



## TECHNOLOGY INTELLIGENCE SERVICE

# Mobile Infrastructure

Global, in-depth coverage of mobile infrastructure equipment and software, including 2G, 3G, 4G, LTE, LTE-A, 5G, C-RAN, vRAN, SON, DAS, and small cells

Clients of this service will receive:

### DELIVERABLES

- **Market trackers (3)**  
Worldwide and regional market size and share data, historic and forecasted through 2023
- **Market reports (5)**  
Detailed examination of market and technical trends
- **Surveys (2)**  
In-depth interviews with operators and/or service providers about their plans, drivers, opinions of equipment vendors, etc.
- **Market insights**  
Analyst commentary on market shifts, technology and regional developments, vendors, events, and more
- **Briefings**  
Quarterly scheduled briefings with analysts on research highlights from all aspects of the market
- **Analyst access**  
For prompt responses to urgent and unique questions

### Market trackers

Delivered in Excel and accompanied by written analysis in PDF:

- **Mobile Infrastructure Market Tracker** – Worldwide and regional market size, vendor shares, forecasts, analysis, and trends for 2G, 3G, 4G, LTE, LTE-Advanced (LTE-A), 5G, virtual evolved packet core (vEPC), and virtual RAN (vRAN) equipment and software
- **Mobile Infrastructure Market Tracker - Japan** – Market size, vendor shares, forecasts, analysis, and trends for Japan's mobile infrastructure market
- **Small Cell Equipment Market Tracker** – Market size, vendor shares, forecasts, analysis, and trends for service provider and enterprise indoor and outdoor small cells

### Market reports

Delivered in Excel and accompanied by written analysis in PDF:

- **Mobile Infrastructure Market Report - China** – Market size, vendor shares, forecasts, analysis, and trends for China's mobile infrastructure market
- **C-RAN & vRAN Architecture Equipment Market Report** – Worldwide and regional market size, market share, forecasts, analysis, and trends for centralized RAN (C-RAN) and vRAN baseband units and remote radio heads
- **DAS Equipment Market Report** – Market size, vendor shares, forecasts, analysis, and trends for distributed antenna system (DAS) equipment
- **SON & Optimization Software Market Report** – Market size, forecasts, analysis, and trends for 2G/3G optimization and self-organizing network (SON) software for 3G, 4G, and 5G

Delivered in PPT:

- **5G Technology and Market Development Report** – Examines how 5G technology can evolve in terms of network architecture, topology, waveform, and modulation schemes; also looks at 5G market deployment and development

### Surveys

Delivered in PDF:

- **Evolution from 4G to 5G Service Provider Survey** – Assesses market trends and service provider 4G and 5G deployment plans, challenges, and service offerings
- **Small Cell Strategies & Vendor Leadership Service Provider Survey** – Assesses market trends and mobile operator small cell plans; includes operator ratings of small cell vendors

