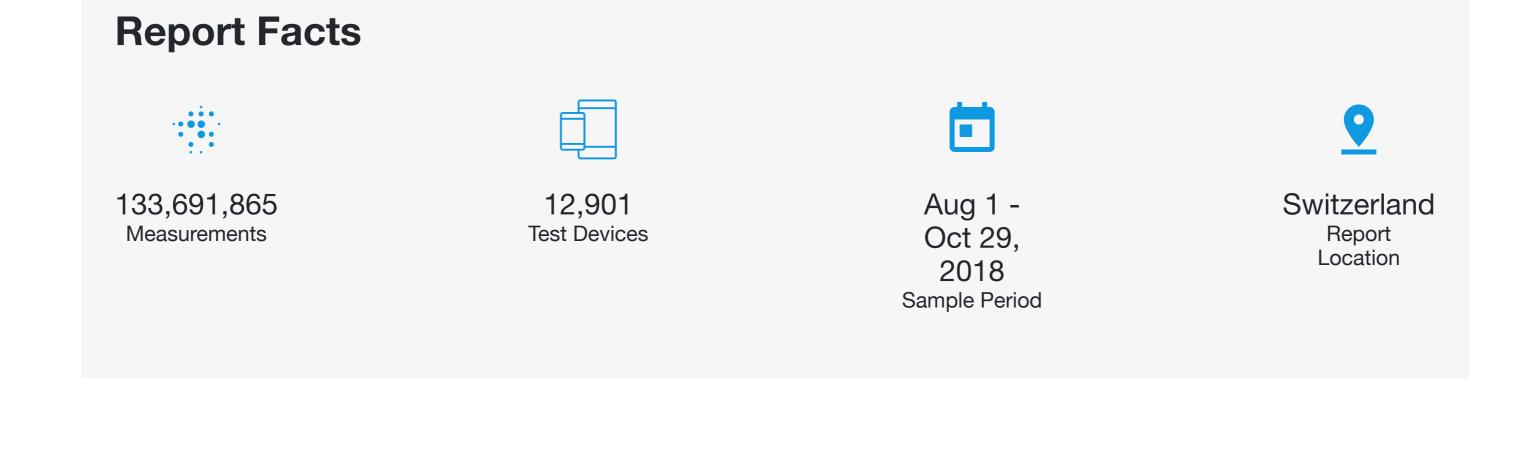
#### Mobile Networks Update: Switzerland (November 2018)

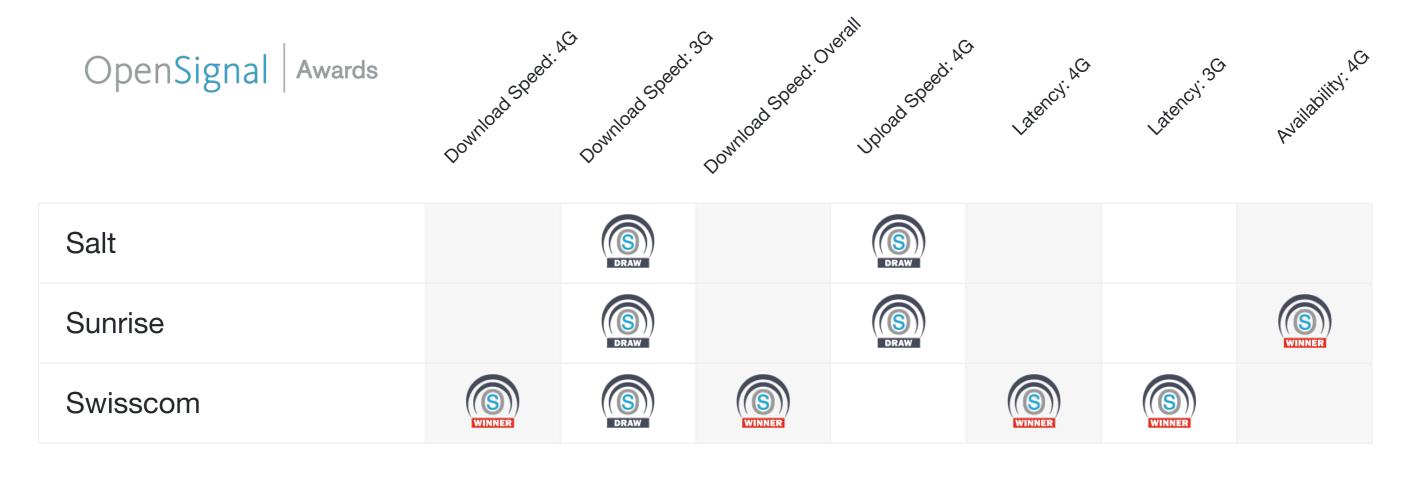
A quick glance at our awards table would suggest not a great deal has changed in the Switzerland mobile market since our last State of Mobile Networks report. Swisscom kept its awards in four categories — including the coveted 4G speed crown — and drew in one other metric. Meanwhile Sunrise won our other headline-grabbing metric, 4G availability, while it tied with Salt in 4G upload speed. For this report, we drew on over 133 million measurements from 12,900 devices to analyze the performance of Switzerland's three national operators, as well as taking a look at 4G availability experience across the country's seven regions.

