Internet Area Working Group
Internet Draft
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GPS Over Wfi.
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Abstract

When users are at known undergroudn locations, such as tube stations they often do not have a GPS signal, as the radio waves from the satellites required cannot penetrate the earth, this draft suggests providing GPS locations over WiFI using remote IP detection for a server to respond with the correct name of clients location and the clients GPS location.

Extending this to those without WifI access the standard goes one stage further, by offering a hidden wifi network with a standard name, such as .location. The principle being that mobile devices can look for this network in cases where GPS data cannot be collected. It is hoped that this will allow those using mapping services to know where they are when travelling on underground trains etc.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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This Internet-Draft will expire on August 13, 2018.

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1. Introduction 1.1 Motivation

Those travelling underground networks, such as the London underground or the German autobahn do know where they are when underground. At best apps such as citymapper will estimate where people are based on the time the carridge takes to get to their location. It would be convient for them to know where they are. This protocol resolves this problem, not just to those who have a wireless location but also to those who do not.

1.2 The code for this servlet, implemeted in Java running on tomcat8 is available at https://www.github.com/rydal/underground.

1.3 Security considerations In order to prevent spoofing of the location https can be used.

1.4 IANA Considerations:
This document has no actions for IANA.

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