

THE TECHNOLOGY,
MEDIA AND
TELECOMMUNICATIONS
REVIEW

EIGHTH EDITION

Editor
John P Janka

THE LAWREVIEWS

THE

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TELECOMMUNICATIONS
REVIEW

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CONTENTS

PREFACE.....	vii
<i>John P Janka</i>	
LIST OF ABBREVIATIONS.....	ix
Chapter 1 AUSTRALIA.....	1
<i>Angus Henderson, Richard Dampney and Stephen Coudounaris</i>	
Chapter 2 BRAZIL.....	16
<i>Raphael de Cunto and Beatriz Landi Laterza Figueiredo</i>	
Chapter 3 BULGARIA.....	28
<i>Anna Rizova and Oleg Temnikov</i>	
Chapter 4 CHINA.....	42
<i>Jihong Chen</i>	
Chapter 5 EU OVERVIEW.....	54
<i>Marco D'Ostuni, Gianluca Faella and Manuela Becchimanzi</i>	
Chapter 6 FRANCE.....	73
<i>Myria Saarinen and Jean-Luc Juban</i>	
Chapter 7 GERMANY.....	90
<i>Christian Engelhardt</i>	
Chapter 8 HONG KONG.....	107
<i>Simon Powell and Chi Ho Kwan</i>	
Chapter 9 INDIA.....	123
<i>Atul Dua and Anuradha</i>	

Contents

Chapter 10	INDONESIA.....	136
	<i>Aston Goad, Indra Dwisatria and Randy Riflaan</i>	
Chapter 11	ITALY.....	148
	<i>Marco D'Ostuni, Marco Zotta and Manuela Becchimanzi</i>	
Chapter 12	JAPAN.....	167
	<i>Hiroki Kobayashi and David Lai</i>	
Chapter 13	KENYA.....	185
	<i>Brian Tororei</i>	
Chapter 14	LEBANON.....	197
	<i>Simon El Kai, Souraya Machnouk, Hachem El Housseini and Ziad Maatouk</i>	
Chapter 15	LUXEMBOURG.....	210
	<i>Linda Funck</i>	
Chapter 16	MEXICO.....	232
	<i>Federico Hernández Arroyo</i>	
Chapter 17	NIGERIA.....	243
	<i>Olajumoke Lambo and Godson Oghenechuko</i>	
Chapter 18	PORTUGAL.....	252
	<i>Jaime Medeiros, Mónica Oliveira Costa and Ana Ramos Logrado</i>	
Chapter 19	RUSSIA.....	271
	<i>Maxim Boulba and Elena Andrianova</i>	
Chapter 20	SINGAPORE.....	281
	<i>Ken Chia and Daryl Seetoh</i>	
Chapter 21	SPAIN.....	307
	<i>Pablo González-Espejo</i>	
Chapter 22	SWITZERLAND.....	321
	<i>Andrés Gurovits and Clara-Ann Gordon</i>	
Chapter 23	TAIWAN.....	338
	<i>Patrick Marros Chu, Vick Chien and Sam Huang</i>	

Contents

Chapter 24	TURKEY.....	349
	<i>Burçak Ünsal and Okan Gündüz</i>	
Chapter 25	UNITED KINGDOM.....	367
	<i>John D Colahan, Gail Crawford and Lisbeth Savill</i>	
Chapter 26	UNITED STATES.....	413
	<i>John P Janka and Jarrett S Taubman</i>	
Appendix 1	ABOUT THE AUTHORS.....	435
Appendix 2	CONTRIBUTING LAW FIRMS' CONTACT DETAILS.....	455

PREFACE

This fully updated eighth edition of *The Technology, Media and Telecommunications Review* provides an overview of evolving legal constructs in 26 jurisdictions around the world. It is intended as a business-focused framework for both start-ups and established companies, as well as an overview for those interested in examining evolving law and policy in the rapidly changing TMT sector.

Broadband connectivity and wireless services continue to drive law and policy in this sector. The disruptive effect of new technologies and new ways of communicating creates challenges around the world as regulators seek to facilitate the deployment of state-of-the-art communications infrastructure to all citizens and also to use the limited radio spectrum more efficiently than before. At the same time, technological innovation makes it commercially practical to use large segments of ‘higher’ parts of the radio spectrum for the first time. Moreover, the global nature of TMT companies compels them to address these issues in different ways than before.

A host of new demands, such as the developing internet of things, the need for broadband service to aeroplanes, vessels, motor vehicles and trains, and the general desire for faster and better mobile broadband service no matter where we go, create pressures on the existing spectrum environment. Regulators are being forced to both ‘reform’ existing spectrum bands, so that new services and technologies can access spectrum previously set aside for businesses that either never developed or no longer have the same spectrum needs; and facilitate spectrum sharing between different services in ways previously not contemplated. Many important issues are being studied as part of the preparation for the next World Radio-communication Conference to be held in 2019. No doubt, this Conference will lead to changes in long-standing radio spectrum allocations that have not kept up with advances in technology, and it should also address the flexible ways that new technologies allow many different services to co-exist in the same segment of spectrum.

Legacy terrestrial telecommunications networks designed primarily for voice are being upgraded to support the broadband applications of tomorrow that will extend economic benefits, educational opportunities and medical services throughout the world. As a result, many governments are investing in or subsidising broadband networks to ensure that their citizens can participate in the global economy, and have universal access to the vital information, entertainment and educational services now delivered over broadband. Many governments are re-evaluating how to regulate broadband providers, whose networks have become essential to almost every citizen. Convergence, vertical integration and consolidation also lead to increased focus on competition and, in some cases, to changes in the government bodies responsible for monitoring and managing competition in the TMT sector. Similarly,

many global companies now are able to focus their regulatory activities outside their traditional home, and in jurisdictions that provide the most accommodating terms and conditions.

Changes in the TMT ecosystem, including increased opportunities to distribute video content over broadband networks, have led to policy focuses on issues such as ‘network neutrality’ – the goal of providing some type of stability for the provision of the important communications services on which almost everyone relies, while also addressing the opportunities for mischief that can arise when market forces work unchecked. While the stated goals of that policy focus are laudable, the way in which resulting law and regulation are implemented has profound effects on the balance of power in the sector, and also raises important questions about who should bear the burden of expanding broadband networks to accommodate the capacity strains created by content providers and to facilitate their new businesses.

The following chapters describe these types of developments around the world, as well as the developing liberalisation of foreign ownership restrictions, efforts to ensure consumer privacy and data protection, and measures to ensure national security and facilitate law enforcement. Many tensions exist among the policy goals that underlie the resulting changes in the law. Moreover, cultural and political considerations often drive different responses at the national and the regional level, even though the global TMT marketplace creates a common set of issues.

I would like to take the opportunity to thank all of the contributors for their insightful contributions to this publication, and I hope you will find this global survey a useful starting point in your review and analysis of these fascinating developments in the TMT sector.

