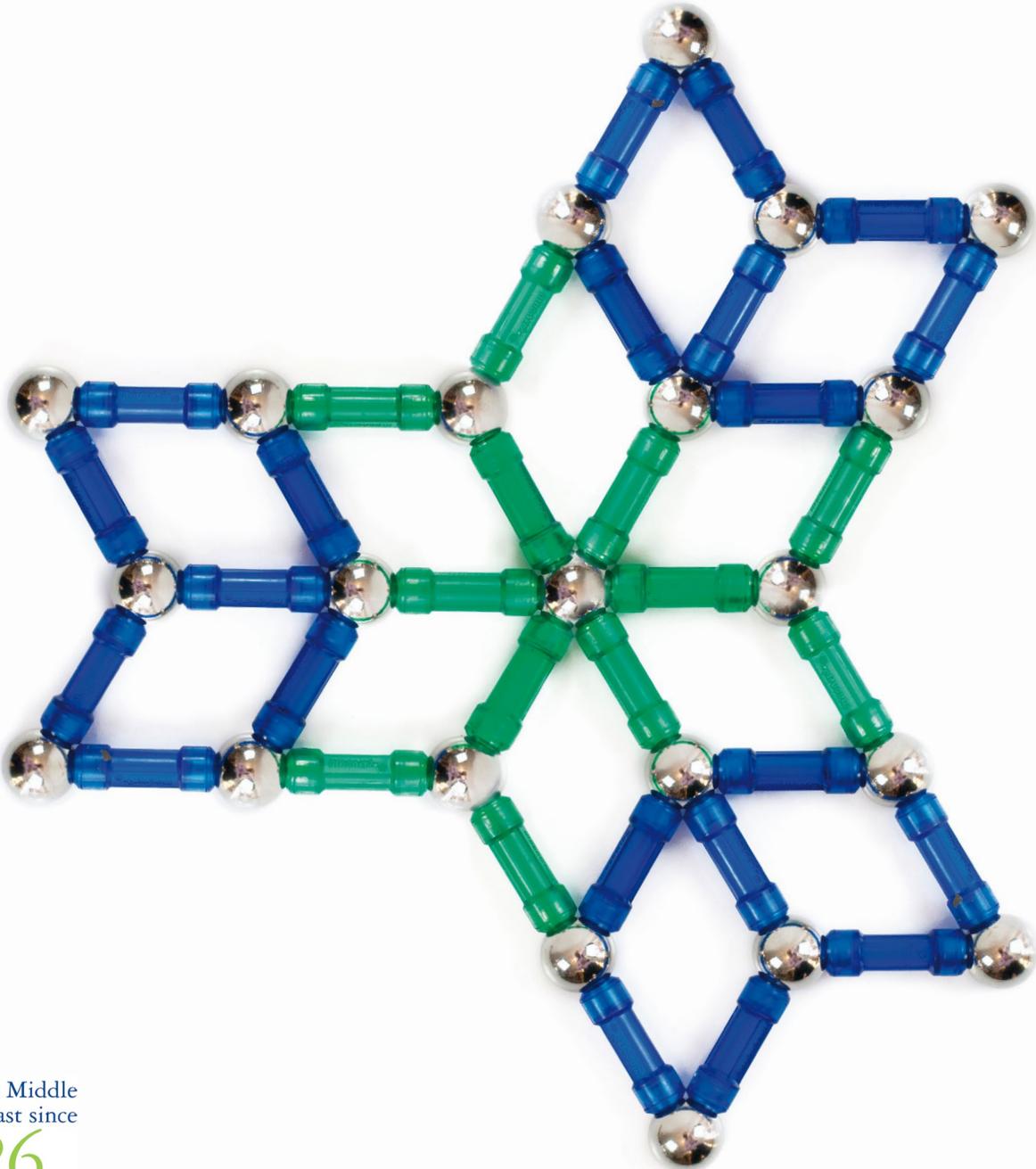


Technology, Media &
Telecommunications
Predictions 2014
Middle East



Short messaging services versus instant messaging: value versus volume

Deloitte predicts that in 2014 instant messaging services on mobile phones (MIM) will carry more than twice the volume (50 billion versus 21 billion per day) of messages sent via a short messaging service (SMS)³⁴³. This is a significantly greater ratio than in 2012, when 1.1 instant messages were sent for every text message³⁴⁴. It might be supposed that the growth in MIM is coming at the expense of SMS and mobile carriers. However despite the burgeoning volumes of messages carried over MIM platforms³⁴⁵, we expect globally SMS to generate more than \$100 billion in 2014, equivalent to approximately 50 times the total revenues from all MIM services³⁴⁶.

