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Imei di android device manager

The path between the operating system and virtually all hardware not on the computer's motherboard goes through a special program called a driver. Much of a driver's function is to be the translator between the electrical signals of the hardware subsystems and the high-level programming languages of the operating system and application programs. Drivers take data that the operating system has defined as a file and translate them into streams of bits placed in specific locations on storage devices, or a series of laser pulses in a printer.Because there are such wide differences in the hardware, there are differences in the way that the driver programs function. Most run when the device is required, and function much the same as any other process. The operating system will frequently assign high-priority blocks to drivers so that the hardware resource can be released and readied for further use as quickly as possible.One reason that drivers are separate from the operating system is so that new functions can be added to the driver -- and thus to the hardware subsystems -- without requiring the operating system itself to be modified, recompiled and redistributed. Through the development of new hardware device drivers, development often performed or paid for by the manufacturer of the subsystems rather than the publisher of the operating system, input/output capabilities of the overall system can be greatly enhanced.Managing input and output is largely a matter of managing queues and buffers, special storage facilities that take a stream of bits from a device, perhaps a keyboard or a serial port, hold those bits, and release them to the CPU at a rate with which the CPU can cope. This function is especially important when a number of processes are running and taking up processor time. The operating system will instruct a buffer to continue taking input from the device, but to stop sending data to the CPU while the process using the input is suspended. Then, when the process requiring input is made active once again, the operating system will command the buffer to send data. This process allows a keyboard or a modem to deal with external users or computers at a high speed even though there are times when the CPU can't use input from those sources.Managing all the resources of the computer system is a large part of the operating system's function and, in the case of real-time operating systems, may be virtually all the functionality required. For other operating systems, though, providing a relatively simple, consistent way for applications and humans to use the power of the hardware is a crucial part of their reason for existing. The IMEI (International Mobile Equipment Identity) number is a unique set of 15 digits used on GSM phones to identify them. Because the SIM card is associated with the user and can be swapped from phone to phone, a method is needed to keep track of the hardware itself, and that's why the IMEI was developed. Math nerds will enjoy the way they are calculated -- the first 14 digits are decided by the GSM association, and the final check digit is computed using what's called the Luhn Formula -- crazy base-8 math that mere mortals like most of us don't understand, nor want to understand. You can see the IMEI of your Android phone by looking in settings > About phone if you're curious. (Or on the box if you still have it. Or under the battery or on the phone itself. What is this number used for? That's the real question, isn't it. Like the MEID number on CDMA phones (think Sprint and Verizon), the IMEI is used for network control. It's not very common, but your mobile operator can block a phone based on it's IMEI in cases where it's been reported stolen or someone didn't pay the bill. Because it's not easy to change the IMEI of your phone (and maybe even illegal -- check your local laws) it's also used to keep track of phones that were involved in criminal activity, and the UK in particular has a handy database of phones used for these purposes. The IMEI number is also used to specify a phone for wiretapping by federal governments worldwide. On a lighter note, Android apps can also use your IMEI number. The app will declare that it has access to your personal information, and the IMEI can be used to keep track of the device in a remote database. This sounds pretty scary, but it's an easy way (though not necessarily the best way) for app developers to keep a settings database online for your phone, in their app. Let's say you mark a bunch of favorites in a wallpaper app. Those favorites are kept in a small database file online, and when you reconnect to the app it reads your IMEI number to find your preferences. Not an ideal method, but it's easy. One last thing -- now that we know a little more about IMEI numbers, they will soon be changing to IMEISV numbers. The use-case scenarios are the same, but the data structure and method of calculation is different. An IMEISV gets rid of the check digit (and its complicated Luhn formulated calculation) in favor of two digits used for software version numbering. Like everything else in the mobile space, network identification changes rapidly. Check out the complete Android Dictionary [block:views:article_list_erspoke-block_13]

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