John P Janka
Latham & Watkins LLP
Washington, DC
October 2017

JAPAN

Hiroki Kobayashi and David Lai¹

I OVERVIEW

The media and telecommunications environment in Japan has continued its rapid development throughout 2016 and the first half of 2017. While the country has already achieved a broadband penetration rate of 100 per cent, numerous measures have been (and continue to be) implemented to prepare the nation's telecommunications networks and regulatory regimes for hosting the 2020 Olympic Games in Tokyo. To accommodate the increased number of foreign visitors that will attend the Olympic Games, both the government and private mobile service providers have focused their efforts on the expansion of free Wi-Fi accessibility. Concurrently with this increase in free Wi-Fi availability, longstanding restrictions on the use of foreign mobile devices in Japan have been liberalised, with the result that overseas visitors may temporarily bring and use their personal devices without registration.

The government, in conjunction with the three main mobile services providers, have announced their intent to offer next generation 5G cellular data services by 2020. In furtherance of this goal, NTT DOCOMO and KDDI, two of the three providers, began testing 5G networks in May 2017. We expect Japan to continue to develop its telecommunications networks, services and technologies in the coming years in anticipation of the Olympic Games.

The government is also increasingly prioritising the expansion of market access and competition within the Japanese telecommunications industry, with the ultimate goal of reducing mobile device charges for Japanese consumers. Recent regulations and policy guidelines issued by Japan's Ministry of Internal Affairs and Communication (MIC) have led to a significant increase in the number of active MVNOs, which has also resulted in a number of major Japanese companies, such as Rakuten, entering the MVNO sector. The increase in MVNO service availability has served to both further increase pressure on Japanese regulators to facilitate fair competition within the telecommunications industry, as well as incentivise the major telecommunications companies to reduce prices.

While the MIC and other government authorities have taken steps to eliminate various business practices considered by many to be anticompetitive, such as SIM card locking and automatically renewing two-year contracts, there remain a number of hurdles that have not yet been fully addressed. For example, the government has not yet implemented an auction process for purposes of determining spectrum allocations despite criticism that the current allocation process lacks transparency and favours content broadcasters over mobile service

¹ Hiroki Kobayashi is a corporate partner and David Lai is a corporate associate at Latham & Watkins Gaikokuho Joint Enterprise.

providers. Nevertheless, the MIC and other governmental agencies remain committed to improving high-quality telecommunications network access and reducing associated costs for consumers, and we foresee significant regulatory reforms on the horizon to accomplish these goals.

II REGULATION

i The regulators

The MIC's broad authority to regulate in the telecommunications and broadcasting spaces is derived from a series of statutes, which are the ultimate source of law in these sectors in Japan. The core statutes conferring this authority include:

- a* the Wire Telecommunications Act, which governs facilities for wired signal transmission, such as wired telephony, wired broadband networks and cable television;
- b* the Radio Act, which governs facilities for wireless signal transmission, such as mobile phones, terrestrial and satellite television broadcast infrastructures, and high-powered Wi-Fi networks;
- c* the Telecommunications Business Act, which regulates telecommunications and media businesses; and
- d* the Broadcast Act, which regulates the content that telecommunications and media businesses carry or provide.

The Broadcast Act and the Radio Act were amended in November 2010 to provide a more streamlined regime for the review and granting of broadcast licences, which included the separation of 'broadcasting licences' from 'transmission licences', which had previously been a single licence, in order to make the process of receiving a licence easier for applicants.

Prior to this amendment, general broadcasting licences, cable radio broadcasting licences, CATV broadcasting licences and licences to broadcast content through third-party facilities were granted by the MIC under different statutes using different procedures, which had developed over time as the underlying technologies were developed and implemented. The statutory licensing provisions for these activities were consolidated into the amended versions of the Broadcast Act and Radio Act, under which broadcasting activities have been divided into two major licensing categories: 'main broadcasting', consisting of both terrestrial broadcasting and broadcasting through broadcasting and communication satellites located over 110 east longitude; and 'regular broadcasting', covering broadcasting through all other satellites, CATV and IPTV.

Prior to the amendment, terrestrial broadcasting licences were granted only to broadcasters that both provided their own broadcast content and operated the wireless transmission facilities used for its distribution. Under the amended Broadcast Act and Radio Act, broadcasters are now able to distribute their programming through third-party terrestrial wireless transmission facilities, just as they already were permitted to distribute their programming through third-party satellites and third-party cable television providers.

These reforms are expected to help lessen the regulatory burdens on telecommunications and broadcasting companies, to provide flexibility to the management of those companies and to open up competition by decoupling the ownership of broadcasting facilities from the production of broadcasting content.

ii Regulated activities

The MIC exercises its statutorily conferred regulatory power in numerous ways. For one, it has the authority to grant broadcasting licences (for facilities such as television and radio stations that produce or broadcast media content), wireless transmission licences (for mobile phones and facilities such as mobile phone base stations and satellites) and telecommunication business licences (for traditional wired communications as well as mobile phone providers and ISPs), and monitors the businesses conducted with such licences.

The MIC is also charged with allocating radio spectrum to licence holders, and has adopted detailed regulations to monitor and establish technical standards applicable to spectrum users and their licensed facilities and businesses. The process by which the MIC exercises this decision-making authority has often been criticised as opaque and arbitrary. For example, the allocation of radio spectrum frequencies to private sector users is based on the ‘overall judgement’ of the MIC, not on any clear set of factors, leaving applicants unsure as to what elements are being considered and opening the MIC to accusations of favouritism or political manipulation. Spectrum policy in Japan is further discussed in Section IV.

The Broadcasting Act requires licensed broadcasters to stay politically neutral and report the truth. In February 2016, the Minister of the MIC made a statement during a legislative session that caused major controversy. The Minister stated that a broadcaster would breach the Broadcasting Act if it materially deviates from the requirements of the Broadcasting Act by, for example, repeatedly broadcasting lengthy content supporting a particular political view and not reporting on other political views. In the case of such a breach, the Minister indicated that the MIC could issue an order to suspend such broadcaster’s business. This statement was criticised for potential chilling effects on freedom of speech.

iii Ownership and market access restrictions

Restrictions on foreign investment

Foreign ownership and management of broadcasting licence holders, wireless transmission licence holders and Nippon Telegraph and Telephone Corporation (NTT), a semi-privatised national telecommunications service provider, is restricted by statute.

As discussed in Section II.i, the Broadcast Act and the Radio Act, each amended in 2010, now divide broadcasting activities into two categories: main broadcasting and regular broadcasting. Under the amended Broadcast Act, no foreign national, foreign entity or Japanese entity that has either a non-Japanese director or 20 per cent or more of its voting shares directly owned by one or more foreign nationals or entities may hold or receive a licence for main broadcasting. Further, the indirect foreign ownership of 20 per cent or more of a licence holder’s voting shares through a domestic subsidiary or affiliate is not permitted for terrestrial (non-satellite) main broadcasting licences. If foreign nationals or entities acquire 20 per cent or more of the voting shares of a main broadcasting licence holder, the licence will be cancelled. To avoid cancellation of its licence, any main broadcasting licence holder whose shares are traded on a stock exchange is permitted by statute to refuse to recognise a transfer of its shares if the transfer would cause it to violate foreign ownership restrictions. In contrast, foreign investment in regular broadcasting licence holders is not restricted. As a result, several foreign-owned broadcasters now broadcast into Japan through cable television and third-party satellites.

