

# SNMP Advisory Team Recommended Approach

37th IETF

Network Management Open Meeting

December 9, 1996

# SNMP ADVISORY TEAM

## Background

- Chartered After 36th IETF
- Security and Administrative Framework Evolution for SNMP Advisory Team (AKA **Advisory Team**)
- Principal Goal: Identify Single Approach for SNMP-NG That Can Move to Open Working Group



# SNMP ADVISORY TEAM

## Members

- David Harrington
- Jeff Johnson
- David Levi
- John Linn
- Russ Mundy
- Shawn Routhier
- Glenn Waters
- Bert Wijnen

# SNMP ADVISORY TEAM

## Approach Highlights

- Used As Much From Existing Technology Base as Practical
- Constrained to Requirements of Existing v2\* & USEC Proposals
- Did Not Choose One “Winner”
- Identified a Set of Modules and Interfaces that Perform Required Functions

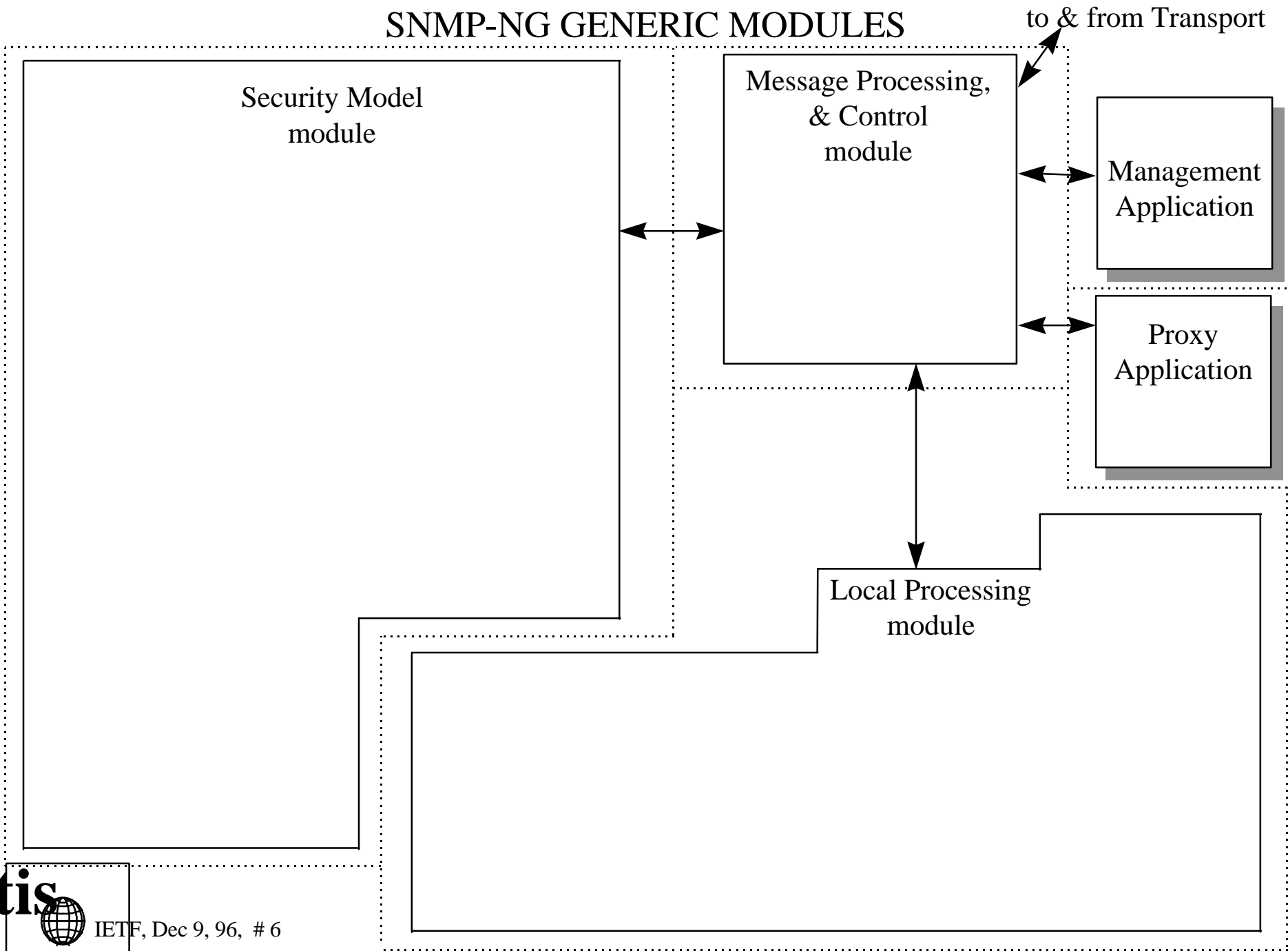


# SNMP ADVISORY TEAM

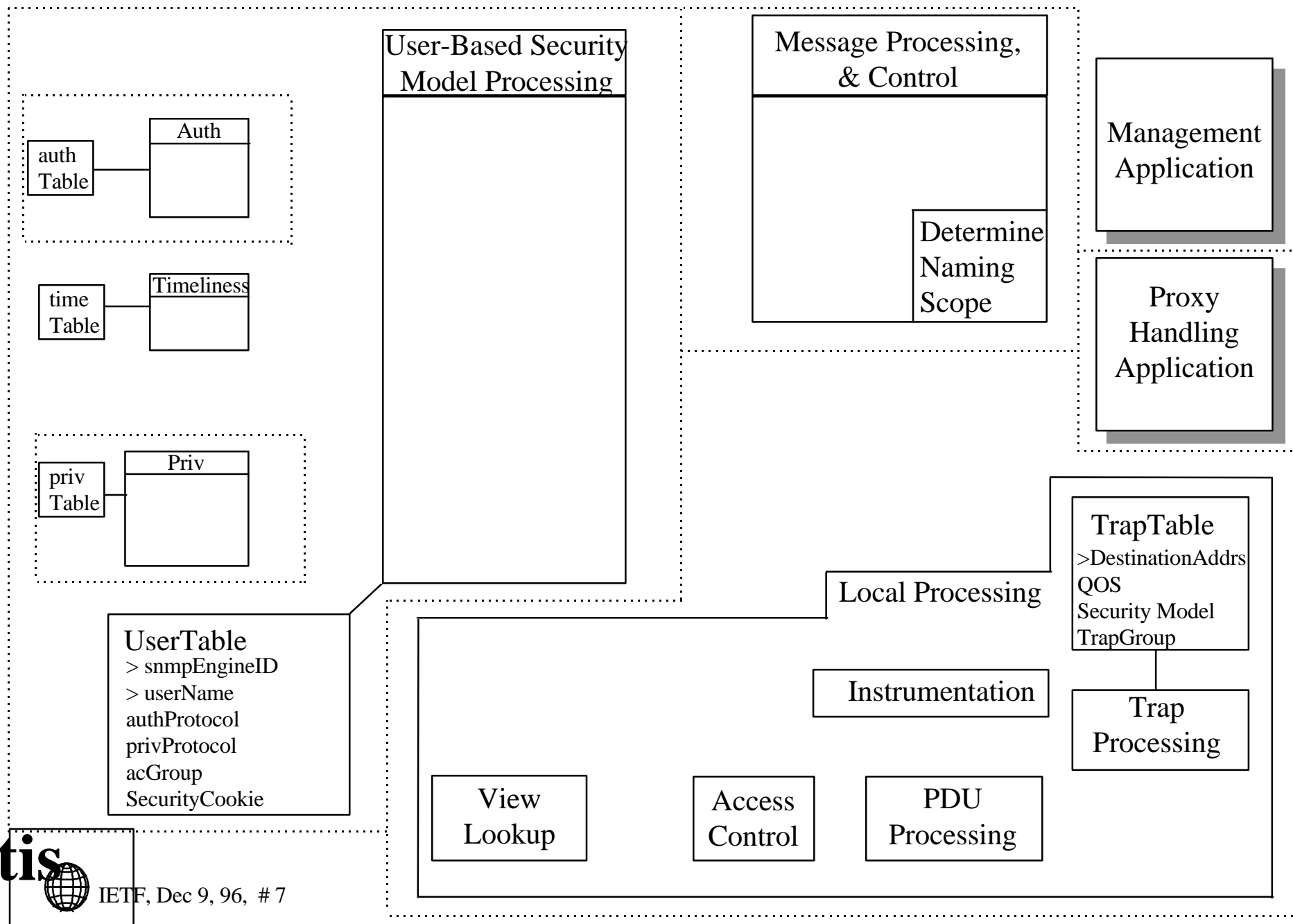
## Approach Highlights (cont)

- Approach Emphasizes Modularity
- Documents Expected to Follow the Modularity
- It Is Not Necessarily Expected that Implementations Will Choose To Follow Strict Modularity

