox in an effort to extract non-FRAND SEP
3 license from u-blox relevant to KPN's 2G, 3G, and/or 4G patents in breach of its
4 express FRAND licensing commitments to ETSI. For example, KPN directed its
5 communications to the in house legal counsel for u-blox who is a resident of San
6 Diego, California and an employee of u-blox San Diego, Inc. which has its principal
7 place of business in San Diego.

8 32. In addition, KPN accused u-blox's customer, CalAmp, of infringing
9 multiple patents that KPN is obligated to license to u-blox and, by extension,
10 u-blox's customers, pursuant to KPN's FRAND licensing declarations to ETSI.
11 CalAmp's Telematics Products and Systems unit, to which KPN directed its
12 infringement-related correspondence and demands, is located at 2200 Faraday Ave.,
13 Suite 220, Carlsbad, California, 92008, and is within this District.

14 33. u-blox's claims described herein are related to and arise out of KPN's
15 contacts within California because they involve the same patents that KPN
16 identified in its negotiation efforts to establish a licensing agreement with u-blox
17 and accused u-blox, and u-blox's customers, of infringing, including without
18 limitation, the '250 Patent and the '667 Patent.

19 34. Through its communications with u-blox, KPN has also established that
20 it intends to sue u-blox for infringing one or more of the patents it identified as
21 being allegedly essential to the 2G, 3G, and/or 4G standards, including without
22 limitation, the '250 Patent and the '667 Patent.

23 35. KPN has sued other companies for infringing its alleged SEPs,
24 including the '250 Patent and the '667 Patent, and has therefore developed a
25 reputation for filing suit for patent infringement if and when prospective licensees
26 refuse to acquiesce to KPN's non-FRAND licensing demands.

27 36. KPN's actions have instilled in u-blox a reasonable apprehension that
28 KPN will sue u-blox for patent infringement, including for infringement of the '250

1 Patent and the '667 Patent.

2 37. Venue is proper in this judicial district pursuant to 28 U.S.C.
3 § 1391(b)(2) as the licensing negotiations giving rise to the complaint were directed
4 at u-blox's employees in this judicial district.

5 **FACTUAL ALLEGATIONS**

6 38. As explained below, u-blox brings this action because KPN breached
7 its commitments to ETSI, 3GPP, their members and affiliates, and third party
8 beneficiaries to these commitments—including u-blox—to timely disclose its
9 alleged 2G, 3G, and/or 4G SEPs to ETSI and to license its purported SEPs on
10 FRAND terms and conditions as KPN expressly promised it would.

11 **Standard Setting Leads to Creation of Monopoly Power in Adopted**
12 **Technologies**

13 39. SSOs, such as ETSI, are voluntary membership organizations whose
14 participants engage in the development of industry standards for the benefit of their
15 members and affiliates, third parties implementing the standards, and consumers.

16 40. SSOs and the standards they promulgate play an important role in the
17 technology market by allowing companies to agree on common technology
18 standards so that compliant products implementing the standards will work together.
19 Standards also lower costs by increasing product manufacturing volume and inter-
20 brand competition and by reducing switching costs for consumers and/or
21 manufacturers who want to switch from products, services, or components provided
22 by one company to those provided by another company.

23 41. Compatibility standards are commonly adopted in industries in which
24 complementary products or components, manufactured by different firms, must
25 interoperate, interface, or communicate with each other. When many companies
26 produce components that must interoperate in a complex system, collaboration
27 among industry participants is often the most efficient way to establish the requisite
28 standards. This collaboration often takes place in the context of formal SSOs that

1 promulgate standards and set participation rules for their members. The
2 telecommunications industry has benefited from increased interoperability across
3 devices and networks, and the 2G, 3G, and 4G cellular communications standards at
4 issue here are examples of compatibility standards. Notwithstanding its potential for
5 economic benefits and efficiency, standardization nonetheless possesses significant
6 anticompetitive risks by eliminating competitive alternatives that otherwise would
7 exist absent standardization.

8 42. Prior to adoption of a standard, there are generally multiple alternative
9 technology solutions competing to perform any given functionality. During the
10 standard setting process, including in the ETSI standard-setting environment, SSO
11 participants evaluate and then select the appropriate technology, among alternatives,
12 to fulfill each individual function required to practice the relevant standard. This
13 process includes considering not only the technical merits of any alternative, but
14 also whether any alternative is based on proprietary technology and if such
15 proprietary technology is available for licensing on FRAND terms and conditions.
16 If a technical alternative under consideration is known to be unavailable for FRAND
17 licensing, the relevant SSOs, such as ETSI, are required to reassess their options or
18 even withdraw the portion of the standard that relies on such proprietary technology.

19 43. Under the ETSI IPR policy, “[d]uring the proposal or development of a
20 standard, ETSI members must inform the Director General in a timely fashion if
21 they are aware that they hold any patent that might be essential.”¹

22 44. The ETSI IPR policy is designed as such to allow its members to weigh
23 the costs and benefits of implementing the potential technology. Without timely
24 disclosure of IPRs, a technology holder would obtain an unfair business advantage
25 through the patents they obtain if they are essential to the standard.

26 45. Thus, before a standard is adopted, all of the potential alternative

27 _____
28 ¹ ETSI IPR Policy, Section 4.1 at 1; *see also* ETSI website at
<https://www.etsi.org/intellectual-property-rights>.

1 technologies capable of performing each particular function within a 2G, 3G, or 4G
2 standard compete for adoption in the product market covering that functionality.
3 These product markets are collectively referred to for a particular standard as
4 “technology markets.”

5 46. In contrast to the competition that typically exists among alternatives
6 before standardization, other technological alternatives no longer compete with the
7 standardized technology after the chosen technology is adopted into a standard.
8 Thus, for as long as the standard remains in use, no viable substitutes exist post-
9 standardization for the technology embodied in a relevant SEP. As a result, the
10 incorporation of a patent into a standard makes the scope of the technology market
11 for each specific functionality of a standard congruent with that of the patent
12 asserted to be essential to that particular functionality of the standard. By so
13 artificially eliminating competition, standardization confers monopoly power on
14 SEP owners, giving them the power to extract above-FRAND royalties and to
15 exclude implementers from practicing the standard. Here, the relevant technology
16 markets and/or submarkets *post-standardization* are limited to the specific patents
17 and/or patent applications that KPN claims are essential to the 2G, 3G, or 4G
18 cellular standards, including the purported SEPs identified herein and which were
19 disclosed in KPN’s respective licensing declarations to ETSI (hereafter “Relevant
20 Technology Markets”), as found in **Exhibits C–D**. Because they are no longer
21 considered reasonably interchangeable substitutes for KPN’s adopted technologies,
22 any excluded alternatives are no longer part of the Relevant Technology Markets
23 post-standardization. Accordingly, after standardization, KPN became the only
24 commercially-viable technology supplier in each of the Relevant Technology
25 Markets for which its patented technology purportedly became standardized. As a
26 result, standards implementers, including u-blox, could no longer substitute any
27 other technologies for KPN’s adopted technologies. KPN thus possesses monopoly
28 power in the Relevant Technology Market for each of its standardized patented

1 technologies, and a dominant share of that market, allowing it to extract supra-
2 FRAND royalties and exclude companies in the downstream markets that utilize the
3 standards.

4 47. To the extent ETSI may not have considered alternatives when
5 adopting a KPN technology, it did so without knowledge that such technology was
6 proprietary due to KPN's failure to timely disclose such technology to ETSI before
7 its adoption. Thus, ETSI was lulled into believing that the technology being
8 adopted was free of IPRs.

