



**.at the top**

# Zap Emergency Call Demo

<http://ecrit.labs.nic.at>

# Introduction

- nic.at
  - Austrian Domain Name Registry ( .at domains)
- Karl Heinz Wolf
  - working on the nic.at emergency call project
  - Implementations (based on existing software)
    - SIP Client with prototype emergency call support
    - Wireshark: support for decoding DHCP location information (RFC 4776, RFC 3825)
    - openLLDP: MED Location Identification support

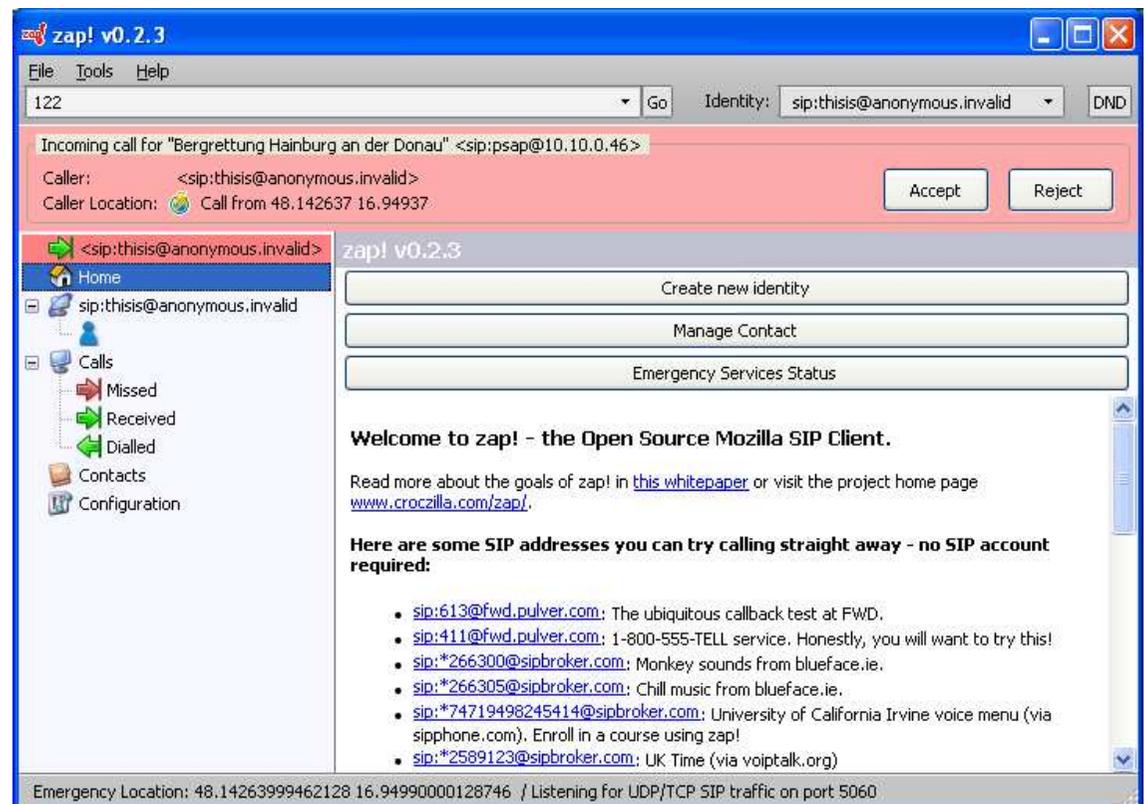
# Demo Overview

- 1) SIP call + location conveyance
  - Location Configuration
  - Call remote party and convey location information
- 2) SIP emergency call demonstration
  - Location Configuration
  - Find PSAP
  - Call PSAP and convey location information

# Zap!

- Mozilla Project
- Open Source SIP Client
- Cross platform

• <http://www.croczilla.com/zap>





# Zap! Enhancement

- Caller features
  - Location Determination/Configuration
  - Service Discovery
  - Conveyance of Location Information
- PSAP features
  - Show location of the caller
  - Google Maps link