Restrictions on cross-ownership

Ownership of multiple broadcast outlets is restricted by the Broadcast Act and related regulations. This restriction on the concentration of ownership is intended to support press freedom and the diversity of speech in broadcasting. The restriction includes limits on the simultaneous ownership of shares in, and board seats of, multiple main broadcasting licence holders, as well as aggregate upper limits on the use of satellite transponder capacity for owners of multiple main broadcasting licence holders. However, in response to worsening business conditions for radio broadcasters, the MIC amended its regulations in 2011 to relax restrictions on the cross-ownership of radio broadcasting licence holders, now allowing entities to simultaneously control up to four licence holders. Cross-ownership of newspapers and broadcasters has not been restricted in Japan. Newspaper companies often hold large ownership stakes in broadcast companies: in fact, each major private television broadcast network in Japan is affiliated with a major newspaper.

iv Transfers of control and assignments

In addition to foreign ownership and management, and cross-ownership limits, MIC approval is required for mergers and acquisitions that result in a new entity holding a main broadcasting or wire transmission licence. Therefore, a statutory merger pursuant to which a licence holder will not be the surviving company, or the divestiture of a business conducted under such licence, each generally require MIC approval. The MIC's review process primarily involves a determination as to whether the proposed transferee of a licence would have been eligible to independently qualify as a new licensee.

Further, the Telecommunications Business Act was amended in May 2015 to require the major telecommunications companies² to renew their respective telecommunications business registrations when such companies engage in mergers or share acquisitions. The telecommunications industry in Japan is monopolised by three major private telecommunication companies – NTT DOCOMO,³ KDDI and SoftBank – and this amendment allows the MIC to review any proposed merger or share acquisition's potential anticompetitive effects on business operations and fair trade. The amendment came into effect in 2016.

In addition, pursuant to Japan's Foreign Exchange and Foreign Trade Act, certain acquisitions of shares in broadcasting licence, wireless transmission licence and telecommunication business licence holders by non-Japanese parties are subject to prior filing and waiting periods.⁴ Ordinarily, this is a *pro forma* requirement where no national security concerns are present.

2 These renewal requirements apply to any fixed line provider with greater 50 per cent market share and any mobile provider with greater than 10 per cent market share.

3 NTT DOCOMO is publicly traded, but NTT Corporation holds approximately 63 per cent of its outstanding shares. NTT Corporation is 32.39 per cent owned by the Japanese Ministry of Finance as of 31 March 2017.

4 Regulated transactions include an acquisition of 10 per cent or more of the shares of a licence holder whose shares are traded on a stock exchange or over-the-counter market; and an acquisition from a Japanese party of any shares in a licence holder whose shares are not traded on a stock exchange or over-the-counter market.

III TELECOMMUNICATIONS AND INTERNET ACCESS

i Internet and internet protocol regulation

The MIC regulates internet and IP-based services (such as high-speed internet and VoIP), along with wired telephony and mobile phones, under the Telecommunications Business Act. The Act and the regulations thereunder emphasise protection of the secrecy of communications and the reliable and non-discriminatory provision of telecommunications services.

The Act not only regulates service providers that operate their own network facilities, but also service providers that facilitate telecommunication between users but do not operate their own network facilities (such as dedicated hosting services on which clients can operate an email server). Internet-based services that are not designed to facilitate telecommunication, such as internet banking and internet-based newsletter and media subscriptions, are not deemed to be 'telecommunications' and therefore are not regulated under the Act.

ii Universal service

Under the Telecommunications Business Act and the NTT Act, the NTT group is required to provide wired telephony services (analogue or IP over optical fibre), pay phone services and emergency call services to all areas of Japan. NTT East and NTT West⁵ provide services to depopulated areas, and a telecommunications trade association comprised of each of the major telecommunications companies in Japan then reimburses NTT East and NTT West for any cost deficits incurred by the NTT group's provision of such service. National law requires each telecommunication service provider connecting its network with that of NTT East or NTT West to pay a small fee (approximately ¥2 to ¥8, varying from year to year) per landline and mobile phone number (customer), which costs are typically passed along to individual users in connection with their monthly telephone service bills.

There is no similar law requiring universal broadband service. However, as of 2014, the broadband infrastructure (3.5G, satellite internet, 3.9G, DSL, optics fibre/FTTH, etc.) penetration rate in Japan had already reached 100 per cent, and super-broadband infrastructure (optics fibre/FTTH, 3.9G and other infrastructure with data transmission speed over 30Mb per second, including DSL, fixed wireless access, satellite, broadband wireless access, etc.) penetration rate had similarly reached 99.98 per cent.

Public Wi-Fi access

The MIC has been planning and implementing improvements to public Wi-Fi services in an effort to increase the number of foreign visitors to Japan. In particular, the MIC has been managing the implementation of the 'SAQ2⁶ JAPAN Project'⁷ since June 2014. The goals of the SAQ2 JAPAN Project include:

- a increasing the number of free Wi-Fi hotspots and improving the accessibility of these hotspots to the public;

5 NTT East and NTT West are subsidiaries of NTT (Nippon Telegraph and Telephone Corporation), which is itself 32.39 per cent government-owned. NTT was a single consolidated conglomerate that conducted all of the activities now conducted by the individual NTT group companies. In 1999, the NTT conglomerate was forced to split into multiple smaller companies for antitrust purposes.

6 This application was prepared primarily for foreign visitors' use, but Japanese residents are also able to use the application.

7 SAQ is an acronym for 'selectable', 'accessible' and 'quality'.

- b* facilitating the availability and installation of Japanese SIM cards for foreign mobile phone users in Japan;
- c* reducing international roaming fees applicable to foreign mobile phone users in Japan; and
- d* implementing multi-language interpretation systems (i.e., translation applications).

In November 2013, an NTT group affiliate began providing a smartphone application called 'Japan Connected-free Wi-Fi', which allows users to connect to approximately 150,000 public Wi-Fi access points,⁸ including those at airports, train stations, convenience stores and tourist spots across Japan, with a one-time new user registration. The smartphone application accommodates 13 languages, including English, French, German, Spanish, Italian, Chinese, Korean, Thai and Bahasa Indonesia. This NTT group affiliate also continues to install additional Wi-Fi access points.

In February 2016, the MIC issued a policy statement encouraging the adoption of a simplified and unified authentication protocol with the goal of increasing foreign visitors' access to free public Wi-Fi services. In furtherance of this goal, the MIC is conducting field tests to prove the workability of such a unified protocol using smartphone applications and is disseminating such protocol to local municipalities to aid in the revitalisation of local economies through increased tourism. On behalf of the MIC, Gateway App Japan, a non-profit organisation, has commenced field testing of a smartphone application called the 'Omotenashi App'⁹ with the cooperation of KDDI and SoftBank, the primary competitors of the NTT group. It has yet to be decided whether the two smartphone applications (Japan Connected-free Wi-Fi and the Omotenashi App) will be consolidated or made compatible.

