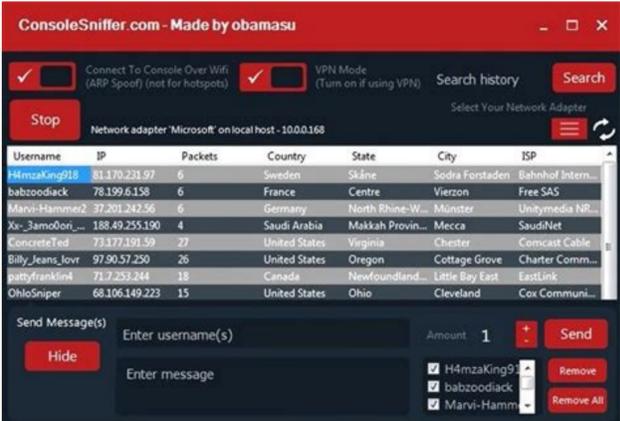


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Google developed its Android smartphone software without using Sun's intellectual property and its use of Java in Android was "legally correct," Google's executive chairman, Eric Schmidt, testified in court Tuesday. Schmidt was on the stand for day seven of the jury trial between Oracle and Google. Oracle wrapped up the copyright portion of its arguments Tuesday, allowing Google to begin its defense. Oracle accuses Google of infringing its Java patents and copyrights in Google's Android software. Google says it did nothing wrong, and used only the parts of Java that Sun made freely available to anyone. Before joining Google, Schmidt was CTO of Sun Microsystems when he invented Java in the 1990s. Oracle bought Sun about two years ago, giving it the patents and copyrights to the Java platform. Schmidt gave the jury a brief history of Java, describing its release as "an almost religious moment." He told the jury that Google had once hoped to partner with Sun to develop Android using Java, but that negotiations broke off because Google wanted Android to be open source, and Sun was unwilling to give up that much control over Java. Instead, Schmidt said, Google created a "clean room" version of Java that didn't use Sun's protected code. Its engineers invented "a completely different approach" to the way Java worked internally, Schmidt testified. "It did not use Sun's intellectual property, as I was told," he said. "I was very comfortable that what we were doing was legally correct," he testified later. One of Google's arguments in the case is that Sun knew Google was using Java in Android but never complained or asked it to sign a license. That gave Google an "implied license" for Java, if it needed one at all, according to Google's lawyers. Schmidt said he used to "meet and chat" with former Sun CEO Jonathan Schwartz every six months, and that Schwartz never raised an issue with Google's Java use. Under cross-examination from David Boies, an attorney for Oracle, Schmidt said one of his meetings with Schwartz was in the cafeteria at Sun's offices in Menlo Park, California. "When did this recollection of a Menlo Park meeting come to you?" Boies wanted to know. "I'm not sure," said Schmidt. Boies read from deposition testimony Schmidt gave before the trial began. In it, Schmidt says he doesn't remember the specifics of his conversations with Schwartz, but that he thought they took place in Schwartz's office and over the phone. On the stand, Schmidt said he stood by his earlier testimony. A key question in the case is whether the APIs (application programming interfaces) in Java can be copyrighted. Google argues they can't because they are an essential part of the Java programming language, which both sides agree is freely available for use. "The Java language is not useful without the ability to make something happen, and what the API does is allow you to make something happen," Schmidt told the jury. Oracle says the APIs are complex creative works, like the blueprints for a house. "Did anyone at Sun call the APIs 'blueprints?'" Google's lawyer asked Schmidt. Schmidt said they did not. Earlier in the day, Oracle finished its questioning of Andy Rubin, the head of Google's Android division. Boies wanted Rubin to admit that Google knew Sun was concerned about the fragmentation of Java. The answer could affect any damages awarded to Oracle, and Rubin seemed determined not to give Boies the answer he wanted. He said several times that he didn't know how Sun defined "fragmentation." The normally calm and measured Boies grew exasperated, at one point raising his voice. "Did you ever ask what people meant when they talked about fragmentation?" Boies asked. "No," said Rubin. "The reason you didn't ask is because you knew perfectly well what fragmentation meant, didn't you sir?" Boies said pointedly. The trial is divided into three phases, to address copyrights, patents and damages. Oracle is seeking about US\$1 billion in damages, as well as an injunction that could force Google to change the way it built Android. The trial, at the U.S. District Court in San Francisco, is expected to last about eight weeks. It has already seen Oracle CEO Larry Ellison and Google CEO Larry Page give testimony. James Niccolai covers data centers and general technology news for IDG News Service. Follow James on Twitter at @jniccolai. James's e-mail address is james_niccolai@idg.com. In Windows search bar, enter cmd. In Command Prompt, enter ipconfig/all. Mac: cmd + space > terminal. Ping for IP address. On Android: Settings > Network & internet > Wi-Fi. Press connected