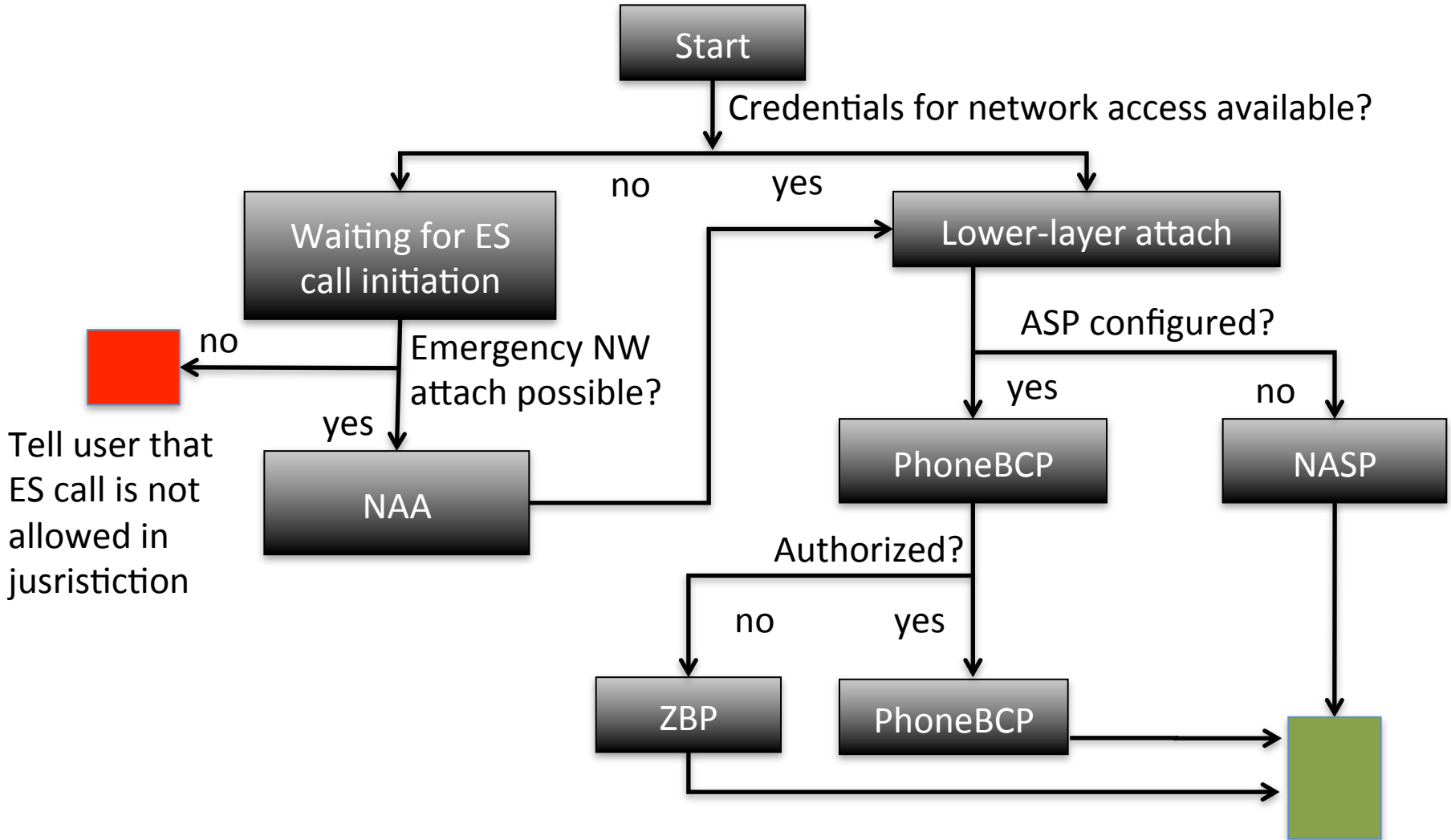# Extensions to the Emergency Services Architecture for dealing with Unauthenticated and Unauthorized Devices

