

**IRTF - AAAARCH - RG**  
**Authentication Authorisation**  
**Accounting ARCHitecture RG**

**chairs:**

**C. de Laat and J. Vollbrecht**



**[www.aaaarch.org](http://www.aaaarch.org)**

**RFC 2903, 2904, 2905, 2906**

- This space is intentionally left blank

- **Authorization subgroup of AAA-WG**
- **Commonality in authorization space**
- **Tie in policy from all WG's**
- **IRTF-RG chartered in Dec 1999**
  - **This RG will work to define a next generation AAA architecture that incorporates a set of interconnected "generic" AAA servers and an application interface that allows Application Specific Modules access to AAA functions.**

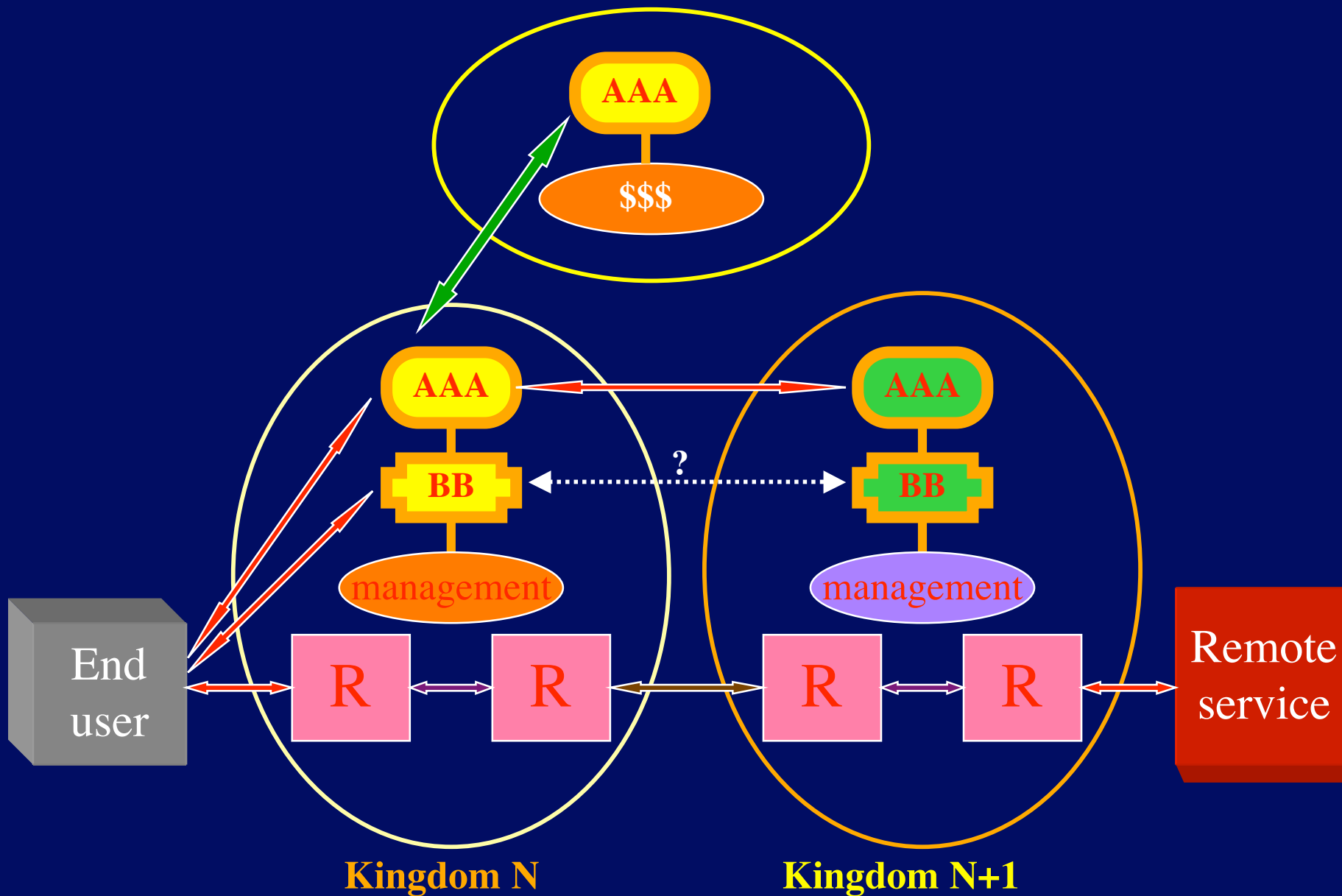
- **The architecture's focus is to support AAA services that:**
  - **can inter-operate across organizational boundaries**
  - **are extensible yet common across a wide variety of Internet services**
  - **enables a concept of an AAA transaction spanning many stakeholders**
  - **provides application independent session management mechanisms**
  - **contains strong security mechanisms that be tuned to local policies**
  - **is a scalable to the size of the global Internet**