9 48. Because standardization confers artificial monopoly power on SEP
10 owners like KPN, it has the potential to empower any individual firm that has IPR
11 over one or more technologies that are essential to the standard to block other firms
12 from practicing the standard or to significantly raise their costs of doing so. Outside
13 of the standard-setting context, the extent to which a patent holder will be able to
14 profit from an invention is limited by competition from alternative, non-infringing
15 technologies or products. Thus, even though a patent gives its owner the right to
16 exclude unauthorized users, it does not necessarily confer monopoly power because
17 other constraining, non-infringing alternatives may be, or over time will be,
18 available. However, incorporating patented technology into a standard artificially
19 removes competition from those alternatives for as long as a standard remains in use
20 even if better alternatives are invented over time, and provides the patent owner with
21 significant market power that is neither due to the mere issuance or ownership of a
22 patent nor the patent's inherent technical value (*i.e.*, the contribution of the patented
23 technology relative to the alternatives—the *ex ante* value).

24 49. Thus, standardization transforms what may have been only marginally
25 valuable IP into essential IP needed by all firms that intend to manufacture, use, or
26 sell standard-based products. This elimination of competitive restraints confers
27 market power on SEP owners relative to the marginal power they would have had
28 pre-standardization where alternatives (including the option of not including the

1 relevant functionality at all) would be potentially available in the technology
2 market(s) and could constrain anticompetitive licensing behavior of the SEP owner.

3 50. Once a standard is set, and especially as manufacturers such as u-blox
4 invest in and begin manufacturing products that can use or operate with the
5 standard, it becomes increasingly difficult to revise the standard in order to avoid a
6 SEP. Revising a standard can be very costly to the industry implementing that
7 standard because it may involve breaking the compatibility and interoperability that
8 the standard provides. While the ETSI IPR Policy does contemplate post-
9 standardization procedures to address such exploitative behavior by SEP owners
10 after a standard has been published, changing a standard to eliminate a SEP whose
11 owner attempts to unfairly exercise undue market power gained from
12 standardization is very costly.

13 51. The *ex post* relaxation of competitive constraints on the SEP owner
14 through the elimination of alternatives, together with the *ex post* negotiation of
15 licenses, gives rise to the possibility that a SEP owner will act opportunistically and
16 “hold up” some or all standard implementers by extracting higher royalties *ex post*
17 that leverage the lock-in value of standardization rather than the *ex ante* value of the
18 technology itself. Such exploitative behaviors expropriate at least a portion of an
19 implementer’s returns from sunk investments in innovation. If an implementer or
20 potential implementer anticipates that there is a material risk of opportunistic
21 behavior by SEP owners, its incentives to engage in innovative activities will be
22 reduced or possibly even eliminated, particularly when the SEP holder seeks to hold
23 up the implementer for all or a large part of the profits from the implementer’s
24 innovations, complementary products, or services.

25 52. When adhered to, the above discussed IPR policies benefit all of the
26 constituencies. Standard setting participants benefit by having their technology
27 incorporated into the standard and to receive compensation for its use larger
28 volumes of devices that operate using the standard. As a standard becomes more

1 widely adopted and used, patent holders receive greater total compensation. SSO
2 participants also enjoy benefits independent of potential royalty income, including
3 recognition of leadership in the technology, increased demand for participants'
4 products, advantages flowing from familiarity with the contributed technology
5 potentially leading to shorter development lead times, and improved product
6 compatibility.

7 53. Firms that implement the standard receive an assurance that they will
8 always have access to essential patents on reasonable terms and will not be
9 exploited by patent holders or disadvantaged relative to other implementers if they
10 invest in developing innovative products that may operate with the standard.
11 Likewise, consumers and businesses benefit from continued innovation, reduced
12 costs, and other efficiencies from widespread interoperability and economies of
13 scale and scope enabled by the standard.

14 54. By contrast, IPR policy breaches, such as those alleged here, can chill
15 standard-setting efforts, thus denying to standard setting participants, implementers,
16 and consumers the many benefits of standard setting.

17 **ETSI's IPR Policy**

18 55. ETSI is an independent, non-profit SSO that is responsible for the
19 standardization of information and communication technologies, including mobile
20 cellular technologies, for the benefit of its members and affiliates.

21 56. 3GPP is a collaborative project that develops standards in partnership
22 with a group of recognized SSOs in the information and communication industry,
23 including ETSI.

24 57. ETSI, in partnership with 3GPP, has been involved in standardizing a
25 number of 2G, 3G, and 4G mobile cellular technologies.

26 ///

27 ///

28

1 58. The ETSI IPR Policy² requires its members to disclose on a timely,
2 bona fide basis all intellectual property rights that they are aware of and believe may
3 be or may become essential during the development of an ETSI standard. The ETSI
4 IPR Policy, Clause 4.1 provides that: “each MEMBER shall use its reasonable
5 endeavours [sic] to timely inform ETSI of ESSENTIAL IPRs it becomes aware of.
6 In particular, a MEMBER submitting a technical proposal for a STANDARD shall,
7 on a bona fide basis, draw the attention of ETSI to any of that MEMBER’s IPR
8 which might be ESSENTIAL if that proposal is adopted.” This obligation to
9 disclose extends to members’ affiliates as well. In other words, if a member is
10 going to receive an economic benefit from having technology covered by its
11 intellectual property included in the standard, other ETSI members should be
12 informed of this *before* making their final decision to adopt such technology into the
13 standard, and in particular where such technology was submitted in a technical
14 proposal by the IPR holder.

15 59. The ETSI IPR policy is designed as such to allow its members deciding
16 which technology should be adopted into the standard to analyze whether or not the
17 technology will be subject to a FRAND commitment, in order to weigh the costs
18 and benefits of implementing the potential technology. Without timely disclosure of
19 IPRs, a technology holder would obtain an unfair business advantage through the
20 patents they obtain if they are essential to the standard.

21 60. Additionally, ETSI’s IPR Policy requires that participants disclose their
22 relevant IPR during the development of a standard so that ETSI may request that
23 members owning patents potentially essential for the practice of a standard
24 irrevocably commit to license those patents on FRAND terms and conditions to
25 anyone practicing the standard. Specifically, clause 6 of ETSI’s IPR Policy states:

26 _____
27 ² See ETSI IPR policy is available at [https://www.etsi.org/images/files/IPR/etsi-ipr-](https://www.etsi.org/images/files/IPR/etsi-ipr-policy.pdf)
28 [policy.pdf](https://www.etsi.org/images/files/IPR/etsi-ipr-policy.pdf), last visited March 12, 2020, which has remained substantively similar
since 1994.

1 When an ESSENTIAL IPR relating to a particular STANDARD is
2 brought to the attention of ETSI, the Director of ETSI shall
3 immediately request the owner to give within three months an
4 undertaking in writing that it is prepared to grant irrevocable licenses
5 on fair, reasonable and non-discriminatory [FRAND] terms and
6 conditions under such IPR... The above undertaking may be made
subject to the condition that those who seek licenses agree to
reciprocate.

7 ETSI IPR Policy, § 6.1.

8 61. Clause 6.1 lists “MANUFACTURE, including the right to make or
9 have made customized components and sub-systems to the licensee’s own design
10 for use in MANUFACTURE,” as among the uses for which SEP holders must make
11 mandatory FRAND licensing commitments. *Id.*

12 62. FRAND commitments, pursuant to Clause 6 of the ETSI IPR Policy,
13 “shall be interpreted as encumbrances that bind all successors-in-interest.”

14 63. ETSI defines “essential” as follows:

15 “ESSENTIAL” as applied to IPR means that it is not possible on
16 technical but not commercial grounds, taking into account normal
17 technical practice and the state of the art generally available at the time
18 of standardization, to make, sell, lease, otherwise dispose of, repair, use
19 or operate EQUIPMENT or METHODS which comply with a
20 STANDARD without infringing that IPR. For the avoidance of doubt
in exceptional cases where a STANDARD can only be implemented by
technical solutions, all of which are infringements of IPRs, all such
IPRs shall be considered ESSENTIAL.

