

CTP for PANA

draft-bournelle-pana-ctp-00.txt

Julien Bournelle

Maryline Laurent-Maknavicius

Hannes Tschofenig

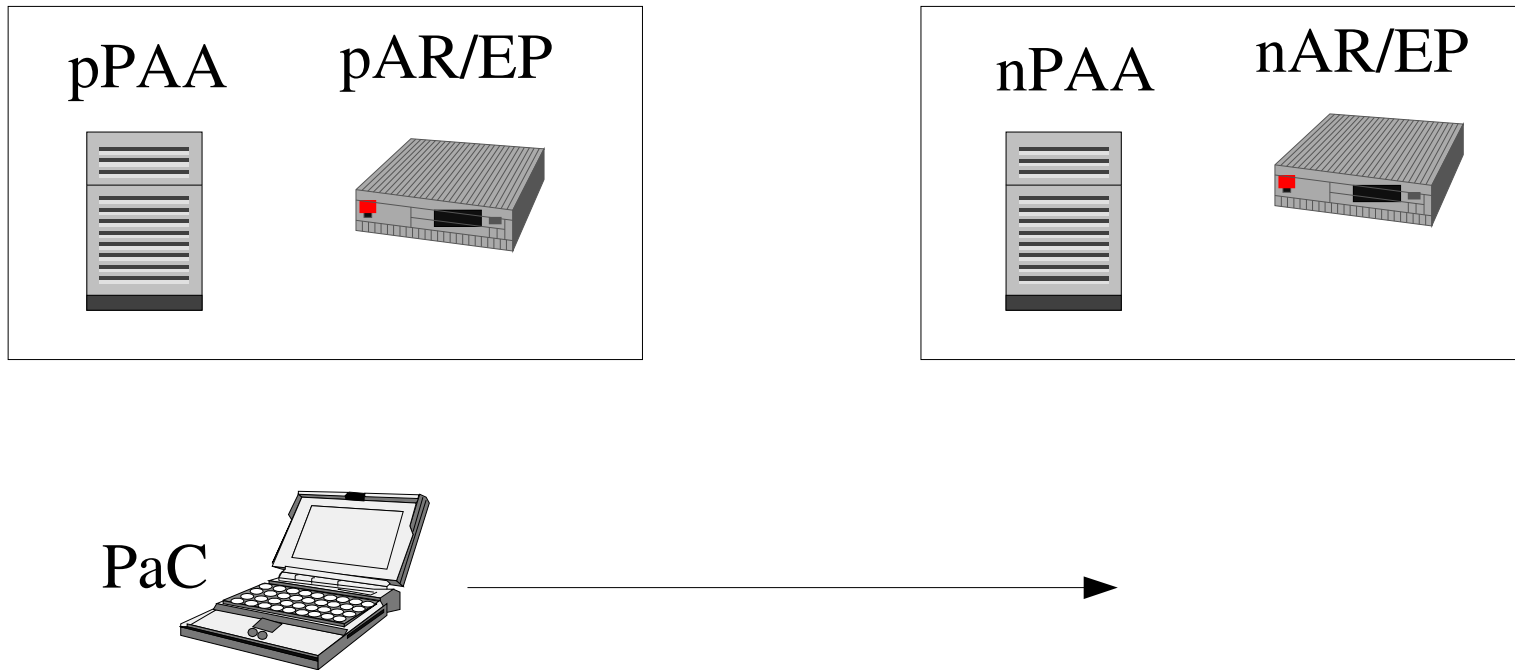
Yacine El Mghazli

Gerardo Giaretta

Outline

- Problem
- Aim of this I-D
- Issues

Re-authentication from scratch ?



