TECHNOLOGY

Bluetooth Leaves Cellphones Exposed

By JEREMY WAGSTAFF

If you spot someone tailgating you on the road or standing next to you wearing a backpack, then watch out: You may have been snarfed. All the data on your cell-phone, including addresses, calendars, whom you called and who called you, may now be in that person's computer.

Many cellphones use Bluetooth technology, which allows them to communicate wirelessly with other Bluetooth-equipped devices—computers, personal digital assistants and other cellphones. This means you don't need a cable, for example, to synchronize the address books on your laptop and your cellphone. It's convenient, but that makes it possible for someone to steal your data, or even hijack-your cellphone for their own purposes.

Last year, London-based security consultant AI. Digital spotted flaws in the way some Bluetooth cellphones swapped data with one another—flaws which could be used to gain unauthorized access to everything stored on that phone without the user ever knowing. AI. Digital's Adam Laurie, who discovered the problem, shared his findings with cellphone manufacturers and with the public (leaving out the detail which might allow ne'er-de-wells to copy his experiments at street level). He termed the trick Bluesnarfing.

Not a lot has happened since then.

Nokia Corp., the market leader in the celiphone industry, acknowledges, the law but says in an e-mail response to questions that it is "not aware of and attacks against a state of a stack and a state of the st

But these attacks are nevertheless possible. Mr. Laurie cites a scenario in which paparazzi could steal celebrity data. He says he was able, with permission, to swarf from a timed sphone details of her company's shops, door codes and safe combinations. "There's any number of angles you can look at, and they are all had as far as I can see." he stan see."

Martin Herfurt, a 2T-year-old German student at Salzburg's Research Forschungsgesellschaft mbH, last month set up a laptop at a technology trade fair in Hannover, Germany, and ran a snarf attack. He found nearly 100 cellphones from which he could have stolen data, sent text messages or even made calls. He has published his findings to prove that this kind of thing can be done easily.

How does it work? The attacker can use a Bluetooth-enabled laptop to discover other Bluetooth gadgets within range. Anything with Bluetooth activated and set to "discoverable" will show up, usually identified by its default device name. Being "discoverable" means your gadget is visible to anyone searching, but even if it isn't, an attacker can still find it, using software freely available on the Internet. The attacker can then use more software

to take, delete, change or add data.

So what's a consumer to do? Turn off Bluetooth on your phone unless you really need it to communicate with your other gadgets. In most cases, phones that have Bluetooth will have prominently displayed the fact on the box the phone came in, or you can expect to find "Bluetooth" in the index of your phone's manual. Otherwise, the Bluetooth settings can usually be found in the "Communications" or "Connections" menu on your phone. If you do find something called "Bluetooth," there will also be an option for switching it off. If you're still not 100% sure, take it to a store and have them do it for you.

More importantly, there shouldn't be anything on your phone that you don't want someone else to have. Whether the attack is via a high-tech wireless method from across the station platform, or the more common grab-a-handbag-and-run method, you'll feel happier if they didn't get hold of the good stuff.

Journal Link: WSJ.com subscribers can read Jeremy Wagstaff's weekly Loose Wire technology column at WSJ.com/JournalLinks.

Advance

Santa Clara, Co

By Don Clark

OMPANIES in Silicon Vall say their technology is se Hsun Huang, chief exec Nvidia Corp. here, is showing o thing that really is. It is a computer-generated in

It is a computer-generated I named Nalu, with a cloud of golder that realistically seem to reflect light and flow with the water. It rosy, unusually lifelike skin, and splaying generous quantities of infirtatious wiggle.

More than 3,000 kilometers as suburb of Toronto, executives at rival ATI Technologies Inc. are preparing a coming-out party for Ruby, another computerized creation who also has a skin texture unusually detailed for a videogame character, along with a shock of red hair and neumatic

chest. The two characters are unlikely soldiers in a fast-moving technology battle helping to shape the evolution of digital entertainment. Nvidia and ATI, the two leading providers of chips that control graphics on personal computers and other gadgets, developed the animated figures to demonstrate the power of the improved technology each company is unveiling this month. The re animation increases as image greater number of geometric blocks, called polygons, to crea Nalu is composed of 300,000

Ruby has 80,000-both far in

THE MART