Wi-Fi > Modify network > Advanced options > Static. Configure network settings with Gateway IP and DNS address found in Command Prompt, and with IP address found during Ping. This article explains how to switch your Android (9.0 and up) to a static IP address on your network. The directions below should apply in general, no matter who made your Android device: Samsung, Google, Huawei, Xiaomi, etc. Before you can set up your Android with a static IP, you'll need to find an available IP address on your network. You can do this from any computer that's connected to your home network. On a Windows PC: Click the Start menu. Type cmd and click on the Command Prompt desktop app. In the command prompt window, type the command ipconfig/all and press Enter. You'll see lots of information in the results, but you only need to be concerned with a few items. Default Gateway: This is the IP address of your home router and is typically the lowest IP address on the network. In the example above, this IP address is 10.0.0.1. IPv4 Address: This is the IP address of the device from which you've run the command. In the example above, this IP address is 10.0.0.158. DNS Servers: These are the servers your internet service provider (ISP) uses to look up domain names when you browse the internet. You can find a free IP address on your network by typing a ping command starting from the router IP and working your way up. If you see a response with ping time, it means there's a device on the network with that IP address. If the response reads "Destination host unreachable," it means that IP address is available. To perform the same ipconfig and ping commands on a Mac, open the terminal by pressing cmd + space and typing "terminal". In the Mac terminal, you can issue the same commands as described above. Now that you know what IP you can set your phone to, it's time to switch your phone from DHCP to a static IP. Open Settings, under Network & internet, tap on Wi-Fi. Press and hold on the connected Wi-Fi network. You'll see a menu pop-up. Tap Modify network. Depending on your device's Android implementation, you may have to "Forget" the connected network before the press-and-hold trick will work. As an added step moving forward, re-enter the network password alongside the IP address changes. You'll see the password change screen for that network. Tap Advanced options, and scroll down to the IP settings section. Tap DHCP and change the setting to Static. Once you've changed the IP Setting to Static, a form will appear that will allow you to manually configure all of your Android's network settings, including your Android's IP. Since your IP will be static, you'll need to manually configure the rest of the network settings in this form as well. IP Address: The available IP address you discovered using the Ping command. Gateway: Enter the default Gateway IP address you recorded above. DNS 1 and DNS 2: Type the IP addresses of the DNS servers you recorded above. You can leave any other fields in this form set as default. When you're done changing the IP settings, tap Save. Your Android will reconnect to your home network with its new IP. Now you can configure any software you're using to connect to your Android using its new, static IP address. Your Android phone will retain this static IP even after a reboot. If you want to undo the static IP and set your Android back to DHCP, just follow the steps above, but in the Advanced Options menu, set the IP Settings option back to DHCP. Changing your IP address on your Android is simple. There is a buried setting in your Android device that lets you switch from a dynamic IP (DHCP) to a static one. However, there are several things you should do beforehand to make sure that you're choosing an available static IP address on your network. There are plenty of important reasons you may need to set a static IP on your phone that doesn't change. A few of the most common reasons include: Running a mobile web server. Sharing mobile files with FTP server software. Using your phone as a Wi-Fi camera. Running a mobile media server on your phone. All of these uses require your mobile phone to have a fixed IP that you can easily configure in 3rd party software running on your computer or any other device on your network. Thanks for letting us know! Get the Latest Tech News Delivered Every Day. Subscribe Tell us why! Opinions expressed by Entrepreneur contributors are their own. Paul Korzeniewski IP networks are ubiquitous. They move information in corporations, transmit data to mobile executives, and support telecommuters. One of the last bastions of proprietary networks has been intelligent building systems and devices, but it appears