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draft-cuellar-ace-solutions-00

# IETF 94 TOKYO 2015

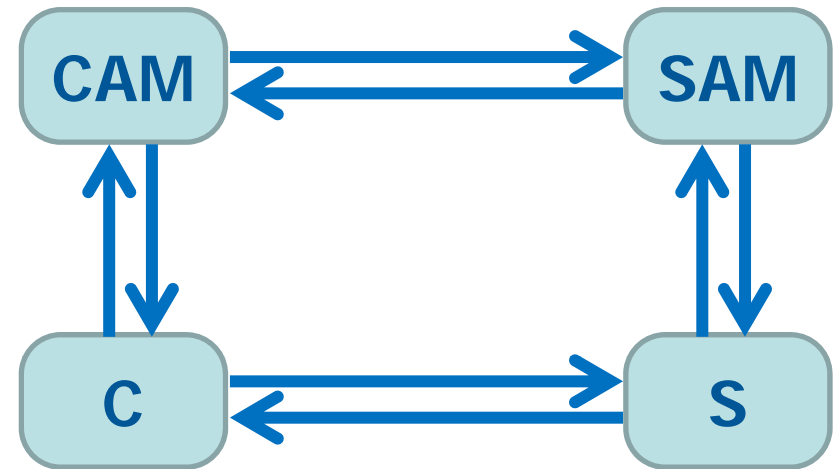
# Motivation

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- ◆ Align draft-cuellar-ace-pat-enhanced-privacy-authz and
  - ✦ draft-gerdes-ace-dcaf-authorize
- ◆ Other drafts in ACE reuse DCAF message types
  - ✦ draft-seitz-ace-core-authz
  - ✦ draft-bergmann-ace-dcaf-cose
- ◆ Provide common message type classes
  - ✦ Describe effects of message types
  - ✦ Describe protection requirements for messages transported within such a message
- ◆ Provides common content types
- ◆ Helps solution designers to determine the security requirements for certain messages
- ◆ Solution designers can implement the message type classes they require for their solution

# Global View

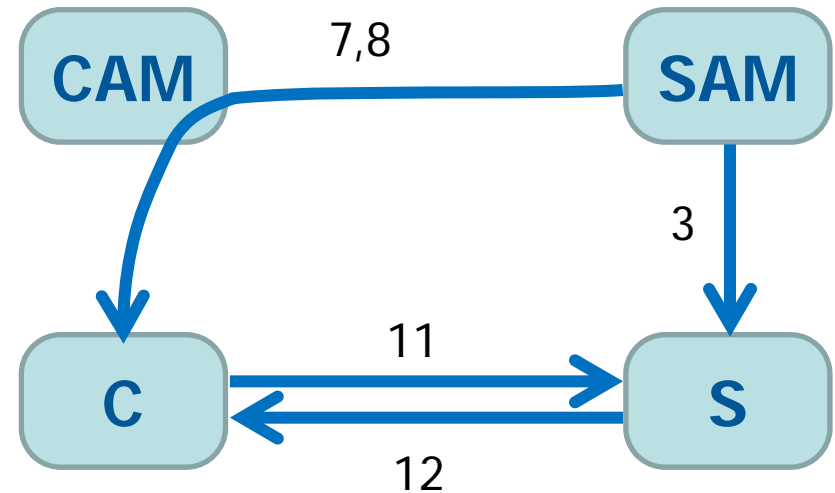
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- (0) CAM <=> SAM Security Context Setup
- (1) C --> S Unauthorized Resource Req
- (2) S --> SAM Token Request
- (3) SAM --> S Token Response
- (4) S --> C SAM Information
- (5) C --> CAM Access Request
- (6) CAM --> SAM Ticket Request
- (7) SAM --> CAM Ticket Grant
- (8) CAM --> C Ticket Transfer
- (9) CAM --> C Client Authoriz. Info
- (10) C <===> S Security Association
- (11) C --> S Authorized Resource Req
- (12) S --> C Resource Response

