

MADINAS document
relationships

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Charter

The MADINAS Working Group will document the current RCM state of affairs by :

- (i) identifying relevant **network** and **application services scenarios** and examining the effect of RCM schemes on them;
- (ii) analyzing various **existing** identifiers (i.e., beyond the MAC address) that can be used by the network to provide seamless services, and
- (iii) identifying scenarios where device identity is not required.

The group will generate a *Best Current Practices (BCP) document recommending means to reduce the impact of RCM on the documented use cases* while ensuring that the privacy achieved with RCM is not compromised. For scenarios where device identity stability is desirable, the BCP document will recommend existing protocols that can be used to protect the request and exchange of identifiers between the client and the service provider.

Pre-Association vs Association

- (Amelia's) IEEE document brings to light the difference between MAC address used for Probe, vs MAC address used for session
 - not all chipsets can change this without a new association!
 - we need policies for both, possibly different

Document Relationships

Use Cases	RCM	BCP
Details how (static) MAC addresses have been used to provide some service X	Explains how the use of the difference policies: (PVOM, PDGM, PBGM, PNGM, PPGM, PSGM) cause success or failure of service.	Explains how a different protocol, mechanism, etc. could allow service to continue to operate.

Document Examples

Use Cases	RCM	BCP
<ul style="list-style-type: none">Airport Queue sizingGrocery store path tracking	PVOM,PDGM,PBGM,PNGM: okay PPGM: probably okay PSGM: inflated, possibly useable counts	One of PSGM, PPGM, PNGM have better privacy stances for unknown networks. For an airport queue, can device maintain same MAC for ~hour?
<ul style="list-style-type: none">Pre-Association Arrival	PVOM,PDGM,PBGM,PNGM: okay PPGM, PSGM: fails	EAP-Enterprise would provide identity within EAP session, enhancing privacy
<ul style="list-style-type: none"><u>Customer Support and Troubleshooting</u>	PVOM,PDGM,PBGM,PNGM: okay PPGM, PSGM: fails	Home Routers need to provide real-time mapping of identities to RCMs

Next Steps?

- Use case document absorbs work from IEEE?
- Pre-Association policies need to be documented
- Analysis of suggested IEEE 802 changes?