

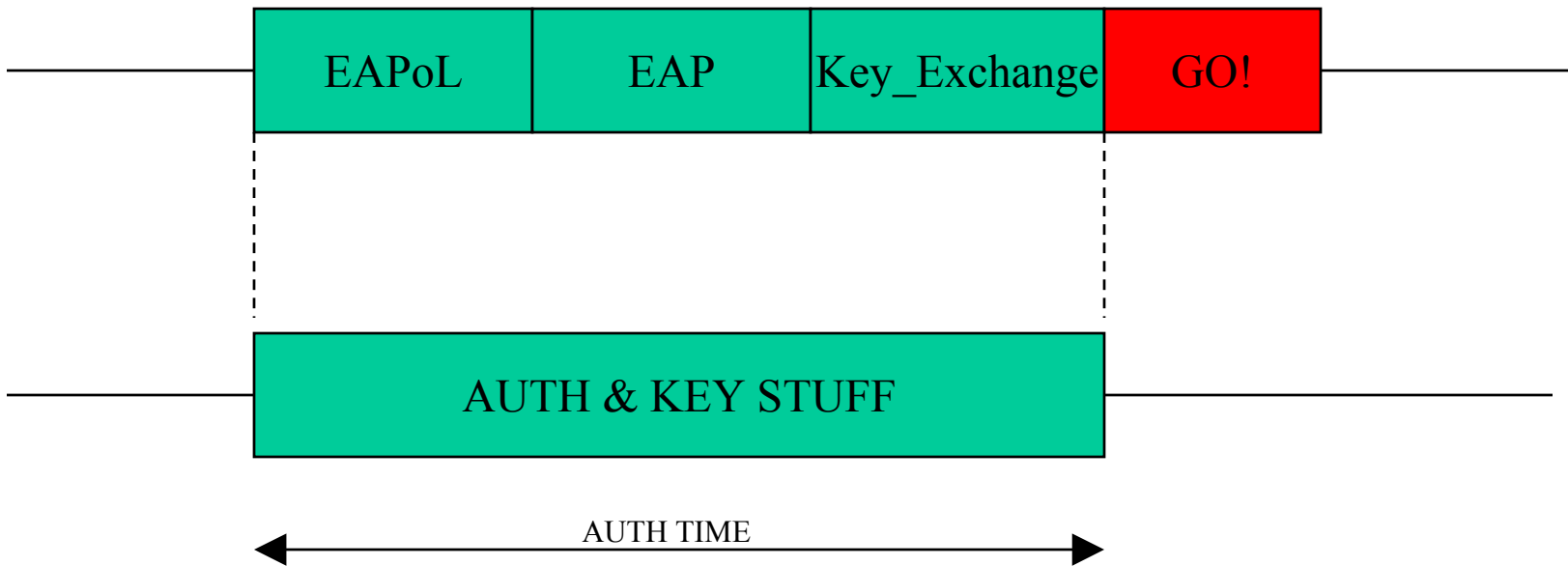
802.1X Auth Time

David Johnston

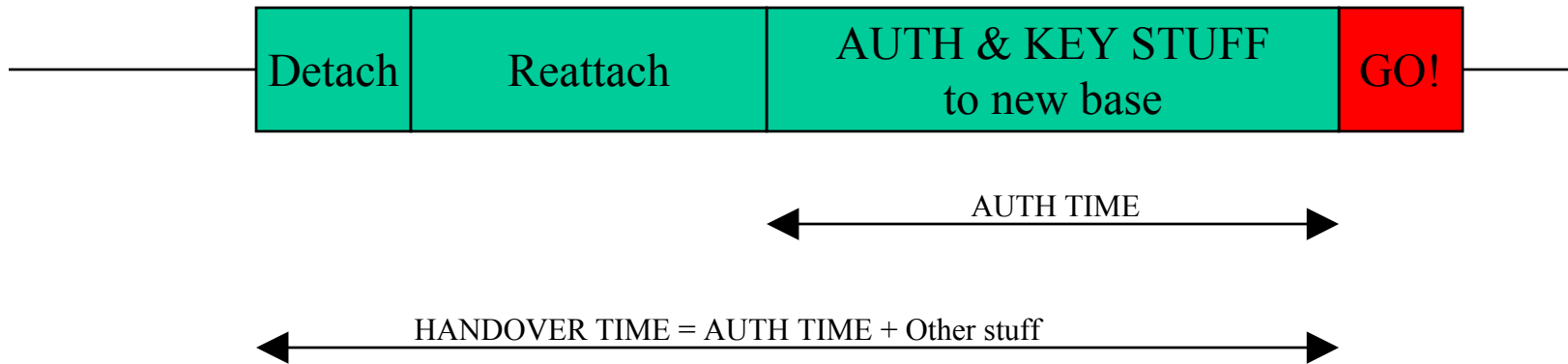
david.johnston@ieee.org

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Authenticating & Key Exchanging takes time



Time to attach affects mobility

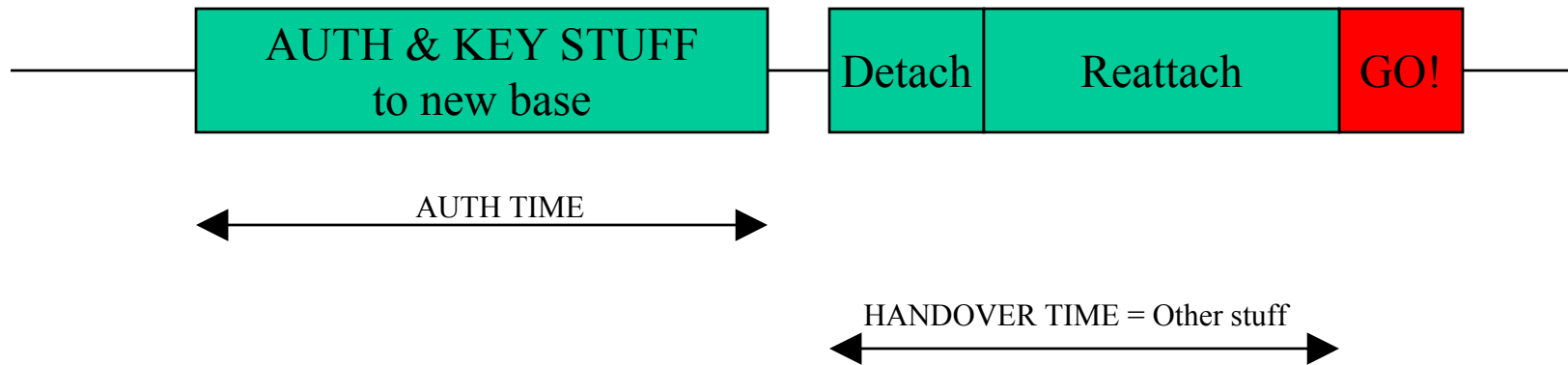


802.11i Fast Roaming Approach to speeding handover :

