

Assisted GPS (A-GPS) project

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Mobile Arts

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- ▶ HQ in Stockholm
 - ▶ Branch offices in UK and Russia
- ▶ 14 employees

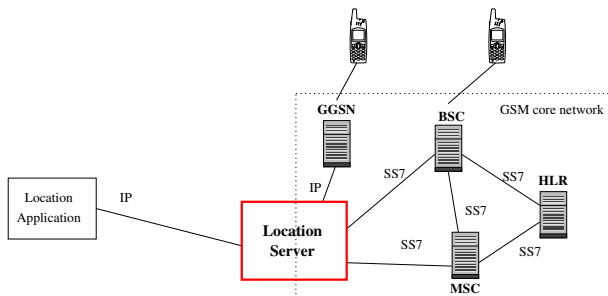
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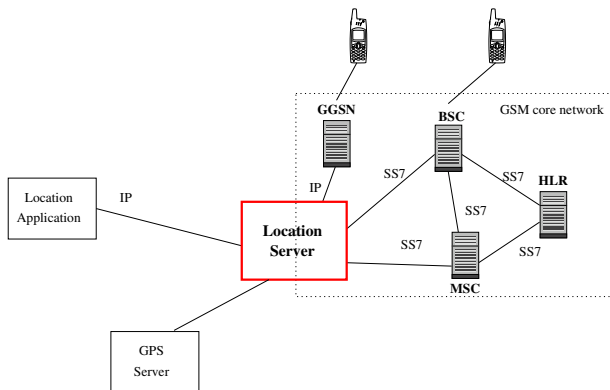
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- ▶ Telecom products for operator domain, i.e. highly reliable etc.

GSM/UMTS network



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Project Goals

- ▶ Implement GPS server
- ▶ Implement Demo Location Application
- ▶ Test in real GSM network

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 - ▶ if *MS-Based* → Forward assistance data to mobile and let the mobile calculate the position
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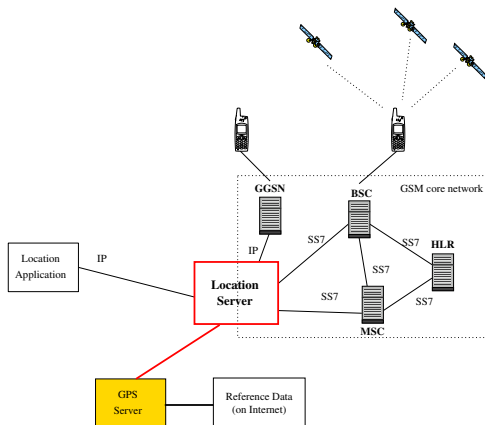
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- ▶ Location Server implemented in Erlang
 - ▶ Mobile Arts will provide an Erlang API

GPS Server



Network application

- ▶ Examples:
 - ▶ Tracking of closest taxi cab, delivery guy etc
 - ▶ Presence-dependent push-content, such as traffic information and weather forecasts
- ▶ Interface
 - ▶ Mobile Location Protocol (XML based standard)
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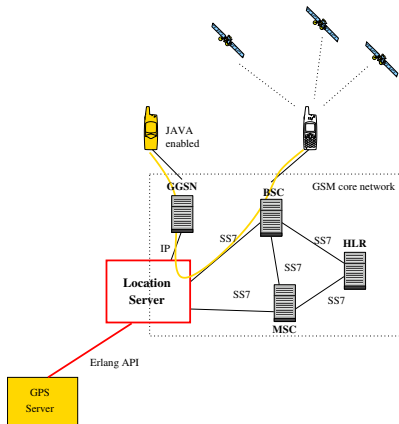
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- ▶ We want a tool that allows to show a map with the current position of the GPS mobile

Mobile application

- ▶ Examples:
 - ▶ Navigation services
 - ▶ “Friend Finder”
- ▶ Interface
 - ▶ Implement Java class in phone to access location
 - ▶ Use GPRS to send data

Mobile application architecture



Terminal



- ▶ Terminal from Mitac
- ▶ Pocket PC based
- ▶ SiRF A-GPS chipset

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- ▶ Siemens has announced similar phone

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▶ Access to Map data

- ▶ Will look in to this further...