nPAA will authenticate PaC whereas it has already been authenticated by pPAA

Basic ideas

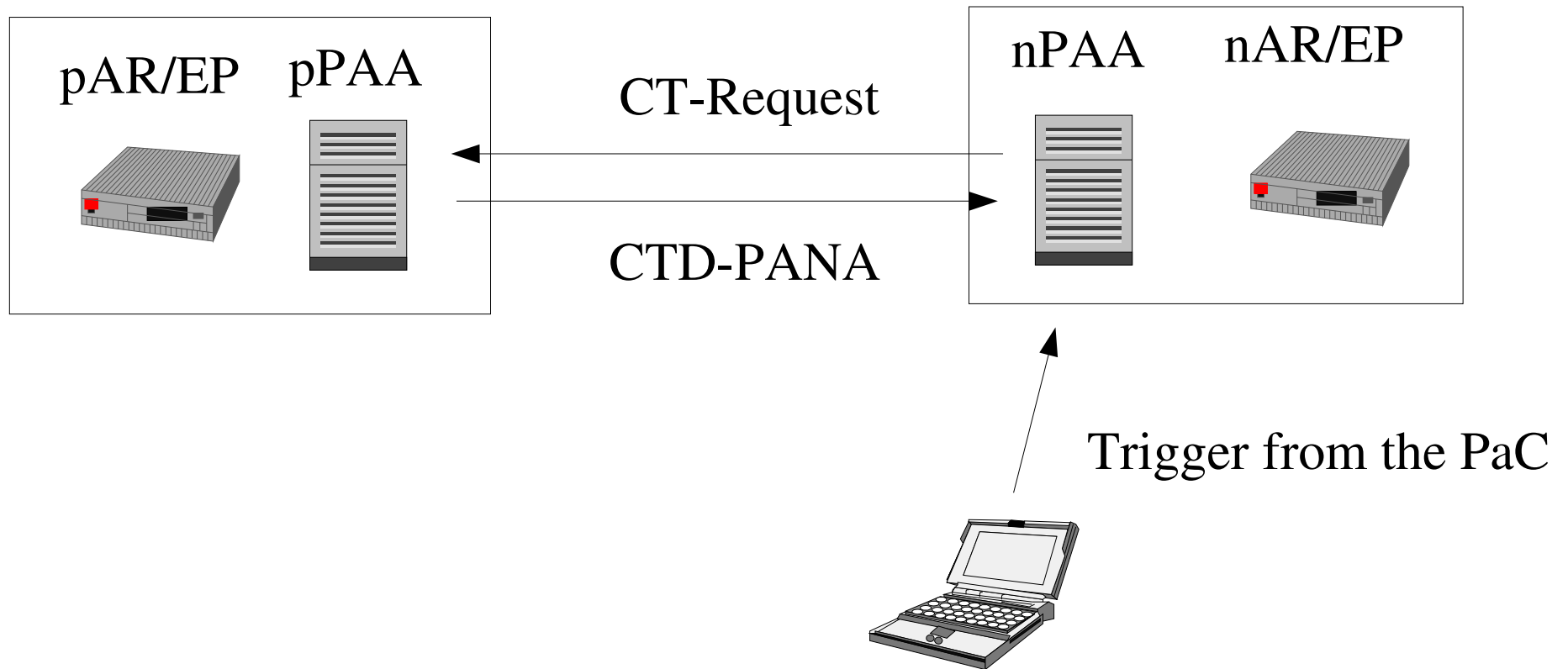
- Use of CTP should improve handover performance in mobile environments
- PANA specs handle this problem in section 4.12 “Mobility handling” and mention use of CTP
- This draft tries to detail procedure and specify what should be transferred as required in CTP.

“Contexts are identified by FPT code, which is a 16-bit unsigned integer. The meaning of each context type is determined by **a specification document** and the context type numbers are to be tabulated in a registry maintained by IANA [IANA]...”