Reduce AUTH TIME

Preauth still in the mix

Pre Auth

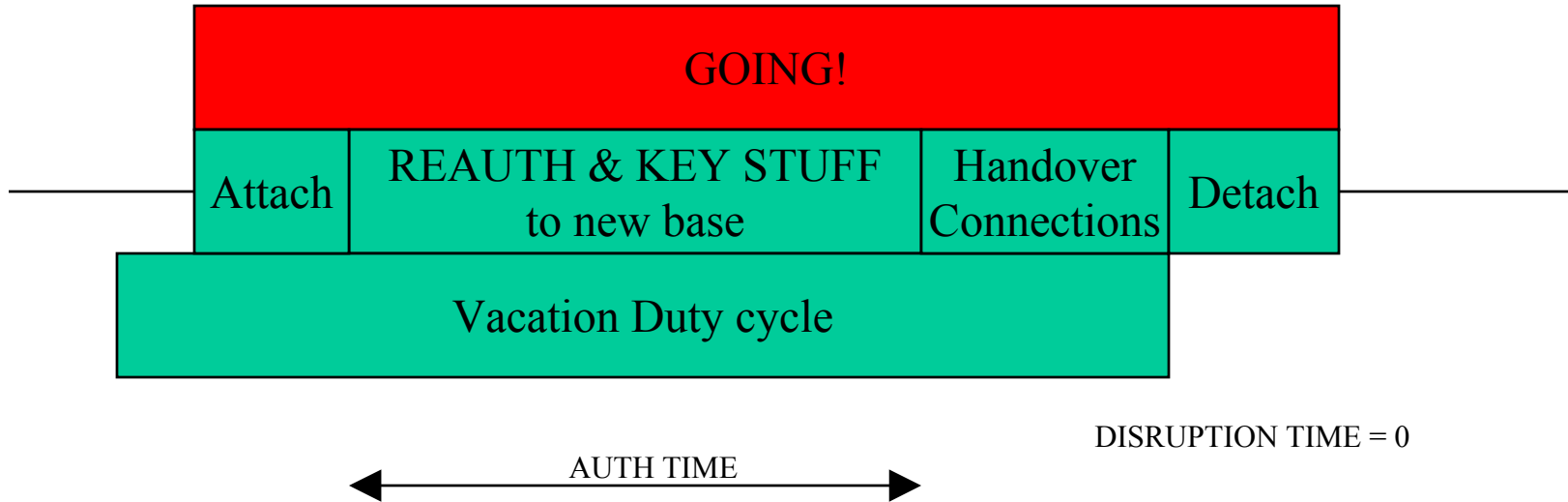


802.11-1999 Fast Roaming Approach to speeding handover :
Pre authentication

Proposed in 802.16:

Sleep on one base. Re-auth to another, handover connections

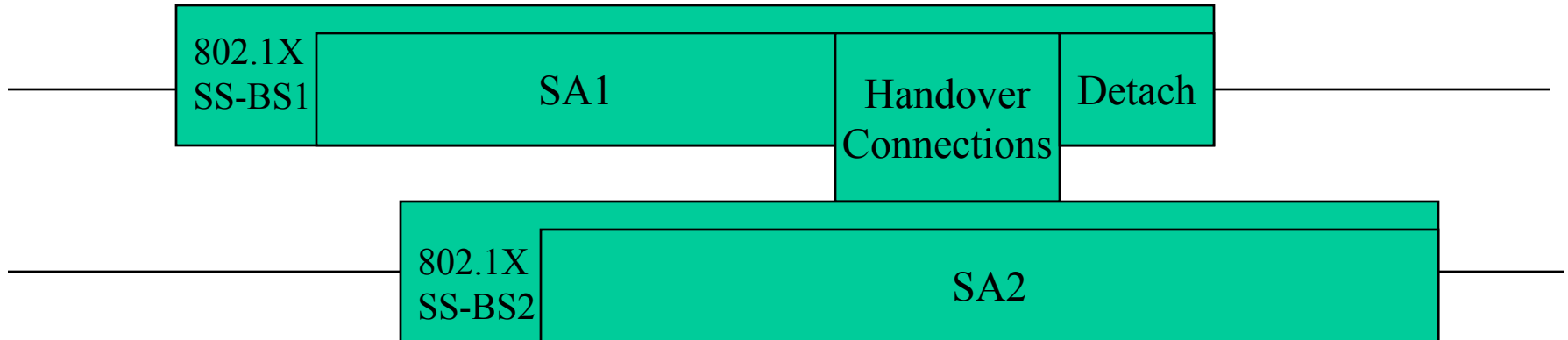
Pre Auth



802.16e and Cell phones

AUTH TIME Impacts overlapping coverage requirements

Overlapping Requirement



- How do we characterize authentication to multiple endpoints?
 - Maintaining SA1 to one place while setting up SA2 to another
 - Is it one port or two? One supplicant or two? Etc
- I'm not clear on this. Clarity would serve 802.11 and 802.16 well.