## Basic AAA

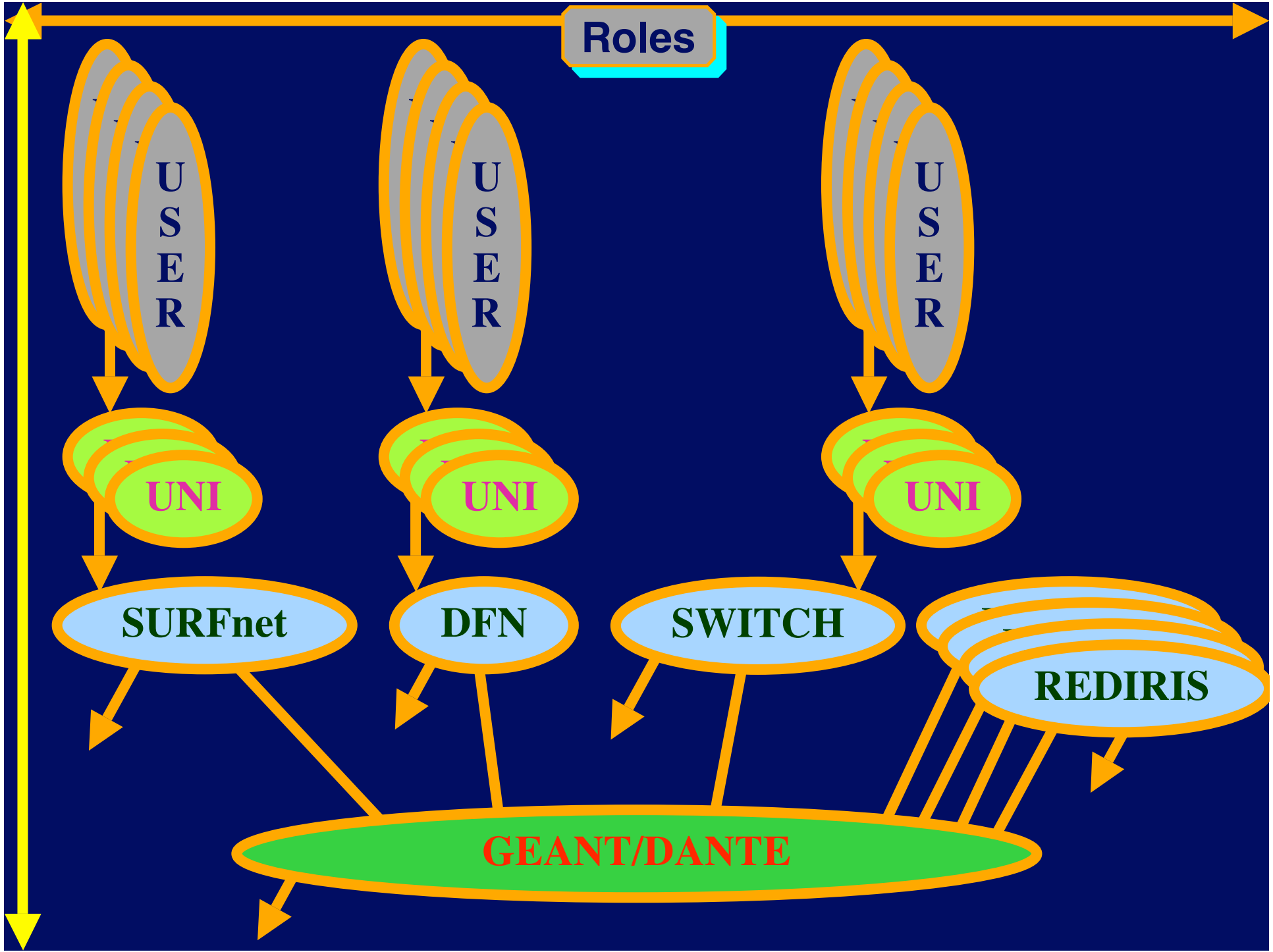
- **Service perspective:**
  - Who is it who wants to use my resource
    - » Establish security context
  - Do I allow him to access my resource
    - » Create a capability / ticket / authorization
  - Can I track the usage of the resource
    - » Based on type of request (policy) track the usage
- **User perspective**
  - Where do I find this or that service
  - What am I allowed to do
  - What do I need to do to get authorization
  - What does it cost
- **Intermediaries perspective**
  - Service creation
  - Brokerage / portals
- **Organizational perspective**
  - What do I allow my people to do
  - Contractual relationships (SLA's)

