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	Eduroam @ Deakin
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	• Combined Eduroam and Deakin Wireless Network Infrastructure. • Multiple SSIDs - Deakinnet (not broadcast, legacy), DeakinSecure (WPA2), eduroam (WPA2). • RADIUS authentication via two channels. - Internal Authentication Server(s) - Eduroam National Server(s) • Requests from APs directed to appropriate Authentication channel using the format of the Username RADIUS attribute. Ie, anything matching username@deakin.edu.au coming from an AP is processed by internal channel, everything else via Eduroam channel. • RADIUS server returns the Cisco avpair "allowed_ssid", set for either DeakinSecure or eduroam depending on which Auth channel processed the response.
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	Overall Design Considerations • Need to authenticate “Managed” Windows client machines prior to user login on DeakinSecure • Allows application of Group Policy to the client. • Allows full login script run, as if connected via wire. • Allows full roaming profile. • Need to authenticate “Un-managed” client machines (Windows Mac OSX, Windows Mobile, Linux, PDA, mobile phones, etc) • Need to support Eduroam.

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	Hurdles and how we jumped them • Geographically separate Campuses • RADIUS service per campus (part of a generic comms server). • Authenticating against a local Windows Domain Controller. Built in redundancy, and enabling host authentication. • Monitoring availability of Eduroam • Round Trip test of authentication availability. Local account that can be tested via a round trip to AARNET’s NES. • Radiator RADIUS Server.

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	Hurdles yet to be jumped • What constitutes Base Eduroam access in .au? • Not set at a national level. • Each federation member doing what they think is right. Deakin only allows VPN, others allow On-Net traffic and block Off-Net. • Confusion for users, don't know what to expect or where to turn for support. A lot are contacting AARNET directly. • Getting support for organisations wanting to Federate. • AARNET can really only effectively support the National infrastructure. They have no knowledge of all of our specific cases.	

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	Proposal for an Eduroam User Group “If you find fault with something, be prepared to do something about it.”	

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DEAKIN	History • AARNET takes over Eduroam. • Work underway to document the service, set up test accounts and JIRA ticket system for support. • Service Level changes, AARNet to support National RADIUS servers (inc APAN) but not local wireless / RADIUS support. • The now infamous e-mail from the upstart outsider. • AARNet responds to SSID overlap issue with policy via CAUDIT. • AARNET seek eduroam support led by the community (as is the case in US, Europe). • Propose a Users Group and ask me to drive it. NO I AM NOT THE DEFACTO CHAIR! • A OzEconference is set up by AARNET to gauge support for the idea, and put people in contact so they can begin assisting each other in uptake of Eduroam and Federation. • A draft charter and work plan is put together.	7

		
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DEAKIN	History • Expressions of interest in a User Group received at the Ozeconference from ➤ Australian Catholic University ➤ Deakin University ➤ Charles Darwin University ➤ Flinders University ➤ Murdoch University ➤ RMIT ➤ Swinburne University ➤ University of Adelaide ➤ University of Southern Queensland	8

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		Where to from here • Eduroam User Group to be proposed at the AARNet Advisory Committee meeting. • Announcement and Presentation of the Eduroam User Group draft charter and work plan at QUESTNET. Participants wanted! • Call for nominations and election of Co-chairs to be held by end of July.

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		What will it do? • Provide a “grass-roots” support network of federated organisations to assist other organisations in the uptake of Eduroam. This is something AARNET has limited resources or expertise to provide and would prefer to facilitate via a user group. • Drive National Eduroam Policy through review of current and emerging services with recommendations. Give a technical perspective to assist AAC/CAUDIT in making Policy & Technical decisions. • Drive awareness, information dissemination and assist in monitoring the service and promote eduroam and increase deployment and usage. • Track overseas development work and contribute to the evolution of the service.

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Want to get involved?

- See www.aarnet.edu.au (new website contains eduroam info)
- Join the er-participants mailing list for news, views, and policy discussions. [<http://lists.aarnet.edu.au/mailman/listinfo/er-participants-l>]
- Join the er-tech mailing list for technical queries and support from the community. [<http://lists.aarnet.edu.au/mailman/listinfo/er-tech-l>]
- Contact Us to confirm participation in the user group
 - James.Sankar@aarnet.edu.au
 - John.Stevens@deakin.edu.au (until the co-chairs are elected)