- Swisscom has become the first operator to pass the 40 Mbps milestone in our Switzerland 4G download speed analysis. The operator increased its average speed by over 3 Mbps in our measurements over the past six months to move further ahead of its rivals. Sunrise's 4G download speed has somewhat stalled at just under 35 Mbps in our analysis, while Salt increased its own score by over 3 Mbps to force a draw for second place.
- It was a similar story in our analysis of overall download speed, where Swisscom also increased its score by over 3 Mbps to keep its title and pull further ahead of its competitors. Sunrise's average speed again remained virtually static in our measurements, while Salt increased its score by nearly 4 Mbps to put pressure on its rivals. Swisscom also won both our latency awards, while the most notable growth came from Salt which saw an improvement of over 5 milliseconds in our 4G latency category.
- In our analysis of 4G upload speed, we recorded another draw between Salt and Sunrise, as neither operator saw much change in their scores over the past six months. But our users on third-placed Swisscom's network experienced an increase of over 1.5 Mbps in average 4G upload speeds. The closest speed race, though, was in our 3G download analysis, where we tabulated a three-way draw with all the operators' scores falling within a narrow 0.7-Mbps range.
- one percentage point of the 90% milestone. In our regional analysis, Sunrise indeed passed that milestone with a score of 90.3% in the Northwest, and is coming very close in a number of other regions. Sunrise saw an incremental increase in its 4G availability score, as did second-placed Swisscom, while Salt's LTE availability increased by 3 percentage points in the last six months to close the gap on the leaders.

• Finally, Sunrise kept its crown in our 4G availability analysis. The operator is now within