21 ETSI IPR Policy, Annex 6.

22 64. Although ETSI defines the term “essential,” it does not make any
23 attempt (nor, in general, do any SSOs) to ascertain whether the patents declared as
24 potentially “essential” to a standard are valid and enforceable, or whether they are,
25 in fact, technically essential. Which patents are deemed potentially “essential” to a
26 particular standard is self-proclaimed by the declaring SSO member.

27 65. If the essential IPR owner refuses to undertake the requested
28

1 commitment and informs ETSI of that decision, the ETSI General Assembly must
2 “review the requirement for that STANDARD or TECHNICAL SPECIFICATION
3 and satisfy itself that a viable alternative technology is available for the
4 STANDARD or TECHNICAL SPECIFICATION” that is not blocked by that IPR
5 and satisfies ETSI’s requirements. ETSI IPR Policy, § 8.1.1. Absent such a viable
6 alternative, the ETSI IPR Policy requires that “work on the STANDARD or
7 TECHNICAL SPECIFICATION shall cease.” *Id.*, § 8.1.2. In other words, ETSI
8 will not agree to incorporate a member’s technology into a standard under
9 consideration unless the member irrevocably binds itself to granting licenses on
10 FRAND terms.

11 66. Additionally, Section 8.2 of the ETSI IPR Policy describes the
12 procedure for addressing the non-availability of a license after the publication of a
13 standard or technical specification, including efforts “to modify [the standard] so
14 that the IPR is no longer ESSENTIAL,” and “non-recognition” of the standard in
15 question if no viable alternatives existed. *Id.*, § 8.2. Notably, where a FRAND
16 declaration “cannot be obtained because of the refusal by the essential IPR owner,
17 the Secretariat is *obliged* to initiate the procedure ... in Clause 8 ...” The ETSI
18 Guide on IPR, cl. 2.4.2 (emphasis added).

19 67. Had a specific ETSI member (e.g., KPN) disclosed to ETSI that it was
20 actually not going to commit to FRAND rates (which is akin to a license not being
21 available), ETSI was required to use the procedure outlined in clause 8 of the ETSI
22 IPR Policy to reject the member’s technologies even after publication of the relevant
23 standards. In addition, as ETSI standards have evolved over time and additional
24 versions of the standards were adopted, ETSI and its members relied on prior
25 FRAND commitments to keep the prior technology in place. Had the member
26 affirmatively stated that it would not offer FRAND rates, the other ETSI members
27 could have worked on implementing a design around in later versions and were
28 required to invoke the procedures in clause 8 of the ETSI IPR Policy.

1 on how to effectuate these benefits. Thus, there were a number of different
2 standards considered to be 2G.

3 73. In Europe, a system called Global System for Mobile Communications
4 (“GSM”), originally referred to as Groupe Spécial Mobile, evolved to become the
5 dominant worldwide 2G standard.

6 74. GSM and these newer variants are still in use today. They can support
7 voice service and user data rates with low to moderate data transmission speed.
8 However, despite the availability and widespread, global adoption of GSM, the
9 technology was not initially widely commercialized in the United States. In the
10 United States, a different 2G technology, based on a different wireless air interface
11 named Code Division Multiple Access (“CDMA”), was being strongly championed
12 by Qualcomm.

13 75. At a very basic level, CDMA operates by assigning each user a unique
14 identifier, a “spreading code,” which is used to “spread” all the digital data
15 transmitted to or from that user. Because each user has a unique spreading code, a
16 user need not be assigned a specified time slot as is required with other more
17 onerous technologies. With CDMA, multiple users can communicate at the same
18 time (*i.e.*, simultaneously) using the same frequency by transmitting messages that
19 have been spread using different but orthogonal “spreading codes” on the forward
20 link.

21 76. In the United States, eventually roughly half of the large wireless
22 carriers, including AT&T, deployed GSM while the other half, including Verizon,
23 deployed CDMA.

24 **3G Standards**

25 77. In the mid to late 1990s, the cellular industry started a push towards a
26 newer, more advanced system, able to support more users with improved reliability
27 and better handling of data services.

28 78. Originally the hope was to adopt a single, global standard. However,

1 over time, it became apparent that diverging regional interests would prevent a
2 single system from being adopted. On the one hand, supporters of the GSM-based
3 standards pushed to have a system based on the GSM core network, but with an
4 enhanced Radio Access Network incorporating a new CDMA-based air interface
5 known as Wideband CDMA (“WCDMA”). This standard is known as Universal
6 Mobile Telecommunications System, or “UMTS.” On the other hand, supporters of
7 the IS-95 family of standards pushed to enhance the existing IS-95 core network and
8 CDMA air interface, to develop a new standard known as CDMA2000.

9 79. The first UMTS standard developed by 3GPP was called Release 99,
10 and was followed by a minor “cleanup” revision called Release 4. The first major
11 upgrade came in 2002 with Release 5, including a new feature called High Speed
12 Downlink Packet Access (“HSDPA”), which was followed by Release 6 in and
13 around early 2005 that introduced High Speed Uplink Packet Access (“HSUPA”).
14 Together HSDPA and HSUPA (collectively known as High Speed Packet Access or
15 “HSPA”) enhanced the download and upload speeds as compared to the original
16 baseline specification. In 2007, Release 7 included an enhancement named High
17 Speed Packet Access Evolution (“HSPA+”), which includes a number of technical
18 modifications to support even higher data rates. More recent releases have further
19 improved functionality.

20 80. UMTS, as improved through the various releases, remains in
21 widespread use around the world today. As with 2G, roughly half of the network
22 operators in the United States deployed UMTS networks while the other half
23 deployed CDMA2000 networks.

24 **The 4G Standard**

25 81. For the first time in the evolution of cellular standards, the global
26 cellular industry converged to a single wireless standard for use worldwide in the
27 late 2000s: Long Term Evolution (“LTE”). This standard was developed by 3GPP,
28 and it provides a natural evolutionary path for both UMTS and CDMA2000 network

1 operators and their customers. Similar to the earlier generations, LTE also continues
2 to evolve, including advances such as LTE-Advanced.

3 82. Work began in earnest on developing LTE around 2006, under the
4 leadership of 3GPP. The first technical specifications, known as Release 8, were
5 published in 2008. Release 8 includes functionality that theoretically supports
6 downlink data rates of about 300 Mbps and uplink data rates of about 75 Mbps.

7 83. In 2011, an upgrade to LTE was published, referred to as Release 10,
8 incorporating many features of what is known as LTE-Advanced. This upgrade
9 includes a number of major technical enhancements to considerably increase LTE
10 functionality. Commercial deployments of LTE-Advanced are in progress today.

11 84. Development of the LTE standard continued beyond Release 10 with
12 incremental improvements to the standard, including many relevant to u-blox's
13 cellular modules.

14 85. In Release 12, 3GPP specified low-price machine-communication
15 terminals as LTE terminal Category 0. These terminals feature a maximum data rate
16 of 1Mbps, support for frequency division duplex and half duplex, and support for
17 single antenna reception.

18 86. In Release 13, 3GPP defined two new terminal categories. Category
19 M1 includes the features of Category 0, with the transceiver bandwidth limited to
20 1.08 MHz and support for coverage extension of approximately 15 decibels or dB.
21 These limitations have cost reduction effects for chipsets compared to Category 0.
22 Second, Release 13 defined the Narrowband IoT ("NB-IoT") category of devices.
23 NB-IoT is a subset of the LTE standard focused on indoor coverage, low cost, long
24 battery life, and high connection density. The NB-IoT category features transceiver
25 bandwidth limited to 180kHz and support for coverage extension greater than 20
26 dB.

