

# 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 Denver, CO.

**P3**

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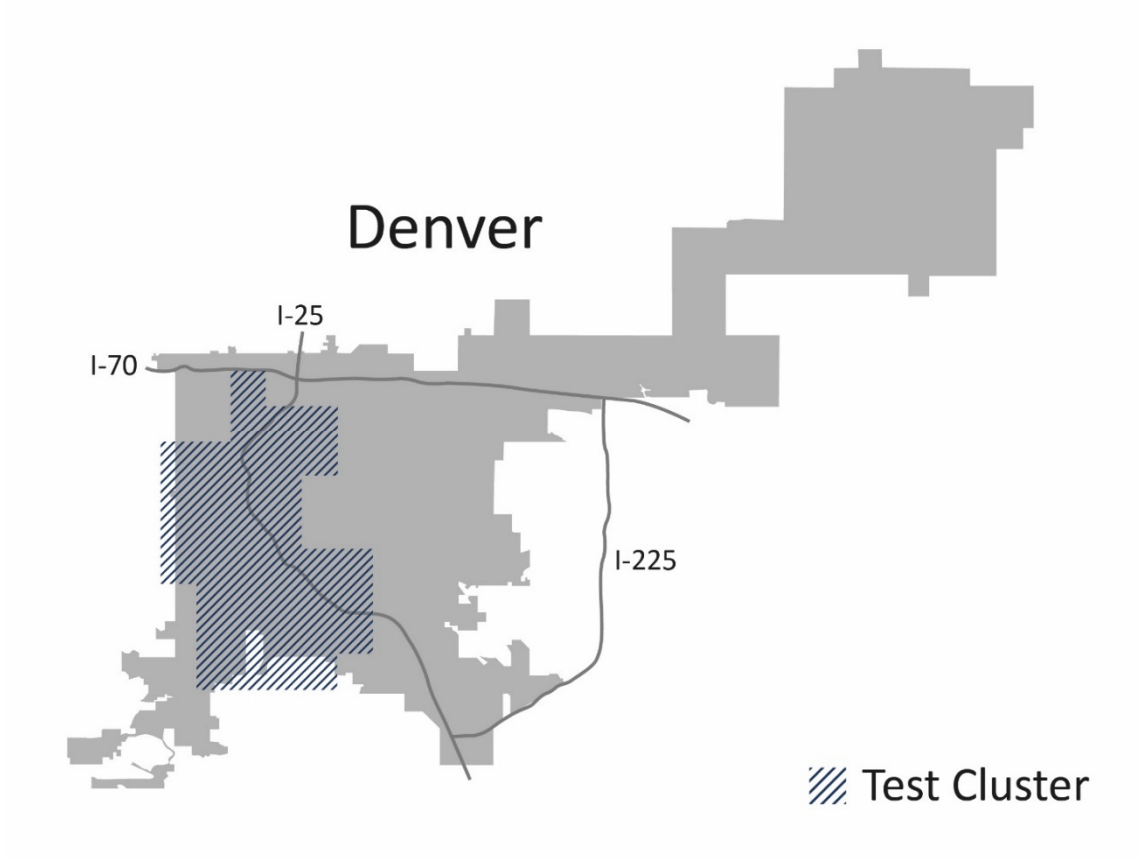
May 2017

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

**Measurement Setup**

	<b>Data</b>
<b>Device</b>	Samsung Galaxy S7 using the latest carrier specific FW version based on Android 6
<b>Test Cases</b>	<b>Data 4G preferred CA</b> 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
<b>Mobility and Route Types</b>	100% Drivetest, 100% in Clusters
<b>Samples</b>	~ 220 per Operator
<b>Dates</b>	<b>2 measurement days</b> <b>April 9<sup>th</sup> – April 10<sup>th</sup> , 2017</b>

Test Cluster



## 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
<b>Data</b>	<b>Cluster</b>	<b>600</b>	473	329	369	318

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
<b>Cluster</b>	Web Browsing	210	78%	61%	64%	47%
	File Download	120	79%	68%	70%	69%
	File Upload	120	80%	72%	80%	61%
	YouTube	150	78%	22%	37%	41%