#### Awards Table



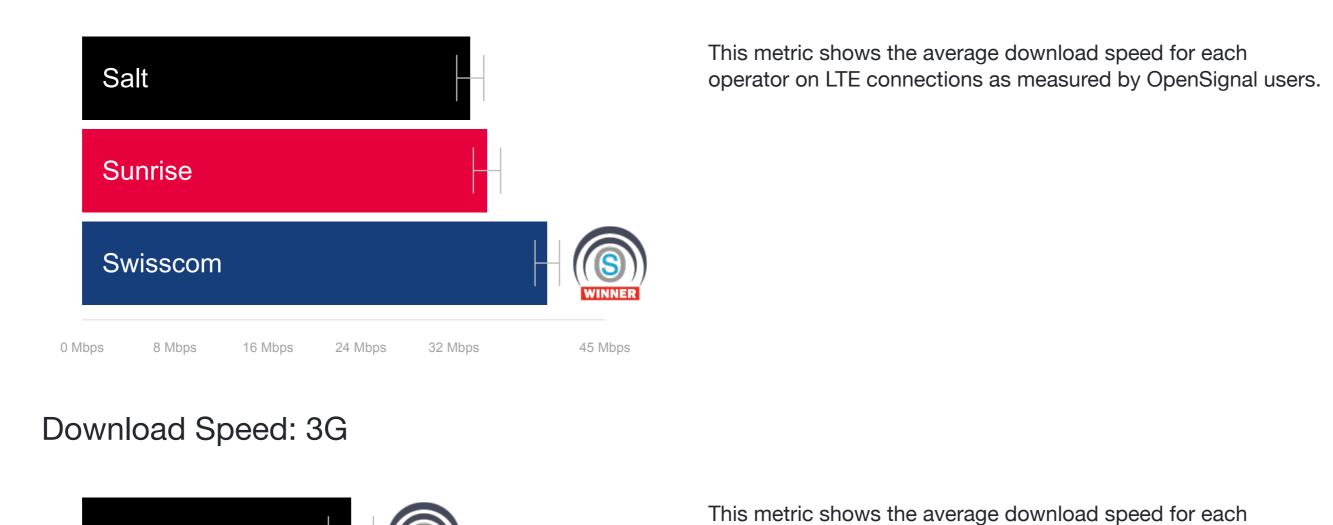


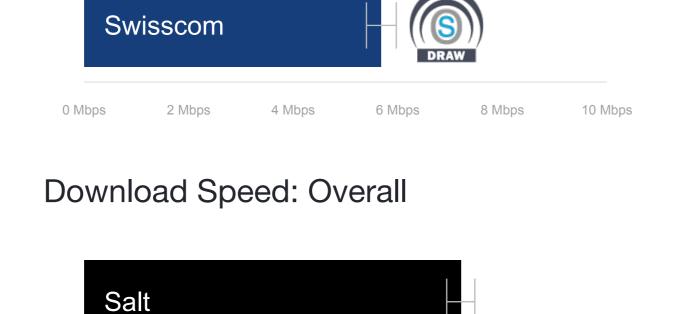
#### Download Speed: 4G

Salt

Sunrise

**Performance by Metric** 





This metric shows the average download speed experienced by

OpenSignal users across all of an operator's 3G and 4G

slower 3G networks.

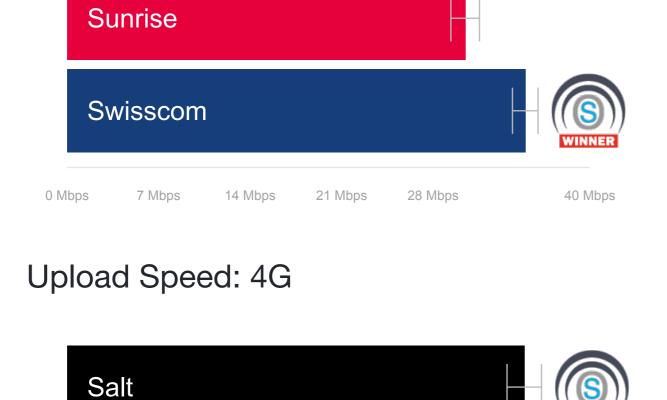
networks. Overall speed doesn't just factor in 3G and LTE

speeds, but also the availability of each network technology.

Operators with lower LTE availability tend to have lower overall

speeds because their customers spend more time connected to

operator on 3G connections as measured by OpenSignal users.



This metric shows the average upload speed for each operator

on LTE connections as measured by OpenSignal users.



