



## New Dangers Ahead

Although not only related to wireless networking, the following adds to the mix:

- Cloud based applications. Instead of being confined to the corporate network, applications are accessible from and through the internet, mobile device included, even wanted.
- Use of the company application outside of the premises perimeter. Stallings calls this de-perimeterization.
- External business requirements such as **Guest Accounts**.
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## Mobility Threats

- BYOD is en vogue.
- Lack of physical control. The device is "onwed" and controlled by the user who can take (and leave) it anywhere. Theft is also a risk.
- Use of untrusted devices.
- Use of untrusted networks, either on or off premises.
- Use of applications of unknown origin. It is (too) easy to install an App.
- Interaction with other systems. Bluetooth, QR code, RFID, all of which can be counterfeited to send out malicious urls for instance.
- Location devices such as GPS or beacons, which may provide useful information to an attacker.

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## M Device Security Strategy

- Inspection of the device should take place before it is allowed onto the corporate network.
- Rooted and jail-broken devices should not be permitted.
- Storage (even caching) of corporate contacts on the device should be prohibited.
  - A web like application for e.g. email can be made more secure then a fat app. The contacts (email lists) do not have to leave the server. The could be addresses for intra-company use only.
- Enable auto-lock and make sure a "secure" unlock code is used, like a pin-code.
- Enable password or pin protection.
- Avoid auto-complete for user name and password.
- Enable remote wipe.

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## M Device Security Strategy, cont'd

- Use SSL protection.
- Make sure device OS and apps are up to date.
- Use anti-virus (if available) and keep that up to date too.
- Prohibit saving of sensitive data or insist on encryption of the device.
- IT staff should be able to do a remote wipe.
- Disallow third part apps.
- Apply restrictions on what is allowed with cloud storage.
- Maybe disable location devices altogether.

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