27 87. As of Release 13, the LTE standard defines 19 separate categories of
28 user equipment ("UE"). These categories depend on maximum peak data rate and

1 MIMO capabilities supported by the UE.

2 88. Cellular products and components implementing LTE are not required
3 to practice every release of the LTE standard. For example, u-blox's components
4 that use low-speed LTE category standards do not need to incorporate all the
5 technology needed in high-speed LTE category standards. Thus, given the variation
6 of LTE category implementations, not every u-blox product needs a license to all the
7 same LTE (4G) patents.

8 **Hold-up and Royalty Stacking**

9 89. Despite SSOs adopting IPR Policies incorporating FRAND
10 commitments, some SEP owners, including KPN, have attempted to exploit their
11 monopoly power to extract supra-competitive royalty rates after implementers are
12 locked into the standardized technology.

13 90. The exploitation of SEPs to extract unreasonable or discriminatory
14 royalties that leverage and reflect the *ex post* value of standardization, as opposed to
15 the *ex ante* value of the patented technology, is referred to as patent "hold-up." The
16 cumulative royalty burden required to satisfy all SEP holders is referred to as a
17 royalty stack.

18 91. Hold-up harms competition and impedes implementation of standards,
19 diminishing the benefits that flow from widespread adoption of the standard. The
20 anticompetitive effects of hold-up are magnified when the total aggregate royalty
21 stack is analyzed. The total royalty stack must be reasonable when viewed in the
22 aggregate. The demands of individual SEP owners must be assessed in light of the
23 total number of SEPs included in the standard and their relative technical
24 contributions.

25 92. A number of cases that have been litigated in U.S. courts demonstrate
26 that patent hold-up is a widespread problem, with SEP owners violating their
27 FRAND commitments by making royalty demands significantly above the
28 adjudicated FRAND rates. *See, e.g., In re Innovatio IP Ventures, LLC Patent Litig.,*

1 2013 WL 5593609, at *43 (N.D. Ill. Oct. 3, 2013) (for 19 asserted patents, assessing
2 damages of \$0.0956 per unit as compared to the proposed royalty of \$16.17 per unit
3 for tablet computers); *Microsoft Corp. v. Motorola, Inc.*, 2013 WL 2111217, at *100
4 (W.D. Wash. Apr. 25, 2013) (determining FRAND rate of \$0.03471 per Microsoft's
5 xBox unit, as compared to Motorola's initial demand of \$6-\$8 per xBox unit).

6 93. Courts, regulators, and economists, among others, have also made clear
7 that to be effective, the FRAND commitments should: (a) limit royalties to the value
8 that the SEP(s) had prior to inclusion in the ETSI standard and in light of other
9 patented and unpatented technology essential to the standard; (b) prohibit charging
10 royalties that are based upon the technology's inclusion into the standard or that
11 capture the value of the standard itself; and (c) require non-discriminatory treatment
12 of licensees and potential licensees.

13 94. As explained below, and like the SEP owners from the aforementioned
14 cases, an analysis of KPN's non-FRAND offers to u-blox for a license demonstrates
15 that KPN is attempting to abuse its monopoly power to extract the hold-up value of
16 its alleged SEPs. As described below, KPN's licensing offer to u-blox is completely
17 untethered to the *ex ante* value of KPN's alleged SEPs, and would create an
18 unsustainable royalty stack. In light of KPN's continued unreasonable demands for
19 a license and related conduct, u-blox has no choice but to seek a judicial
20 determination of the terms for a fair, reasonable, and non-discriminatory license
21 KPN's 2G, 3G, and/or 4G patents.

22 **KPN's IPR Declarations**

23 95. As an ETSI member and a participant in ETSI and/or 3GPP
24 standardization, in conjunction with the adoption of the 2G, 3G, and/or 4G
25 standards, KPN made submissions to the technical bodies within ETSI and/or 3GPP,
26 declaring that certain patents or patent applications may be or may become essential
27 to the standards under consideration.

28 96. Upon information and belief, for at least some of KPN's patents, KPN

1 was aware of technical proposals using technology related to the filed patent
2 applications which were then adopted as the standard. However, KPN failed to
3 disclose that it had filed patent applications relating to technical standards
4 submissions until many years after they had been adopted when it finally filed a
5 declaration disclosing IPR related to the adopted technology. It is well known that
6 ETSI members are incentivized to choose technical solutions that are free of
7 licensing costs. Accordingly, there is a reasonable possibility that advance
8 knowledge that a proposed technology was proprietary could have dissuaded ETSI
9 members to implement that technology. *See Conversant Wireless Licensing*
10 *S.A.R.L. v. Apple, Inc.*, No. 15-cv-05008-NC, Dkt. 547, at 10 (N.D. Cal. May 10,
11 2019).

12 97. KPN waited several years from the dates many of its patents were filed
13 and issued before KPN submitted IPR declarations for those patents, and agreed to
14 enter into an irrevocable undertaking to grant licenses to its disclosed essential
15 patents on FRAND terms and conditions.³ For example, although the '250 Patent
16 was filed on September 4, 1996, issued on July 27, 1999, and the technical
17 specification to which the '250 Patent is allegedly essential was adopted on March
18 15, 2000, KPN still waited until April 27, 2015, after KPN had asserted that patent
19 in a patent infringement lawsuit, to declare the '250 Patent, and each of its family
20 members, essential in an IPR Declaration to ETSI.

21 98. Similarly, although the '667 Patent was filed on February 19, 2009 and
22 issued on April 21, 2015, and the technical specifications to which the '667 Patent is
23

24 ³ u-blox does not accept KPN's representation that any (or all) of the patents
25 identified as potentially "essential" are, in fact, necessary for the compliant
26 implementations of 2G, 3G, and/or 4G technologies; nor does u-blox concede that
27 the particular implementations of such technologies in its products practice any of
28 KPN's patents, including those identified by KPN in relation to these technologies.
Nonetheless, u-blox, and the entire cellular technology industry, has relied upon the
KPN IPR declarations with FRAND commitments.

1 allegedly essential were adopted between March 28, 2011 and April 7, 2011, KPN
2 still waited until February 11, 2019, after KPN had asserted that patent in multiple
3 patent infringement lawsuits, to declare the '667 Patent, and each of its family
4 members, essential in an IPR Declaration to ETSI. The timeline for the late
5 disclosure of the '250 Patent and the '667 Patent is described below.

6 **Late Disclosure of the '250 Patent**

7 99. On September 8, 1995, KPN's predecessor, PTT Nederland NV, filed
8 the Netherlands Patent Application No. 1001162 entitled "Communication system
9 for interactive services with a packet-switched interaction channel over a narrow-
10 band circuit-switched network, as well as a device for application in such a
11 communication system."

12 100. On September 4, 1996, KPN filed U.S. Patent Application No.
13 08/709,325 that claims priority to Netherlands Patent Application No. 1001162.
14 U.S. Patent Application No. 08/709,325 issued as the '250 Patent on July 27, 1999.
15 On March 15, 2000, ETSI published technical specification ("TS") 23.140 v.3.0.1 as
16 part of the 3G standard, and which was subsequently adopted into the 4G standard.

17 101. On December 30, 2014, KPN asserted the '250 Patent against
18 Samsung.

19 102. Then, on April 27, 2015, KPN submitted an IPR to ETSI declaring the
20 '250 Patent as being essential to the 3G and 4G standards vis-à-vis TS 23.140
21 v.3.0.1.

22 **Late Disclosure of the '667 Patent**

23 103. On February 29, 2008, KPN filed European Patent Application
24 EP08003753 entitled "Telecommunications network and method for time-based
25 network access." That application matured into European Patent EP2096884 on
26 February 9, 2009.