# SNMP-NG GENERIC MODULES



# USER-BASED SNMP-NG MODULES & SUB-MODULES

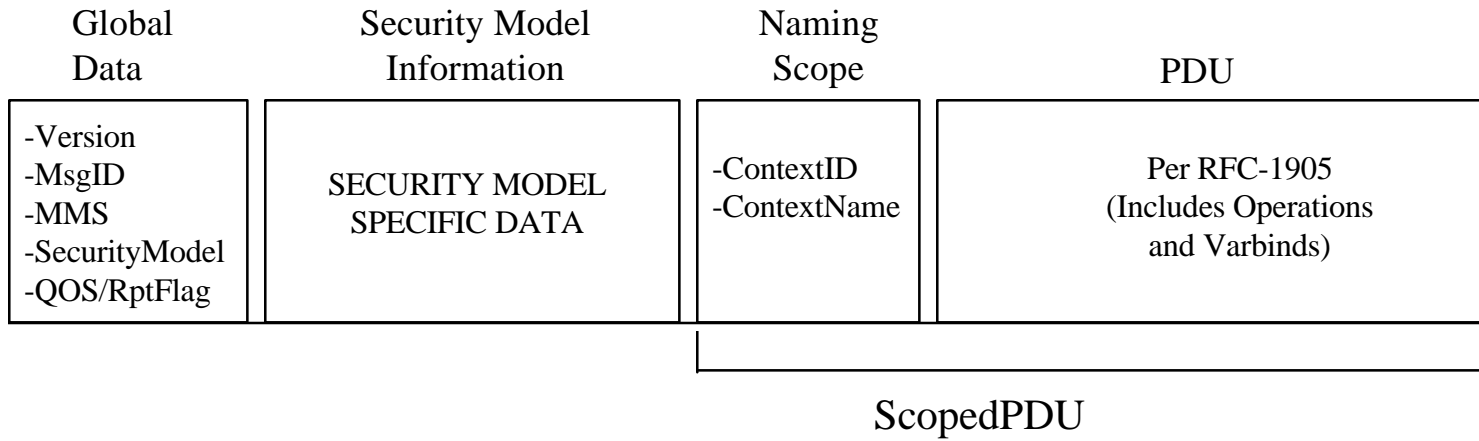


# SNMP Advisory Team

## Message Format Illustrations

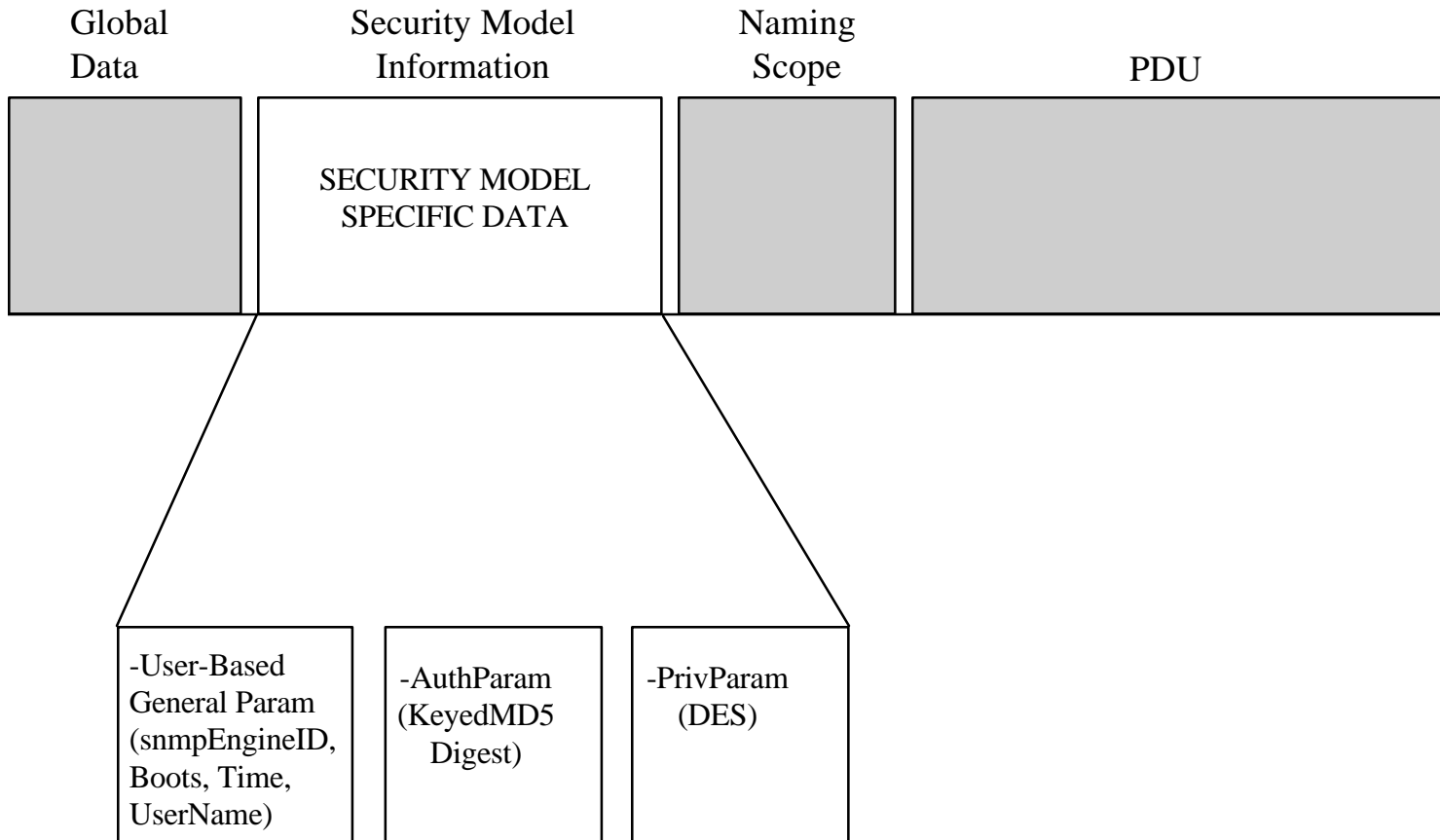


# SNMP-NG MESSAGE FORMAT



# SNMP-NG MESSAGE