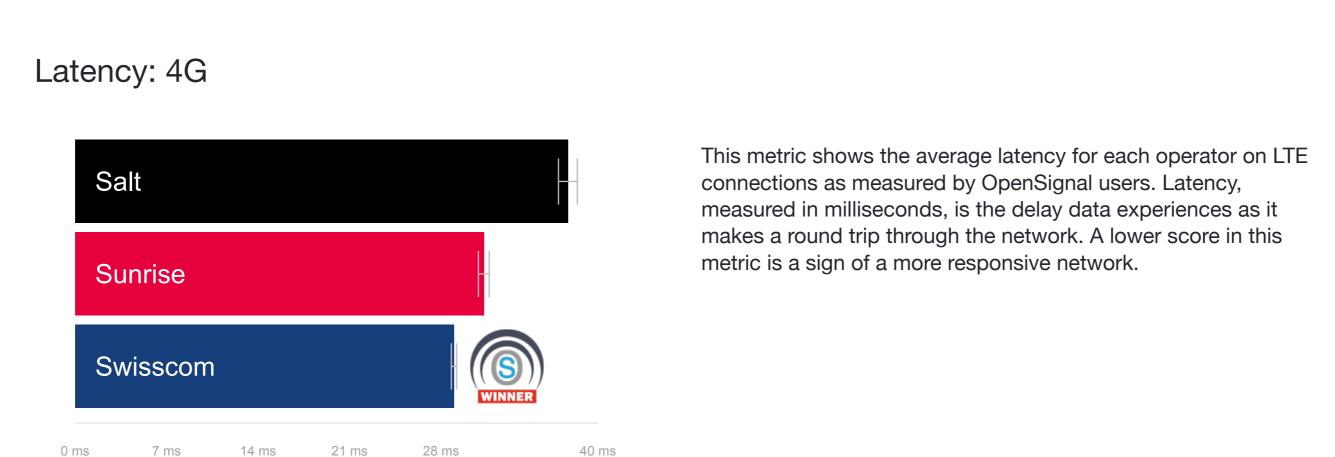
3 Mbps

6 Mbps

9 Mbps

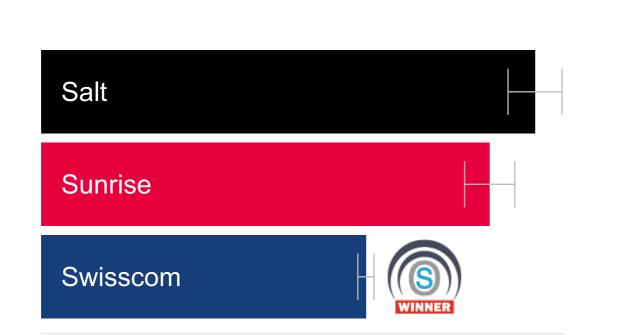
0 Mbps

Latency: 3G



12 Mbps

15 Mbps



33 ms

45 %

60 %

44 ms

55 ms

65 ms

90 %

75 %

This metric shows the proportion of time OpenSignal users have

an LTE connection available to them on each operator's network.

It's a measure of how often users can access a 4G network

rather than a measure of geographic or population coverage.

This metric shows the average latency for each operator on 3G

measured in milliseconds, is the delay data experiences as it

makes a round trip through the network. A lower score in this

connections as measured by OpenSignal users. Latency,

metric is a sign of a more responsive network.

