# IRTF - AAAARCH - RG Authentication Authorisation Accounting ARCHitecture RG

chairs:

C. de Laat and J. Vollbrecht



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

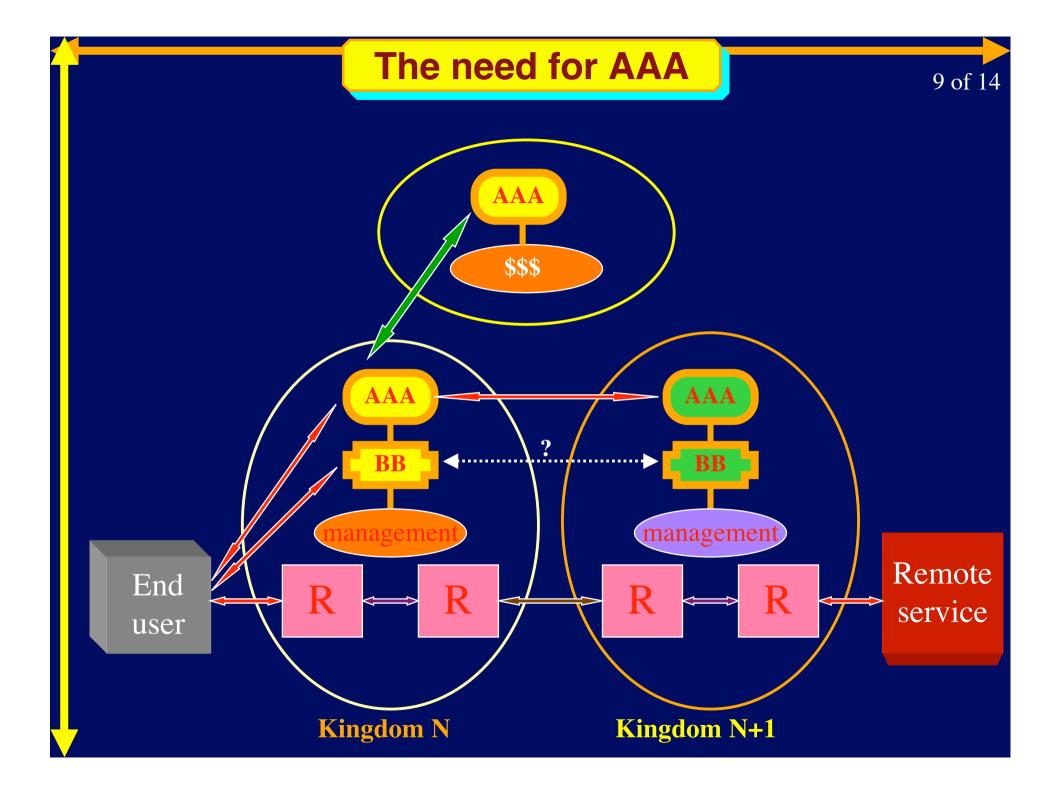
- Where do I find this or that service
- What am I allowed to do
- What do I need to do to get authorization
- What does it cost