FORMAT

## User-Based Security Framework



### User-Based Security Framework Model Information

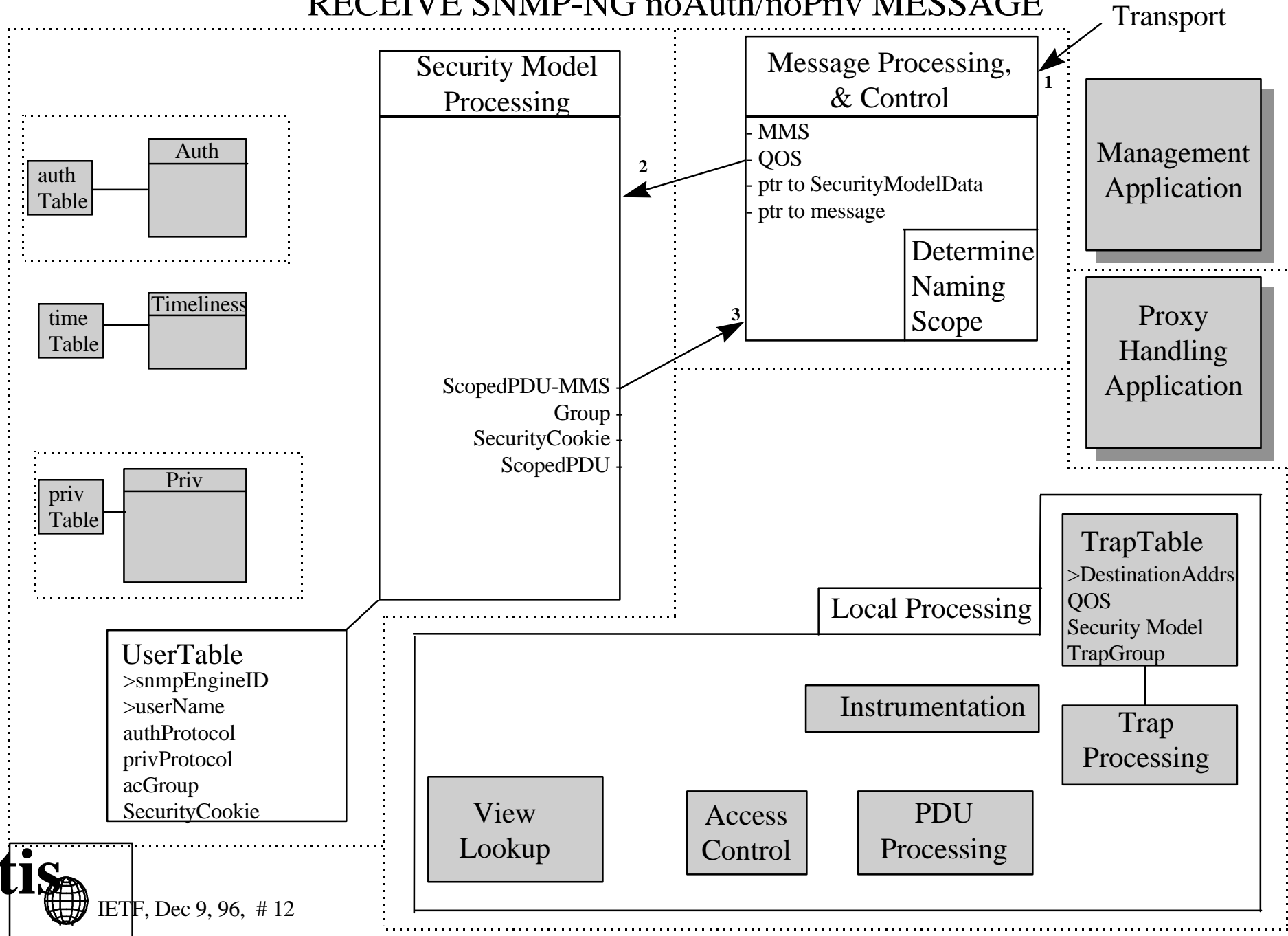


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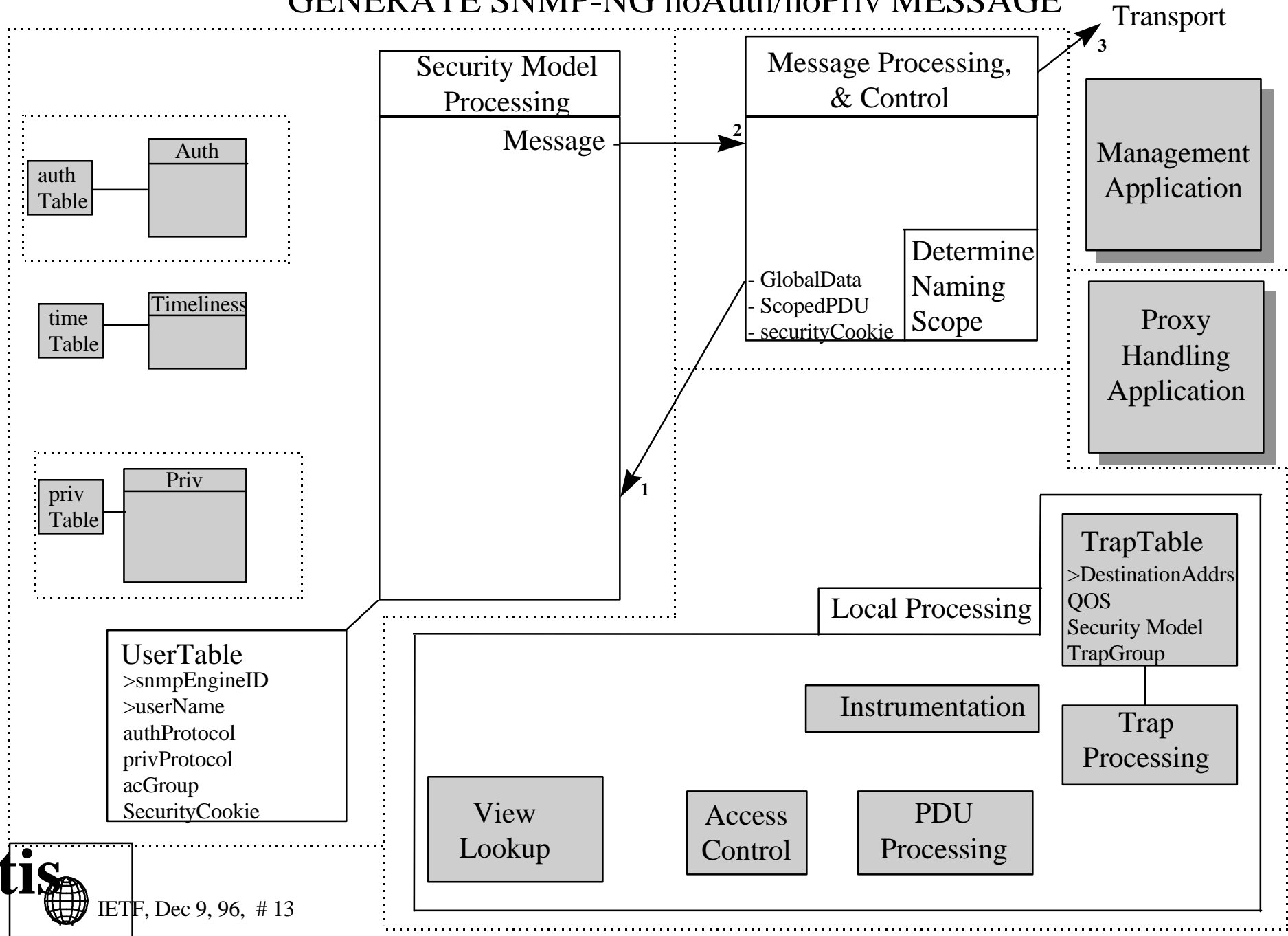
# SNMP Advisory Team