Separately from the above free Wi-Fi service improvements, major Japanese mobile phone service providers have established an emergency disaster service set identifier (SSID), '00000JAPAN'. This SSID enables each Wi-Fi user to use all Japanese mobile service providers' Wi-Fi networks during natural disasters regardless of the provider to which they are currently subscribed.¹⁰ This SSID was made available for the first time during a two-week period following an earthquake in the Kumamoto area in April 2016.

Use of foreign mobile devices

As a general rule, the use of mobile devices in Japan that do not meet Japanese technology standards with respect to the emission of radio waves, and for which the manufacturer has not obtained authentication from the government, is prohibited by law. Therefore, until relatively recently, many foreign visitors' use of their personal mobile devices in Japan was technically illegal, although there are no known cases of any foreign visitor being charged with Radio Act violations for the use of a personal mobile device. Commencing in August 2016, an amendment to the Radio Act took effect that permits foreign visitors to Japan to use their personal mobile devices (even if not authenticated in Japan) for up to 90 days, so long as such devices have been certified by the Federal Communications Commission in the United States or the CE certification in the European Economic Area using standards equivalent to those imposed upon Japanese technology. This Radio Act amendment was implemented

8 As of November 2016.

9 Omotenashi means hospitality.

10 Normally, users can only use the Wi-Fi network of the service provider to which they are currently subscribed.

to encourage foreign tourists to visit Japan in anticipation of the Olympic Games in Tokyo in 2020. While there had previously been concerns that devices not authenticated in Japan could adversely affect the radio use environment, the MIC eventually concluded that the possibility of non-authenticated foreign devices adversely affecting the radio use environment is minimal.

Proliferation of the internet of things (IoT)

To address the rapid increase in the number of IoT devices, which could exhaust the number of available mobile phone numbers, the MIC in January 2017 amended its regulations on the assignment of phone numbers to assign the designation '020' to 'machine-to-machine' (M2M) data connection devices, keeping them separated from standard mobile numbers designated with '090', '080' and '070'. It is expected that M2M data connections conducted through mobile networks will initially be used primarily for telemeters (e.g., remote management of water and gas meters, vending machines and elevators) and telematics (e.g., information services equipped in cars) and will eventually cover connected cars and other IoT devices. NTT DOCOMO has announced a plan to commercially launch M2M data connection services commencing in October 2017.

iii Restrictions on the provision of service

The telecommunications industry in Japan is dominated by NTT East and NTT West and by three major private telecommunication companies: NTT DOCOMO, KDDI and SoftBank. Because existing providers can become dominant to the exclusion of new entrants once their network or technology standard has been adopted by a critical mass of users, the MIC and the Japan Fair Trade Commission have jointly adopted guidelines to regulate anticompetitive practices by providers that have high market shares. For example, the guidelines state that the Fair Trade Commission would raise antitrust issues if a telecommunications service provider, such as a mobile phone carrier, with a high market share were to contractually restrict its customers from switching to another service provider or to charge an excessive cancellation fee for doing so.

Pricing restrictions

Under the Telecommunications Business Act, prices charged to end users by NTT East and NTT West for wired telephony and payphone services are subject to caps to be determined by the MIC. These caps are intended to prevent these companies from abusing their near-monopoly over these fundamental services and to encourage them to improve efficiency. Prices to be charged by NTT East and NTT West for optical data services and prices to be charged by KDDI, NTT DOCOMO and SoftBank for mobile services must all be submitted to the MIC for review before being implemented. If the MIC finds the pricing scheme inappropriate, either because it is anticompetitive or is otherwise significantly unreasonable, the MIC may require the carrier to change its pricing scheme. Otherwise, prices charged to end-users of telecommunications services and the other terms of service are not regulated. However, Prime Minister Shinzo Abe and other governmental officials have recently begun putting pressure on the major telecommunications companies to reduce prices for mobile phone services.

As a general rule, all telecommunication business licence holders must provide access to any other carrier that seeks to interconnect with their network. However, prices for and the methods of interconnection have been areas of both public controversy and

regulatory scrutiny. Telecommunications companies have pressed for greater access to NTT's infrastructure, including its optical fibre network. NTT only provided access to its fibre-optic network on a bulk basis until 1 February 2015, when NTT East and NTT West respectively launched programmes offering single-line fibre-optic wholesale to other carriers, including to non-traditional telecommunication companies such as Sohgo Security Services (ALSOK) and Tsutaya, a rental video company. These fibre-optic wholesale programmes are designed to improve fibre-optic use by reducing fees for fibre-optic services at the end-user level and, as of September 2017, approximately 550 operators had commenced utilising such fibre-optic wholesale services.

Before the commencement of NTT's fibre-optic wholesale programme, there had been competition concerns regarding NTT group companies' fibre-optic services, which stemmed from the confidential nature of NTT East's and NTT West's contracts with secondary retailers providing fibre-optic wholesale services. At such time, other major telecom service providers such as KDDI and Softbank expressed concern that NTT East and NTT West provide their fibre-optic wholesale services to NTT group companies at lower prices than to unaffiliated companies, which, in turn, enables NTT group companies to provide fibre-optic services to end-users at lower prices. In response to these concerns, the MIC prepared guidelines with regard to the provision of fibre-optic wholesale that prohibit the unfair treatment of specific service providers and also provided for potential enforcement mechanisms by the MIC. A survey conducted by the MIC shows NTT DOCOMO and NTT Communications (a data communication company of the NTT group) obtained approximately 60 per cent of the fibre-optic wholesale service market by offering large fee discounts on their respective mobile services to users. This wholesale market share concentration is prominent, and other fibre optic service providers have argued that the discounted fees charged by NTT DOCOMO and NTT Communications are anticompetitive in nature. To address these concerns, the MIC decided in May 2016 to launch investigations into NTT DOCOMO's business practices.

MVNOs

Along with the introduction of a fibre-optic wholesale services, in recent years mobile line wholesale services (MVNO) have begun expanding in Japan. While MVNOs have existed in Japan since 2001, until recently the number of service providers and subscribers had been few in number. In 2007, the MIC's guidelines regarding MVNOs were amended to clarify the relative rights and obligations between MVNOs and MNOs, and a formalised dispute settlement procedure was established. After this amendment, the number of MVNO service providers using MNOs' mobile lines or WiMAX lines increased. In 2014, the guidelines for the operation of Type II designated telecommunication facilities were amended, which included a change in the calculations for mobile line wholesale pricing. These calculation changes are expected to lead to reductions in mobile line wholesale prices to the benefit of MVNOs. Most recently, in 2017 the guidelines regarding MVNOs were amended twice to, among other things, clarify that if an MNO discriminates against MVNOs with respect to providing access to the MNO's network, the MIC may issue it 'business improvement orders'.¹¹

11 The MIC, as part of its regulatory enforcement powers, has the authority to issue 'business improvement orders' to telecommunications companies to the extent it deems their activities to significantly disrupt the sound development of telecommunications services.