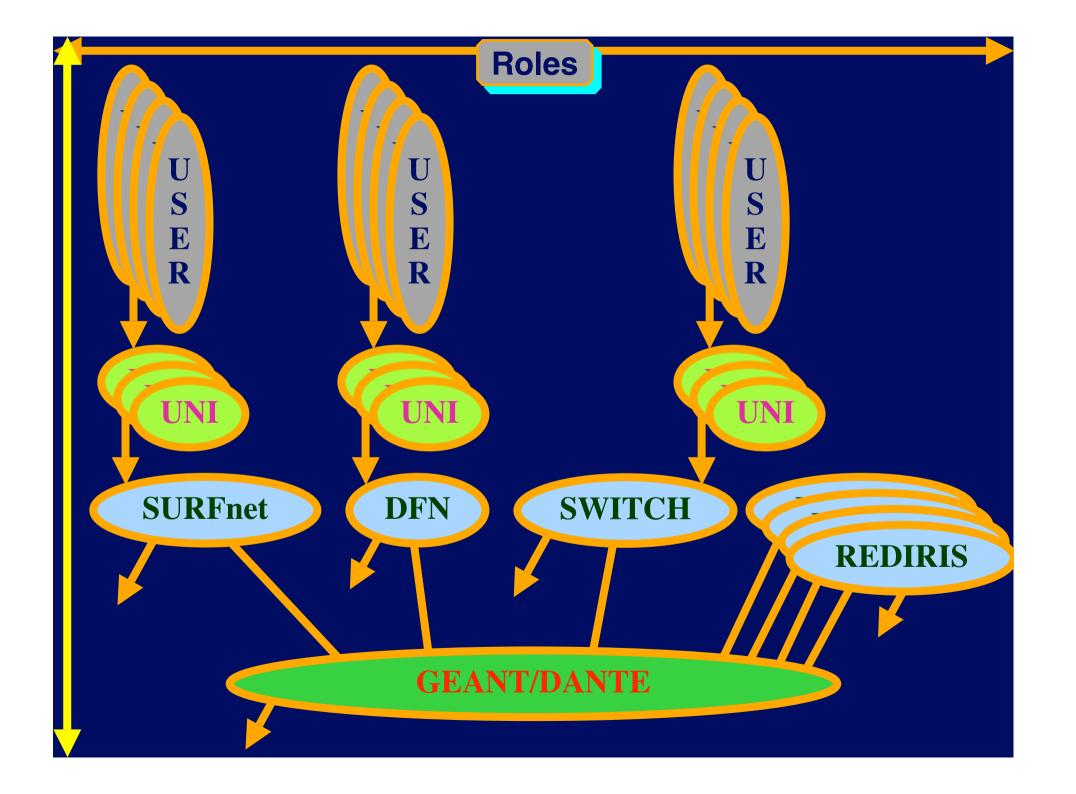
#### Intermediaries perspective

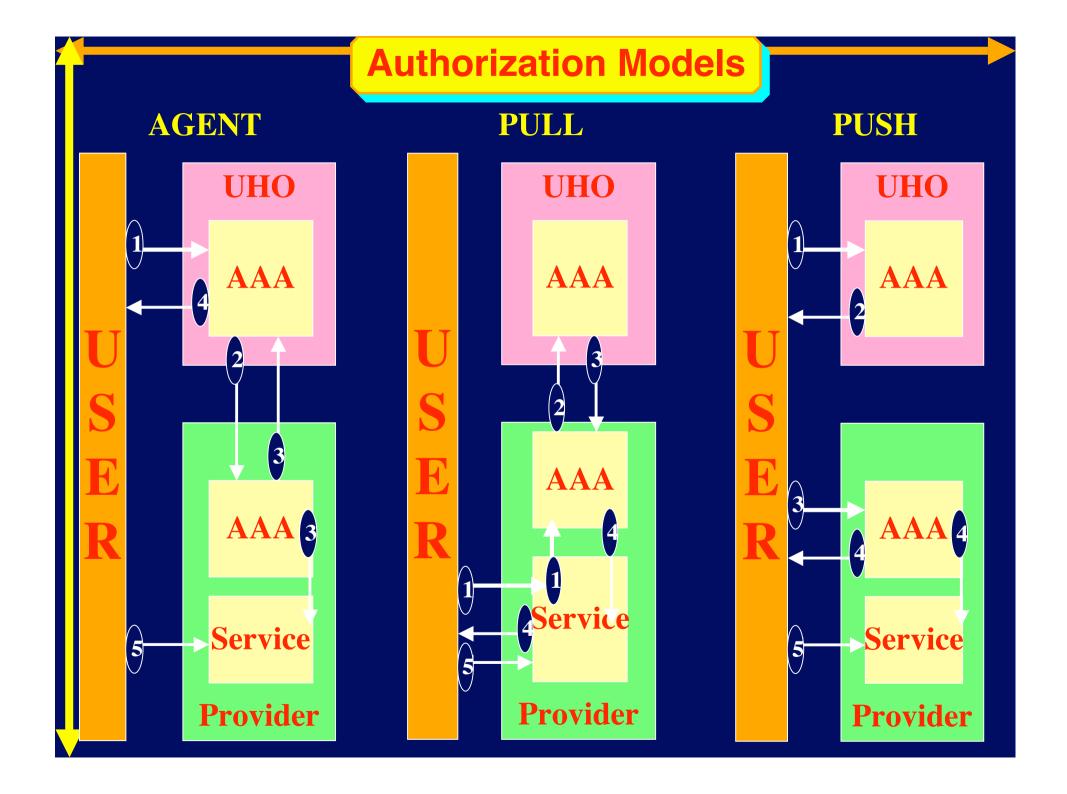
- Service creation
- Brokerage / portals