So MIM services may win the battle for volume in 2014, but SMS will be victorious in global revenue terms. We expect SMS to continue to generate significantly greater revenues than MIM even as far out as 2017, by which point global SMS revenues are expected to have started falling³⁴⁷. We would also expect MIM services on mobile phones to continue to substitute not just for SMS, but all other forms of communication, from e-mail to phone calls.

Text messaging's superior revenue-generating ability is due to three main factors: ubiquity, infrequency and price.

SMS is the one messaging standard common to almost every mobile phone³⁴⁸. There are 3.2 billion unique mobile subscribers that can send and receive SMS³⁴⁹. MIM is popular, but it requires a smartphone, tablet or MP4 player. It also needs a mobile data plan, or a connection to a Wi-Fi network. Both are ubiquitous in some regions in the world, but in some markets, such as most of the African region, only a minority has mobile broadband, and even fewer have fixed broadband.

Further, many over-the-top (OTT) providers are incompatible with each other. Communication via an OTT service requires all parties to have the same app. A WhatsApp customer cannot message a WeChat user directly. In order to communicate, the requisite app would need to be downloaded; otherwise SMS would have to be used³⁵⁰.

Some MIM services only work with a single brand of phone. When sending a message to someone using a different manufacturer's phone, SMS is the choice by default.

While SMS is common to all smartphones, most smartphones are likely to send far fewer SMSs than MIM messages in 2014. But the relative infrequency of sending SMS compared with MIM may be a key reason why SMS is able to generate greater value. Mobile phone users may be relatively insensitive to SMS tariffs as they send few text messages relative to those sent via MIM services. Feature phone users may send few messages via their phones. For both types of mobile phone, users may be willing to spend 10 cents per message on the assumption that in a given month they would send fewer than 10 messages.

It is also important to note that while MIM and SMS are based around messaging that is predominantly text based, there are subtle but fundamental differences which engender different behaviors. MIM is based around two-way communication and an interchange of quick-fire responses. Presence awareness often acts as a signal for one correspondent to start conversing with another – or multiple others. Further, instant messaging's origins are as a free-of-charge PC-based service. By contrast SMS is more about individual, paid-for messages, for sending information.

Smartphone users travelling abroad may prefer to use text messaging, as it may be cheaper while roaming to send an SMS than to purchase a mobile data package so as to be able to send and receive MIM. And some users may simply not have mobile data roaming enabled.

MIM's lower direct revenues may also be due to the provider's business model. Some MIM services are a value-added offering to all users of a manufacturer's device. For example Apple's iMessage service is a feature of the device ecosystem and there is no subscription involved³⁵¹. Facebook's communications services for mobile devices may help drive mobile advertising revenues. Some services such as WhatsApp seem to be focused, at least for now, on capturing the largest possible user base, and are not focused on revenue. Other services such as Snapchat may focus more on the value from accumulating large volumes of users, to whom value-added services can subsequently be sold³⁵².

In 2014 it is very likely that trillions of MIMs will be sent in place of a text message. But it is also very likely that, billions of times per day, MIMs will also be sent instead of e-mail, tweets or other forms of communication such as phone and video calls.

SMS's significant revenues and margins in 2014 are likely to contrast with the challenges facing some standalone MIM service providers. Competition between MIM providers may prevent significant profitability from being achieved³⁵³. With some providers relying on revenues from app purchases or one-off annual fees, average revenue per customer is low. For example, WhatsApp charges a dollar a year per subscriber³⁵⁴. Other providers have included virtual goods or games in their offering, and their revenues are growing fast³⁵⁵. For example Line generates about 69 cents per customer per quarter from in-app purchases, advertising and games³⁵⁶. As more services become available and competition increases, some providers are forced to buy TV ad space to raise awareness, rather than relying on free viral marketing³⁵⁷. Indeed the MIM business model may face substantial challenges in 2014, and the upper limit on revenues may be surprisingly low: a MIM provider with seven billion users, charging a dollar per year, would have a fraction of SMS' global revenues.

MIM and SMS are likely to be regarded as direct competitors in 2014³⁵⁸. One analyst estimated that in 2013, MIM depleted SMS revenues by \$32 billion. A single text message costs a few cents to send, but an MIM consisting of 200 characters of text may generate about 0.01 cents if the subscriber is paying \$10 per gigabyte, and the MIM provider may not earn anything from this³⁵⁹. Given the rising volumes of MIM messages in 2014, the implicit loss might be even higher³⁶⁰. However over the past few years, global SMS and MIM volumes and revenues have grown in tandem³⁶¹.