H. Schulzrinne, S. McCann, G. Bajko,
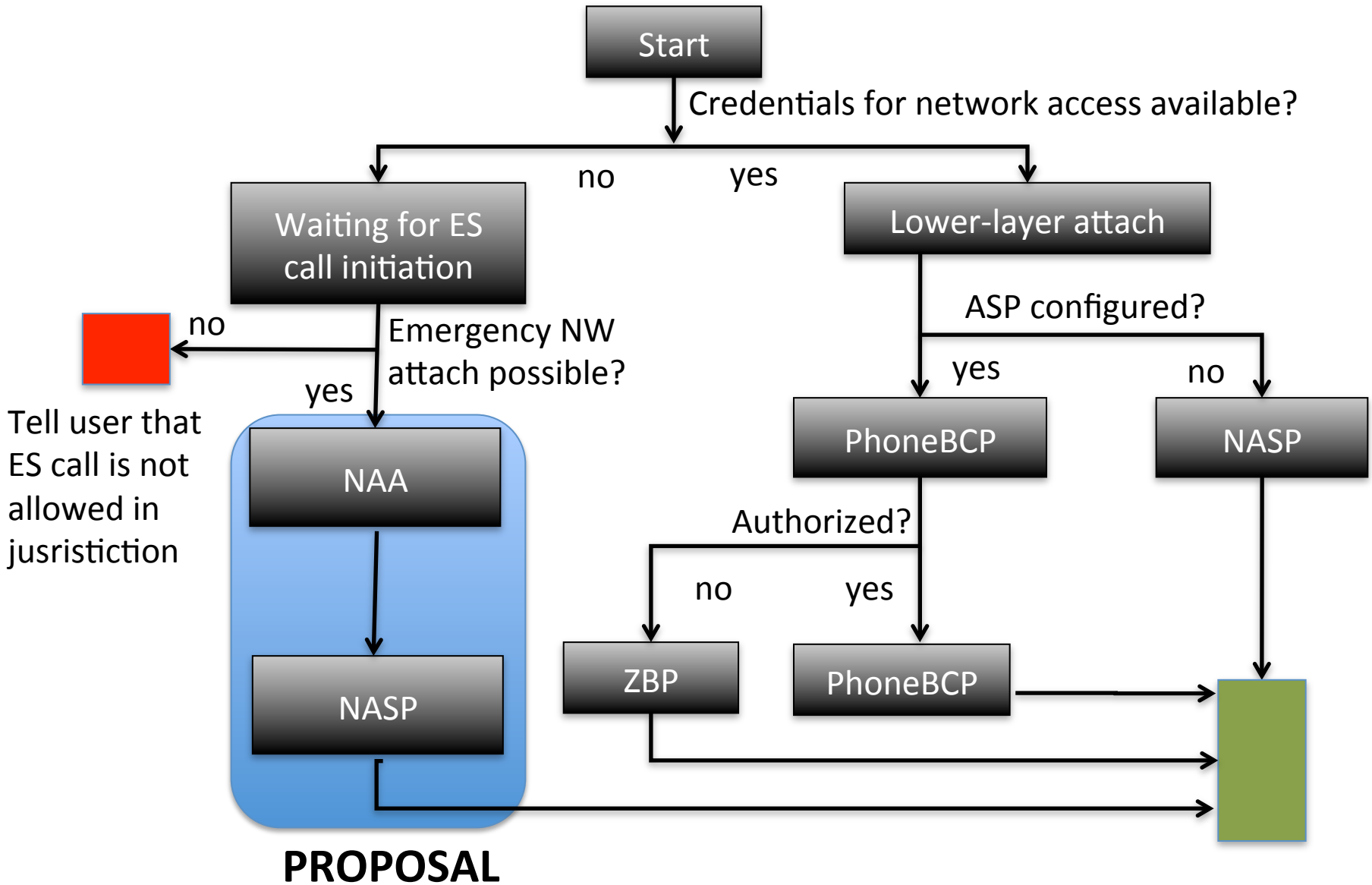H. Tschofenig, D. Kroeselberg

Status

- draft-ietf-ecrit-unauthenticated-access-03.txt addressed editorial comments from Bernard Aboba, Martin Thomson, and Marc Linsner.

- Presentation solicits feedback from WG on version -04 draft.

- Scope of the draft:
  - No Access Authentication (NAA)
  - No ASP (NASP)
  - Zero-balance ASP (ZBP)

Issue #1: Current No Access Authentication (NAA) Architecture: Fraud Problem

Start

Credentials for network access available?

no / yes

Waiting for ES call initiation

Lower-layer attach

ASP configured?

Emergency NW attach possible?

yes / no

no

yes

NAA

PhoneBCP

NASP

Tell user that ES call is not allowed in jusristiction

Authorized?

no / yes

ZBP

PhoneBCP

Issue #1: Revised No Access Authentication (NAA) Architecture

Issue #2: Deployment Reality

- Today's networks suffer from many limitations.
  - Traffic inception (e.g., HTTP redirect)
  - Lots of user-interaction for network access
- Described solution cannot be deployed with today's network.
- **PROPOSAL**: Add a section to warn about challenges.

Issue #3: Lack of network access authorization

- The NAA case only focuses on the lack of credentials but does not consider the case where credentials are available but network access authorization fails nevertheless.

- Lack of authorization at the application layer is covered.

- **QUESTION**: Should authorization failure for network access authentication also be described?

Issue #4: Document Writing Style

- Draft states the steps that are necessary for performing the emergency call.
- Alternative:
  - Cite selected parts from Phone BCP and say what is not applicable.
  - Summarize what is different.
- **PROPOSAL**: Leave as is.

New Table of Contents

- Introduction
- Limitations
- Terminology
- Architecture
- Zero-balance ASP (ZBP) Procedures
- No ASP (NASP) Procedures
- No Access Authentication (NAA) Procedures
- Security Considerations