An authorization service for collaborative situation awareness

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Scenario

Mission
- Coalition troops escort NGO representatives to the conflict area
- The command center coordinates the mission
- Intel is gathered from:
  - UAV imagery (Authority α): birds-eye view
  - Civilians (Authority β): information from locals
  - Motion data (Authority γ): automatic detection of movement

Assumptions
- Each authority employs its own authorization solution
- Each authority defines its own policies to protect its sensitive data
- Policies of an authority can refer to other authorities’ policies

Architecture

External Services

SAFAX

Deployment models

Highlights
- SAFAX adheres to the XACML standard
- Authorization components implemented as loosely-coupled services
- User Defined Functions (UDF) decoupled from the Policy Decision Point
- Several deployment models supported

SAFAX is available at http://security1.win.tue.nl/safax/