## **EXHIBIT 1**

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(WLS) business, which became known as IMC.

- I am informed that in the above-named lawsuit, Samsung or Apple may wish to use Intel 2. confidential information, including source code and documents. In particular, I am informed that Samsung and Apple may refer to exhibits that include IMC firmware in the presentation of their case. IMC's firmware is a type of software that is designed to control the operation of IMC's modem hardware and to implement various protocol functions in the modem. IMC does not typically provide the source code for its firmware to customers but instead provides it only in binary executable form. IMC maintains its firmware source-code on internal servers and implements network access security measures to prevent unauthorized access to this code.
- IMC's firmware is extremely valuable to Intel because it represents a significant investment and contains numerous trade secrets that provide a competitive advantage to Intel. Purchasers of integrated circuits for mobile devices expect the manufacturer to provide firmware and other software with the integrated circuits. Intel would be seriously harmed if potential competitors could shortcut their development efforts by copying Intel's source code.
- IMC's firmware also provides it with a competitive advantage. The 3GPP standards, which are publicly available, generally describe how mobile devices behave when interoperating with a wireless network. But the standards do not always specify how that behavior must be implemented; so each manufacturer generally creates a unique implementation using its trade secrets to optimize certain performance aspects. For example, a firmware implementation could optimize speed over power consumption, or vice-versa. Given the numerous trade secrets embedded in IMC's firmware, public disclosure of IMC's firmware would permit competitors to copy it, along with the key features that give Intel a competitive advantage.
- Intel does not disclose the design of its firmware to its customers or the public. While Intel provides some technical documentation to its customers, these documents are disclosed only after the customer has signed a non-disclosure agreement (NDA). In addition, the type of documentation that Intel provides to its customers discloses only enough information to configure and use the Intel products. It does not detail the firmware or circuitry implementation.
- I have knowledge of three documents that were provided by Intel in this case. One

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document is entitled "X-GOLD 61x Product Specification" (593DOC002961-593DOC004487 and 750DOC001172-2698). The X-GOLD 61x Product Specification contains detailed descriptions of hardware and software components of Intel's X-GOLD 61x product. I also have knowledge of a document entitled "UMTS RLC Detailed Design Description" (750DOC000698-872). This document describes the detailed structure of the IMC firmware that implements the UMTS Radio Link Control (URLC) functions in IMC's products. I also have knowledge of a set of slides (750DOC001008 - 1017) prepared by IMC system engineers that describes the principles behind the design of the scrambling code generators used in some IMC modem products. These documents are intended for internal use by Intel and contain confidential and competitively-sensitive Intel trade secrets.

- IMC's product development process can be classified into two phases. First, IMC system 7. engineers develop a detailed system design that describes how each function of the product will be implemented in hardware and software components. This model is tested and when the system engineers are satisfied with the performance of their system design it is set out in complete detail in a document such as the X-GOLD 61x Product Specification. The Product Specification document describes the various hardware and software modules that make up the system, specifies the algorithms used by each module and may address other implementation aspects of a module when these might impact system performance. The X-GOLD 61x Product Specification contains over 1500 pages of such detail. In the second phase of IMC's development process, IMC engineers design the hardware and software to implement the details of the system design, which may include writing hardware descriptor language (HDL) code to implement the modem hardware or source code for the system software.
- The system design sets the primary performance characteristics of a product and is an important factor in the success of the resulting product. Disclosure of the Product Specification or documents like the scrambling code generator slides to Intel's competitors or the public would be extremely damaging to Intel. Disclosure would enable competitors to identify and copy the unique and advantageous features of IMC's system design for the X-GOLD 61x or permit a competitor to build a copycat product based on Intel's trade secrets. These documents are

designed primarily for use internally at Intel, and distribution outside the company is restricted.

When aspects of the detailed system design for IMC's modems need to be shared with a

When aspects of the detailed system design for five 5 modellis need to 5 march with 5

customer, Intel requires the customer to enter into a Non Disclosure Agreement (NDA) to protect

the information revealed.

- 9. The UMTS RLC Detailed Design Description describes IMC's proprietary URLC firmware design in detail. It identifies the functional modules of the URLC firmware, describes how these modules interact with each other, and documents each of the individual functions. For example the Design Description identifies the inputs and outputs to each function in the URLC firmware and describes what the function does, the data structures used by the function, and any messages passed by the function.
- 10. Intel does not usually provide the UMTS RLC Detailed Design Description to its customers because Intel customers do not usually need to interact with the URLC firmware. The URLC Detailed Design Description contains the sort of information about both the system level design of the URLC firmware and the detailed information about parameters and data structures used by the URLC firmware that a software engineer might extract from review of the source code itself. If the URLC Detailed Design Description were available to Intel's competitors, they would be able to duplicate the URLC firmware and the numerous trade secrets it contains.
- In the process of delivering products, IMC takes steps to secure its own firmware binaries. IMC only delivers precompiled firmware binaries and header files necessary to most of its customers. The precompiled firmware binaries are embedded into the modem software image before they are delivered as a release to the customers. Most of IMC's customers cannot modify or recreate the firmware binaries themselves. IMC employs network security measures to prevent unauthorized access to the computer systems where the source code is stored. When IMC needs to share portions of its firmware source code with a customer, IMC provides the source code only after the customer signs an NDA protecting the confidentiality of the source code.