But while MIM may be taking revenue from mobile operators in the form of lost text messaging revenues, it may also be driving demand for mobile broadband. And in 2014, revenues for mobile broadband may overtake SMS³⁶². While it is difficult to assign an exact value for the impact of instant messaging on the take-up of mobile broadband, it is sizable, and should become larger still over time, as MIM services are used increasingly to send large audio and larger video files. A one minute-long video sent via MIM is more than 1,000 times larger than a text-only MIM (see Figure 12 for approximate file sizes by different type of messages).

Figure 12: Approximate file sizes by type MIM message

Type of MIM message	Approximate size (in KB)*
Text-only MIM (approximately 150 characters)	10
Photo	100
Audio file (one minute long)	150
Video file (one minute long)	12,000

Source: Deloitte analysis based on publicly available information³⁶³

* File sizes are considerably compressed when sent via an MIM application and will not reflect its actual size.

Bottom line

Text messaging's heyday is approaching but in 2014 it should still generate significant margin for the mobile industry. Its importance should be neither overlooked nor underestimated.

There are several ways for operators to respond to the negative long-term outlook for SMS.

One would be to try and create an operator-owned OTT MIM to rival the existing providers. For this to work as well as SMS, it would need to be a global standard; if the industry relies on opt-ins on a per carrier basis, adoption is likely to be too slow³⁶⁴.

A further option would be to incorporate MIM-type features into SMS, such as by replicating the ability to send messages to groups easily, and to include audio and video clips. Presence functionality may also help.

A third option would be, rather than compete with MIM services, to encourage their adoption, so as to increase take-up and usage of mobile data. Carriers should evaluate the merits of exposing network and data assets to OTT players via APIs (Application Programming Interfaces)³⁶⁵. Carrier APIs allow third parties to integrate their applications and services more closely with the mobile device, the SIM card and elements of the network. Functionality ranges from in-app advertising through to 'add-to-bill' processing, which allows the value of in-app purchases, such as emoticons, stickers and games, to be added to the monthly phone bill. Given that MIM services tend to have low consumer loyalty, carriers could help improve the dynamics of OTT MIM, whilst at the same time positioning themselves to capture a share of MIM revenues. Figure 13 provides an example of some of the APIs that a carrier could expose.

Figure 13: examples of carrier APIs



Source: Deloitte research using various publicly available sources³⁶⁶.

A final option for carriers would be to encourage the usage of SMS as a bearer for application to person messages (A2P), which are used to send personalized messages to individuals, from advice of bank balance, to warning of a delay to a flight, to a reminder for a medical appointment. One analyst has estimated that A2P messaging volumes could grow an average six percent per annum over 2013-2017³⁶⁷.

Standalone MIM service providers aiming to maximize revenues may need to diversify their income streams. Some providers may become content platforms. In Asia Pacific, companies such as Kakao and LINE are monetizing their significant installed bases by positioning their service as a platform for games, virtual goods and advertising. Deloitte estimates that revenues generated for MIM service providers from games bought or played on their platforms and other virtual goods, such as stickers, will be worth over \$1 billion in 2014 – a significant sum, albeit still a fraction of revenues generated by SMS services. Standalone MIM providers may also want to generate additional revenue from advertising, but this might cause some users to change their service.

Middle East perspective

The global decline in SMS volumes at the hands of mobile instant messaging (MIM) is also felt by telecom operators in the Middle East. In the UAE, SMS volumes have dropped considerably in recent years, with a decline of 24 percent between 2009 and 2012³⁶⁸. MMS declined even faster, almost 50 percent over the same period³⁶⁹. This trend should not surprise, particularly in the UAE, which at 74 percent has emerged with the highest smartphone penetration rate in the world³⁷⁰, and where MIM are the most popular, frequently downloaded and used apps. Surveys amongst users in the region reaffirm this, with 77 percent ranking communication apps the most popular and 58 percent using them the most frequently³⁷¹. For example in Saudi Arabia, the largest smartphone market in the Middle East and third globally with 73 percent³⁷² penetration, WhatsApp was the most downloaded paid app towards the end of 2012³⁷³.

