

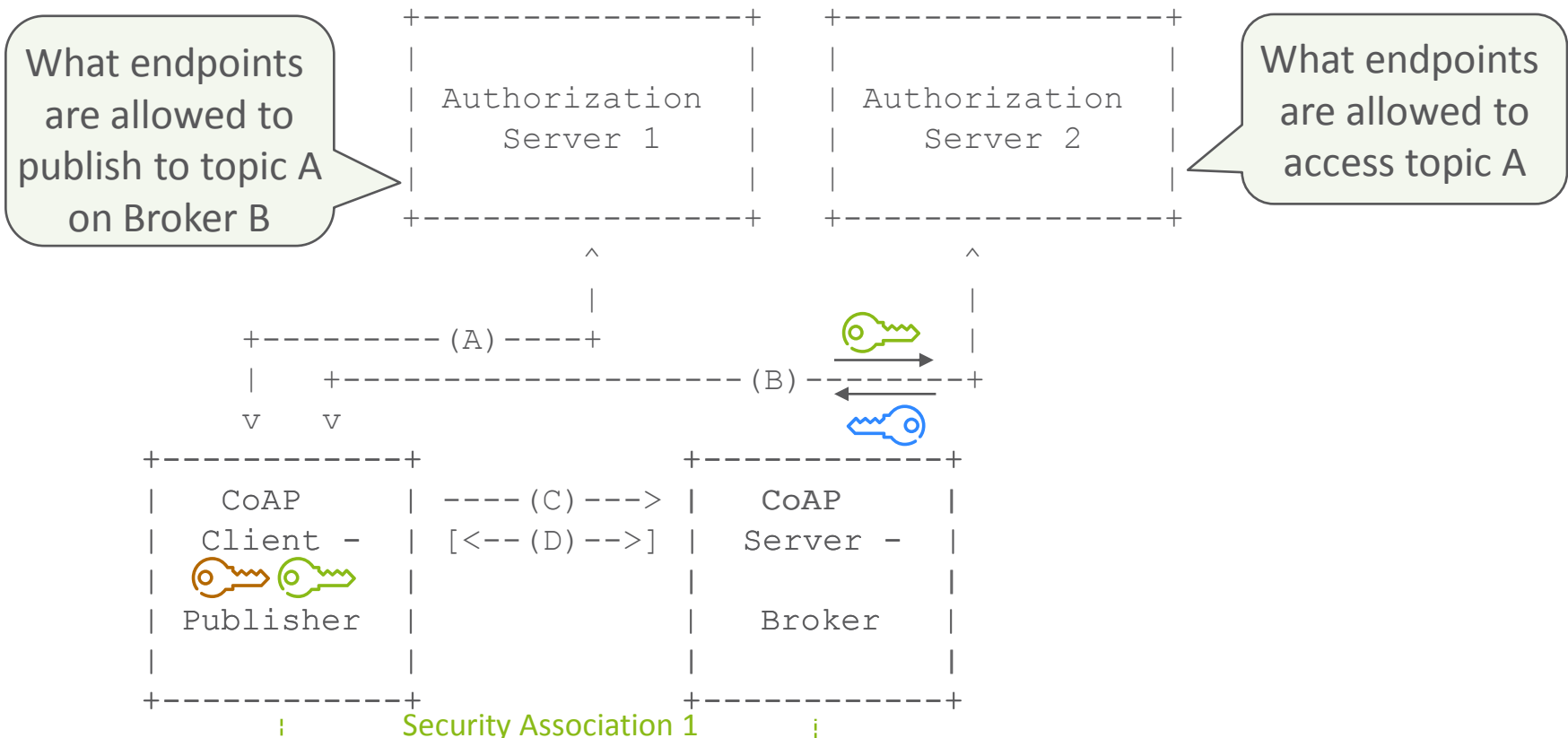
Application profiles

draft-palombini-ace-coap-pubsub

draft-tiloca-ace-oscoap-joining

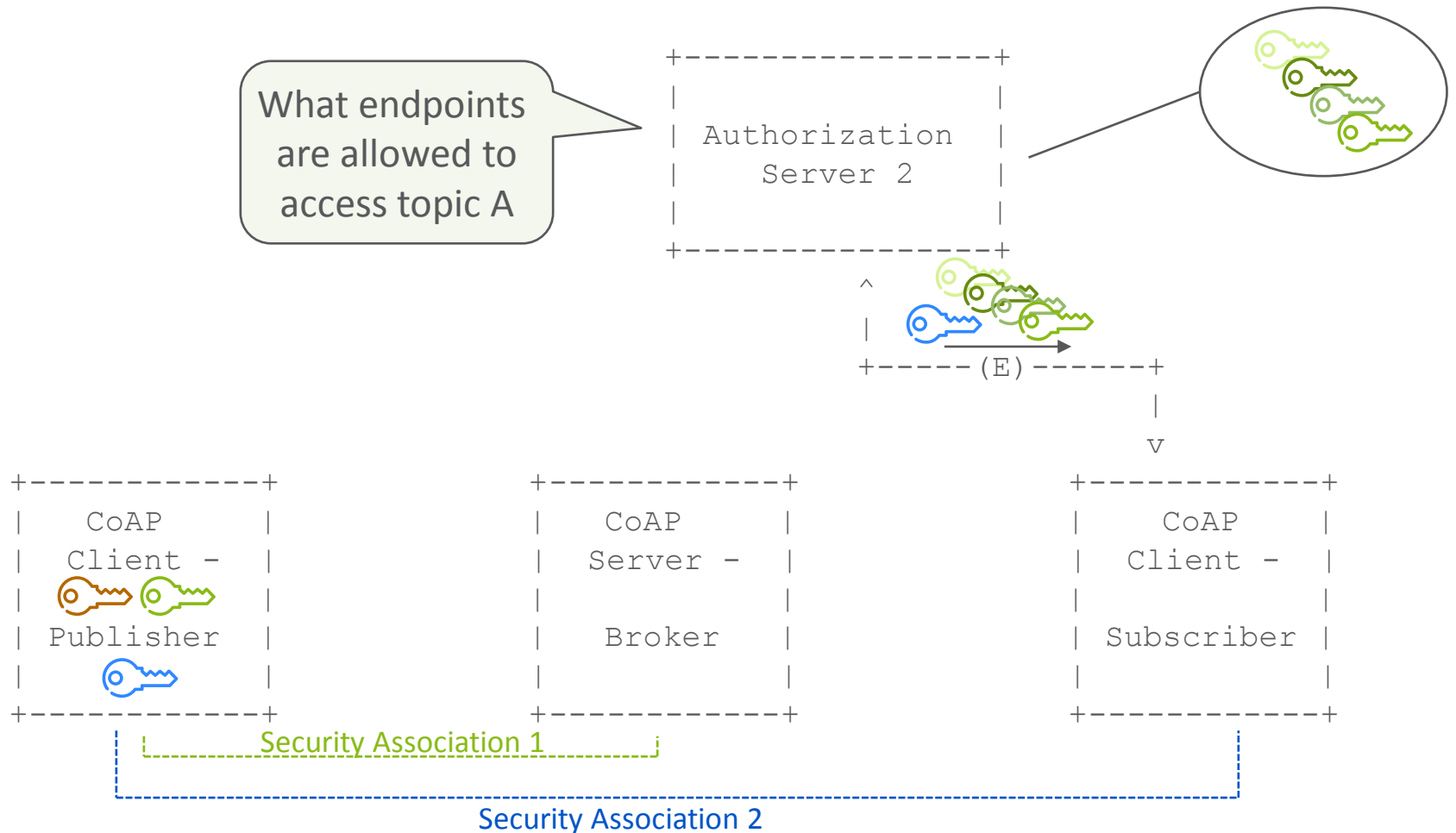
Publisher Profile

- › Use DTLS or OSCORE transport profile to establish secure communication between Publisher and Broker
- › Use ACE token-less exchange to retrieve symmetric keying material (🔑)
- › Send AS2 its own public key (🔑) corresponding to its private key (🔑)



Subscriber Profile

- › Use ACE token-less exchange to retrieve symmetric keying material (🔑)