## Security Framework Processing Scenarios

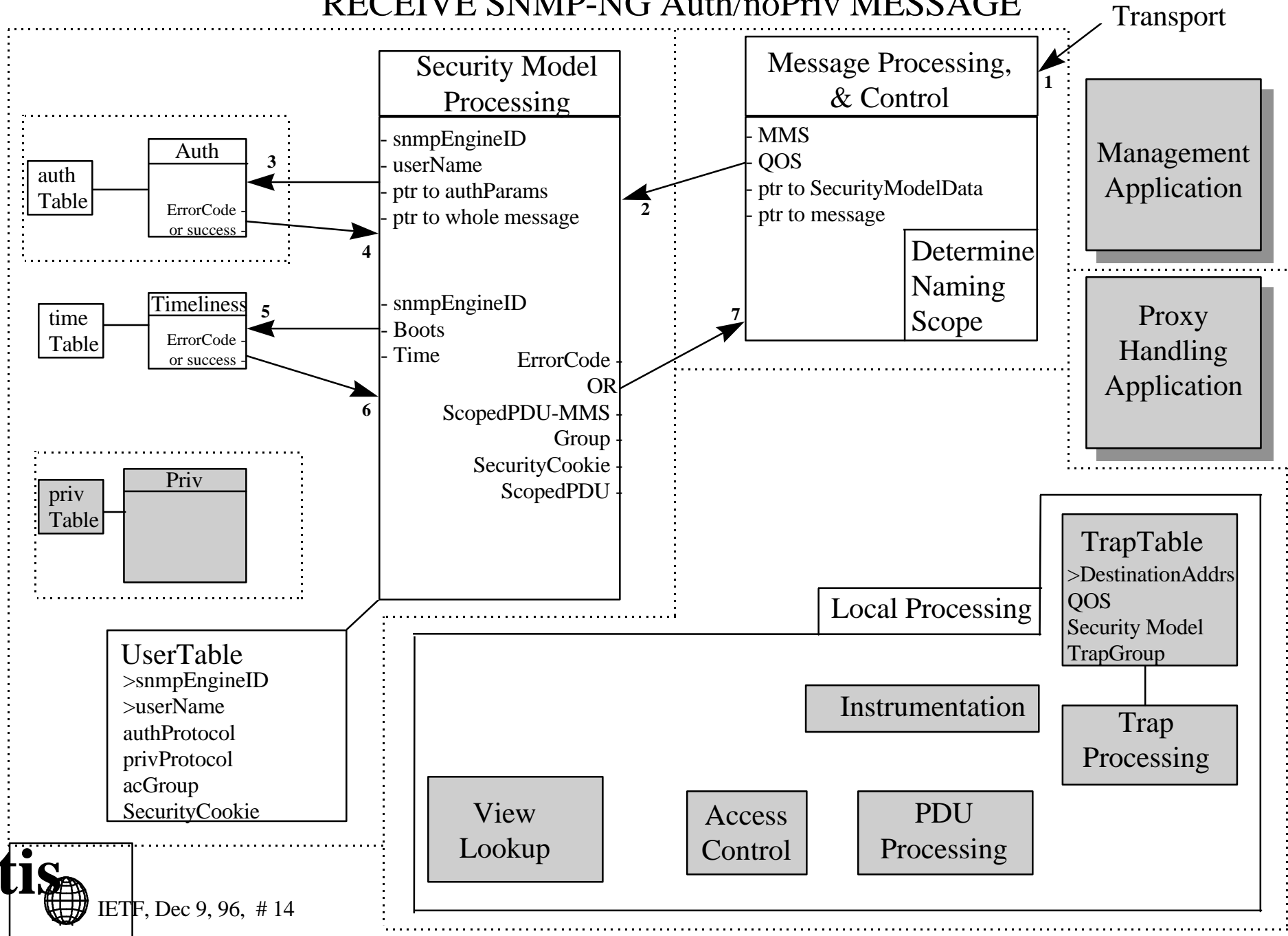
# RECEIVE SNMP-NG noAuth/noPriv MESSAGE



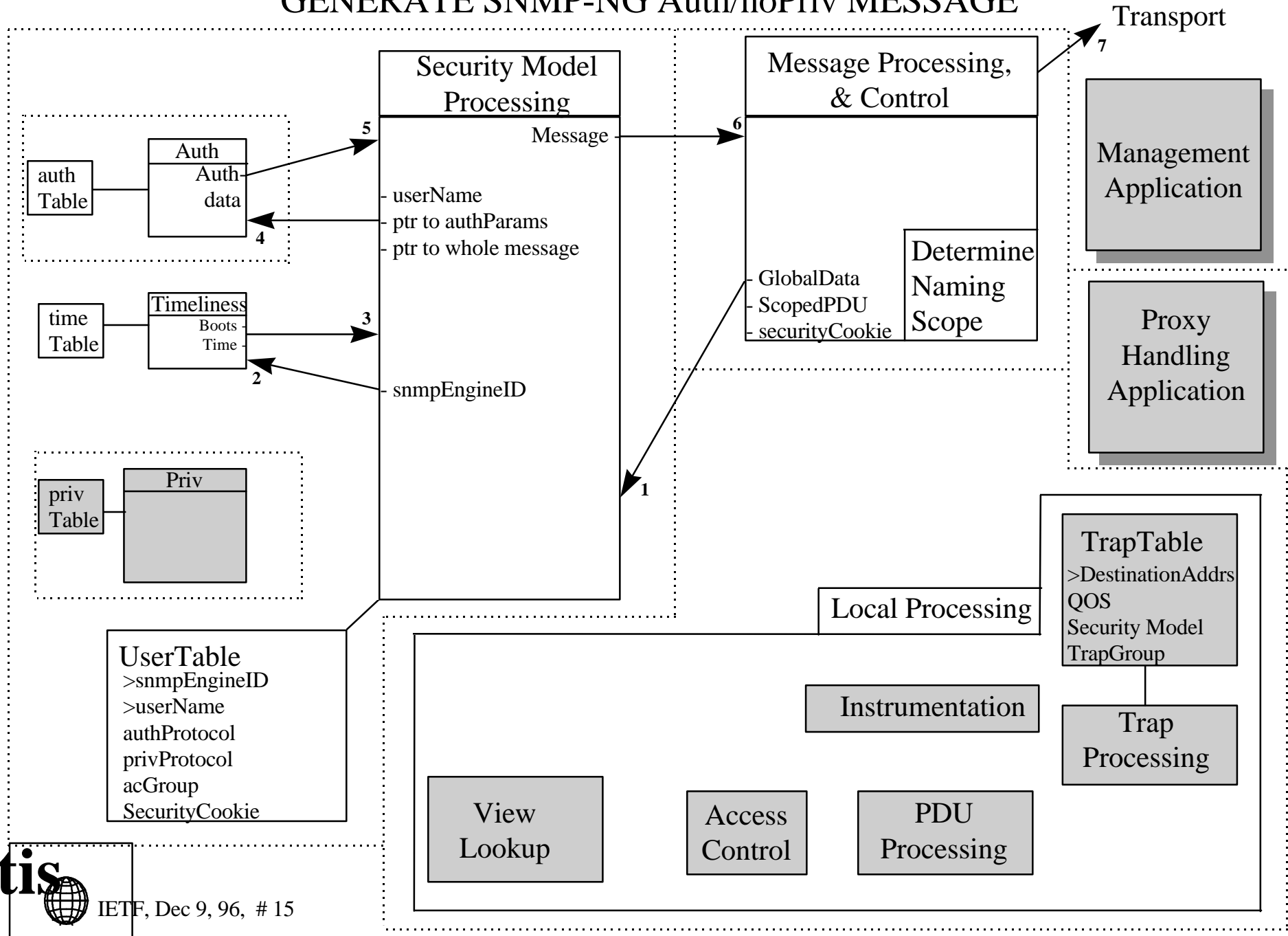
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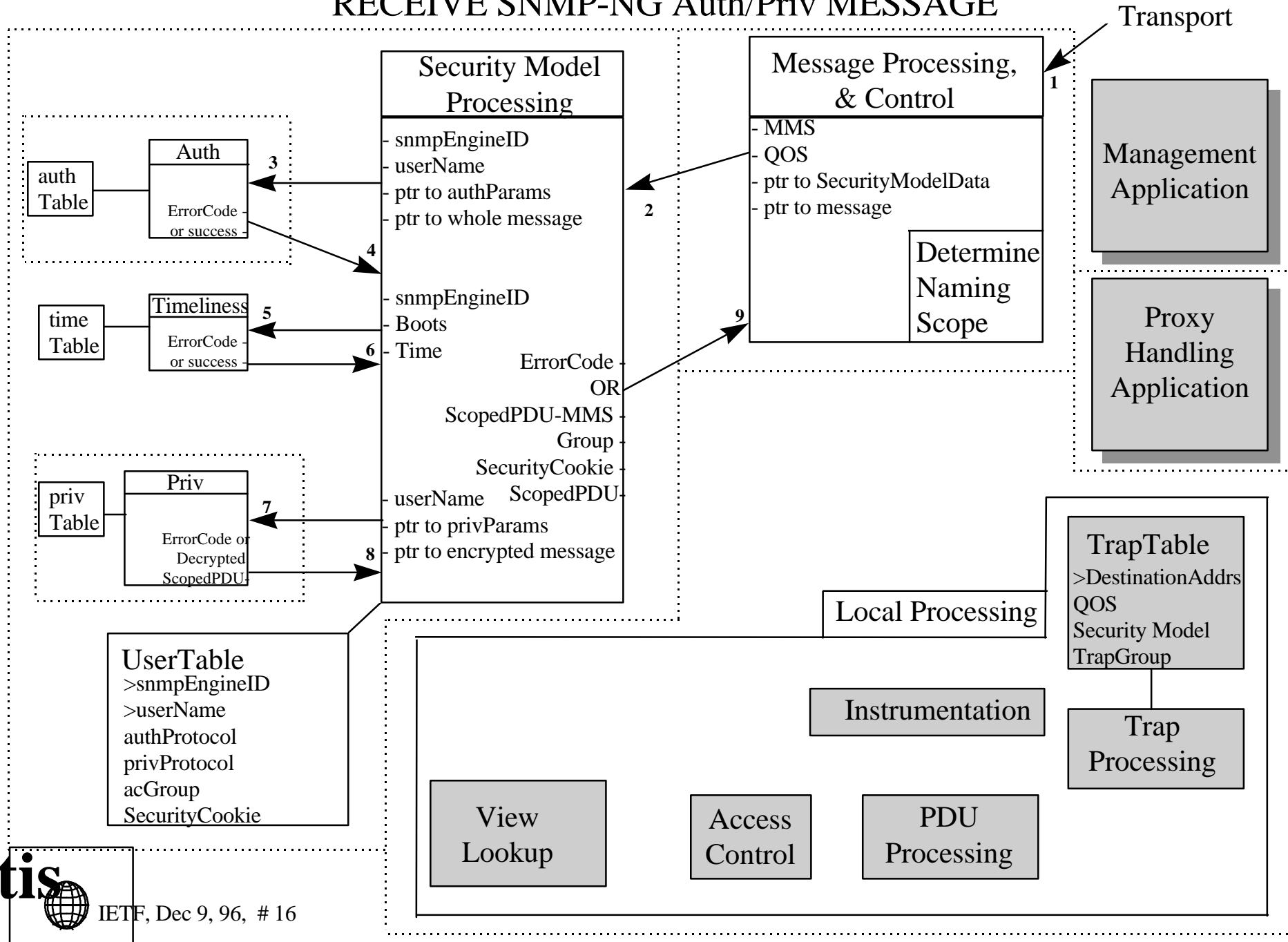
# RECEIVE SNMP-NG Auth/noPriv MESSAGE