Two areas of concern for regional telecom operators arise from this. The first is the fact that both globally and locally, SMS and MMS is declining. The second is the pace of that decline in the Middle East, estimated at 9 percent per annum so far in the UAE alone. In dollar terms, we expect the impact of OTT on operators' SMS and MMS revenues to be in the range of 5 to 6 percent in the next 5 years³⁷⁴. Though this seems small, SMS is still one of the highest margin services provided by operators, so the impact on profit could potentially be greater. At the same time, higher smartphone penetration and stronger affinity to MIM makes it more ubiquitous in the Middle East than anywhere else in the world. Coupled with increased multimedia sharing in the region, MIM is a stronger driver for data consumption. For example, WhatsApp's recently rolled out cross-app content sharing capability has enabled one Middle Eastern music streaming service to share 50 percent more of its songs via WhatsApp than on Facebook³⁷⁵. That said, we also expect Facebook's recent acquisition of WhatsApp to accelerate the region's MIM data sharing and consumption habits as well as to increase the user base across both, as it seeks to integrate messaging and photo services across the two platforms³⁷⁶.

Globally operators have used one of the following strategies to combat OTT: defend (block OTT MIM, improve SMS pricing), replicate (compete with their own OTT MIM, acquire an existing OTT MIM) or partner. In the region, we expect operators to adopt a partnering approach to encourage data consumption and expand new revenue streams. Saudi Arabia's Mobily has already taken this step through its partnership with WhatsApp in 2012. Under the agreement, Mobily can exclusively launch WhatsApp packages in the Kingdom, in which users pay a monthly or weekly subscription fee to enjoy unlimited WhatsApp usage³⁷⁷.

In the interest of maximizing the bottom line, operators in the region should also aim to retain and extract the most value from their SMS share while they can, for instance through application to person (A2P) messaging from GCC mGovernment programs, mobile banking and business to consumer (B2C) SMS advertising. At the same time, operators should capitalize on the greater volume of data consumption that the region presents with its broader MIM base.

Deloitte in the Middle East

ME Regional office

Gefinor Center, Block D
Clemenceau Street
P.O. Box 113-5144
Beirut, Lebanon
Phone +961 (0) 1 748 444
Fax +961 (0) 1 748 999

Consulting

Regional office

Deloitte & Touche (M.E.)
Building 3, Emaar Square
Downtown Dubai
P.O. Box 4254 Dubai,
United Arab Emirates
Phone +971 (0) 4 376 8888
Fax +971 (0) 4 376 8899

Enterprise Risk Services

Regional office

Deloitte & Touche (M.E.)
Building 3, Emaar Square
Downtown Dubai
P.O. Box 4254 Dubai,
United Arab Emirates
Phone +971 (0) 4 376 8888
Fax +971 (0) 4 376 8899

Financial Advisory Services

Regional office

DIFC, Currency House
Building 1
P.O. Box 112865
Dubai, United Arab Emirates
Phone +971 (0) 4 506 4700
Fax +971 (0) 4 327 3637

Tax Services

Regional office

Currency House
Building 1
P.O. Box 282056
Dubai, United Arab Emirates
Phone +971 (0) 4 506 4700
Fax +971 (0) 4 327 3637

The Deloitte ME Islamic Finance Knowledge Center (IFKC)

Al Zamil Tower, Government Avenue,
Manama, Kingdom of Bahrain
Phone +973 (0) 1 721 4490 Ext 2018
Fax +973 (0) 1 721 4550

Bahrain

Manama
Al Zamil Tower
Government Avenue
P.O. Box 421
Manama, Kingdom of Bahrain
Phone +973 (0) 1 721 4490
Fax +973 (0) 1 721 4550

Egypt

Cairo
95 C, Merghany Street,
Heliopolis 11341, Cairo, Egypt
Phone +20 (0) 2 2290 3278
Fax +20 (0) 2 2290 3276

Alexandria

Madinet El Sayadla
Building No 10,
Smouha, Alexandria
Phone +20 (0) 3 426 4975
Fax +20 (0) 3 426 4975

Iraq

Erbil
Vital Village, No. 42
Erbil, Iraq
Phone +964 (0) 66 257 6200

Jordan

Amman
Jabal Amman,
190 Zahran Street
P.O. Box 248
Amman 11118, Jordan
Phone +962 (0) 6 550 2200
Fax +962 (0) 6 550 2210

Kuwait

Deloitte & Touche Al-Fahad Al-Wazzan & Co.
Kuwait City
Dar Al-Awadi Complex
Ahmed Al-Jaber Street, Sharq
P.O. Box 20174
Safat 13062, Kuwait
Phone +965 2240 8844
Fax +965 2240 8855

Lebanon

Beirut
Arabia House,
131 Phoenicia Street
P.O. Box 11-961
Riad El-Solh, Beirut
1107 2060 Lebanon
Phone +961 (0) 1 364 700
Fax +961 (0) 1 367 087