The aforementioned guideline amendments have spawned a recent increase in MVNO activity. In FY 2013, only 22 MVNOs provided data communication services or voice communication services in Japan. However, as of March 2017, the number of active MVNOs has increased to 684. Correspondingly, there were 15.86 million MVNO subscribers by March 2017, up from 7.17 million in December 2013. However, despite this recent increase in MVNO activity, MVNO service subscribers still only constituted 9.7 per cent of all mobile service subscribers as of March 2017. In September 2017, Rakuten, a major online shopping platform also operating an MVNO business, announced its acquisition of Freetell, a financially distressed MVNO business operated by an equally financially distressed manufacturer of mobile terminals.

Anticompetitive business practices

One of the reasons MVNO penetration remains low stems from the common practice by MNOs of permitting subscribers to purchase new mobile devices on monthly instalment plans, while often simultaneously offering discounts on monthly subscription fees equal to or greater than the amount of such monthly instalment payments. MNOs advertise this instalment and discount programme as rendering subscribers' new devices 'effectively free'. In contrast, the vast majority of MVNOs do not have the financial resources to permit subscribers to pay for new mobile devices in instalments. Instead, MVNO subscribers seeking a new mobile device must often pay its entire purchase price upfront. This resource disparity has made it difficult for MVNOs to compete with MNOs for new subscribers.

Recognising the high barriers to entry created by 'effectively free' mobile device programmes, in December 2015, the Minister of the MIC informally requested NTT DOCOMO, KDDI and SoftBank to reconsider their respective use of 'effectively free' new mobile device programmes. Further, in March 2016, the MIC issued guidelines affirmatively compelling MNOs to decrease the size of their mobile device discounts, such that subscribers are required to make reasonable payments toward their new devices, with the intended result that competition would be bolstered and, eventually, subscription fees would be reduced. In October 2016, the MIC issued official warnings to NTT DOCOMO, KDDI and SoftBank for attempting to subvert the March 2016 amended guidelines by distributing coupons to subscribers and potential subscribers in lieu of discounts.

The MIC has also made efforts to address the issues of SIM locking and requiring subscribers to enter into two-year contracts with automatic contract renewal, in each case to facilitate competition between MNOs and MVNOs and reduce consumers' mobile expenses.

Since the MIC's adoption of guidelines in 2010, it has been encouraging mobile service providers to provide SIM unlock options for customers' mobile devices, as it believes that the practice of SIM locking prevents consumers from freely choosing mobile phone carriers and causes competition stagnation. In addition, these guidelines did not include a direct or indirect obligation of mobile service providers to implement SIM unlock policies. Therefore, NTT DOCOMO was the only operator that implemented a SIM unlock option at that time.¹²

The MIC amended the 2010 guidelines regarding SIM unlocking in December 2014. In this amendment, the MIC announced that it will consider telecommunications companies that fail to address SIM unlock requests without reasonable grounds for doing so as having

¹² However, NTT DOCOMO required customers to pay a fee of ¥3,000 for SIM unlock requests, and the SIM unlock provided was incomplete.

engaged in action 'sufficiently disruptive to the sound development of telecommunications services' to constitute grounds for issuing a business improvement order against them. Therefore, mobile service operators are now substantially obligated to provide SIM unlock options to subscribers. However, the guidelines permitted carriers to impose a waiting period before accepting SIM unlock requests to avoid inappropriate conduct on the part of users, such as subscribing for mobile services just to purchase a mobile device or terminating mobile services while paying the purchase price of a new mobile device through instalments. In response to this, each of the three carriers has imposed a waiting period of approximately six months before honouring SIM unlock requests. The MIC also issued new guidelines¹³ requiring carriers to honour subscribers' SIM unlock requests immediately if they paid the full price of their device upfront and within not more than 100 days if the purchase price of their device is being paid in instalments. It is expected that customers' mobile carrier choices and competition among the major mobile service operators and MVNO service operators will increase under the MIC's new SIM unlock policy.

While there has been significant advancement in Japan with respect to SIM unlock policies, there has been little progress toward the abolishment of two-year contracts. MNOs require customers enjoying the benefits of their 'effectively free' mobile device programmes to enter into two-year contracts under which customers are required to pay approximately ¥10,000 for early termination, plus an accelerated payment of purchase price of a smartphone that would otherwise be paid by instalments during the two-year term. The two-year contract system, in conjunction with the 'effectively free' mobile device practice, has been identified as reducing customers' freedom of choice in mobile service carriers.

In July 2015, a council of advisers to the MIC has raised the issue of automatic contract renewal as a concern, stating that 'automatic contract renewal has the effect of making two-year contracts four-year contracts or six-year contracts through extension' and 'in that sense, we cannot deny that the current automatic contract renewal system deprives customers of freedom of choice of services'. Since customers can only terminate their automatically renewing two-year contracts without charge in the 25th month from commencement, many customers end up missing this brief no-fee termination window and are required to either once again pay a termination fee to discontinue their services or to continue to using their provider for an additional two years.

In light of their findings, the council of advisers concluded 'it is appropriate to establish a plan where two-year contracts are not renewed after the initial binding period so that customers can terminate their contracts with no charge'. In response, KDDI and SoftBank have started offering two-year contracts without automatic renewal but with additional monthly fees of ¥300. However, these new contracts have been criticised as being even less consumer-friendly than the original automatically renewing two-year contracts in that they effectively impose an early termination penalty of ¥7,200 (¥300 per month over 24 months) even if customers do not terminate (or if they properly terminate the contract in the 25th month). NTT DOCOMO has started to offer an option to, at each renewal, choose to continue with an additional two-year term, receiving additional customer reward points or convert to a month-to-month contract. In June 2017, the MIC issued warnings to the three carriers for, *inter alia*, not explaining such options to customers. However, despite its

13 These new guidelines also replace the existing guidelines on 'effectively free' mobile device programmes to address service providers' practice of offering subsidies toward the purchase of a new device based on unreasonably high trade-in values for consumers' old devices.

anticompetitive findings, the MIC has not completely prohibited two-year contracts with automatic renewal. Therefore, the abolishment of automatically renewing two-year contracts remains unlikely in the near future.

Further, in connection with the launch of Apple Inc's iPhone 8 and iPhone X in September 2017, mobile carriers have announced new subscription plans that may effectively bind customers beyond the previously customary two-year contract period. For example, SoftBank announced a subscription programme for 'effectively half-priced' iPhones under which SoftBank permits subscribers to pay for iPhone 8s and iPhone Xs over 48 monthly (four-year) instalments. Under this plan, Softbank will also permit subscribers to trade in their iPhone 8 or iPhone X for a newer model in or after the 25th contract month without requiring such subscribers to pay remaining instalments owed on their prior devices. To get the waiver of these remaining instalments, subscribers are required to buy the newer iPhone from SoftBank under the same programme, which will effectively lock in the subscribers for six years (an additional four years following the trade-in after two years) or an even longer period (if subscribers trade in the newer iPhones again following the second two-year term).