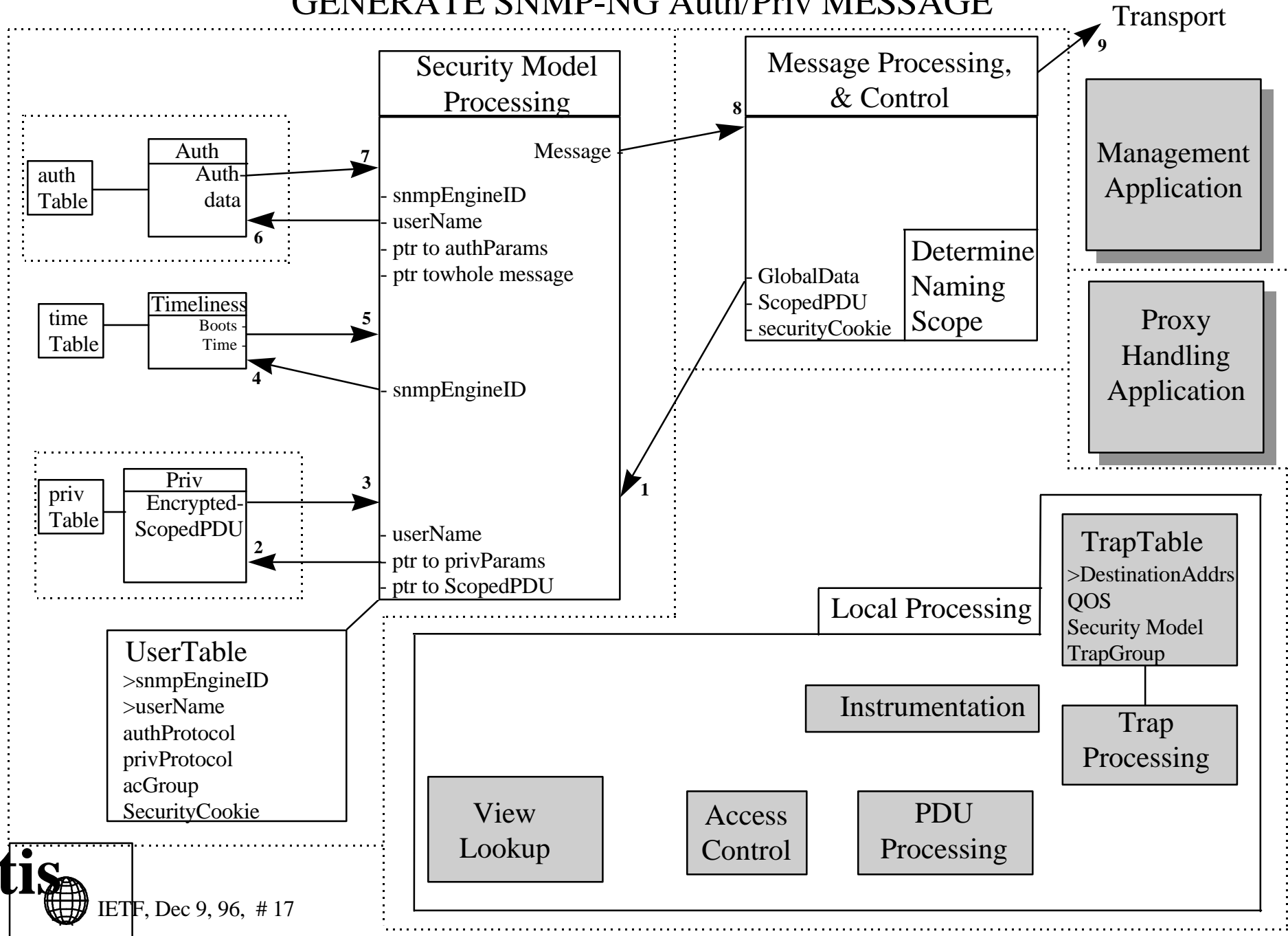
# GENERATE SNMP-NG Auth/noPriv MESSAGE



# RECEIVE SNMP-NG Auth/Priv MESSAGE



# GENERATE SNMP-NG Auth/Priv MESSAGE