Libya

Tripoli
Tripoli Tower
P.O. Box 93645
Tripoli, Libya
Phone +218 (0) 92 370 1049

Oman

Muscat
MBD Area
Muscat International Center
P.O. Box 258, Ruwi
Postal Code 112
Sultanate of Oman
Phone +968 (0) 2481 7775
Fax +968 (0) 2481 5581

Palestinian Territories

Ramallah
Al Mashreq, Insurance Building
P.O. Box 447
Ramallah, Palestinian
Controlled Territories
Phone +970 (0) 2 295 4714
Fax +970 (0) 2 298 4703

Qatar

Doha
Al Ahli Bank Building
Sheikh Suhaim Bin Hamad Street
P.O. Box 431 Doha, Qatar
Phone +974 (0) 4434 1112
Fax +974 (0) 4442 2131

Saudi Arabia

Deloitte & Touche Bakr Abulkhair & Co.
Riyadh
Prince Turki Bin Abdullah
Al-Saud Street
Sulaimania Area
P.O. Box 213
Riyadh 11411, Saudi Arabia
Phone +966 1 282 8400
Fax +966 1 282 8428

Al Khobar

ABT Building, Al Khobar
P.O. Box 182
Dammam 31411, Saudi Arabia
Phone +966 (0) 3 887 3937
Fax +966 (0) 3 887 3931

Jeddah

Saudi Business Center
Madinah Road
P.O. Box 442
Jeddah 21411, Saudi Arabia
Phone +966 (0)1 2 657 2725
Fax +966 (0)1 2 657 2722

South Sudan

Juba
Deloitte Complex, Plot No.160,
Block 3K-South
2nd Class Thong Ping
Residential Area
P.O Box 511, Juba,
Republic of South Sudan
Phone +211 92 000 1024

Syria

Damascus
9 Fardos Street
P.O. Box 12487
Damascus, Syria
Phone +963 (0) 11 221 5990
Fax +963 (0) 11 222 1878

Rawda

38 Rawda Street
P.O. Box 12487
Damascus, Syria
Phone +963 (0) 11 331 1212
Fax +963 (0) 11 332 2304

United Arab Emirates

Abu Dhabi
Al Sila Tower
Sowwah Square
P.O. Box 990
Abu Dhabi,
United Arab Emirates
Phone +971 (0) 2 408 2424
Fax +971 (0) 2 408 2525

Dubai

Deloitte & Touche (M.E.)
Building 3, Emaar Square
Downtown Dubai
P.O. Box 4254
Dubai, United Arab Emirates
Phone +971(0) 4 376 8888
Fax +971(0) 4 376 8899

Fujairah

Al-Fujairah
Insurance Co. Building
P.O. Box 462
Fujairah, United Arab Emirates
Phone +971 (0) 9 222 2320
Fax +971 (0) 9 222 5202

Ras Al-Khaimah

Ras Al-Khaimah, Insurance
Building, Al-Nakheel,
Ras Al-Khaimah, UAE
P.O. Box 435
Ras Al-Khaimah,
United Arab Emirates
Phone +971 (0) 7 227 8892
Fax +971 (0) 6 574 1053

Sharjah

Corniche Plaza 2,
Al Buhairah Corniche
P.O. Box 5470
Sharjah, United Arab Emirates
Phone +971 (0) 6 574 1052
Fax +971 (0) 6 574 1053

Yemen

Sana'a
Sana'a Trade Center Eastern
Tower, Algeria Street
P.O. Box 15655
Sana'a, Yemen
Phone +967 (0) 1 448 374
Fax +967 (0) 1 448 378

For inquiries on Mauritania, please contact the ME regional office.