# Swisscom 0 % 15 % 30 %

Region

Central

East

Sunrise

11 ms

Availability: 4G

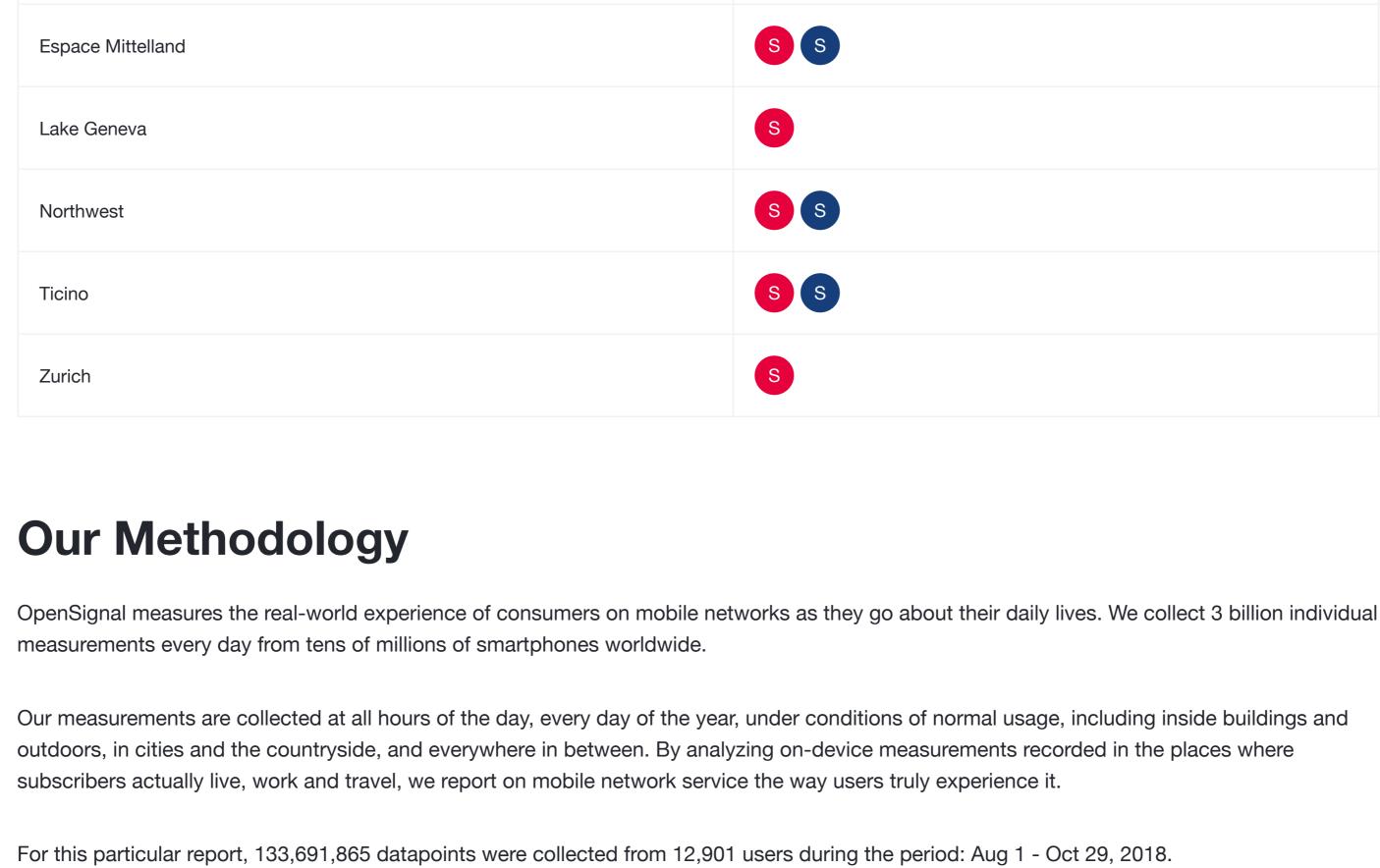
Salt

22 ms



**Availability: 4G** 

SS



# We continually adapt our methodology to best represent the changing experience of consumers on mobile networks and, therefore, comparisons of the results to past reports should be considered indicative only. For more information on how we collect and analyze our data, see our

prior written consent.

For every metric we've calculated statistical confidence intervals and plotted them on all of the graphs. When confidence intervals overlap for a certain metric, our measured results are too close to declare a winner in a particular category. In those cases, we show a statistical draw. For this reason, some metrics have multiple operator winners.

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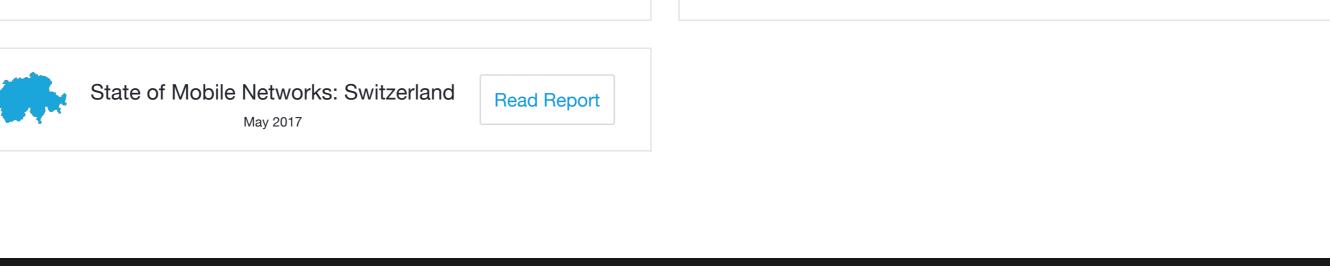
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