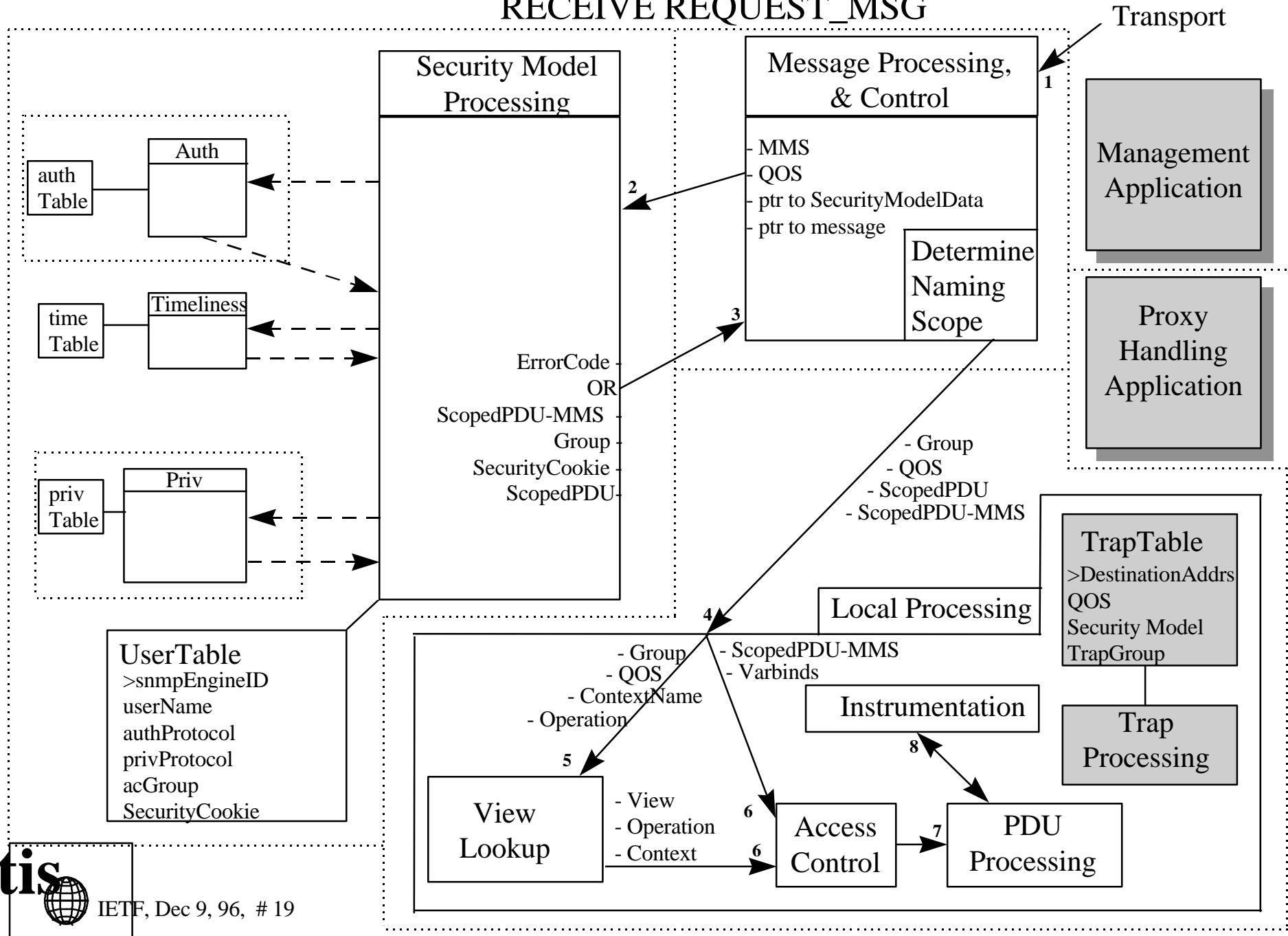


# SNMP Advisory Team

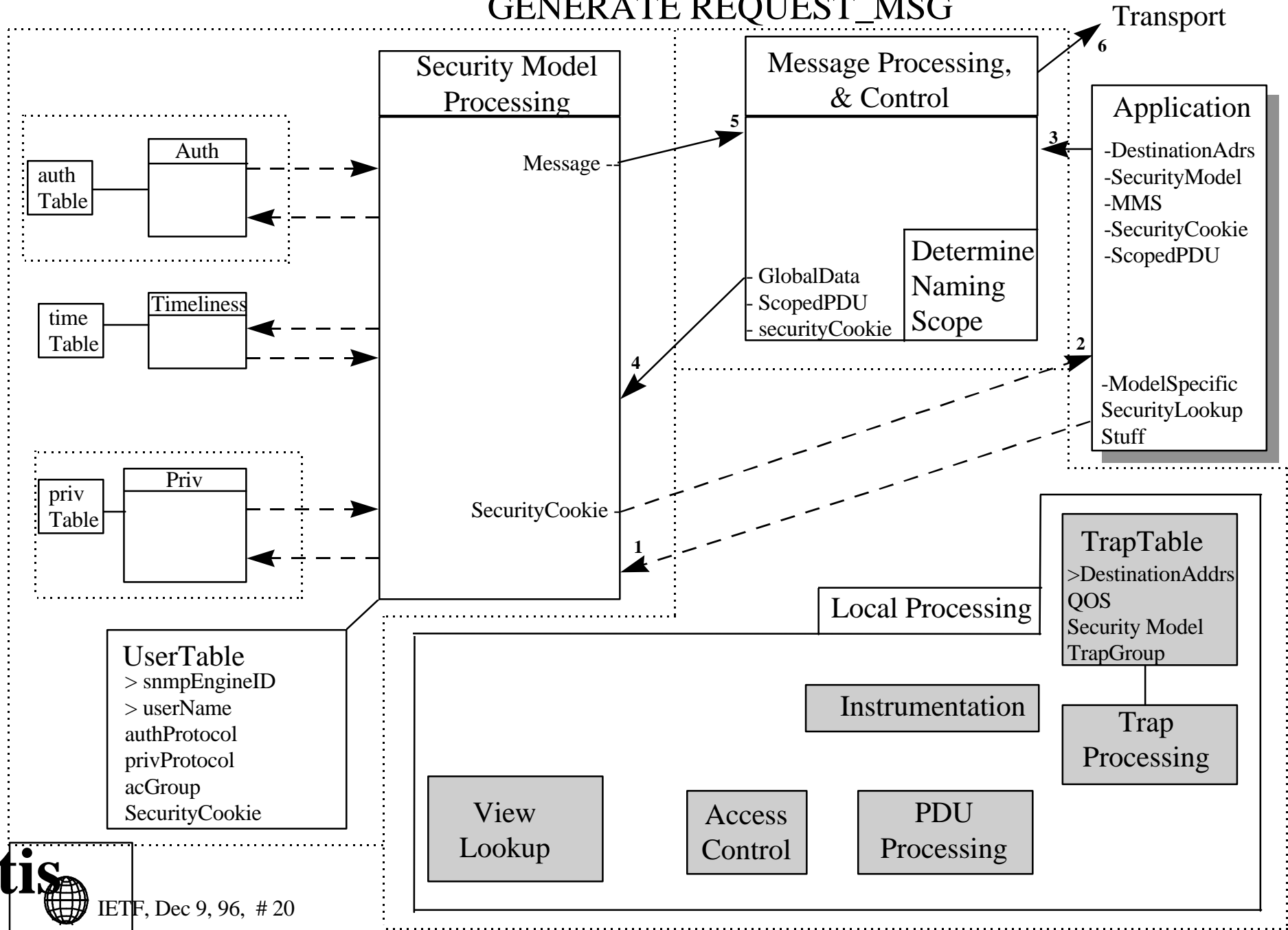
## Administrative Framework Processing Scenarios