Quick links

deloitte.com/middleeast

Blog: deloittemiddleeastmatters.com

Twitter: @DeloitteME
@DeloitteMEjobs

Facebook: Deloitte Middle East

LinkedIn: Deloitte Middle East
company profile

Endnotes

- 343 The volume for SMSs and MIMs sent are estimated based on existing knowledge, conversations with industry players and published industry forecasts including: Chat apps have overtaken SMS by message volume, but how big a disaster is that for carriers?, Gigaom, 29 April 2013. See: <http://gigaom.com/2013/04/29/chat-apps-have-overtaken-sms-by-message-volume/>. Of this quantity, the market leader WhatsApp has by far the highest volume, with a claimed 27 billion messages sent per day, which on its own is greater than the volume of text messages. See: WhatsApp hits new record after processing 27 billion messages in one day, The Next Web, 13 June 2013: <http://thenextweb.com/mobile/2013/06/13/whatsapp-is-now-processing-a-record-27-billion-messages-per-day/>.
- 344 OTT messaging traffic will be twice the volume of P2P SMS traffic by end-2013, Informa, 29 April 2013. See: <http://blogs.informatandm.com/12861/news-release-ott-messaging-traffic-will-be-twice-the-volume-of-p2p-sms-traffic-by-end-2013/>
- 345 For the purposes of this prediction, the following instant messaging services/providers have been included: WhatsApp, Line, Viber, Tango, WeChat, Snapchat, iMessage, Nimbuzz and KakaoTalk. Upon installation, most of these services, create a user account using one's phone number as username. Social networking services for which MIM is a subordinate component have been excluded from this analysis.
- 346 SMS revenues in 2013 reached \$120 billion in 2013 and are forecast to decline to \$96.7 billion by 2018. See: Global annual SMS revenues will be US\$23 billion less by 2018, Informa, 14 November 2013: <http://www.informa.com/Media-centre/Press-releases--news/Latest-News/Global-annual-SMS-revenues-will-be-US23-billion-less-by-2018/>; For more information on revenues for major MIM players, see: Snapchat Could Learn From The Explosive Growth In This Messaging App's Sticker And Ad Revenue, Business Insider, 17 December 2013: <http://www.businessinsider.in/Snapchat-Could-Learn-From-The-Explosive-Growth-In-This-Messaging-Apps-Sticker-And-Ad-Revenue/articleshow/27546896.cms>; Kakao to be Listed Next Year, BusinessKorea, 7 January 2014: <http://www.businesskorea.co.kr/article/2851/kakao-ipo-kakao-be-listed-next-year>
- 347 Ovum anticipates SMS revenues to start declining as of 2017. See: Global SMS revenues will decline after 2016, Ovum, 11 November 2013: <http://ovum.com/2013/11/11/global-sms-revenues-will-decline-after-2016/>
- 348 2G CDMA handsets do not support text messaging.
- 349 Definitive data and analysis for the mobile industry, GSMA Intelligence, November 2013. See: <https://gsmaintelligence.com/>
- 350 A global survey of MIM users found that 58 percent of respondents had more than one MIM app installed on their phone. In Indonesia the average was 4.2 apps. See: Study: Facebook Messenger still reigns in the U.S. but other countries look to WhatsApp, Gigaom, 26 November 2013: <http://gigaom.com/2013/11/26/study-facebook-messenger-still-reigns-in-the-u-s-but-other-countries-look-to-whatsapp/>
- 351 For a description of Apple's iMessage, see: Messages Unlimited texting Unlimited fun, Apple, website as accessed on 16 December 2013. <https://www.apple.com/ios/messages/>
- 352 Snapchat's planned commercialization model is based on the approach used by WeChat, generating revenue from in-app transactions and gaming services. See: Chatting With Mr Snapchat, BBC, 14 November 2013: <http://www.bbc.co.uk/news/technology-24925932>
- 353 For a discussion on the business models for instant messaging services, see: BBM app hits 10m downloads on rival phones, Financial Times, 23 October 2013: <http://www.ft.com/cms/s/0/7555ea62-3bcc-11e3-b85f-00144feab7de.html?siteedition=uk#axzz2kvbMDy4d> (Registration required)
- 354 On Google Play and Apple App Store, WhatsApp is free in the first year of installation and \$0.99/year. See: iTunes Preview, Apple, 2013. See: <https://itunes.apple.com/gb/app/whatsapp-messenger/id310633997>; WhatsApp Messenger, Google Play, 2013: https://play.google.com/store/apps/details?id=com.whatsapp&hl=en_GB
- 355 Line's revenues increased by 45.3 percent in one quarter and 348.9 percent year-on-year. See: Japanese messaging firm LINE brings in \$132 million in revenue for Q2 2013, The Next Web, 8 August 2013: <http://thenextweb.com/apps/2013/08/08/line-corp-brings-in-132m-of-revenue-in-q2-2013-as-its-messaging-app-contributes-76/>
- 356 In Q3 2013, Line recorded a revenue of \$194 million and had 280 million registered users. See: Line app is still growing, brings in \$194 million in revenue in Q3, Tech In Asia, 7 November 2013: <http://www.techinasia.com/line-app-financials-q3-2013-sees-revenue-194-million-bucks/>
- 357 One study has found some evidence of the impact of advertising of MIM services. The survey asked which MIM provider users would switch to if their current provider were no long available. The two most popular choices were WeChat and Line, both of which had launched above the line ad campaigns in some of the study countries. See: Mobile instant messaging: The killer app and its implications for marketers, Campaign India, 29 May 2013: <http://www.campaignindia.in/Article/344951,mobile-instant-messaging-the-killer-app-and-its-implications-for-marketers.aspx>; Messaging apps escalate their global war, BGR, 15 July 2013 <http://bgr.com/2013/07/15/messaging-app-analysis-whatsapp-line>
- 358 There are many articles which suggest SMS is being adversely affected by MIM services: Traditional SMS destroyed by BBM and WhatsApp IM apps, Know your mobile, 14 August 2013. See: <http://www.knowyourmobile.com/network/21020/traditional-sms-destroyed-bbm-and-whatsapp-im-apps>. Also, see: It's official: chat apps have overtaken SMS globally. The cash cow is dying. Time for telcos to wake up & smell the data coffee, Twitter, 29 April 2013: <https://twitter.com/NeelieKroesEU/statuses/328779137206587394>
- 359 The price per gigabyte (GB) of mobile broadband varies considerably, by region, by operator and over time. As of January 2013, one study noted a range of \$3.80 to over \$40. See: At \$22 per GB, N. America is 2nd most expensive region for mobile broadband, study finds, Fierce Wireless, 30 January 2013: <http://www.fiercewireless.com/tech/story/22-gb-n-america-2nd-most-expensive-region-mobile-broadband-study-finds/2013-01-30>
- 360 Delta Partners estimate that the expected revenue loss due to OTT services such as Viber, Kakao Talk, WhatsApp could cost operators as much as \$40 billion in 2014. See: Understanding data economics: The top-line impact of OTTs, Delta Partners Group, November 2013: http://www.deltapartnersgroup.com/our_insights/whitepapers/understanding-data-economics
- 361 OMG! Texting turns twenty, Economist, 3 December 2012. See: <http://www.economist.com/blogs/graphicdetail/2012/12/daily-chart?fsrc=scn/fb/wl/dc/omgtexting> (requires a subscription to read the full article)
- 362 According to analyst firm Ovum, mobile data is forecast to overtake SMS as the largest contributor to non-voice revenues for operators in 2014. See: Mobile data revenue to overtake SMS next year – Ovum, Ovum, 29 April 2013: <http://www.mobilenewscwp.co.uk/2013/04/29/mobile-data-revenue-to-overtake-sms-next-year-ovum/>
- 363 The average file types have been obtained by sending various files via WhatsApp. The highest possible file that can be sent via WhatsApp is 16 MB. See: WhatsApp FAQ, WhatsApp, 2013: <http://www.whatsapp.com/faq/iphone/20964587>