Unsolicited communications

Separate regulations exist in Japan restricting unsolicited texts and emails and unsolicited phone calls. With respect to unsolicited texts and emails, the Act on Regulation of Transmission of Specified Electronic Mail prohibits:

- a* the transmission of emails using false sender information as a means of advertisement for the sender's own or another person's sales activities;
- b* the transmission of emails to persons who have not opted in to receive such specified emails; and
- c* even where the recipient has opted in to receive emails from the sender, the transmission of an unreasonably large number of emails for the purpose of corroborating or promoting the sender's own or another person's sales activities.

Violators of these prohibitions on unsolicited texts and emails may face penalties of up to one year's imprisonment or a fine of up to ¥1 million. Regulations pertaining to unsolicited phone calls are handled at the local prefectural level. Accordingly, each local prefectural government has established a local ordinance prohibiting the making of unsolicited phone calls. For example, the Metropolitan Government of Tokyo has implemented an anti-nuisance ordinance prohibiting continued unsolicited phone calls and facsimiles, and offenders may be penalised with up to six months' imprisonment or a fine of up to ¥500,000.

iv Security

Protection of personal information

In keeping with Japan's constitutional protection of freedom of speech and secrecy of communication, the Telecommunications Business Act prohibits ISPs from censoring or infringing on the privacy of communications passing through their networks.

As a general matter, the Law Concerning the Protection of Personal Information (Privacy Act) protects personal information or data that can be used to identify specific living persons. Under the Privacy Act, such entities handling such information are required to publish a 'purpose of utilisation' regarding its use. Personal information incorporated into a database must be kept accurately, and necessary and proper measures to maintain its security must be instituted. Any person whose personal data are kept in a database for more than six months

has a right to request access to the data, and add to, modify or delete them. In August 2015, the Privacy Act was amended to strengthen the protection of personal information, including through expanded protection of sensitive personal information, restrictions on transfer of personal information outside Japan and the establishment of protocols for the use of anonymised data to facilitate 'big data' analysis.

Further, the MIC has issued Privacy Act guidelines that are specific to telecommunications businesses. As these guidelines are structured to reflect the requirements under both the Privacy Act, which generally applies to all businesses handling personal information, and the Telecommunications Business Act, which provides protections relating to the secrecy of communication (a constitutional right), they are considered even more stringent and robust than the Ministry of Economy, Trade and Industry guidelines, which solely reflect Privacy Act regulations. Under the MIC's Privacy Act guidelines, information related to persons making or receiving communications, such as their usage history, identity and user location, may only be disclosed to third parties in very limited circumstances, such as pursuant to a search warrant. In addition, the MIC's Privacy Act guidelines were amended on 2 November 2011, allowing telecommunications business providers to provide users' locational information to third parties only if they have the user's consent, a search warrant or other valid justification; and to obtain a user's locational information pursuant to law enforcement agencies' requests only if a warrant is issued. The MIC's Privacy Act guidelines also require telecommunications businesses to establish internal regulations regarding the length of time they may retain communication log records, and to delete this information after the expiry of such period. In June 2015, the MIC again amended the guidelines to set out a suggested length of time during which communication log records may be retained (six months to a year, depending on the business reasons for retaining such information). Further, in April 2017, the MIC amended the guidelines to reflect the amendment of the Privacy Act. The amended guidelines require telecommunications business operators to, among other things, publish privacy policies with respect to their collection and use of privacy information and, in particular, the collection of information through smartphone applications.

Treatment of infringing content

ISPs are not currently required to proactively delete content that infringes upon the intellectual property rights or privacy of others. However, the Internet Provider Liability Limitation Act, enacted in 2001, provides a safe harbour for ISPs that delete such content. Under this safe harbour, no ISP may be held liable for the deletion of content on its network if the ISP reasonably believes that such content infringes the intellectual property rights or privacy of others, or a third party alleges such infringement and the sender of the content does not respond to the ISP's inquiry within seven days. ISPs are further protected by the Internet Provider Liability Limitation Act, which shields ISPs from tortious liability for failing to delete infringing content. In reliance on this statutory defence to liability, ISPs generally do not take steps to monitor the content passing through their networks. The Act does, however, authorise persons whose rights are infringed by content delivered over the internet to demand information regarding the sender of the content from ISPs so that legal action may be taken against the sender. However, as a practical matter, it is often not possible to identify the original sender of such infringing content where content passes through multiple networks.

Protection of minors

A statute for the protection of minors from harmful internet content, known as the Youth Internet Environment Act, became effective in April 2009. The statute directs governmental bodies to improve internet safety for juveniles (under the age of 18) by encouraging ISPs to use technologies that limit juvenile access to harmful content. The statute targets content glorifying crime or suicide, obscene sexual content, and other depictions of extreme violence or cruelty. The statute further exhorts parents to monitor their children's internet use, and to limit access to inappropriate content by using filtering software and other measures.

The statute requires mobile network service providers to filter internet content for customers that are juveniles, except where a parent has expressly requested that filtering not be used. Under the Act, commencing in April 2010, manufacturers of devices with internet connectivity (other than mobile phones) became required to pre-install filtering software or otherwise facilitate the use of third-party filtering software or services. Initially, the Act did not impose any filtering-related requirement on mobile phone use outside the mobile network (e.g., on Wi-Fi) partly because only 1.5 per cent of juveniles owned smartphones in 2010. However, as of 2015, 53.3 per cent of juveniles owned smartphones, and only 45.2 per cent of those juvenile smartphone users utilised filtering software. This means that a large population of juveniles could have been exposed, or at least had access, to inappropriate content in an unfiltered manner. In June 2017, the Act was amended to include smartphones within the scope of mobile network service providers' obligations to filter internet content and manufacturers' obligations to pre-install filtering software. The amended Act also requires mobile network service providers (i.e., MNOs and MVNOs) to confirm whether each new subscriber is a juvenile, and if so, to explain filtering to such juvenile and activate filtering. The amended Act will become effective by June 2018, and it is yet to be determined how the new requirements will affect juvenile smartphone usage.

Cybercrime

In Japan, cybercrime has long been an area of public concern. In recent years, law enforcement has focused its efforts on combating cybercrime related to computer hacking through the unauthorised use of IDs and passwords, and other attacks on security holes; the distribution of computer viruses, and the input of data and unauthorised commands that can cause damage to computers and data; and other types of crimes facilitated through the internet, such as drug trafficking, prostitution, fraudulent internet auctions and child pornography.

Combating the distribution of child pornography has been an area of particular scrutiny and public interest. The Act on Punishment of Activities Relating to Child Prostitution and Child Pornography and the Protection of Children, originally passed in 1999, prohibits the distribution of child pornography. This Act was amended in 2004 to outlaw the uploading and distribution of child pornography over the internet, and was further amended in 2014 to criminalise the simple possession of pornographic images featuring minors and to require ISPs to block such pornographic material.