# The need for AAA

9 of 14

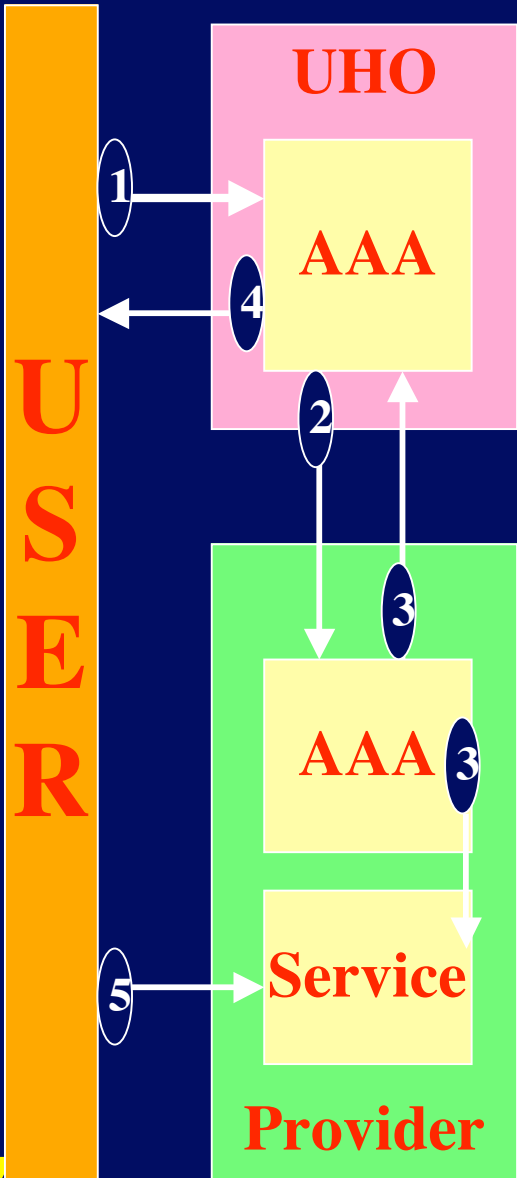


# Roles

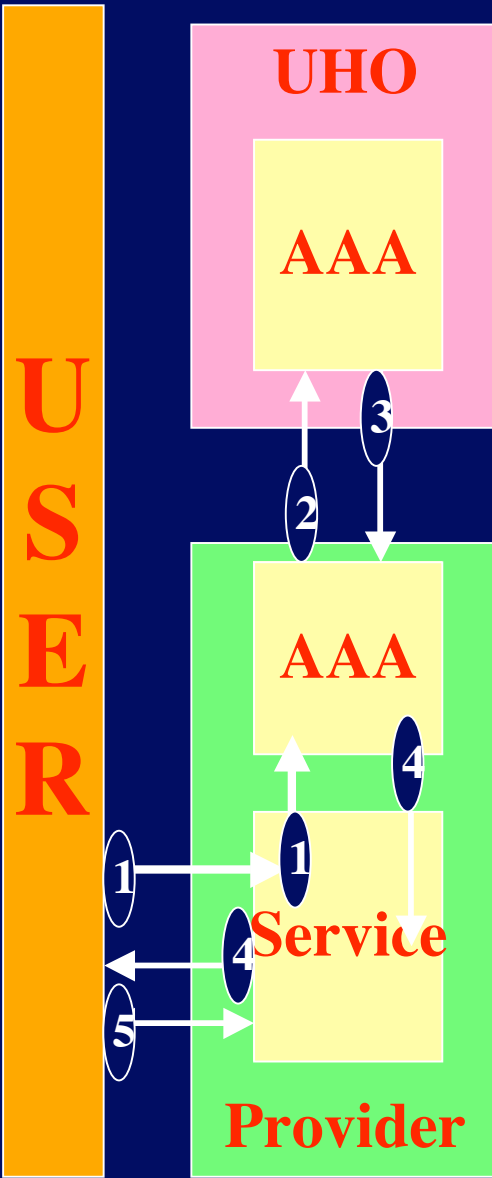


# Authorization Models

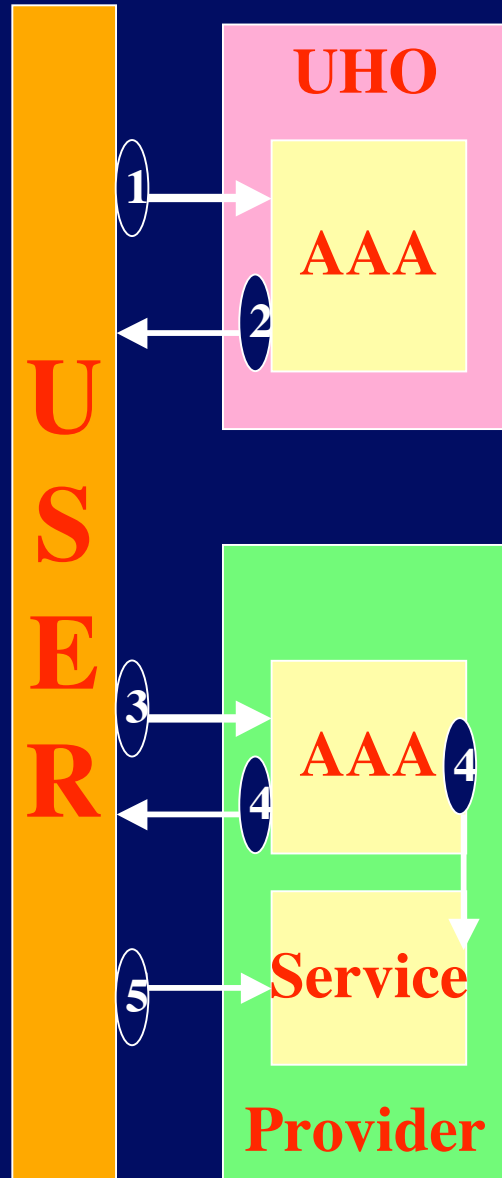
## AGENT



## PULL

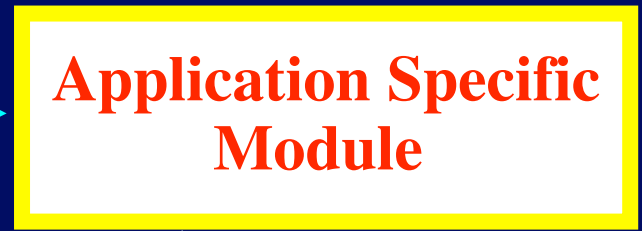
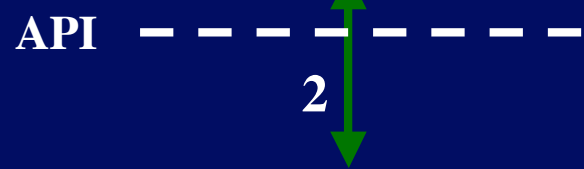
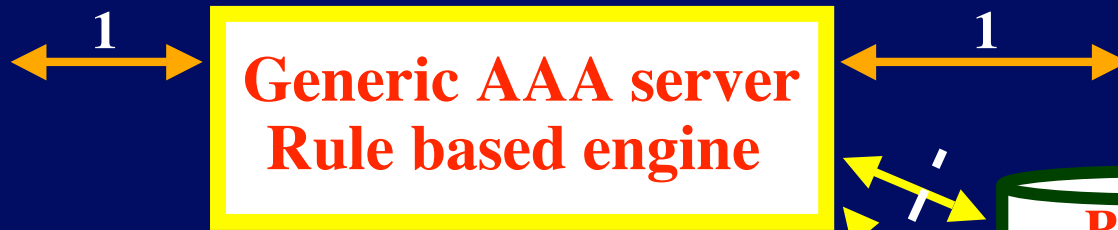


## PUSH





Starting point



PDP



PEP

1

1

2

3

4

3

5

5

4'

3

## Agenda 50th IETF

CHAIRS: Cees de Laat <delaat@phys.uu.nl>  
John Vollbrecht <jrv@interlinknetworks.com>

Cees de Laat	Agenda bashing, FNT and opening remarks
Cees de Laat	draft-irtf-aaaarch-generic-struct-00.txt
John Vollbrecht	draft-irtf-aaaarch-session-id-00.txt
Sebastian Zander	draft-irtf-aaaarch-pol-acct-02.txt
Guus Sliepen	draft-irtf-aaaarch-aaa-pol-01.txt
Guus Sliepen	draft-taal-aaaarch-generic-pol-01.txt
Steven Tuecke	security in the grid, overview
Bob Morgan	Shibboleth update
Bob Morgan	OASIS security-services TC
Henk Jonkers	Accounting Examples
chairs	closing remarks, next steps, summary, collect pink sheets

## Opening remarks

- **since San Diego:**
