

# **P**rotocol for carrying **A**uthentication for **N**etwork **A**ccess (PANA)

**IETF-53 March 18th, 2002**

Basavaraj Patil/Nokia  
Alper Yegin/Docomo USA Labs

# Agenda

- |   |   |         |             |
|---|---|---------|-------------|
| <ul style="list-style-type: none"><li>• Agenda Bashing</li><li>• WG Documents</li><li>• PANA charter</li></ul>              | } | 15 Mins | B. Patil    |
| <ul style="list-style-type: none"><li>• Requirements Discussion</li></ul> <p><i>draft-ietf-pana-requirements-01.txt</i></p> |   | 30 Mins | A. Yegin    |
| <ul style="list-style-type: none"><li>• PANA and EAP</li></ul>  |   | 20 Mins | G. Tsirtsis |
| <ul style="list-style-type: none"><li>• Usage Scenarios</li></ul> <p><i>draft-ietf-pana-usage-scenarios-01.txt</i></p>      |   | 20 Mins | H. Soliman  |
| <ul style="list-style-type: none"><li>• Framework Discussion</li></ul>  |   | 25 Mins | Y. Ohba     |
| <ul style="list-style-type: none"><li>• Local Security Assoc. in PANA</li></ul>   |   | 10 Mins | F. Le       |

# Status of WG Docs

- **Requirements and Terminology I-D (Informational)**
  - Design team completed version 0 end of Jan.
  - Version 1 is a result of discussion on the WG ML
  - Will go to WG last call after IETF53
- **Usage Scenarios (Informational)**
  - Revision 1 under discussion
  - May need a couple of more iterations before going to last call



# PANAs Goals

- As stated very clearly in the charter and quite simple.
- Reemphasizing:
- An *\*access network\** or *\*layer 2\** agnostic mechanism for interfacing end hosts with the authentication and authorization infrastructures in the network
- Why?
- Because a single mechanism that performs the authentication and authorization function would make hosts simpler to implement, deploy and interwork

PANA will define (or select) a protocol for network access that will be:

- **Layer 2 agnostic**
  - independent of access technology
- **IP-version agnostic**
  - Works with both IPv4 and IPv6
- **Support multiple authentication schemes**

# Current Mechanisms

- Use of PPP to carry authentication information
- And in certain scenarios the use of PPPoE simply for the purpose of authentication
- Network specific authentication mechanisms
  - GSM networks
  - CDMA networks
  - 802.1x in WLAN
- Web/HTTP based mechanisms (redirect to web site)

Focus of this WG

PANA

### Access Networks



WLAN network

Widearea Cellular network

Wireline ISP network

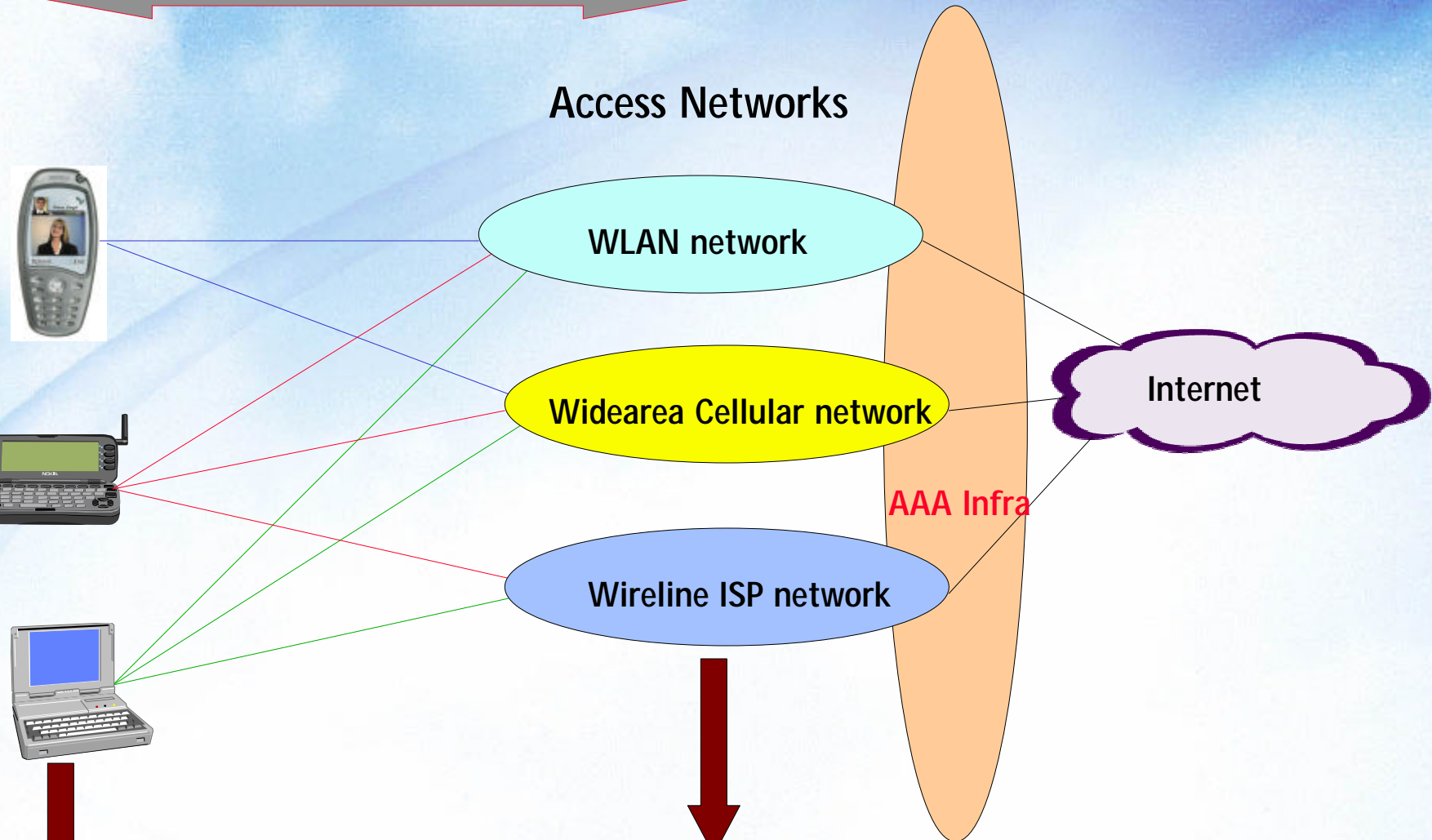
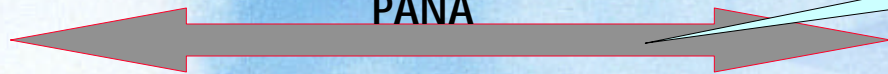
AAA Infra

Internet

Pana Client (PaC)

Pana Auth. Agent (PAA)

PANA – IETF53





# Moving Forward

- **Agree on requirements**
- **Develop a framework – Should be relatively a small effort**
- **Propose a protocol as solution (Design/Choose)**
- **Go implement!**