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Page 2 of 3

phone is back on the hook, causing the recorder to shut off. Blaze played a demonstration tape in which the participants were able to continue a conversation after the police equipment had "hung up." The same technique can be used to block police equipment from recording the number being dialed and to inject a phony number later.

The 1996 Communications Assistance for Law Enforcement Act required vendors to include a wiretap interface in telephone switching equipment, which would theoretically thwart these tricks. But most vendors made their switches backward compatible to work with legacy loop extender equipment that police continue to use. This reintroduced the same vulnerabilities when using a CALEA interface.

This is an object lesson for software developers, Blaze said.

"We have to [be] careful about how backward compatibility can mean compatibility with old bugs," he said.

Blaze said there is no concrete evidence that these techniques have been used to thwart legitimate wiretaps. But he said court records show that anomalies in recorded conversations often are accepted as inevitable by police and the courts, leaving open the question of how trustworthy those recordings are.

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