To combat increasing cybersecurity threats, the Basic Act on Cybersecurity was enacted in November 2014. The Act prescribes the concept of cybersecurity and defines the roles and responsibilities of the government. In January 2015, the Cybersecurity Strategic Headquarters (Headquarters) and National Center of Incident Readiness and Strategy for Cybersecurity were established to facilitate programme planning, policy formulation and overall coordination for cross-cutting cybersecurity measures. In July 2017, the Headquarters

issued a policy statement on cybersecurity focusing on 2020 and beyond, which lists the actions the government intends on taking, including the formation of a cybersecurity incident response team for the 2020 Olympic Games.

With respect to government authorities' ability to monitor the content of telecommunications, law enforcement authorities were previously only permitted to utilise wiretapping during criminal investigations of organised crime for murder, drug-related crimes, arms possession or stowaway smuggling by obtaining a wiretap warrant pursuant to the Act for Wiretapping for Criminal Investigation (Wiretapping Law). However, in April 2016, the Wiretapping Law was amended to permit wiretapping to be used in criminal investigations underlying a broader scope of organised crimes, including those involving the use of explosive materials, kidnapping, fraud, theft and child pornography.

IV SPECTRUM POLICY

i Development

The need for access to the radio spectrum has steadily increased with the proliferation of new technologies utilising wireless data transmission. The number of licensed wireless stations and devices increased from 3.8 million in 1985 (a majority of which were attributable to amateur radio stations and handheld two-way radios), to 224 million as of September 2017 (99 per cent of which were attributable to mobile devices).

The MIC holds broad discretion to determine how the radio spectrum is allocated in Japan and describes its decision-making process as open and collaborative – including consultations with the public, scholars and industry experts. However, the MIC's decision-making has been criticised by some as arbitrary and opaque. This has led to some calls for the implementation of spectrum auctions as a fairer method of allocation. Despite such criticism, the MIC has yet to establish a system that provides transparency over spectrum policy and spectrum allocation decisions. While there was some movement toward implementing a spectrum auction system, and a bill that would have implemented such system was submitted to the legislature in March 2012, the bill lost momentum following a December 2012 change in the controlling political party in Japan, and the bill has since been rejected.

Many critics point to the MIC's issuance, in December 2014, of 3.5GHz 120MHz bandwidth spectrum licences to each of NTT DOCOMO, KDDI and SoftBank as prime examples of its discretionary authority when allocating spectrum. This was the first spectrum allocation since the MIC amended its policy restricting submissions of multiple licence applications from companies that operate their spectrum as a 'group'. Prior to the amendment, companies that held more than one-third of the voting rights of another company were restricted from submitting licence applications together with such affiliate companies. However, to reduce multiple applications by *de facto* group companies and facilitate greater entry into the spectrum market, the MIC expanded this restriction on multiple licence applications by group companies to take into consideration additional factors in determining what companies constitute a group, including their non-voting capital structures, decision-making authority and the business relationships between companies. Due to this amended restriction, YMobile, a company in which SoftBank held an ownership stake but which had not previously been considered a SoftBank group company, was now considered a member of SoftBank's group and unable to submit a spectrum allocation application, which resulted in applications being accepted from NTT DOCOMO, KDDI and SoftBank only.

As the MIC planned to allocate 40MHz of the 120MHz available to each of the three applicants, it was always clear that each would receive an equal allocation. However, there was some competition in the individual allocations across the available 120MHz in which the MIC exercised discretion. The 120MHz bank is divided into 'high' 'medium' and 'low' components. While NTT DOCOMO's first choice was the 'low' component, both KDDI and SoftBank preferred the 'high' component. The MIC determined that it would grant Softbank the 'high' component because KDDI failed to specify in its application when they would be able to start operation of speeds of more than 1Gbit/per second.

ii Flexible spectrum use

Originally, the Radio Act required the MIC to grant bandwidth licences that specified the specific purpose for which the bandwidth could be used. This inflexibility was criticised as an obstacle to the efficient use of bandwidth. The Radio Act was amended in 2010 to facilitate the flexible use of spectrum and allowed the MIC to grant licences covering multiple uses. For example, a terminal on a train can now be licensed for transmission of data for operation of the train (use for operation of public services) and voice data over a pay phone equipped in the train (use for telecommunication). As of 2016, the MIC had granted 1,500 licences permitting multiple uses, and the MIC expects that the number of such licenses will continue to increase.

iii Broadband and next-generation mobile spectrum use

The MIC annually reviews spectrum usage and revises a spectrum allocation plan to reflect spectrum needs for new technologies and services.

By 2015, LTE networks operated by NTT DOCOMO, KDDI and SoftBank achieved 99 per cent coverage of the national population. LTE is technically categorised as 3.9G, even though the International Telecommunication Union permitted to commercially call it 4G. In March 2015, the first among the major Japanese mobile phone companies, NTT DOCOMO, launched its LTE-advanced next-generation mobile communication service called PREMIUM 4G, which uses carrier aggregation technology and is technically categorised as 4G. PREMIUM 4G's maximum transmission speed reached 788Mb per second in limited areas. KDDI (au) and Softbank, the other major mobile phone companies in Japan, have also begun implementing the same service.

NTT DOCOMO, KDDI and SoftBank each plan on launching the next generation mobile communication service 5G, which will enable data transmission speeds of up to 10Gb per second, sometime in 2020. Both NTT DOCOMO and KDDI started field testing 5G technologies in May 2017. The MIC similarly started its study for 5G spectrum allocation in October 2016, taking world trends into consideration.

To address the growing spectrum needs for broadband services, the MIC announced its policy to promote the development of technologies using higher frequencies (over 20GHz), particularly for non-mobile use of bandwidth, and to reallocate bandwidth currently used for non-mobile purposes to mobile equipment. In addition, in September 2017, the Cabinet's council for the relaxation of regulations suggested the reallocation of bandwidth that has been allotted to, and has not been efficiently used by, public organisations to private companies to implement 5G and other new technologies. The council raised ideas to facilitate such reallocation, such as imposing higher spectrum fees on public organisations and setting a quota for the amount of bandwidth to be reallocated to private companies.

The MIC monitors the development of new technologies and their need for spectrum. For example, the MIC has facilitated the development of intelligent transport systems through its spectrum policy by allocating appropriate bandwidth among each of vehicle information and communication systems, electronic toll collection systems and car-mounted radars. The MIC also formed a study group to promote the development of connected cars.

Additionally, in February 2017, the MIC announced a draft of a spectrum allocation plan to accommodate radio devices to be brought into Japan in connection with the 2020 Olympic Games, including wireless microphones, transceivers, wireless cameras and wireless measurement equipment.

iv Spectrum auctions and fees

The MIC imposes spectrum usage fees on broadcasters, mobile phone carriers and other businesses that use radio spectrum, as provided for in the Radio Act. The formulae used to establish the usage fees have been criticised as unfairly favouring broadcasters at the expense of mobile service providers. Until 2005, fees were determined, in the case of broadcasters, on a per-broadcaster basis, and in the case of mobile phone carriers, by the number of base stations and mobile devices connected to the respective network. Notwithstanding a series of changes in 2005, 2011 and 2014, the formulae continued to favour broadcasters, satellite operators and other 'vested' rights holders. No changes have been made to the usage fee formulae even after a further change in 2017 involving the formation of the Council of Spectrum Policy 2020, which discussed potential changes to the usage fee formulae but eventually concluded that no change should be made. The total amount of spectrum fees the MIC imposed for the fiscal year ending March 2015 was approximately ¥74.7 billion (up from ¥68 billion in 2010), 74 per cent of which was paid by mobile phone carriers and only 8.9 per cent of which was paid by broadcasters, which has raised concerns since the bandwidth of spectrum occupied by mobile phone carriers is actually narrower than that occupied by broadcasters.

