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The Self-Organizing Networks (SON) Ecosystem: 2014 - 2020

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Abstracts

Self-Organizing Network (SON) technology minimizes the lifecycle cost of running a wireless carrier network by eliminating manual configuration of equipment at the time of deployment, right through to dynamically optimizing performance and troubleshooting during operation. This can significantly reduce the cost of the carrier's services, improving the OpEx to revenue ratio.

Amid growing demands for mobile broadband connectivity, wireless carriers are keen to capitalize on SON to minimize rollout delays and operational expenditures associated with their ongoing LTE and small cell deployments.

Originally targeted for the Radio Access Network (RAN) segment of wireless carrier networks, SON technology is now also utilized in the mobile core and mobile backhaul segments. Furthermore, the SON ecosystem is increasingly witnessing convergence with other technological innovations such as Big Data analytics and Deep Packet Inspection (DPI).

Despite challenges relating to implementation complexities and multi-vendor interoperability, SON revenue is expected to grow to more than $3 Billion by the end of 2016, exceeding conventional mobile network optimization revenue by over 20%.

The "Self-Organizing Networks (SON) Ecosystem: 2014 – 2020" report presents an in-depth assessment of the SON and associated mobile network optimization ecosystem including key market drivers, challenges, OpEx and CapEx savings potential, use cases, SON deployment case studies, future roadmap, value chain, vendor analysis and strategies. The report also presents revenue forecasts for both SON and conventional mobile network optimization, along with individual projections for 8 SON

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submarkets from 2014 through to 2020. Historical figures are also presented for 2010, 2011, 2012 and 2013.

The report comes with an associated Excel datasheet suite covering quantitative data from all numeric forecasts presented in the report.

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Contents

LIST OF COMPANIES MENTIONED:

The following companies and organizations have been reviewed, discussed or mentioned in the report:

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About

SON offers an opportunity to minimize the lifecycle cost of running a network by eliminating the cumbersome process of manually configuring the network at the time of deployment, right through to dynamically optimizing performance during the network's commercialization. This can significantly reduce the cost of the carrier's services, improving the OpEx to revenue ratio.

Global Wireless Network Infrastructure Revenue by Submarket: 2010 – 2020 ($ Million)

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The increasingly heterogeneous nature of these network investments brings significant operational challenges in terms of human labor and consequently cost. Manually configuring and optimizing these networks can often lead to significant delays before a network is stable enough to be commercialized.

SON allows wireless carriers to avoid these operational challenges by automating the planning, configuration and ongoing optimization of these networks, thus minimizing rollout delays and reducing operational expenditures.

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