- 364 When it comes to innovating new services, the scale and complexity of the global mobile industry means that decision-making is inevitably slow, and the standards that underpin the industry's uniformity have often acted as a straightjacket. Though some carriers have delivered innovative services in isolation, as a group, they have struggled to cooperate in the development and deployment of new services, especially for data. It may well be that trying to negotiate a common MIM messaging standard for operators is simply too hard.
- 365 An application programming interface (API) specifies how software components and databases interact with each other. In the online world, APIs are used by social networking companies, for example, to give third parties access to their login processes (federated login), and customer data/attributes. In the mobile world, operators are now exposing APIs that relate to location, messaging, customer support and customer attributes. In most instances, APIs are presented as a library that can include specifications for data structures and other variables. For more information see: OneAPI, GSMA, 2013: <http://www.gsma.com/oneapi/>
- 366 The content of the diagram is based on existing knowledge, industry conversations and publicly available information, such as: GSMA, OneAPI: <http://www.gsma.com/oneapi/>; AT&T Developer Program, APIs: <http://developer.att.com/developer/basicTemplate.jsp?passedItemId=12500043>
- 367 Ovum expects A2P SMS traffic to grow at a rate of six percent CAGR between 2013-2017, which compares to a three percent CAGR decline in overall messaging traffic. Over 1.4 trillion A2P SMS messages are forecast for 2013, rising to 2.19 trillion messages by 2018. However, revenues from A2P SMS will not balance the decline from person-to-person (P2P) SMS revenues. See: Global SMS revenues will decline after 2016, Ovum, 11 November 2013: <http://ovum.com/2013/11/11/global-sms-revenues-will-decline-after-2016/>
- 368 UAE Telecommunications Sector Developments & Indicators, 2009-2012, UAE Telecommunications Regulatory Authority, July 2013: <http://www.tra.gov.ae>
- 369 UAE Telecommunications Sector Developments & Indicators, 2009-2012, UAE Telecommunications Regulatory Authority, July 2013: <http://www.tra.gov.ae>
- 370 Top 15 Countries with the Highest Smartphone Penetration, Mashable, 17 Aug 2013: http://mashable.com/2013/08/27/global-smartphone-penetration/?utm_cid=mash-prod-email-topstories
- 371 Mobile Apps, Spot On, 2011: <http://etc-digital.org/digital-trends/mobile-devices/mobile-apps/regional-overview/middle-east/>
- 372 Top 15 Countries with the Highest Smartphone Penetration, Mashable, 17 Aug 2013: http://mashable.com/2013/08/27/global-smartphone-penetration/?utm_cid=mash-prod-email-topstories
- 373 Most Popular Mobile Applications in Saudi Arabia, Ethos, 27 Sept 2012: <http://blog.ethosinteract.com/2012/09/27/most-popular-mobile-applications-in-saudi-arabia/>
- 374 Deloitte, 2014
- 375 Teenagers say goodbye to Facebook and hello to messenger apps, The Guardian, 10 Nov 2013: <http://www.theguardian.com/technology/2013/nov/10/teenagers-messenger-apps-facebook-exodus>
- 376 Facebook to gain more subscribers and expand its mobile services in the Middle East, Gulf News, 20 Feb 2014: <http://gulfnews.com/business/technology/facebook-to-gain-more-subscribers-and-expand-its-mobile-services-in-the-middle-east-1.1293716>
- 377 Mobily launches ground-breaking WhatsApp package, Arab News, 15 Sept 2012: <http://www.arabnews.com/mobily%2%A0launches-ground-breaking-whatsapp%2%A0package>