27 104. On February 19, 2009, KPN filed U.S. Patent Application No.
28 12/919,965 that claims priority to European Patent Application No. EP08003753.

1 U.S. Patent Application No. 12/919,965 issued as the '667 Patent on April 21, 2015.

2 105. Between March 28, 2011 and April 7, 2011, ETSI published TS 22.368
3 v.10.4.0, TS 23.060 v.10.3.0, and TS 24.008 v.10.2.0 as part of the 3G standard, and
4 which were subsequently adopted into the 4G standard.

5 106. On June 5, 2015, KPN asserted the '667 Patent against Samsung
6 Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung
7 Telecommunications America LLP (collectively "Samsung").

8 107. On November 3, 2015, KPN asserted the '667 Patent against Samsung,
9 and SmartThings, Inc.

10 108. On January 30, 2017, KPN asserted the '667 Patent against BlackBerry
11 Limited and BlackBerry Corporation (collectively "BlackBerry"), HTC Corporation
12 and HTC America, Inc. (collectively "HTC"), Lenovo Group Ltd., Lenovo Holding
13 Co., Inc., and Lenovo (United States) Inc. (collectively "Lenovo"), LG Electronics
14 Inc., LG Electronics, U.S.A., Inc., and LG Electronics Mobilecomm U.S.A., Inc.
15 (collectively "LG").

16 109. On November 13, 2018, KPN asserted the '667 Patent against TCL
17 Communication, Inc., TCL Communication Technology Holdings Limited, TCT
18 Mobile, Inc., and TCT Mobile (US) Inc. (collectively "TCL").

19 110. Then, on February 11, 2019, KPN declared the '667 Patent to be
20 essential to the 3G and 4G standards vis-à-vis TS 22.368 v.10.4.0, TS 23.060
21 v.10.3.0, and TS 24.008 v.10.2.0.

22 111. KPN continues to assert the patents against implementers of the
23 standards, including u-blox and its customer CalAmp, and seeks non-FRAND
24 royalty rates, even though KPN waived its right to enforce these patents. As a direct
25 and proximate consequence of KPN's unlawful monopolization of the technology
26 allegedly covered by the '250 Patent and '667 Patent, customers of the Relevant
27 Technology Markets (implementers of the standards such as u-blox) face higher
28 costs for access to cellular technologies necessary for the manufacture of standard-

1 compliant products than they would have paid in a competitive marketplace.

2 **KPN's Refusal to Offer u-blox a License on FRAND Terms**

3 112. As explained above, KPN falsely committed to license the essential
4 patents it holds on FRAND terms and conditions consistent, in all respects, with its
5 binding commitments to ETSI, 3GPP, and participants and implementers of the
6 applicable standards. However, in disregard of its binding obligations, KPN is
7 refusing to license its alleged SEPs to u-blox on FRAND terms and conditions.

8 113. On December 23, 2015, KPN employee, Gert-Jan Schilt, sent a letter to
9 u-blox demanding that u-blox license KPN's wireless patent portfolio, part of which
10 was allegedly essential to the 2G, 3G, and 4G wireless standards. KPN attached
11 multiple claims charts to its demand letter that purported to map features of u-blox's
12 products to KPN's patent claims.

13 114. Around the same time, KPN sent a similar letter to u-blox's customer,
14 CalAmp Corporation in which KPN alleged that CalAmp infringed three of KPN's
15 alleged SEP patents through CalAmp's use of u-blox components.

16 115. On May 12, 2016, after a series of communications between the parties
17 relating to KPN's demand, Jan Schnitzer responded to Mr. Schilt by indicating that
18 "u-blox is a willing licensee," and requesting that KPN provide u-blox with a
19 FRAND licensing offer to KPN's alleged SEP patents.

20 116. Over the summer of 2016, numerous emails were exchanged between
21 KPN and u-blox regarding the general framework and terms and conditions for a
22 possible patent license. u-blox also requested that KPN "retract" its infringement
23 allegations against u-blox's customer, CalAmp, since KPN's infringement claims
24 would be rendered moot by a prospective license agreement between KPN and
25 u-blox. KPN refused to withdraw its allegations against CalAmp.

26 117. On August 31, 2016, KPN sent u-blox a draft licensing agreement that
27 included a set of proposed licensing terms for a license to certain patents that KPN
28 alleges to be essential to the 2G, 3G, and/or 4G standards, including, for example,

1 EP0763960 and EP2250835, inclusive of their U.S. family members.

2 118. KPN's August 31, 2016, licensing proposal provided specific terms and
3 conditions including a running royalty rate for 2G, 3G, 4G, 5G, and WiFi
4 technologies implemented in u-blox's customers' end-products, such as M2M
5 modules, PCs, laptops, notebooks, and tablets.

6 119. The '250 Patent claims priority to Netherlands Patent NL 1001162,
7 which is the parent to European Patent EP0763960. Accordingly, the '250 Patent
8 and EP0763960 are part of the same family, and were both expressly identified in
9 KPN's proposed license.

10 120. The '667 Patent claims priority to European Patent EP08003753, which
11 is the parent to European Patent EP2250835. Accordingly, the '667 Patent and
12 EP2250835 are part of the same family, and were both expressly identified in KPN's
13 proposed license.

14 121. In the latter half of 2016, KPN and u-blox continued to exchange email
15 correspondence regarding the proposed license, including u-blox requesting more
16 details from KPN about its proposed royalty rate calculation for consideration. KPN
17 declined to provide any substantive explanation about how it calculated its royalty
18 rate and instead explained that the royalty fee it demanded from u-blox was "for
19 each specified technology in each product where without a license, the product by
20 having that technology *infringes* at least one of [KPN's] patents." (Emphasis
21 added).

22 122. From December 2016 to June 2017, u-blox carefully considered KPN's
23 offer, proposed license terms, and list of alleged SEPs. During that time, u-blox San
24 Diego hired Kent Baker, Head of IP Strategy & Licensing, who took the lead on
25 evaluating and negotiating KPN's proposed license.

26 123. On June 29, 2017, Mr. Baker responded to Mr. Schilt and suggested the
27 parties discuss KPN's proposal via telephone.

28 124. No telephonic conference took place and instead on January 31, 2018,

1 Mr. Schilt emailed Mr. Baker of u-blox San Diego to request an update on u-blox's
2 consideration of KPN's proposed license. Mr. Schilt attached a table of KPN's
3 patents that it alleged u-blox "continues to infringe," which included both the '250
4 Patent and the '667 Patent. KPN offered to provide u-blox with updated claim
5 charts, which Mr. Baker requested on March 15, 2018, and were sent by KPN on
6 March 26, 2018. KPN's correspondence included claim charts for EP0763960 and
7 EP2250835, which are family members of the '250 Patent and the '667 Patent,
8 respectively.

9 125. Between March 2018 and March 2019, u-blox continued to evaluate
10 KPN's claim charts in view of its proposed license terms.

11 126. On March 6, 2019, Mr. Baker of u-blox San Diego responded to
12 Mr. Schilt to re-affirm that u-blox is a willing licensee to a FRAND license to
13 KPN's SEPs, but that it would not agree to KPN's non-FRAND SEP license.
14 Mr. Baker pointed out that KPN's licensing correspondence did not unambiguously
15 identify which patents KPN actually alleged to be essential to ETSI standards and
16 purported to seek licenses to patents that had expired and/or had been invalidated
17 through litigation, even though they were still being asserted against u-blox.
18 Mr. Baker requested that KPN provide an updated offer and list of its alleged SEPs
19 that KPN is asserting against u-blox.

20 127. On December 30, 2019, Mr. Schilt responded to Mr. Baker of u-blox
21 San Diego by resending a copy of its August 31, 2016 license offer providing an
22 updated set of claim charts that largely included the same patents from KPN's
23 previous correspondence, including the '250 Patent and the '667 Patent.