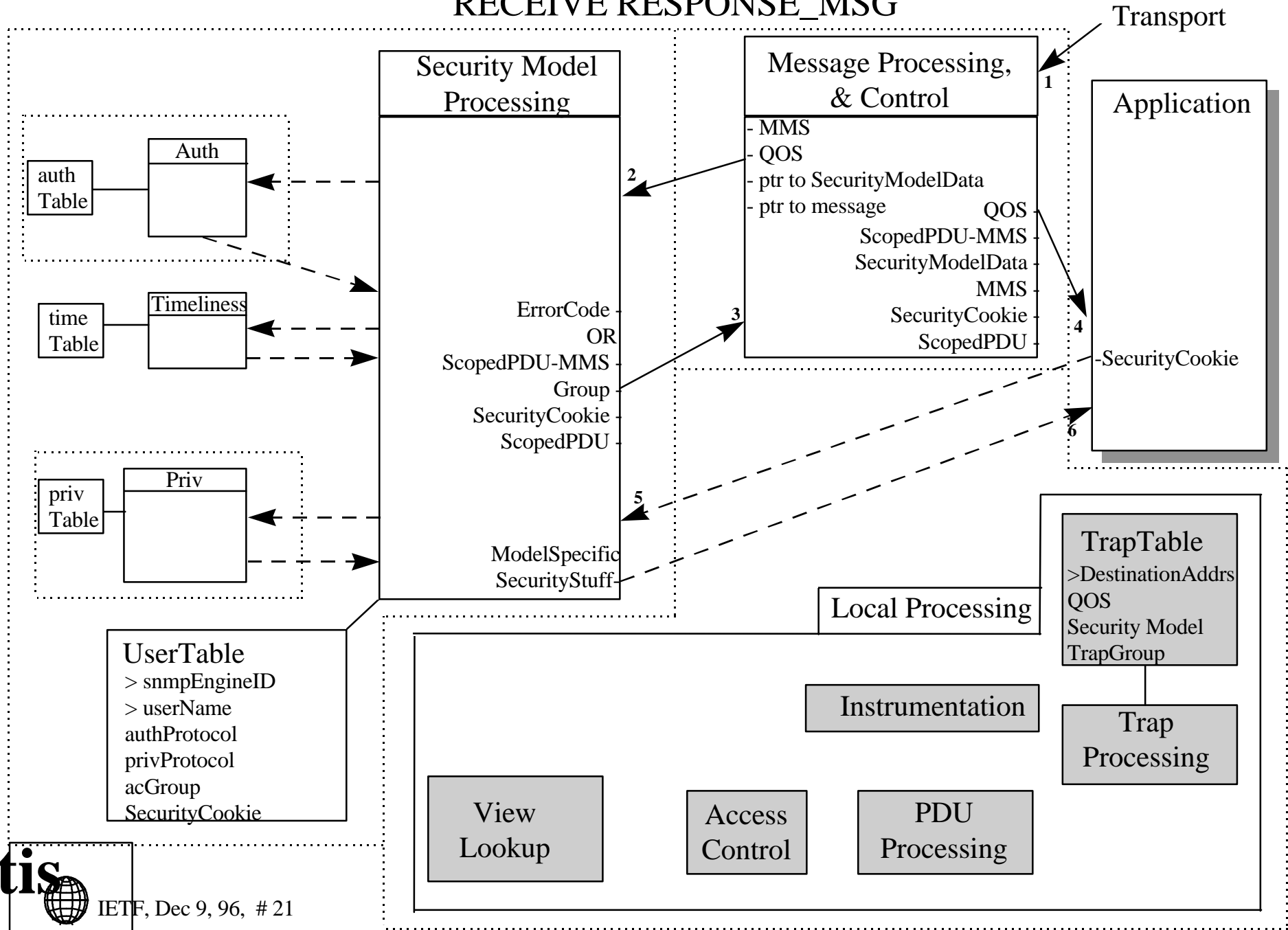
# RECEIVE REQUEST\_MSG



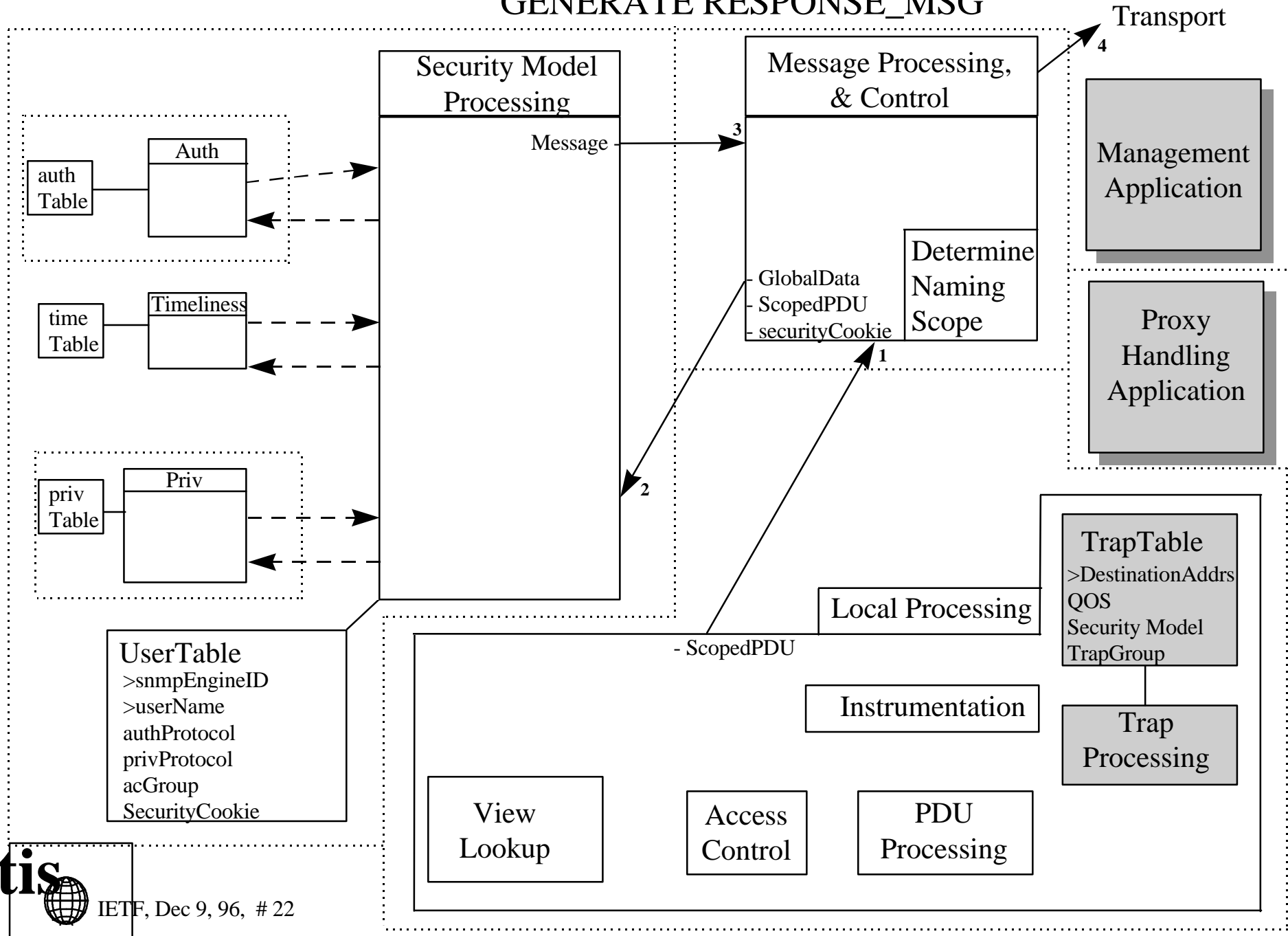
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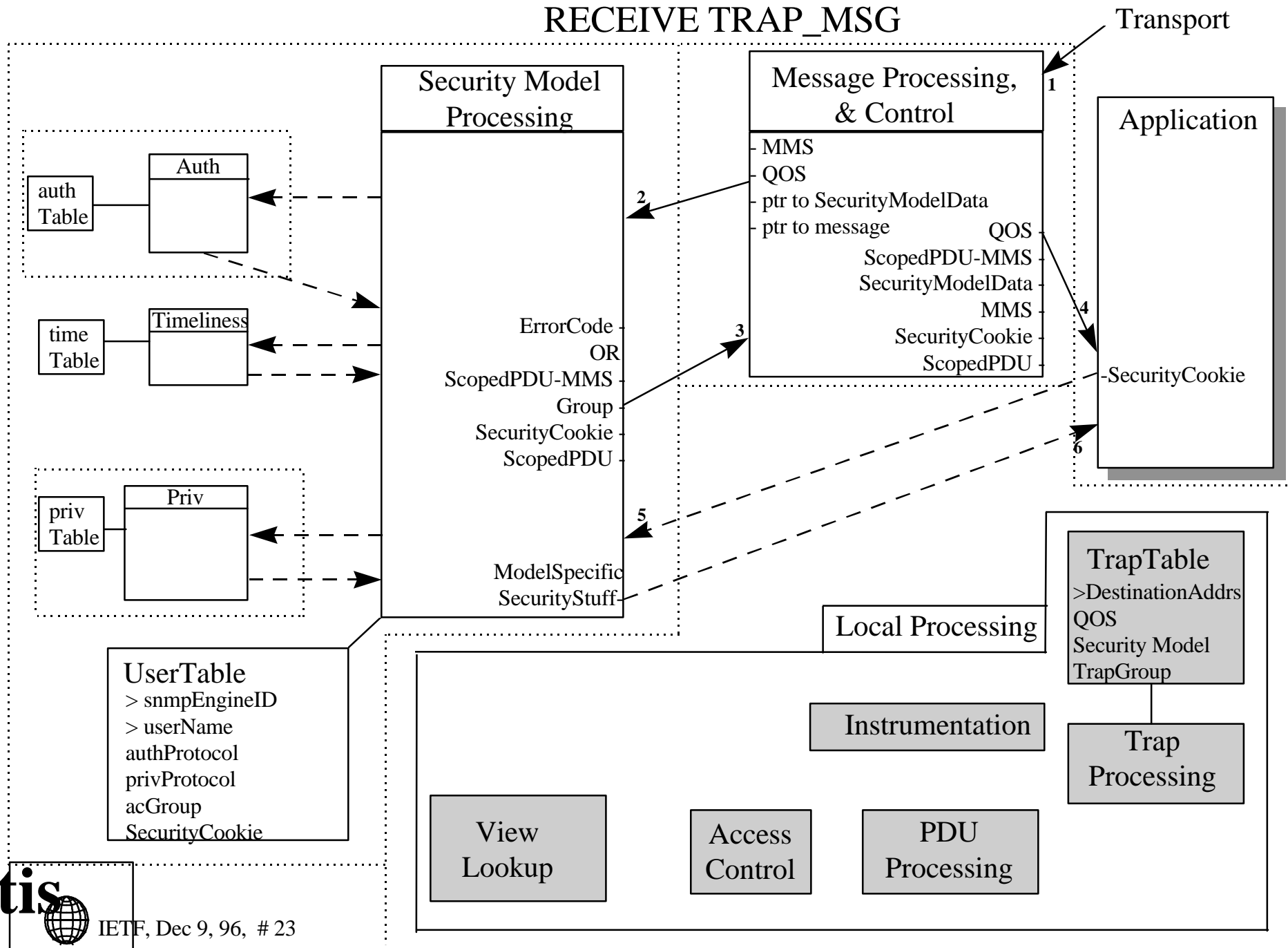
# RECEIVE\_RESPONSE\_MSG