Researched and written by:

Paul Lee

Director, Head of Global TMT Research
Deloitte Touche Tohmatsu Limited
+44 (0) 20 7303 0197
paullee@deloitte.co.uk

Duncan Stewart

Director of TMT Research
Canada
+1 416 864 3536
dunstewart@deloitte.ca

Adil Parvez

Consultant, TMT
Deloitte & Touche (M.E.)
+971 (0) 4 376 8601
aparvez@deloitte.com

Contributors:

Emmanuel Durou

Director, TMT
Deloitte & Touche (M.E.)
edurou@deloitte.com

Gareth Pereira

Senior Manager, TMT
Deloitte & Touche (M.E.)
garpereira@deloitte.com

Caitlyn Chetty

Business Analyst, TMT
Deloitte & Touche (M.E.)
cchetty@deloitte.com

Marketing contacts:

Amanda Goldstein

TMT Marketing Leader
Deloitte Touche Tohmatsu Limited
+1 212 436 5203
agoldstein@deloitte.com

Karen Hogger

EMEA TMT Marketing Manager
Deloitte Touche Tohmatsu Limited
+44 (0) 20 7007 5405
khogger@deloitte.co.uk

Patrick Mallouh

Supervisor, ME Brand & Communications
Deloitte & Touche (M.E.)
+961 1 748 444
pmallouh@deloitte.com

This communication contains general information only, and none of Deloitte Touche Tohmatsu Limited, its member firms, or their related entities (collectively, the "Deloitte network") is, by means of this communication, rendering professional advice or services. No entity in the Deloitte network shall be responsible for any loss whatsoever sustained by any person who relies on this communication.

About Deloitte

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as "Deloitte Global") does not provide services to clients. Please see www.deloitte.com/about for a more detailed description of DTTL and its member firms.

Deloitte provides audit, tax, consulting, and financial advisory services to public and private clients spanning multiple industries. With a globally connected network of member firms in more than 150 countries and territories, Deloitte brings world-class capabilities and high-quality service to clients, delivering the insights they need to address their most complex business challenges. Deloitte's more than 200,000 professionals are committed to becoming the standard of excellence.

About Deloitte & Touche (M.E.)

Deloitte & Touche (M.E.) is a member firm of Deloitte Touche Tohmatsu Limited (DTTL) and is the first Arab professional services firm established in the Middle East region with uninterrupted presence since 1926.

Deloitte is among the region's leading professional services firms, providing audit, tax, consulting, and financial advisory services through 26 offices in 15 countries with more than 3,000 partners, directors and staff. It is a Tier 1 Tax advisor in the GCC region since 2010 (according to the International Tax Review World Tax Rankings). It has received numerous awards in the last few years which include Best Employer in the Middle East, best consulting firm, and the Middle East Training & Development Excellence Award by the Institute of Chartered Accountants in England and Wales (ICAEW).