# Implemented Caller Features

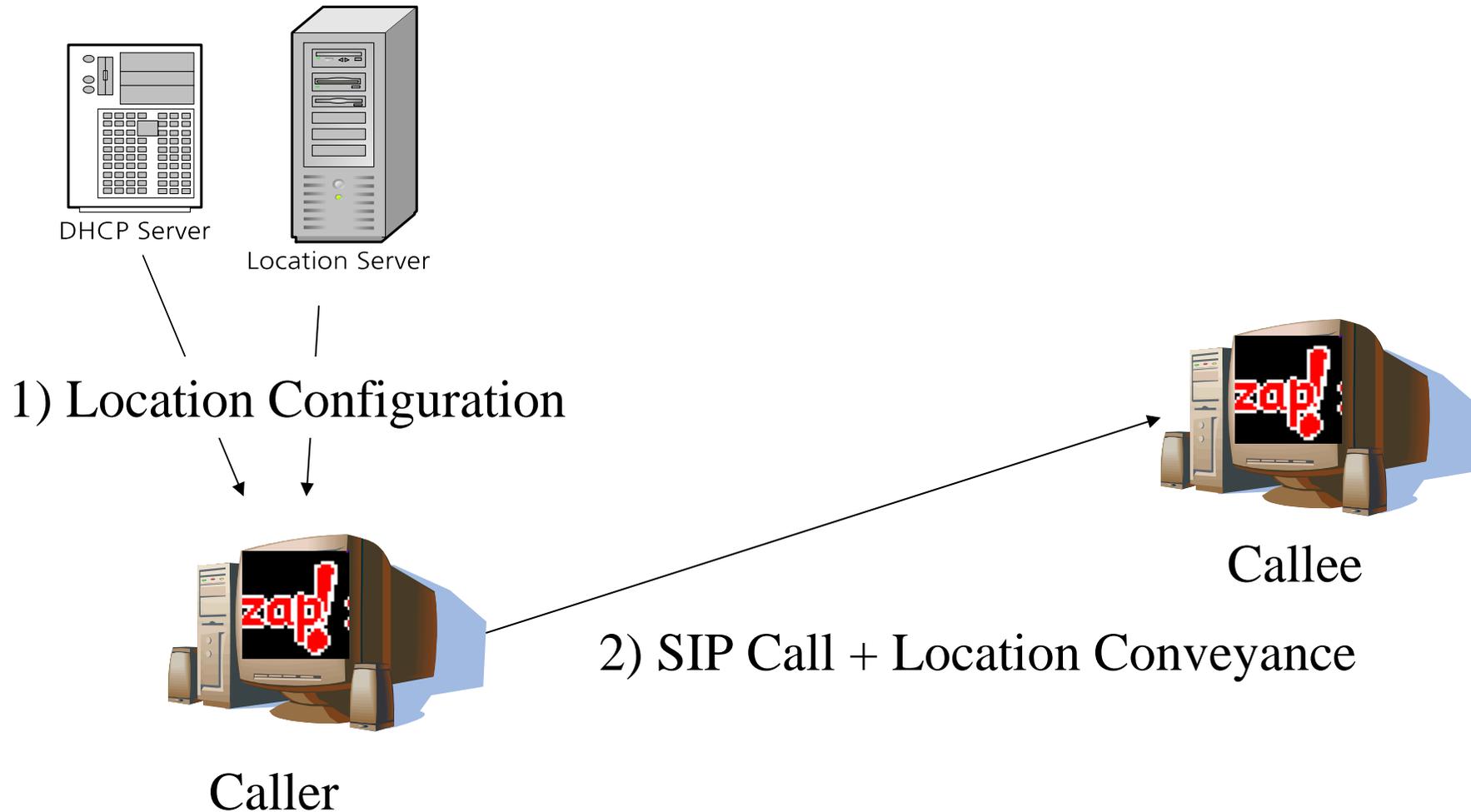
- Location Configuration/Determination
  - HELD
  - DHCP (RFC 4776, RFC 3825)
  - LLDP-MED (with openLLDP)
  - GPS
- Service Discovery: LoST
- Emergency Call Detection: Dialstring
- SIP Location Conveyance (by value) for emergency calls – optional for non-emergency calls