24 128. Between December 2019 and January 2021, the parties corresponded
25 about KPN's proposal multiple times. In that correspondence, Mr. Baker continued
26 to point out that KPN's proposed royalty rate was well above rates that courts had
27 considered FRAND, and the list of SEPs included expired patents and/or patents
28 that u-blox did not practice. Nevertheless, KPN maintained its proposed licensing

1 terms, royalty rate, and list of alleged SEPs. The parties also discussed a potential
2 meeting to further negotiate.

3 129. In January 2021, KPN sent u-blox a revised offer that modified its
4 previously offered flat-rate royalty to a proportional valuation approach based on a
5 \$300 per unit product cost for a handset even though u-blox is only a supplier of
6 components and subsystems which cost significantly less.

7 130. On March 16, 2021, Mr. Baker responded to KPN indicating that
8 KPN's proposed royalty rate was non-FRAND for multiple reasons, including, for
9 example, because it used a handset cost that was an order of magnitude higher than
10 u-blox's cost. Mr. Baker proposed a counter-offer using actual unit costs.

11 131. On April 23, 2021, KPN responded to Mr. Baker by declining u-blox's
12 counteroffer and again demanding that u-blox agree to KPN's non-FRAND royalty
13 rates and terms.

14 132. On June 23, 2021, KPN and u-blox met and continued to discuss
15 possible licensing agreements. No agreements were reached at the conclusion of the
16 meeting.

17 133. u-blox is, and has always been, ready, willing, and able to enter into a
18 license to KPN's 2G, 3G, and 4G SEPs on FRAND terms and conditions.

19 134. However, KPN has no intention of granting u-blox a license to its
20 allegedly essential 2G, 3G, and 4G patents on FRAND terms and conditions.

21 135. Instead, KPN is incentivized and continues to offer non-FRAND rates
22 to u-blox, knowing that that u-blox cannot accept the offer, so that KPN can pursue
23 a license from u-blox's downstream customers where it can demand a royalty based
24 on products that incorporate u-blox components and have higher average selling
25 prices. This intent is amply reflected in KPN's demand that u-blox pay royalties
26 based on a percentage of the selling price of an end-product that incorporates u-
27 blox's components, as opposed to basing its royalty on the smallest salable unit that
28 practices KPN's purported SEPs, which sell at a fraction of the price of the relevant

1 end-products. Indeed, “[i]f the royalty is excessive in comparison to a *chip*
2 manufacturer’s profit margin on a chip, ... the royalty is too high” and thus not
3 FRAND no matter where the potential licensee may be within the supply chain. *In*
4 *re Innovatio IP Ventures*, 2013 WL 5593609, at *38 (emphasis added). As such, u-
5 blox is confronted with an entirely unfair Hobson’s choice: refuse to capitulate to
6 KPN’s unreasonable demands and risk losing its customers and business or agree to
7 a license containing terms and conditions including an unreasonable royalty rate that
8 are not FRAND. Given these clear hold-up conditions, u-blox had no choice but to
9 file this action.

10 **The Harm to u-blox and Industry Competition**

11 136. In justifiable reliance upon KPN’s promises that it would license its
12 SEPs to u-blox and others on FRAND terms, u-blox has made significant monetary
13 investments into the research, development, production, and marketing of its cellular
14 modules. In addition, by failing to inform ETSI that KPN would not abide by prior
15 FRAND assurances that encumbered any later-acquired patents, KPN lulled ETSI
16 into foregoing the procedures set forth in, *inter alia*, Section 8.2 of the ETSI IPR
17 Policy and ETSI Guide on IPRs related to the unavailability of FRAND licenses
18 after a standard has been adopted and published. Indeed, by affirmatively agreeing
19 to abide by ETSI’s FRAND licensing requirements KPN reinforced the belief that
20 the technologies it acquired would be available on FRAND terms and conditions.

21 137. Additionally, KPN’s licensing campaign introduces new and uncertain
22 costs to suppliers of electronics compatible with the standards—which were
23 implemented prior to the entry of such licensors as KPN into the Relevant Markets.
24 The costs of negotiating and/or defending litigation resulting from new and
25 unanticipated demands for supra-FRAND rates by late-disclosing entities such as
26 KPN, were not and could not have been calculated into u-blox’s decision to invest
27 millions of dollars into research and development of its components, or in
28 determining their pricing—made years prior. Therefore, KPN’s licensing campaign

1 undermines competition and dampens innovation by causing less investment into
2 new products, and consequently harms the end consumer as suppliers need to charge
3 higher prices for their products.

4 138. Based on the foregoing, u-blox seeks, *inter alia*: (i) a judicial
5 declaration that KPN's promises to ETSI, 3GPP, and their respective members and
6 affiliates to license its SEPs on FRAND terms and conditions constitute binding
7 contractual obligations with u-blox and other implementers as intended third party
8 beneficiaries; (ii) a judicial declaration that KPN has breached these obligations by
9 demanding excessive, unfair, unreasonable, and discriminatory royalties from u-
10 blox; (iii) a judicial decree enjoining KPN from further demanding excessive
11 royalties from u-blox and u-blox's customers that are not consistent with KPN's
12 FRAND obligations; (iv) a judicial accounting of what constitutes a FRAND royalty
13 rate going forward in all respects consistent with KPN's commitment to license its
14 patents identified as (or alleged to be) potentially or actually "essential" to the 2G,
15 3G and/or 4G standards; (v) a judicial determination that KPN's refusal to agree to a
16 FRAND license is a breach of KPN's commitments to ETSI; (vi) a judicial
17 determination that KPN's deceptive and deliberately false declarations to ETSI, and
18 the disclosure misconduct of the prior owners (either alone or in combination),
19 constitute violations of Section 2 of the Sherman Act; (viii) a declaration that
20 patents associated with KPN's disclosure misconduct are not enforceable; and (x) all
21 other relief to which u-blox may be entitled.

22
23 **CLAIMS FOR RELIEF**
24 **FIRST CAUSE OF ACTION**
(Breach Of Contract)

25 139. u-blox re-alleges and incorporates by reference the allegations set forth
26 in the foregoing paragraphs.

27 140. KPN entered into contractual commitments with ETSI, 3GPP and their
28 respective members, participants, and implementers relating to the 2G, 3G, and 4G

1 standards. As ETSI members, and to comply with ETSI's IPR Policy, KPN made
2 binding commitments to ETSI, ETSI members, and third party implementers to
3 disclose intellectual property rights relevant to the 2G, 3G, and 4G standards, and to
4 grant irrevocable licenses to the alleged SEPs at issue on FRAND terms and
5 conditions.

6 141. To the extent KPN was not the original owner and/or IPR declarant
7 with respect to any of the alleged SEPs at issue, ETSI IPR Policy provides that the
8 IPR obligations and commitments to ETSI and/or its members and third party
9 beneficiaries of such alleged SEPs were transferred with the relevant patents to KPN
10 when KPN took ownership of those patents. *See* Clause 6 of the ETSI IPR Policy
11 (providing that it "shall be interpreted as encumbrances that bind all successors-in-
12 interest").

13 142. The ETSI membership and standards setting activities affirmed by KPN
14 and/or the prior owners of KPN's alleged SEPs, including the IPR declarations KPN
15 and/or the prior owners made to comply with ETSI's IPR policy with respect to the
16 alleged SEPs KPN is purporting to license, created an express and/or implied
17 contract with ETSI and/or ETSI members, including an agreement that KPN would
18 license those patents on FRAND terms and conditions. ETSI's IPR Policy does not
19 limit the right to obtain a license on FRAND terms and conditions to ETSI
20 members; third parties that are not ETSI members also have the right to be granted
21 licenses under those patents on FRAND terms and conditions. Each and every party
22 with products that implement the 2G, 3G, and/or 4G standards promulgated by ETSI
23 is an intended third-party beneficiary of these contractual commitments, including
24 u-blox, its suppliers, its customers, and their downstream manufacturers.

