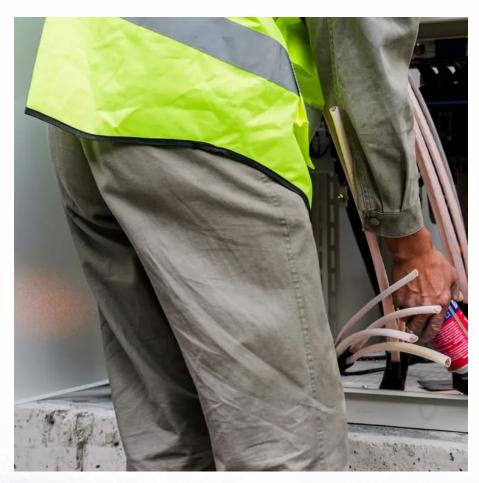


# Fake base station communication process







#### **Fake base station communication process**



## This paper has been accepted to appear at USENIX Security '2

ecurity threat by impersonating legitimate base stations (BSes). Though efforts have been made to defeat this threat, up to this day, the presence of FBSes and the multi-step attacks (MSAs) ...

#### Gotta Detect 'Em All: Fake Base Station and Multi-Step ...

Fake base stations (FBSes) pose a significant security threat by impersonating legitimate base stations (BSes). Though efforts have been made to defeat this threat, up to this day, the ...



### <u>Fake Base Station Detection and Link Routing Defense</u>

We varied the base station implementation to simulate legitimate vs. faulty but legitimate vs. fake and malicious base stations, where a faulty base station notifies the user of the connectivity



#### <u>Detection</u>, <u>Analysis</u>, <u>and Interpretation of Fake</u> <u>Base Stations</u> ...

Fake base stations imitate legitimate cellular networks to trick mobile devices into connecting to them. Since devices automatically prefer the



strongest signal, this redirection is ...



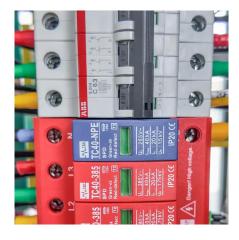
### Base Station Certificate and Multi-Factor Authentication for ...

Abstract--Current cellular networking remains vulnerable to malicious fake base stations due to the lack of base station authentication mechanism or even a key to enable authentication. We ...



#### Base Station Certificate and Multi-Factor Authentication for ...

We design and build a base station certificate (certifying the base station's public key and location) and a multi-factor authentication (making use of the certificate and the information ...



## <u>Fake Base Stations Detected in Tokyo and Osaka, Expert Warns ...</u>

These fake base stations can disrupt legitimate communications and pose a significant threat to users. According to IT journalist Tomoko Suzuki, "These fake base stations are being used by ...





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