## Research coverage

Market trackers	Measures	Coverage
<b>Mobile Infrastructure Market Tracker</b> (quarterly)	Market share Revenue Units Licenses DSOs	<b>2G and 3G equipment</b> <ul style="list-style-type: none"> <li>- RAN: BTS, BSC, RRH</li> <li>- MSS: mobile softswitching, MSC</li> <li>- 3G packet core network: GPRS, PDSN</li> <li>- HLR</li> </ul> <b>LTE equipment</b> <ul style="list-style-type: none"> <li>- E-UTRAN: FDD, TDD</li> <li>- EPC</li> <li>- vEPC</li> <li>- vRAN</li> </ul> <b>5G equipment</b> <ul style="list-style-type: none"> <li>- 5G new radio</li> <li>- 5G NG core</li> </ul> <b>Software (2.5G, 3G, LTE/LTE-A)</b>
<b>Mobile Infrastructure Market Tracker - Japan</b> (semi-annual)	Market share Revenue Units	<b>3G equipment</b> <ul style="list-style-type: none"> <li>- W-CDMA: UTRAN (NodeB, RRH), packet core (GGSN, SGSN)</li> <li>- CDMA2000: RAN (BTS), packet core (PDSN)</li> </ul> <b>4G LTE equipment</b> <ul style="list-style-type: none"> <li>- E-UTRAN: FDD, TDD</li> <li>- EPC</li> </ul> <b>5G equipment</b> <ul style="list-style-type: none"> <li>- 5G new radio</li> <li>- 5G NG core</li> </ul>
<b>Small Cell Equipment Market Tracker</b> (semi-annual)	Market share Revenue Units ASP	<b>Service provider small cells:</b> urban, rural/remote <b>Enterprise small cells</b> <b>Indoor and outdoor small cells</b>
Market reports	Measures	Coverage
<b>Mobile Infrastructure Market Report - China</b> (annual)	Market share Revenue Units	<b>2G equipment (GSM: RAN)</b> <b>3G equipment</b> <ul style="list-style-type: none"> <li>- CDMA2000: RAN, packet core</li> <li>- TD-SCDMA: RAN, packet core, RRH</li> <li>- W-CDMA: UTRAN, packet core, RRH</li> </ul> <b>4G LTE equipment</b> <ul style="list-style-type: none"> <li>- E-UTRAN: FDD, TDD</li> <li>- EPC</li> </ul> <b>5G equipment</b> <ul style="list-style-type: none"> <li>- 5G new radio</li> <li>- 5G NG core</li> </ul>
<b>C-RAN &amp; vRAN Architecture Equipment Market Report</b> (annual)	Market share Revenue Units	<b>Centralized RAN (C-RAN)</b> <ul style="list-style-type: none"> <li>- BBU</li> <li>- RRH</li> </ul> <b>Virtual RAN (vRAN)</b>
<b>DAS Equipment Market Report</b> (annual)	Market share Revenue Units	<b>DAS:</b> In-building and outdoor <b>DAS node:</b> LTE and multi-standard
<b>SON &amp; Optimization Software Market Report</b> (annual)	Revenue	<b>2G/3G optimization software</b> <b>SON</b> by generation (3G, 4G, 5G) and by architecture (centralized, distributed)
<b>5G Technology and Market Development Report</b> (annual)	N/A	Evaluates the potential avenues of evolution and development for 5G technologies, technical and deployment barriers, and impact on the telecom ecosystem; also looks at 5G market deployment and development

## Research coverage (continued)

Surveys	Details
<b>Evolution from 4G to 5G Service Provider Survey</b> (annual)	Interviews with knowledgeable purchase decision-makers at mobile operators worldwide about their LTE and 5G deployment plans, drivers, timeframes, technology plans, etc.
<b>Small Cell Strategies &amp; Vendor Leadership Service Provider Survey</b> (annual)	Interviews with knowledgeable purchase decision-makers at operators worldwide about their small cell strategies, deployment drivers and challenges, must-have features, technology plans, and ratings of vendors

Regions	Sample companies
Worldwide	Cisco Mavenir
North America (US and Canada)	CommScope NEC
Europe, the Middle East and Africa (EMEA)	SpiderCloud Nokia
Asia Pacific (APAC), including Japan and Australia	Ericsson Ribbon Communications
Caribbean and Latin America (CALA), including Mexico	Fujitsu Samsung
	HPE ZTE
	Huawei

Related research	
Mobile Backhaul & Microwave	SDN & NFV
Telecom Digital Transformation	Service Provider VoIP & IMS
Service Provider Network Economics	

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### WORLDWIDE

T +1 844 301 7334

E [technology\\_us@ihsmarkit.com](mailto:technology_us@ihsmarkit.com)  
[technology\\_apac@ihsmarkit.com](mailto:technology_apac@ihsmarkit.com)  
[technology\\_emea@ihsmarkit.com](mailto:technology_emea@ihsmarkit.com)

### About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and expertise to forge solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 business and government customers, including 80 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.