# Implemented PSAP Features

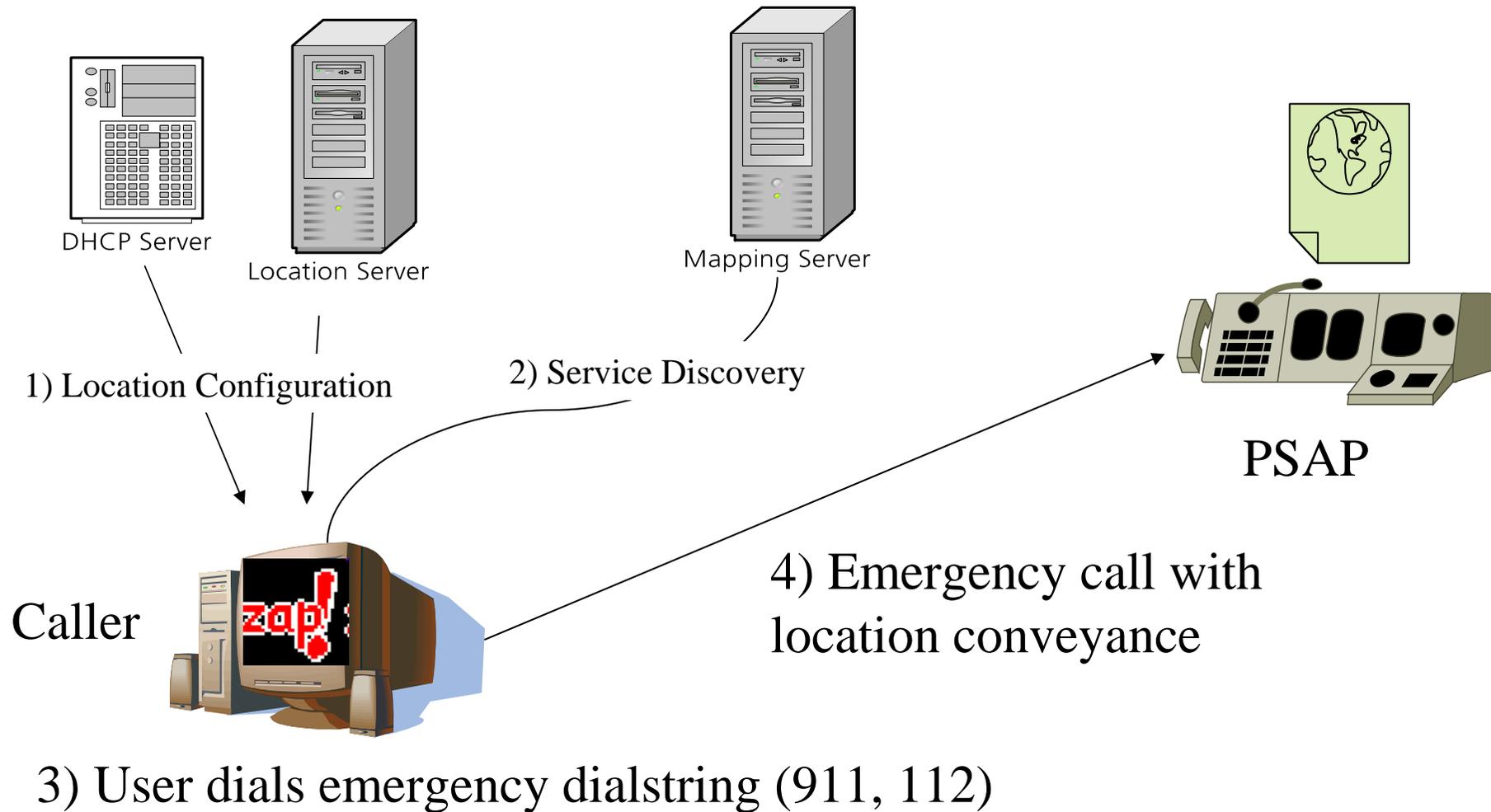
- process location data
  - Parse PIDF-LO of inbound call
  - show location of the caller to the call taker
  - link to Google Maps



# 1. Call + Location Conveyance



## 2. Emergency Call



# Zap utilization

- IETF'72 Code Sprint
  - First VoIP Emergency Call at an IETF meeting
  - <http://geopriv.googlepages.com>
- IN911 (see Byron's presentation)
- Other US 911 companies plan to use it as reference client for their tests
- Open source, download at <http://ecrit.labs.nic.at>



**Thank you for your attention!**

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<http://ecrit.labs.nic.at>

<http://www.handbuch-notruf.at>