25 143. However, despite u-blox's good faith efforts to negotiate a license to
26 KPN's alleged SEPs, KPN is refusing to offer u-blox a license on FRAND terms
27 and conditions.

28 144. KPN has breached its FRAND obligations by refusing to license its

1 SEPs to u-blox at reasonable rates, with reasonable terms, and on a non-
2 discriminatory basis.

3 145. As a result of KPN's contractual breach, u-blox has been injured in its
4 business or property and is threatened with loss of profits, loss of customers and
5 potential customers, and loss of goodwill and product image.

6 146. u-blox has suffered and will continue to suffer injury by reason of the
7 acts, practices, and conduct of KPN alleged herein until and unless the Court enjoins
8 such acts, practices, and conduct.

9
10 **SECOND CAUSE OF ACTION**
11 **(Declaratory Judgment)**

12 147. u-blox re-alleges and incorporates by reference the allegations set forth
13 in the foregoing paragraphs.

14 148. KPN is contractually obligated to license its 2G, 3G, and 4G SEPs on
15 FRAND terms and conditions. There is a dispute between the parties concerning
16 whether KPN has offered u-blox a license to its SEPs on FRAND terms and
17 conditions consistent with KPN's irrevocable commitments in declarations to ETSI
18 and the referenced IPR policy of ETSI and/or 3GPP.

19 149. KPN has sued u-blox for patent infringement of at least some of the
20 patents to be included in the license that KPN and u-blox are negotiating.

21 150. KPN has accused u-blox's customer, CalAmp, of infringing at least
22 some of the patents to be included in the license that KPN and u-blox are
23 negotiating.

24 151. KPN has accused u-blox of practicing the claims of at least some of the
25 patents to be included in the license that KPN and u-blox are negotiating, including
26 the '250 Patent and the '667 Patent.

27 152. As a result of the acts described herein, there exists a definite and
28 concrete, real and substantial, justiciable controversy between u-blox and KPN

1 regarding what constitutes FRAND terms and conditions for a license to KPN's 2G,
2 3G, and 4G SEPs with respect to u-blox's products. This dispute is of sufficient
3 immediacy and reality to warrant the issuance of a declaratory judgment.

4 153. u-blox is entitled to a declaratory judgment that KPN has not offered
5 license terms to u-blox conforming to applicable legal requirements, including
6 failing to offer u-blox a license to its 2G, 3G, and/or 4G SEPs on FRAND terms and
7 conditions. Moreover, u-blox is entitled to a declaratory judgment that sets the
8 forward-looking FRAND terms and conditions, including but not limited to the
9 FRAND royalty rate, for a license to KPN's 2G, 3G, and 4G SEPs.

10
11 **THIRD CAUSE OF ACTION**
12 **(Violations Of Section 2 Of The Sherman Act, 15 U.S.C. § 2—Unlawful**
13 **Monopolization)**

14 154. u-blox re-alleges and incorporates by reference the allegations set forth
15 in the foregoing paragraphs.

16 155. The Relevant Technology Markets, as defined in Paragraph 46, above,
17 are valid relevant antitrust product markets. Specifically, the scope of the Relevant
18 Technology Markets is congruent with each KPN's declared SEPs, wherein KPN
19 necessarily has market power because the incorporation of a patent into a standard—
20 not the mere issuance of a patent—makes the scope of the relevant antitrust market
21 congruent with that of the patent.

22 156. The geographic scope of the Relevant Technology Markets alleged
23 herein is worldwide. The 2G, 3G, and 4G standards at issue have been adopted
24 globally and are subject to common FRAND obligations governing all SEPs
25 incorporated into those standards, irrespective of the region or country in which a
26 particular patent incorporated into a standard may have been issued. In addition,
27 SEP licenses are typically granted on a worldwide basis in light of the global scope
28 of the standards at issue. Finally, KPN itself is seeking to license all of its patents
on a global, portfolio basis, and not based on each patent's country of issuance.

1 157. The Relevant Technology Markets alleged herein exhibit high barriers
2 to entry because the standardization process eliminates the viability of alternative
3 technologies as substitutes for as long as the standard remains in use.

4 158. u-box is informed and believes, and on that basis alleges, that KPN
5 willfully acquired and maintained monopoly power in the Relevant Technology
6 Markets, as described herein. Specifically, KPN acquired monopoly power by
7 falsely committing to license its SEPs on FRAND terms to lull ETSI into adopting
8 and/or continuing to keep KPN's technologies as part of ETSI's published
9 standards. As a result of KPN's false FRAND licensing promises, ETSI forewent
10 invoking the procedure set forth in clause 8 of ETSI's IPR Policy, which ETSI was
11 required to do when SEPs are known to be unavailable on FRAND terms. Such
12 procedure includes revising the standard if viable technologies existed, or ceasing to
13 work on, withdrawing, or even failing to recognize any portion of an already-
14 published standard for which FRAND licenses are, or become, unavailable. This
15 procedure applies regardless of whether KPN declared its IPRs and related FRAND
16 licensing commitments before or after the adoption of its technologies into the
17 standards.

18 159. u-blox is informed and believes, and on that basis alleges, that ETSI
19 relied on KPN's FRAND licensing promises in adopting or keeping the asserted
20 SEPs in standards, and that, absent such affirmative promises, ETSI otherwise
21 would not have agreed to adopt or keep a cellular standard that would have given
22 KPN the power to effectively block companies from practicing the standards or to
23 significantly raise the cost of FRAND licensing to non-FRAND levels. Indeed, the
24 anticompetitive effects of KPN's breaches of its FRAND promises are the same
25 whether it intentionally deceived ETSI at the time it made its FRAND promises, or
26 later opportunistically breached its FRAND promises once its technologies became
27 locked into the standards. Either way, KPN's technologies became locked into the
28 standards because its FRAND licensing representations directly caused ETSI

1 participants to, at a minimum, forego the process by which they were required to
2 evaluate and select alternatives to any essential technology known to be unavailable
3 for FRAND licensing, or to abandon those portions of the standards for which no
4 such alternative was available.

5 160. After KPN's technologies were locked into the standards, giving it
6 monopoly power in its standardized technologies, KPN has leveraged its artificial
7 monopoly power to hold up implementers including u-blox by among other things:

- 8 • Refusing to honor its obligation to license its alleged SEPs on FRAND
9 terms and conditions;
- 10 • Seeking supra-competitive royalty rates from u-blox for a license to
11 KPN's 2G, 3G, and 4G patents, including a demand for royalties based
12 on the selling price of end-products that cost orders of magnitude more
13 than u-blox's component products;
- 14 • Demanding u-blox pay royalties for alleged SEPs covering portions of
15 the standards not practiced by u-blox's products;
- 16 • Demanding u-blox pay royalties for expired patents or patents that will
17 expire during the course of the proposed license; and
- 18 • Demanding u-blox pay royalties for patents that KPN knew or should
19 have known were not enforceable due to its untimely disclosure of
20 their IPR to ETSI/3GPP.

21 161. KPN's wrongful conduct prevents u-blox from obtaining access to
22 alternative technologies in the Relevant Technology Markets to which u-blox is
23 entitled at FRAND rates. KPN's monopolistic conduct raises u-blox's costs and
24 threatens to reduce u-blox's ability to continue to invest in new and innovative
25 products that practice the standards. The anticompetitive injury associated with
26 KPN's unlawful monopolization also extends to consumers in the downstream
27 markets in the form of higher prices, reduced innovation, and more limited choice
28 for such standard-compliant products. Indeed, the necessary result of raising costs

1 to some competing manufacturers in the marketplace for standard-compliant
2 products and diverting resources that otherwise would have fueled additional
3 innovation is to limit consumer choices in complementary technologies and other
4 technology used in standard-compliant products.

