

# The SON (Self-Organizing Networks) Ecosystem: 2016 – 2030 – Opportunities, Challenges, Strategies & Forecasts

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## Abstracts

SON (Self-Organizing Network) technology minimizes the lifecycle cost of running a mobile 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 operator's services, improving the OpEx to revenue ratio.

Amid growing demands for mobile broadband connectivity, mobile operators 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 RAN (Radio Access Network) segment of mobile networks, SON technology is now also utilized in the mobile core and transport network segments. In addition, Wi-Fi access point OEMs are beginning to integrate SON features such as plug-and-play deployment, autonomous performance optimization, self-healing and proactive defense against unauthorized access.

Despite challenges relating to implementation complexities and multi-vendor interoperability, SON revenue is expected to grow to more than \$5 Billion by the end of 2020, exceeding conventional mobile network optimization revenue by a significant margin. Furthermore, the SON ecosystem is increasingly witnessing convergence with other technological innovations such as Big Data, predictive analytics and DPI (Deep Packet Inspection).

The "SON (Self-Organizing Networks) Ecosystem: 2016 – 2030 – Opportunities, Challenges, Strategies & Forecasts" 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 10 SON submarkets, 6 regions and 15 countries from 2016 through to 2030.

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

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## LIST OF COMPANIES MENTIONED

3GPP (Third Generation Partnership Project)  
Accedian Networks  
Accelleran  
Accuver  
Actix  
Aexio  
Aircom International  
AirHop Communications  
Airspan Networks  
Alcatel-Lucent  
Altiostar Networks  
Alvarion Technologies  
Amdocs  
Anite  
Arcadyan Technology Corporation  
Argela  
ARIB (Association of Radio Industries and Businesses, Japan)  
Aricent  
Arieso  
ARItel  
Artemis Networks  
Ascom  
Astellia  
ASUS (ASUSTeK Computer)  
AT&T  
AT&T Mobility  
ATDI  
ATIS (Alliance for Telecommunications Industry Solutions)  
Avvasi  
Baicells  
Belkin International  
Benu Networks  
BLiNQ Networks  
Broadcom  
Brocade Communications Systems  
Bwtech

Bytemobile  
CableLabs  
Casa Systems  
Cavium  
CBNL (Cambridge Broadband Networks Limited)  
CCS (Cambridge Communication Systems)  
CCSA (China Communications Standards Association)  
Celcite  
CellMining  
Cellwize  
Celtro  
CENTRI  
Cisco Systems  
Citrix Systems  
Comarch  
CommAgility  
CommScope  
Commsquare  
Connectem  
Contela  
Coriant  
CrowdX  
Datang Mobile  
Dell EMC  
Dell Technologies  
Digitata  
D-Link Corporation  
ECE (European Communications Engineering)  
Eden Rock Communications  
Equiendo  
Ercom  
Ericsson  
ETSI (European Telecommunications Standards Institute)  
EXFO  
Flash Networks  
Forsk  
Freescale Semiconductor  
Fujitsu  
Gemtek Technology Company



General Dynamics Mission Systems  
Globe Telecom  
GoNet Systems  
Guavus  
GWT (Global Wireless Technologies)  
Hitachi  
Huawei  
InfoVista  
Ingenia Telecom  
Innovile  
Intel Corporation  
InterDigital  
Intracom Telecom  
IP Wireless  
ip.access  
Ipanema Technologies  
JRC (Japan Radio Company)  
Juni Global  
KDDI Corporation  
Keysight Technologies  
KKTCell (Kuzey K?br?s Turkcell)  
Kumu Networks  
Lemko Corporation  
Lifecell  
Linksys  
Luminate Wireless  
Mentum  
MIMOon  
Mobixell  
Mojo Networks  
NEC Corporation  
NetScout Systems  
New Postcom Equipment Company  
Newfield Wireless  
NGNM (Next Generation Mobile Networks) Alliance  
Nokia Networks  
NuRAN Wireless  
Nutaq  
NXP Semiconductors

Oceus Networks  
Opera Software  
Optimi  
Optulink  
P.I.Works  
Parallel Wireless  
Phluido  
Plano Engineering  
Potevio (China Potevio Company)  
PureWave Networks  
Qualcomm  
Quanta Computer  
Qucell  
RADCOM  
Radisys Corporation  
Rearden  
RED Technologies  
Redline Communications  
Reverb Networks  
Rohde & Schwarz  
Rorotika  
Ruckus Wireless  
Samji Electronics Company  
Samsung Electronics  
Schema  
SEDICOM  
SerComm Corporation  
Seven Networks  
Siklu Communication  
Singtel Group  
SK Group  
SK Telecom  
SK Telesys  
Small Cell Forum  
SpiderCloud Wireless  
Star Solutions  
SuperCom  
Tarana Wireless  
Tecore

TEKTELIC Communications  
Tektronix Communications  
Telecom Italia  
Telefónica Group  
Telrad Networks  
Telum  
TEOCO  
TI (Texas Instruments)  
TIM (Telecom Italia Mobile)  
TIM Brasil  
TP-Link Technologies  
Trendium  
TSDSI (Telecommunications Standards Development Society, India)  
TTA (Telecommunications Technology Association of Korea)  
TTC (Telecommunication Technology Committee, Japan)  
TTG International  
Tulinx  
Turkcell Group  
Vasona Networks  
Vector Srl  
Viavi Solutions  
Vodafone Group  
Vodafone Hutchison Australia  
WBA (Wireless Broadband Alliance)  
WebRadar  
WNC (Wistron NeWeb Corporation)  
WPOTECH  
Xceed Technologies  
XCellAir  
Z-Com (ZDC Wireless)  
ZTE  
ZyXEL Communications Corporation

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