## Organizational perspective

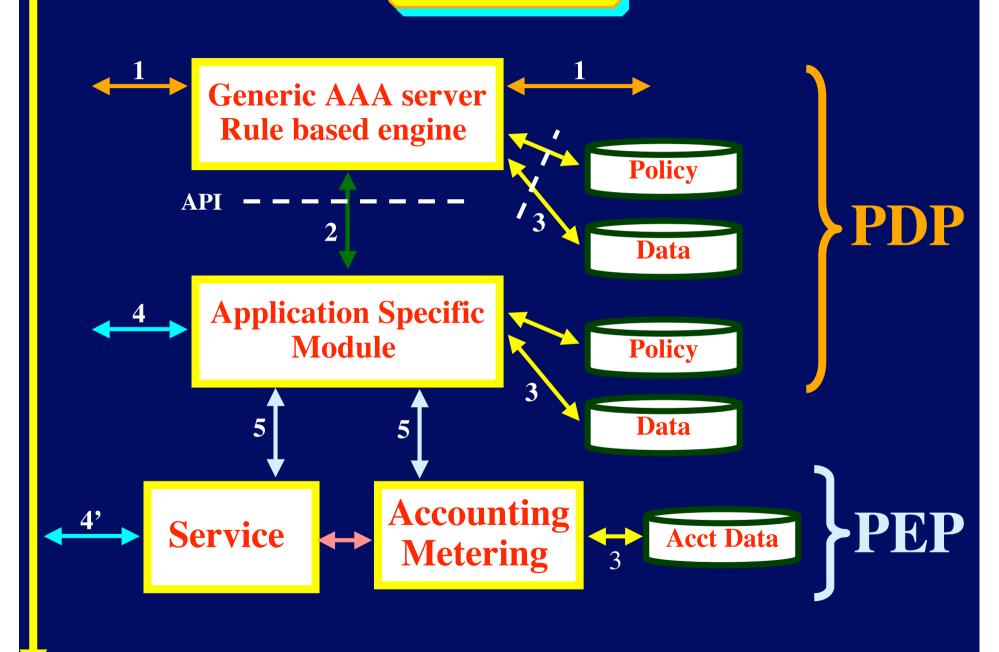
- What do I allow my people to do
- Contractual relationships (SLA's)