# GENERATE\_RESPONSE\_MSG

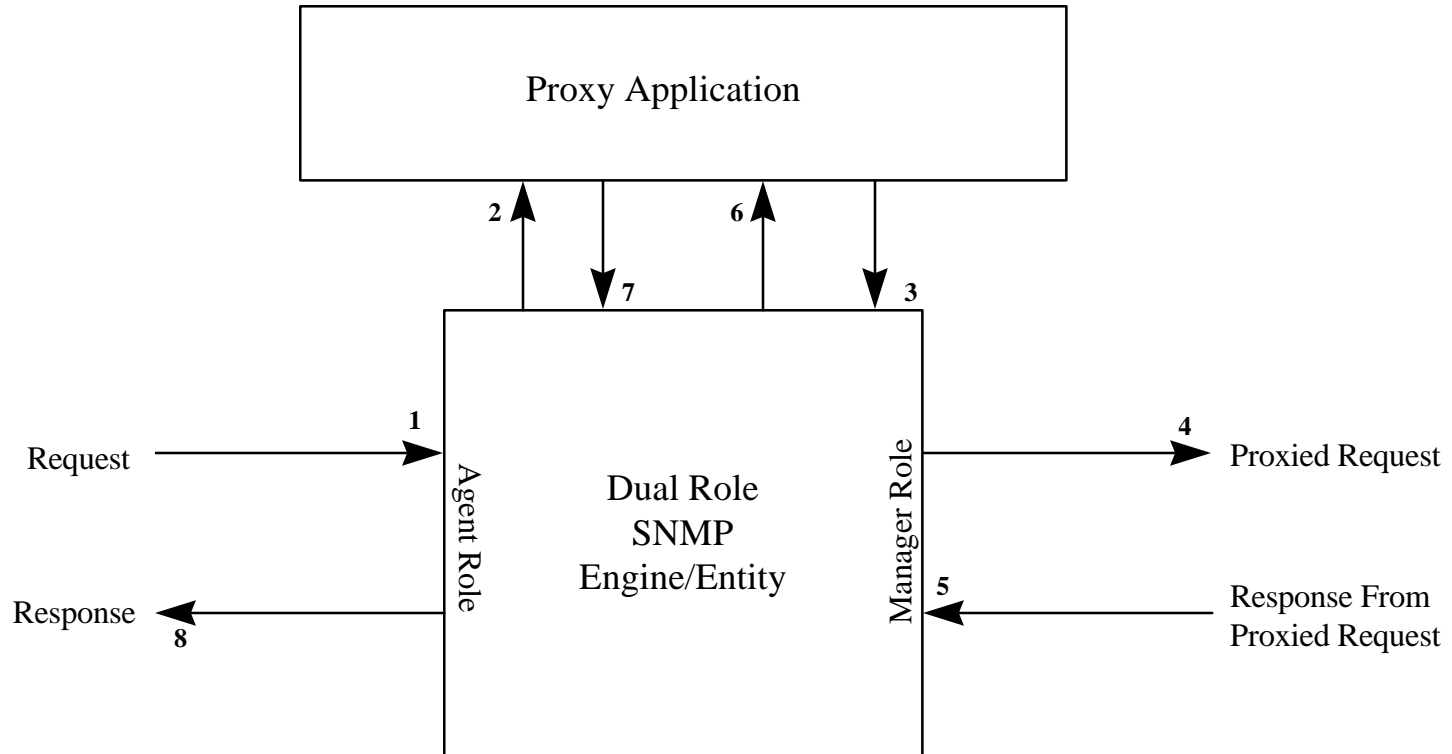


# RECEIVE TRAP\_MSG

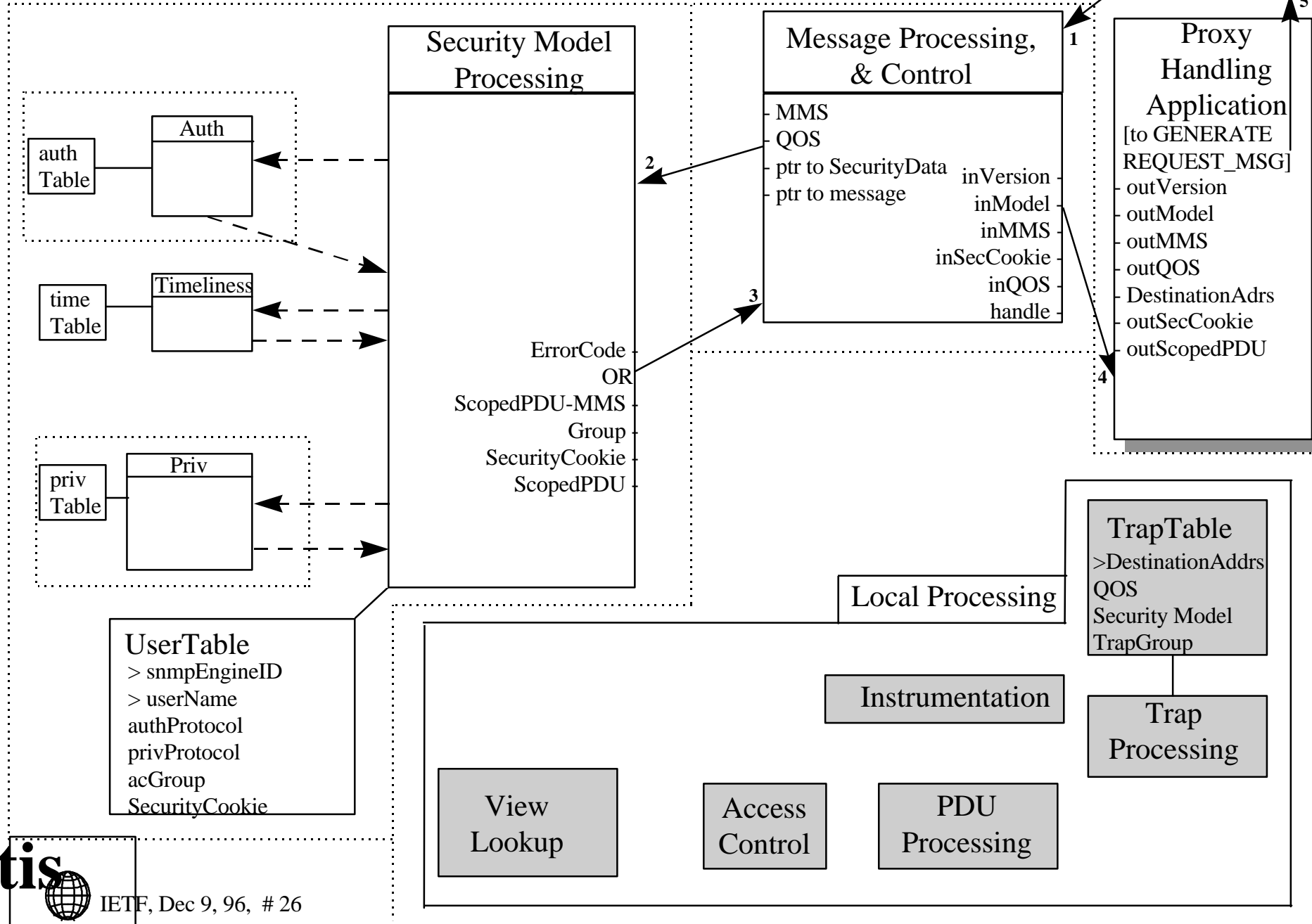




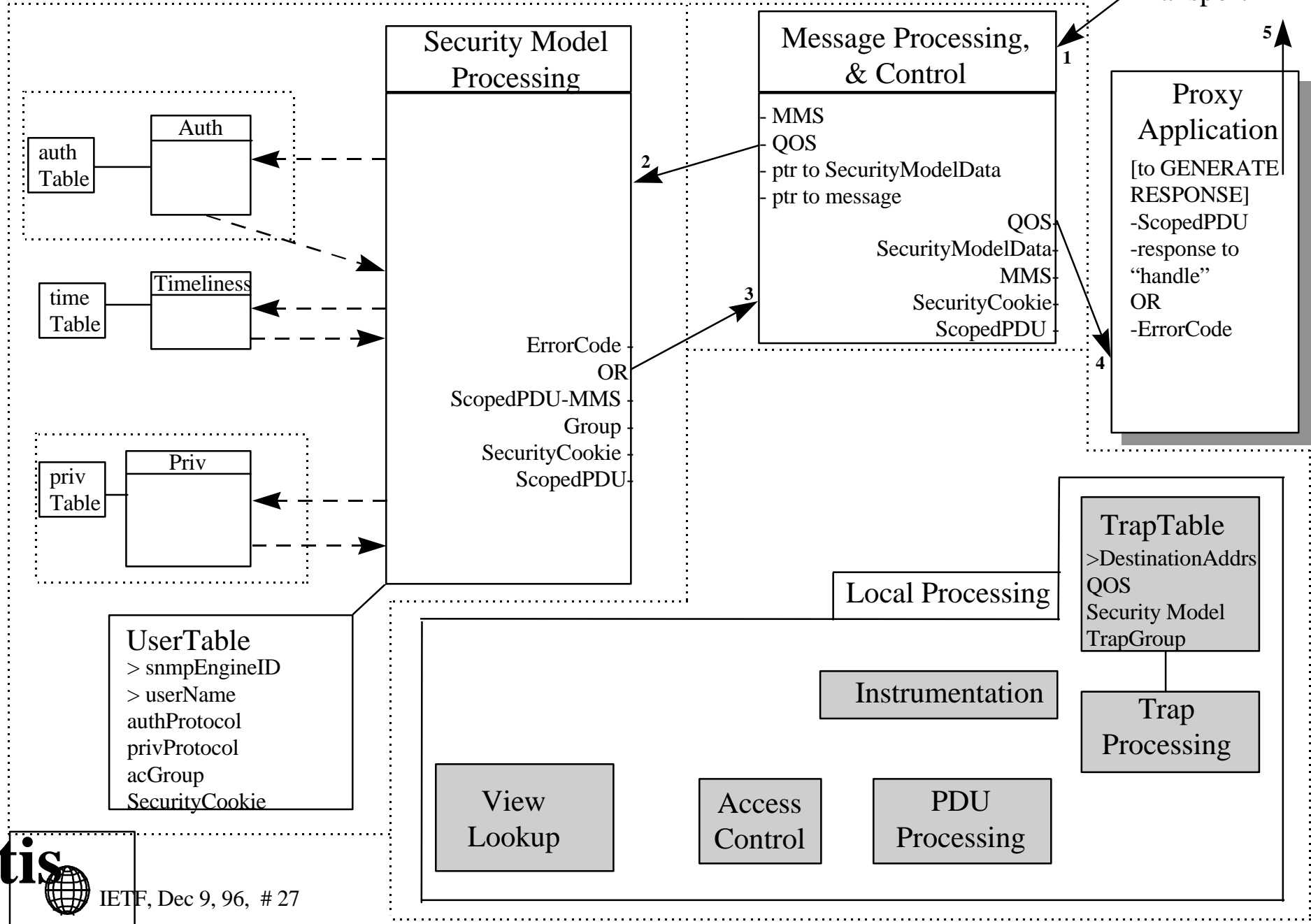
# PROXY PROCESSING Overview



# RECEIVE PROXY REQUEST\_MSG



# RECEIVE PROXY RESPONSE\_MSG



# SNMP ADVISORY TEAM

## Process Recommendations

- Re-Charter “standard” Working Group
- Develop Revised Documents With “Cut & Paste” Approach
- Plan Face-to-Face Meeting (or 2) Prior to April IETF
- Have I-D(s) Prepared Prior to April IETF

