

Audit Report

P3 communications GmbH

Has been tasked by



Sprint Corporation

6391 Sprint Parkway, Overland Park, KS, 66251-4300

to measure the performance of its data services on smartphones in comparison to the other three Tier-1 carriers in the US, AT&T, T-Mobile and Verizon in a test cluster in Chicago, IL.



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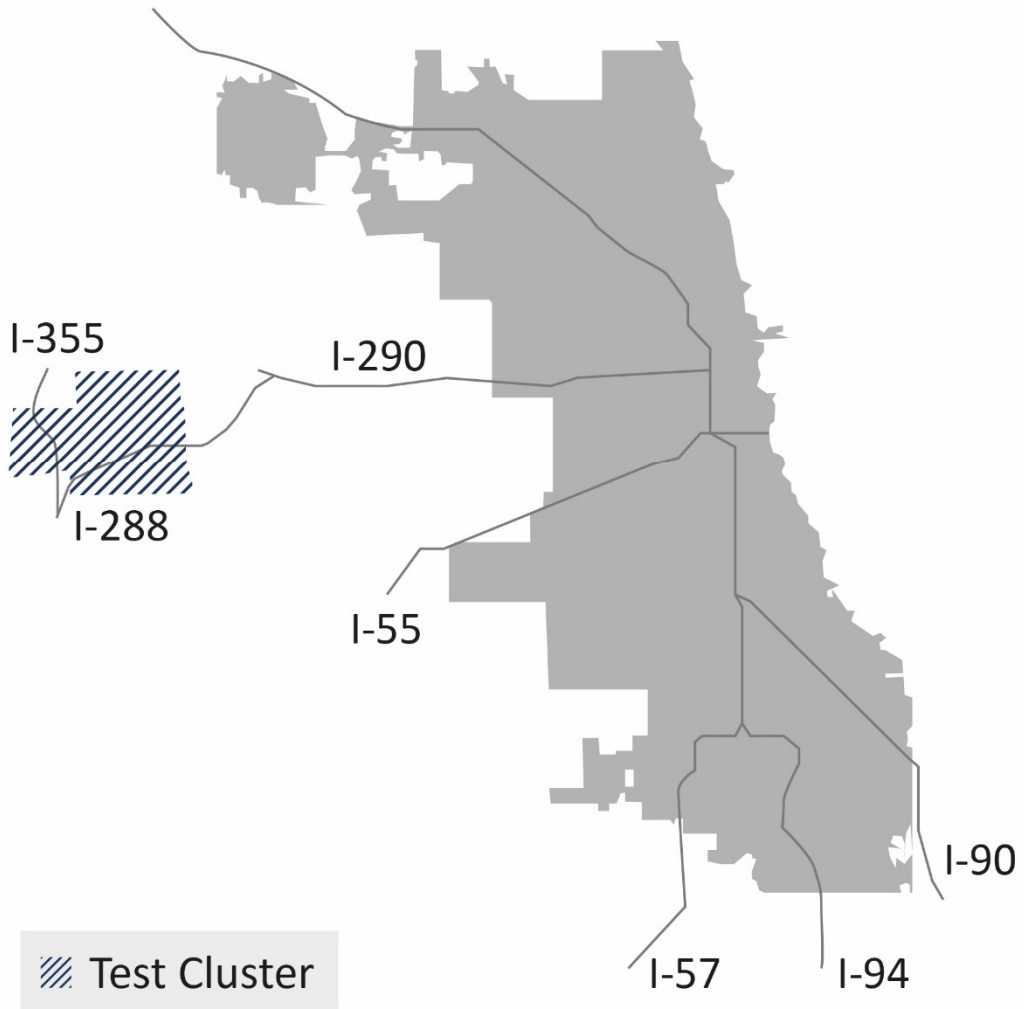
A handwritten signature in blue ink that reads "M. Kianzad".

Measurement Setup

| | Data |
|---------------------------------|--|
| Device | Samsung Galaxy S7 using the latest carrier specific FW version based on Android 6 |
| Test Cases | Data 4G preferred CA HTTP DL datastream 10s HTTP UL datastream 10s HTTP 3MB DL fixed file transfer HTTP 1MB UL fixed file transfer Web Browsing - Kepler ETSI Ref. Page 9 Live web pages (5 http, 4 https) YouTube video - 45s |
| Mobility and Route Types | 100% Drivetest, 100% in Clusters |
| Samples | ~ 220 per Operator |
| Dates | 2 measurement days April 18th – April 19th , 2017 |

Test Cluster

Chicago



Score Points and Breakdown

The following table indicates the score points achieved by the networks under test for “Data Services” as well as the breakdown of achieved points in the different service categories.

| Services | Area | Max. | Sprint | Carrier 2 | Carrier 3 | Carrier 4 |
|-------------|----------------|------------|--------|-----------|-----------|-----------|
| Data | Cluster | 600 | 479 | 440 | 433 | 304 |

Shown data and total scores are rounded

The following table indicates the achieved percentage of the maximum score in each of the different data services.

| Data | Service | Max. | Sprint | Carrier 2 | Carrier 3 | Carrier 4 |
|----------------|---------------|------|--------|-----------|-----------|-----------|
| Cluster | Web Browsing | 210 | 84% | 85% | 85% | 53% |
| | File Download | 120 | 78% | 77% | 74% | 62% |
| | File Upload | 120 | 77% | 76% | 85% | 57% |
| | YouTube | 150 | 77% | 52% | 42% | 34% |