2 cases to be considered

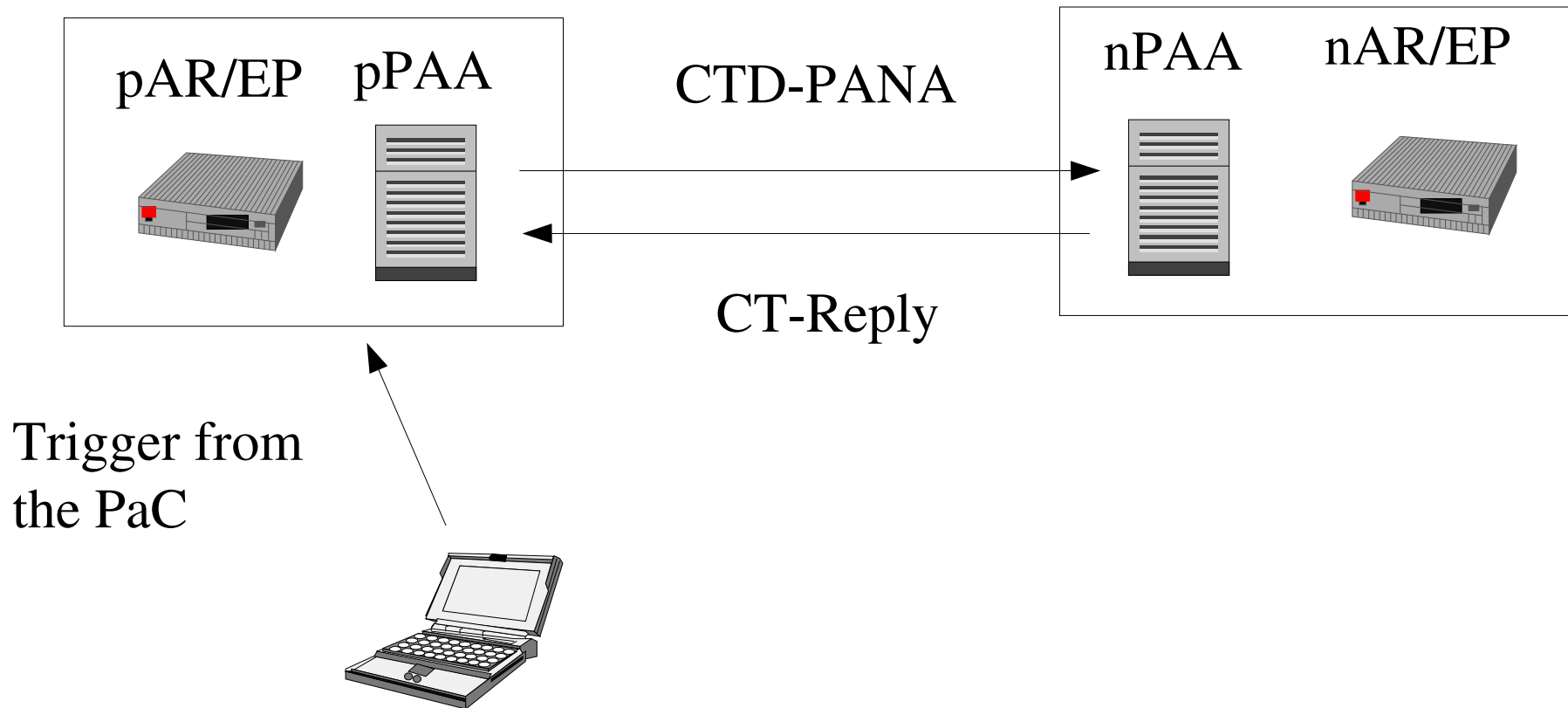
- Reactive case
 - CTP after the IP handover
- Predictive case
 - CTP before the IP handover

Reactive case



- PaC has already performs its IP handover

Predictive case



- PaC knows its nAR/EP
- After handover, PaC must confirm

Various issues (I)

- CTP mentions use of CTAR message to trigger the transfer.
 - seems necessary in predictive case
 - may be avoided in reactive case (cf. PANA spec)
- Who enables the transfer ?
 - in CTP: MN and pAR shares a key. The pAR validate an authentication token (CTAR)
 - if PAA (PANA module): can we still talk about CTP ?

Various issues (II)

- Do we need to introduce new state in state machine ? (in which state is the PAA during CTP transfer)
- PAAs are not ARs (CTP mentions ARs)
- Should we handle inter-domain scenario ?