- › AS2 sends the public keys of authorized Publishers (🔑🔑🔑)



Group joining and key provisioning

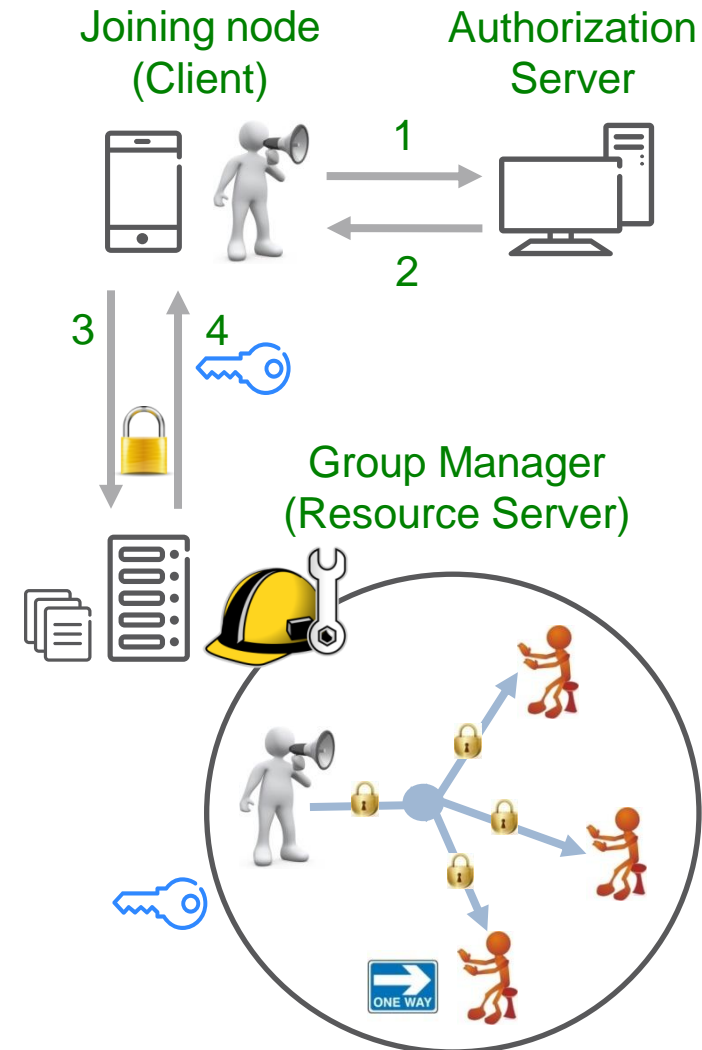
› Join OSCORE multicast groups over the ACE framework

- Joining node → Client
- Group Manager → Resource Server
(one *join resource* per group)
- The AS enforces join policies on behalf of the Group Manager

› CoAP is used as application-layer protocol

› Use specific transport profiles of ACE

- Details on authorization process
- Secure communication between Client and GM



Thank you!