5 162. KPN's actions injure competition by excluding alternate technologies
6 which could have been included in the standard. As a direct and proximate
7 consequence of KPN's unlawful monopolization, customers of the Relevant
8 Technology Markets and/or Input Technology Markets (e.g., implementers of the
9 standards such as u-blox and/or u-blox's customers) face higher costs for access to
10 cellular technologies necessary for the manufacture of standard-compliant products
11 than they would have paid in a competitive marketplace.

12 163. Absent KPN's wrongful conduct, which resulted in alternate
13 technologies being excluded from the relevant standards, u-blox and other
14 implementors would be able to obtain a license to access necessary technology in
15 the Relevant Technology Markets on fair, reasonable, and non-discriminatory terms.

16 164. As a result of KPN's anticompetitive breaches of its FRAND
17 obligations, including its refusal to directly license u-blox has suffered and will
18 continue to suffer injury to its business and property as alleged herein, and will
19 suffer substantial and irreparable harm if the anticompetitive conduct alleged herein
20 remains unredressed.

21 165. u-blox thus seeks an order as outlined in its Prayer for Relief, including
22 an order setting a forward-looking FRAND rate for KPN's asserted SEPs.

23 **FOURTH CAUSE OF ACTION**
24 **(Declaratory Judgment of Unenforceability of U.S. Patent No. 5,930,250)**

25 166. u-blox re-alleges and incorporates by reference the allegations set forth
26 in the foregoing paragraphs.

27 167. The Federal Circuit has found that even when a patent is otherwise
28 valid, a member of an open standard setting organization may have impliedly

1 waived its right to assert infringement claims against standard-compliant products or
2 components due to disclosure misconduct, thereby making the patent unenforceable.
3 *See Core Wireless Licensing S.A.R.L. v. Apple, Inc.*, 899 F.3d 1356 (Fed. Cir. 2018);
4 *Hynix Semiconductor Inc. v. Rambus Inc.*, 645 F.3d 1336, 1347–48 (Fed. Cir. 2011)
5 (quoting *Qualcomm Inc. v. Broadcom Corp.* (“*Qualcomm IP*”), 548 F.3d 1004, 1019
6 (Fed. Cir. 2008)). In particular, “[i]f the patentee obtained ‘an unjust advantage’ or
7 ‘an undeserved competitive advantage,’ the implied waiver doctrine may justify a
8 sanction of unenforceability of the patent at issue.” *Conversant Wireless Licensing*
9 *S.A.R.L. v. Apple, Inc.*, No. 15-cv-05008-NC, slip op., Dkt. 547, at 8 (N.D. Cal. May
10 10, 2019) (citing *Therasense*, 649 F.3d at 1292). A patent owner can obtain such an
11 unfair advantage by failing to timely disclose an essential patent that covers
12 technology proposed to a standard. *Id.*

13 168. The ’250 Patent is subject to the promises KPN made and obligations
14 KPN assumed when KPN included the ’250 Patent in its IPR declaration to ETSI.

15 169. There is a dispute between the parties concerning whether certain
16 u-blox products infringe one or more claims of the ’250 Patent. KPN has asserted
17 that u-blox products infringe one or more of the ’250 Patent claims by virtue of
18 practicing the 3G UMTS standard.

19 170. The ’250 Patent is unenforceable due to KPN’s disclosure misconduct.
20 Namely, KPN had a duty to disclose to ETSI and/or 3GPP its IPR prior to the
21 standard being adopted. KPN breached this duty by delaying for 15 years from the
22 time the technical specification that purportedly incorporates the claimed technology
23 of the ’250 Patent (TS 23.140 v.3.0.1) was published on March 15, 2000 before
24 declaring the ’250 Patent to be essential in the IPR declaration KPN submitted to
25 ETSI on April 27, 2015.

26 171. In view of the foregoing, u-blox is entitled to a declaration of the Court
27 that the ’250 Patent is unenforceable.

28 ///

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

FIFTH CAUSE OF ACTION
(Declaratory Judgment of Unenforceability of U.S. Patent No. 9,014,667)

172. u-blox re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs.

173. The '667 Patent is subject to the promises KPN made and obligations KPN assumed when KPN included the '667 Patent in its IPR declaration to ETSI.

174. There is a dispute between the parties concerning whether certain u-blox products infringe one or more claims of the '667 Patent. KPN has asserted that u-blox products infringe one or more of the '667 Patent claims by virtue of practicing the 3G UMTS standard.

175. The '667 Patent is unenforceable due to KPN's disclosure misconduct. Namely, KPN had a duty to disclose to ETSI and/or 3GPP its allegedly patented technology prior to the standard being adopted. KPN breached this duty by delaying for eight years from the time the technical specifications that purportedly incorporate the claimed technology of the '667 Patent (TS 22.368 v.10.4.0, TS 23.060 v.10.3.0, and TS 24.008 v.10.2.0) were published between March 28, 2011 and April 7, 2011, before declaring the '667 Patent to be essential in the IPR declaration KPN submitted to ETSI on February 11, 2019.

176. In view of the foregoing, u-blox is entitled to a declaration of the Court that the '667 Patent is unenforceable.

PRAYER FOR RELIEF

WHEREFORE, u-blox prays for relief as follows:

A. Adjudge and decree that KPN is liable for breach of its contractual commitments to ETSI;

B. Adjudge and decree that KPN has not offered u-blox a license to its 2G, 3G, and/or 4G SEPs under fair and reasonable rates, with fair and reasonable terms and conditions that are demonstrably free of any unfair discrimination;

C. Adjudge, set, and decree the forward-looking FRAND terms and

1 conditions that u-blox is entitled to for a license to KPN’s 2G, 3G, and/or 4G SEPs
2 and impose those forward-looking FRAND terms and conditions on the parties;

3 D. Enjoin KPN from demanding excessive royalties from u-blox that are
4 not consistent with KPN’s FRAND obligations;

5 E. Adjudge and decree that u-blox is entitled to a forward-looking license
6 from KPN for any and all patents that KPN deems “essential” and/or has declared
7 potentially “essential” to the 2G, 3G, and/or 4G standards under reasonable rates,
8 with reasonable terms and conditions that are demonstrably free of any unfair
9 discrimination;

10 F. Enjoin KPN from enforcing its 2G, 3G, and/or 4G SEPs against u-blox
11 and/or any of its downstream manufacturers or customers;

12 G. Adjudge and decree that KPN has violated Section 2 of the Sherman
13 Act and enjoin KPN from further violations of that statute;

14 H. That all patents owned or acquired by KPN in violation of the Sherman
15 Act be declared unenforceable;

16 I. Adjudge and decree that the ’250 Patent is unenforceable;

17 J. Adjudge and decree that the ’667 Patent is unenforceable;

18 K. Enter a judgment awarding u-blox its expenses, costs, and attorneys’
19 fees with interest, under applicable laws;

20 L. Declare this case exceptional under Section 285 and award u-blox its
21 attorneys’ fees and costs with pre- and post-judgment interest;

22 M. For such other and further relief as the Court deems just and proper.
23
24
25
26
27
28

1 Dated: July 2, 2021

2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

SHEPPARD, MULLIN, RICHTER & HAMPTON LLP

By /s/ Stephen S. Korniczky
STEPHEN S. KORNICZKY
MARTIN R. BADER
MICHAEL W. SCARBOROUGH
ERICKA J. SCHULZ
MONA SOLOUKI

Attorneys for Plaintiffs