Thanks

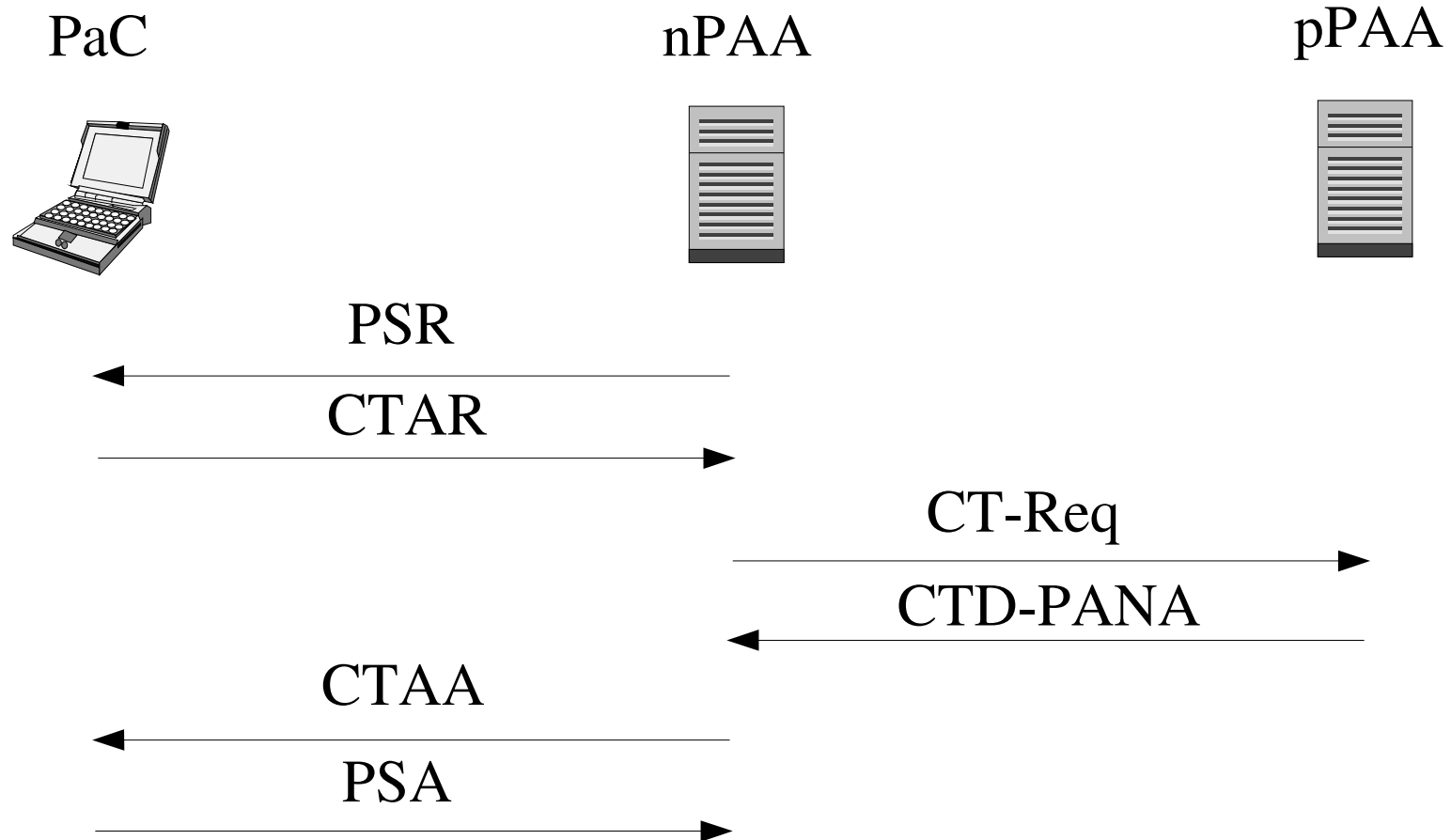
Backup Slides

PANA Context

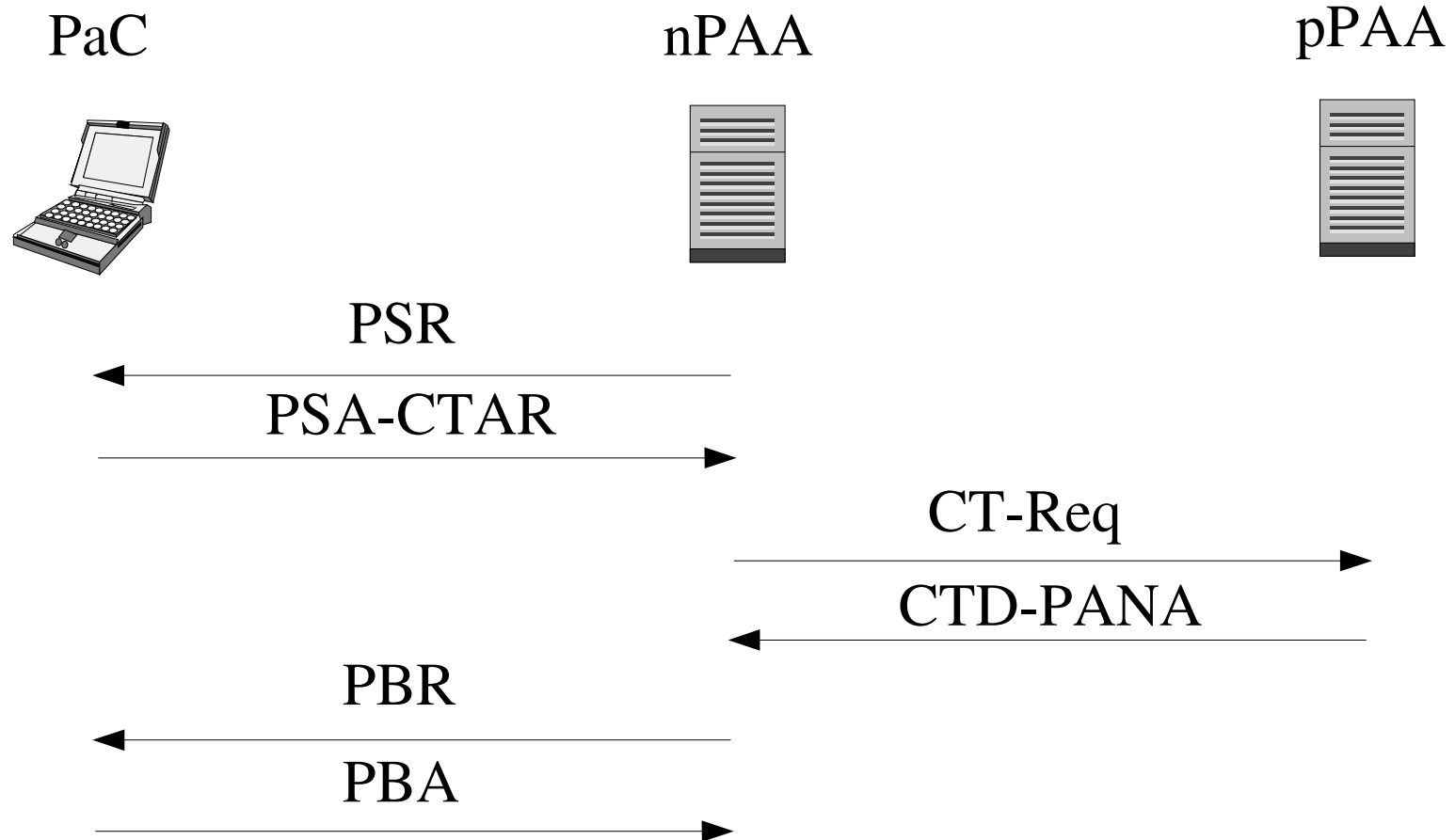
- Session-Lifetime Elapsed
- AAA-Key-int
- AAA server who performed the authentication