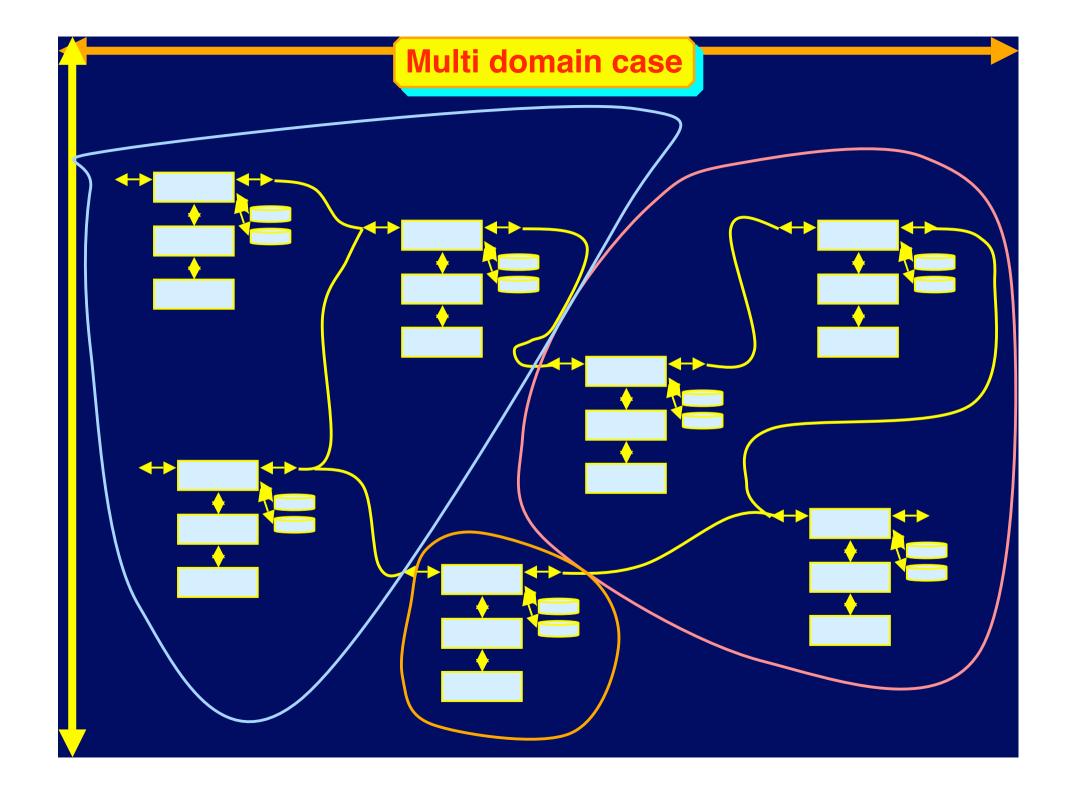






# **Starting point**





## Agenda 50th IETF

CHAIRS: Cees de Laat <delaat@science.uva.nl>

John Vollbrecht <jrv@interlinknetworks.com>

Cees de Laat

Cees de Laat

John Vollbrecht

Sebastian Zander

Guus Sliepen

Guus Sliepen

Steven Tuecke

Bob Morgan

Bob Morgan

Henk Jonkers

chairs

Agenda bashing, FNT and opening remarks

draft-irtf-aaaarch-generic-struct-00.txt

draft-irtf-aaaarch-session-id-00.txt

draft-irtf-aaaarch-pol-acct-02.txt

draft-irtf-aaaarch-aaa-pol-01.txt

draft-taal-aaaarch-generic-pol-01.txt

security in the grid, overview

Shibboleth update

OASIS security-services TC

**Accounting Examples** 

closing remarks, next steps, summary,

collect pink sheets

#### Agenda 51th IETF

```
CHAIRS: John Vollbrecht < jrv@interlinknetworks.com >
        Cees de Laat < delaat@science.uva.nl >
Cees de Laat
                      10 : Agenda bashing, FNT and opening remarks
Cees de Laat
                      10 : Status, drafts and ongoing activities
Christian Hesselman
                     10 : Content and QoS Policies in Multi-domain
                           Heterogeneous Mobile Systems
                      40 : draft: draft-ietf-rap-access-bind-00.txt
Walter Weiss
                           title: "Framework for Binding Access Control
                                   to COPS Provisioning"
John Vollbrecht
                      20 : discussion: next steps AUTH-PIB
                           see memo on mailing list
Arie Taal
                      29 : draft: draft-irtf-aaaarch-generic-pol-00.txt
                           title: A grammar for Policies in a Generic
                                  AAA Fnyironment
Guus Sliepen
                       1 : draft: draft-irtf-aaaarch-aaa-pol-01.txt
                           title: Policies in AAA
Bob Morgan
                      15: Shibboleth and related projects update,
                           impact of Globus
chairs
                      15 : closing remarks, next steps, summary,
                     === collect colored sheets
                     150
```

## **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)

## **Opening remarks**

- since Minneapolis:
  - -1 new draft in AAAARCH, 1 (AUTH) in RAP
  - -1 AUTH related interim meeting in Utrecht
  - -0 reworked
  - –0 teleconferences in AAAARCH
  - -About 10 teleconferences related to AUTH
- Participation/contribution
  - Apart from about 3 or 4 places -> POOR!
- Re-chartered

#### **Charter - research items**

- develop generic AAA model by specifically including Authentication and Accounting UNDERWAY
- develop auditability framework specification that allows the AAA system functions to be checked in a multi-organization environment NJET
- develop a model for management of a "mesh" of interconnected AAA Servers NJET
- describe interdomain issues using generic model NJET
- define in a high level and abstract way the interfaces between the different components in the architecture UNDERWAY
- define distributed AAA related policy framework ON THE TABLE
- develop an accounting model that allows authorization to define the type of accounting processing required for each session ON THE TABLE
- implement a simulation model that allows experimentation with the proposed architecture UNDERWAY
- work with RAP-WG to develop an Authentication Information management model ON THE TABLE
- work with GRID-Forum to align the security and AAA architectural ideas UNDERWAY

#### **Current drafts**

1. draft-irtf-aaaarch-aaa-pol-01.txt Title: Policy in AAA

2. draft-spence-aaaarch-objmsg-00.txt
Title: Data Objects and Message Types in the Generic AAA Architecture

3. draft-irtf-aaaarch-session-id-00.txt Title: Session ID

4. draft-irtf-aaaarch-generic-struct-00.txt Title: Structure of a Generic AAA Server

5. draft-taal-aaaarch-generic-pol-01.txt (superceded by 6) Title: Policies in a Generic AAA Environment

6. draft-irtf-aaaarch-generic-policy-00.txt
Title: A grammar for Policies in a Generic AAA Environment

7. draft-irtf-aaaarch-pol-acct-03.txt SUBMITTED FOR RFC Title: Policy-based Accounting

## Research Group - info

- Research Group Name: AAAARCH RG
- Chair(s)
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