that IP is now ready to break into that area as well. While networks have been used to automate many types of devices, their prices have been too high for certain markets, such as sensors for lights, temperature controls, actuators, security systems, and appliances. These devices have been largely controlled by proprietary devices and networks, which have been difficult to deploy and support. A consortium of suppliers, the IP for Smart Objects (IPSO) Alliance, wants to change that. The organization plans to use IP to collect and move information from sensors, actuator-equipped devices, and intelligent appliances. The consortium has been trying to align its work with that done by the Internet Engineering Task Force and the Institute of Electrical and Electronics Engineers (IEEE). Adding more intelligence to industrial devices would enable vendors to develop sophisticated applications, such as end-to-end utility metering, integrated home and building automation, industrial systems, asset tracking, "smart cities," and "smart grids." The idea sounds appealing. By going with an IP alternative, companies would be able to move data from industrial networks to corporate networks. Also, maintenance challenges should diminish because network technicians would work with familiar IP-based network management tools rather than be forced to develop new skill sets. Because of the benefits, the IPSO Alliance has gained support from more than two dozen companies. Noteworthy backers include Arch Rock, Cisco, Emerson, Freescale, SAP, and Sun Microsystems. In addition, end users, such as Duke Energy, have decided to lend a hand to the work. While it has appealing attributes, the initiative faces some challenges, starting with a couple of alternate networking options, most notably ZigBee. This networking approach is based on the IEEE's 802.14.5 standard and supports wireless networks where a network coordinator (or master device) collects information from up to 65,000 remote devices. ZigBee was not built to work with computers but instead with simple home and industrial devices, some so simple that they consist of a network connection, a very unsophisticated CPU, and a pair of AAA batteries. ZigBee's focus has been on supporting home area network (HAN) functions, such as controlling light switches, smoke detectors, thermostats, appliances, video and audio systems, sprinkler systems, and security products. ZigBee has been a standard since 2002 and is now moving toward large deployments while IPSO is still in the development stage. One area where ZigBee has been gaining traction is advanced metering infrastructure. Energy companies have used wireless technology to push intelligence down to the poles outside of customers' homes and businesses. ZigBee has the potential to extend their reach into the home. The ZigBee Alliance is an ad hoc association of vendors working together to further that goal. The group developed the Smart Energy public application profile, which outlines a common set of energy management functions and protocols, so different suppliers' devices can interoperate. In May, the consortium announced that 19 products had been certified as Smart Energy compliant. Also, Southern California Edison announced plans to deploy Itron ZigBee meters to automate energy management for 5.3 million homes and businesses from 2009 through 2012. Dallas utility Oncor Electric Delivery Co. plans to use Landis+Gyr Holdings smart meters to upgrade service for 7 million customers during the next four years. Partly because of such public support, market research firm WTRS expects shipments of ZigBee meters to increase from 500,000 in 2008 to 19 million in 2012 worldwide. At this stage, the IPSO Alliance's work is more promise than reality. It hopes to have an interoperability program in place by November. The earliest deployments may start in 2009, and large rollouts could be a couple of years away. One other standard has been vying for attention. Nokia has pushed its Wibree technology into the HAN marketplace. Wibree is an extension to the popular Bluetooth technology, one tweaked so it requires less energy and is better able to process data intermittently rather than continuously. It too is in an early stage of development. Now that talk about pushing networking technology down to dumb devices is turning to reality, it raises the question, "Is there anywhere else to drive IP?" Paul Korzeniewski is a Sudbury, Mass.-based freelance writer who has been writing about networking issues for two decades. His work has appeared in Business 2.0, Entrepreneur, Investor's Business Daily, Newsweek, and InformationWeek.

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