Reactive case: 3 approaches

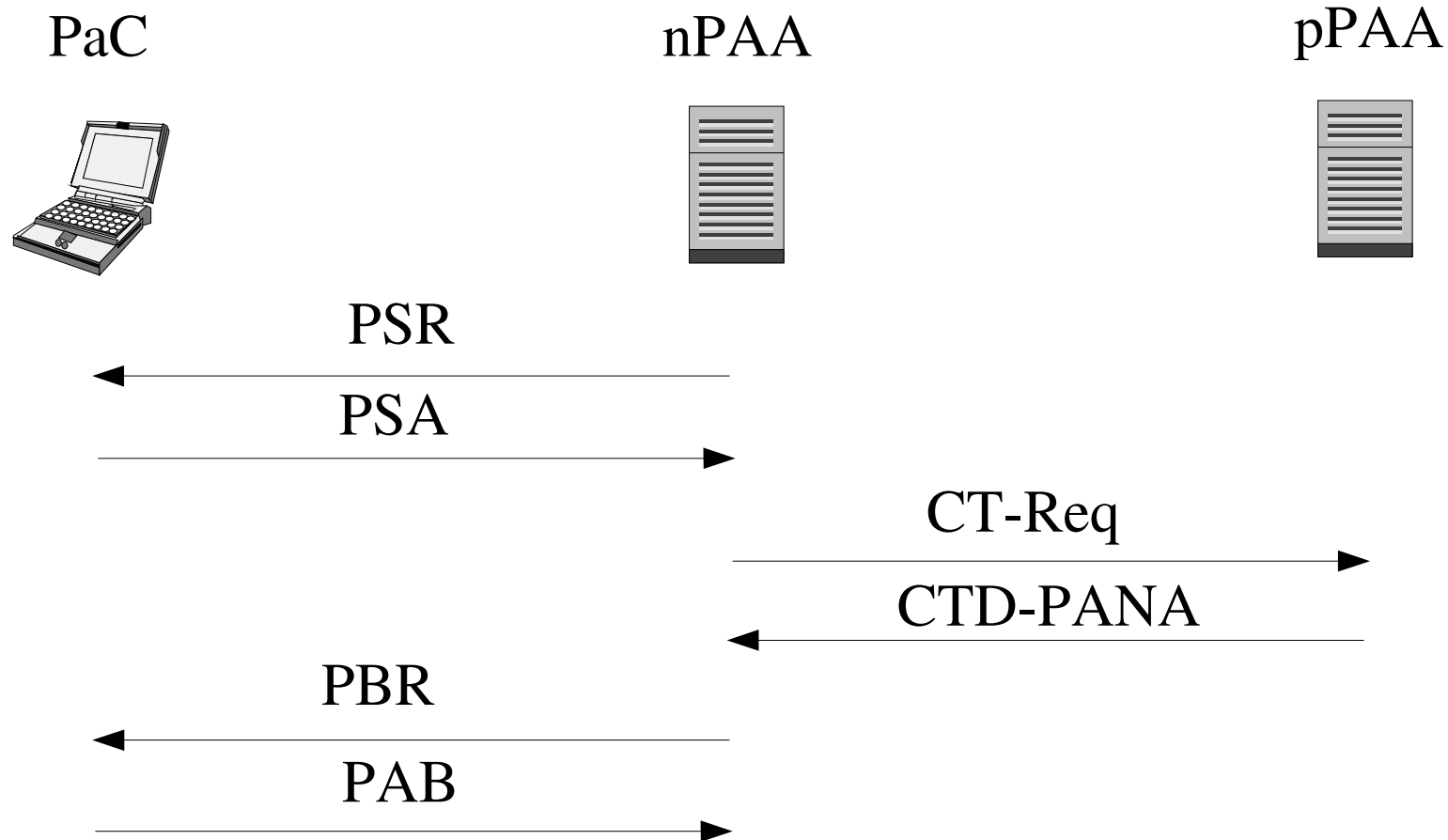
Seamoby CTP friendly (#1)



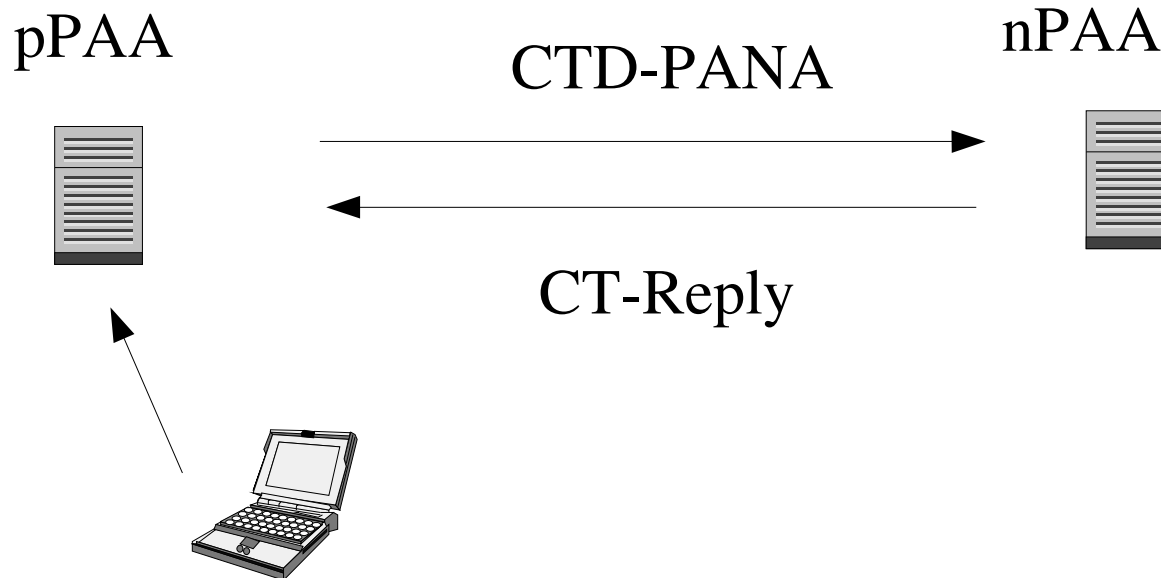
Our proposal (#2)



PANA specs proposal (4.12) (#3)



Predictive case



- PaC sends a CTAR to pPAA
- PaC must activate the context at nPAA: nPAA must validate this request