

AERO/OMNI Autoconfiguration Services for MANET Internetworking

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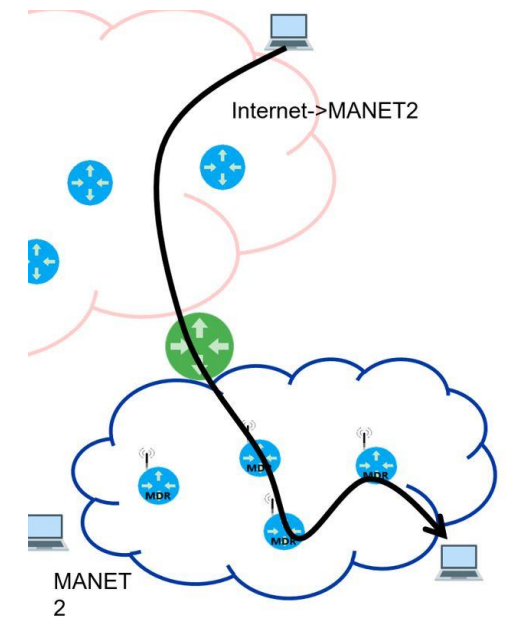
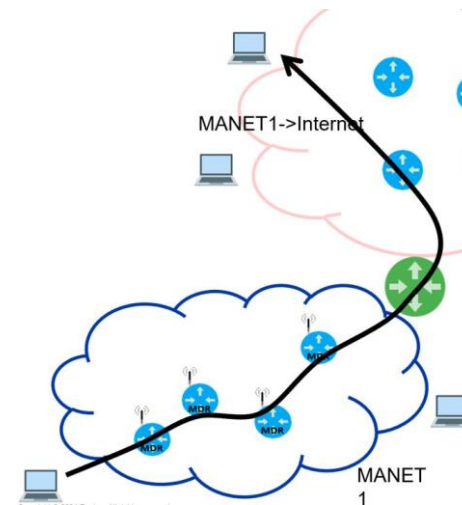
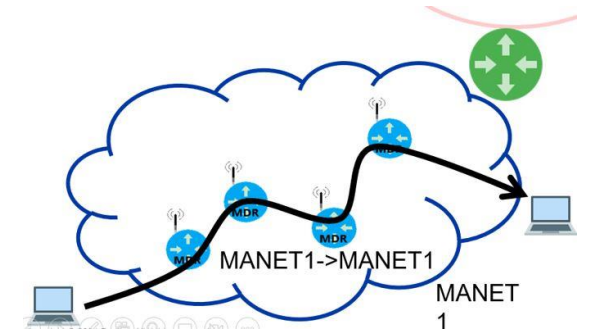
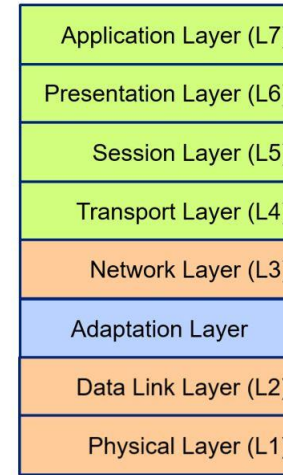
<https://datatracker.ietf.org/doc/draft-templin-6man-aero3>

<https://datatracker.ietf.org/doc/draft-templin-6man-omni3>

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Problem Statement and Solution Summary

- MANET routers support multihop forwarding within their local service areas
- MANET routers may encounter intermittent or continuous Internet gateway connectivity
- MANET routers use Multilink Local Addresses (MLAs) locally; autoconfigure Globally Unique Addresses (GUAs) for Internetworking
- MANET router autoconfiguration services; Internetwork forwarding based on new architecture layer (Adaptation Layer)
- Automatic Extended Route Optimization (AERO); Overlay Multilink Network Interface (OMNI) support all necessary functions



Next Steps

- Each MANET router configures an OMNI interface – assigns an MLA
- MANET routers use AERO control messaging to invoke DHCPv6 autoconfiguration; obtain GUAs from Internet gateways
- OMNI interface supports IPv6 encapsulation for Internetwork forwarding using GUAs
- MANET routers use AERO/OMNI to traverse Internet gateways; reach correspondents in both the Internet and other MANETs
- Next Steps – Working Group Item?

