

IEEE CQR

Security of Small Cells and SC Networks

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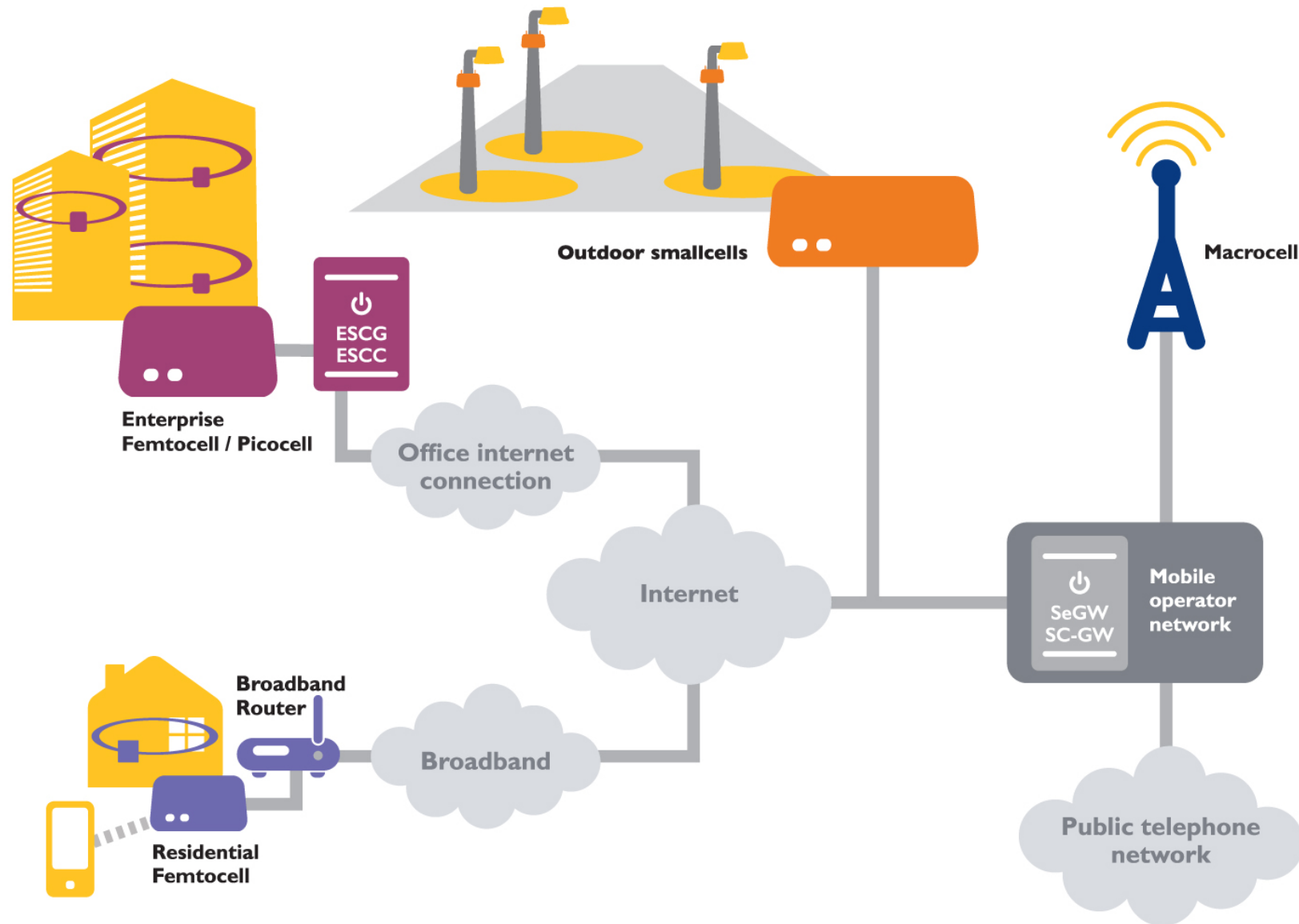
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May 15, 2014

Name That Person: Who is on the green?



Small Cell Architectures : Security Risk



Femtocells [h(e)NBs] have become a target to the research / hacker community

- Easy to put on a bench and tear apart.
- Caused some news – even though the reporting didn't get much correct
- **Hackers turn signal booster into a *mobile hacking* ...**thehackernews.com/2013/07/hackers-turn-xxxx-signal-booster.html **by Mohit Kumar - in 12,255 Google+ circles**
 - Jul 15, 2013 - Hackers turn signal booster into a *mobile hacking* machine : The ... a cell phone tower *small* enough to fit inside a backpack capable of ...
- **[RCR Wireless News - YouTube](#) ▶ 1:27 ▶ 1:27 www.youtube.com/watch?v... YouTube July 16, 2013 - Uploaded by RCR Wireless News**
 - ... news, security consultants have found a breach in the *small cells* used to yyyy changes upgrade ...
- Analysis of hacks generally found the devices did not follow recommended security practices, were easily mitigated, and the threat was less than the hype.
 - Typically first generation devices
- Small Cells [(e)NBs] follow same security practices as for macrocells
- Small Cell Forum publishing a Security paper based on 3GPP TR 33.820 and Best Practices. (June 2014)

- **Art King** (SpiderCloud) will discuss layered security in a modern small cell architecture that is purpose built for deployment in medium-large untrusted buildings and venues.
- **Peter Staxen** (Ericsson) will discuss the need for security in the backhaul of small cell deployments and ways to secure it today and in the near future to accommodate emerging technologies such as SDN/NFV

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