# Main Exchange

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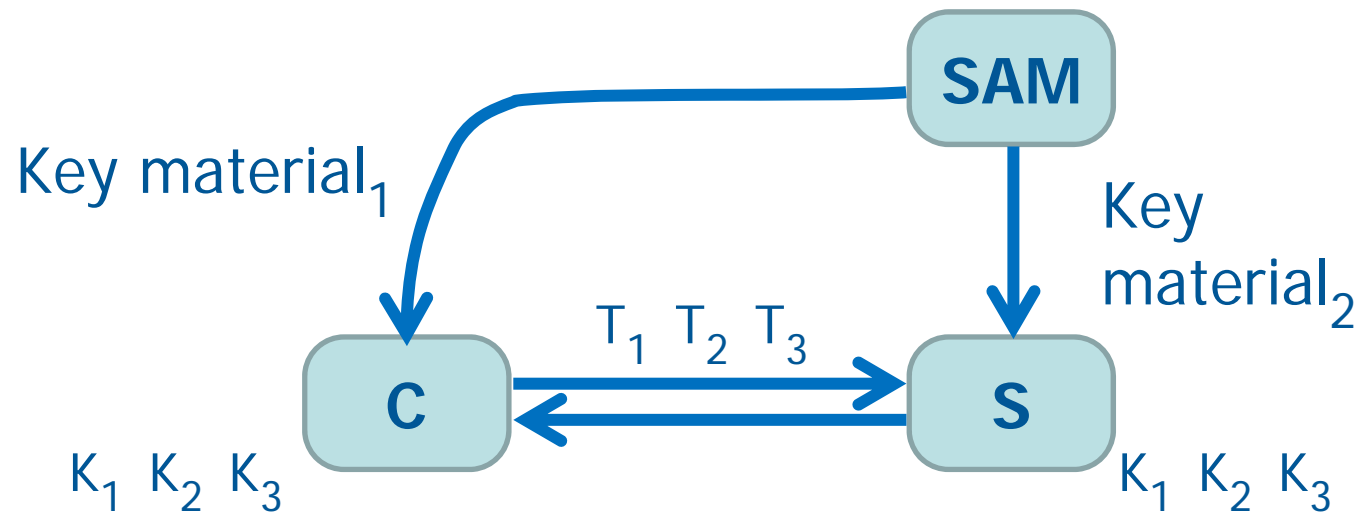


- (3) SAM --> S      Token Response
- (7) SAM --> CAM    Ticket Grant
- (8) CAM --> C      Ticket Transfer
- [(10) C <==> S      Security Association]
- (11) C --> S        Authorized Resource Req
- (12) S --> C        Resource Response

## Abstract View

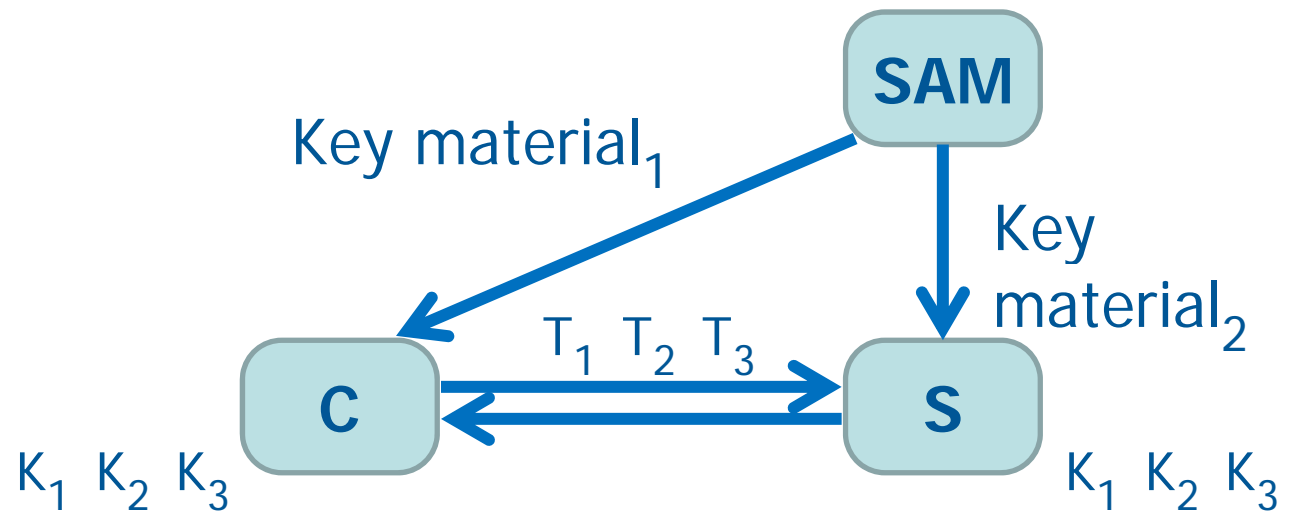
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- ◆ The Key Material allows C and S to
  - ✦ generate keys
  - ✦ generate Tokens
  - ✦ verify Tokens



## One solution possibly does not fit all

- ◆ In some cases Privacy is not an issue
- ◆ In some cases, C gets one response per request
  - ✦ in others, C subscribes to a stream
- ◆ In some cases DoS resilience only under stress...



## Future Work

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- ◆ Provide more detail for existing message type classes
- ◆ Provide examples how the messages are used in different solutions
- ◆ Add missing message type classes