  - interim meeting in Utrecht -> draft
  - 3 new drafts
  - 2 reworked
  - 2 teleconferences
    - » About 8 participants
  - Discussion started with Grid-Forum
- **Participation/contribution**
  - Apart from about 3 or 4 places -> POOR!
- **Evening meeting**
- **Re-charter (or not)**

- **The architecture's focus is to support AAA services that:**
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## Charter - research items

- develop generic AAA model by specifically including Authentication and Accounting **UNDERWAY**
- develop audit-ability framework specification that allows the AAA system functions to be checked in a multi-organization environment **NJET**
- develop a model that supports management of a "mesh" of interconnected AAA Servers **UNDERWAY**
- describe inter-domain issues using generic model **NJET**
- work with AAA WG to align short term AAA protocol requirements with long term requirements as much as possible **COULD be WORSE**
- define distributed policy framework, coordinate with policy framework WG and others **UNDERWAY**
- develop an accounting model that allows authorization to define the type of accounting processing required for each session **DONE**
- implement a simulation model that allows experimentation with the the proposed architectural models **UNDERWAY**
- complete the work in Q3 - 2000 (ambitious) **FAILED!**

## Revised charter

- **ADD:**
  1. Define the type 1 interface in a high level and abstract way.
  2. Define the functionality of the Driver Policy.
  3. Define the functionality of the type 2 interface.
  4. Work with GridForum and Internet2 to include APP-SEC
  5. Work with RAP group on standards
  6. Define exactly which doc's to produce and get it done (see table).
  
- **REMOVE**
  1. Time constrain to create room for research
  
- **FIND**
  1. Draft authors

## Research Group - info



- **Research Group Name: AAAARCH - RG**
- **Chair(s)**
  - John Vollbrecht -- [jrv@interlinknetworks.com](mailto:jrv@interlinknetworks.com)
  - Cees de Laat -- [delaat@phys.uu.nl](mailto:delaat@phys.uu.nl)
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