While spectrum fees are purportedly charged to cover spectrum administration costs, such as monitoring illegal spectrum use, the MIC has been criticised for using the fees to pay for 'miscellaneous' expenses that appear to have little connection to spectrum administration. In August 2010, a MIC committee charged with exploring spectrum usage fee reform announced a policy to strengthen the link between the amount of spectrum usage fees charged to licence holders and the bandwidth of spectrum they occupy, and to more efficiently use the spectrum usage fees collected. In May 2011, a bill to amend the Radio Act to implement the revised spectrum usage fee scheme was passed.

An action plan published in November 2010 by the MIC committee charged with studying spectrum allocation recommended that the MIC consider the introduction of spectrum auctions as a way to allocate spectrum licences more efficiently and transparently. However, the plan also warned that the transition would raise questions of fairness between existing licensees who did not pay for their licences at auction, and future licensees who would bear this additional auction-related cost. The committee also raised related concerns that the cost of auction fees could ultimately be passed along to consumers by way of increased service fees.

From March 2011 to December 2011, the MIC held 15 meetings led by scholars for the purpose of considering the implementation of spectrum auctions, and in March 2012 a bill was submitted to amend the Radio Act to include spectrum auctions. The amended Act would have established a mechanism through which the MIC could conduct auctions to grant licences to applicants offering the highest bid price. The spectrum auction was

envisaged to be first used for the licensing of the 3.5GHz band, which was planned to be used for 4G mobile phones starting in 2014. However, discussions regarding the bill were put on hold in anticipation of a change in the controlling political party from the Democratic Party of Japan (DPJ) to the Liberal Democratic Party (LDP), which took place in December 2012. In January 2013, the Minister of Internal Affairs and Communications under LDP Prime Minister Abe announced that the LDP government would not resubmit the bill for spectrum auctions. The DPJ subsequently resubmitted the bill, but it was voted down. However, the DPJ was able to obtain the LDP's consent to adopt a non-binding resolution by a committee of the legislature acknowledging that spectrum auctions have benefits and detriments and should be reviewed through public hearings. Efforts to implement spectrum auctions as a method to provide greater transparency into the MIC's spectrum allocation process have effectively returned to square one.

V MEDIA

i Restrictions on the provision of service

While freedom of broadcasting is an underlying premise of the Broadcast Act, the Act includes certain content requirements, including:

- a* an obligation to be politically impartial;
- b* a prohibition on reporting 'manipulated facts';
- c* an obligation to present diverse opinions on controversial issues; and
- d* an obligation to provide closed captioning, audio commentary or other forms of aid for the hearing-impaired and visually-impaired where possible.

Main broadcasting licence holders are also required to provide a balance of entertainment, news and educational programming.

ii Internet-delivered video content

The internet and dedicated networks are widely used to deliver video content. Internet television services available in Japan vary widely, from simultaneous transmission of terrestrial and satellite television broadcasts, to exclusive IPTV channels with programming provided by domestic and foreign third-party programme providers, to VOD services. The methods of video delivery vary from free video-sharing sites (such as YouTube), to membership-based video-sharing sites (such as Nikoniko Douga), to partially fee-based video delivery sites (such as Gya!) and to full fee-based video delivery sites (such as Hulu and Netflix). Many traditional television stations (i.e., Nippon Hoso Kyokai (NHK), a public broadcaster formed under the Broadcasting Act and commercial television broadcasters) also offer VOD services, and are streaming broadcast programmes through personal computers and smartphones. A survey publicised in November 2016 indicated that there were 11.6 million fee-based video delivery service users in 2016, and the number was expected to increase to 17.3 million by 2019.

The Supreme Court has ruled that services that record and forward Japanese television programmes and those that provide real-time streaming of Japanese TV programmes via the internet breach the originating television station's copyright. Therefore, third-party recording or streaming of Japanese television programmes without a licence constitutes a breach of Japanese copyright law.

For regulatory purposes, the MIC has taken the view that video delivery over the internet is not a 'broadcast' under the Broadcast Act and, consequently, the content restrictions

under the Act discussed in Section V.i do not apply. While the term ‘broadcast’ is defined in the Broadcast Act as the ‘transmission of telecommunication for the purpose of being directly received by the public’, the MIC’s position is that video delivery over the internet does not fall within this definition because content is not transmitted until a specific user makes a corresponding request, such that the broadcast is not being made to the public. This interpretation allows internet content providers to distribute multimedia offerings without being regulated as traditional broadcasters. However, the MIC’s technical distinction has been criticised as resting on shaky ground, and calls have been made for clearer legislation clarifying that content restrictions will not apply to internet broadcasts.

VI THE YEAR IN REVIEW AND OUTLOOK

Throughout 2016 and early 2017, Japan has continued to show its commitment to further improving its telecommunications infrastructure and developing new telecommunications and media technologies to be implemented in future years.

Looking ahead, the MIC is targeting the implementation of infrastructure to broadcast the 2020 Tokyo Olympic Games in 4K and 8K ultra-high-definition formats. In furtherance of this goal, the MIC in January 2017 granted broadcasting licences covering 4K broadcasting via broadcasting and communication satellites located over 110 east longitude to NHK and 10 commercial television broadcasters. At the same time, the MIC also granted broadcasting licences for 8K broadcasting to NHK. 4K and 8K broadcasting are scheduled to launch on 1 December 2018.

In addition to its ongoing objective of expanding access to free public Wi-Fi, the MIC has also announced its vision to have 5G mobile technology in place ahead of all other countries in anticipation of the 2020 Tokyo Olympic Games. The public and private telecommunications sectors in Japan are working together as an ‘All Japan’ platform to achieve this lofty goal, and major telecommunications providers are already actively field testing 5G technology.

The development of media and telecommunications policy and technology in Japan has seen a resurgence over the past year, and further significant progress is likely in the near future.

ABOUT THE AUTHORS

HIROKI KOBAYASHI

Latham & Watkins Gaikokuho Joint Enterprise

Hiroki Kobayashi is a corporate partner of Latham & Watkins Gaikokuho Joint Enterprise in Tokyo. He advises on Japanese legal issues relating to a variety of areas of transactional practice, including corporate law and various government regulatory matters. He handles cross-border M&A matters in collaboration with Latham & Watkins attorneys in other offices, and counsels clients on M&A transactions conducted under different business practices. His experience includes an acquisition by Turner Broadcasting System, Inc through its Japanese subsidiary Japan Entertainment Network KK of Japan Image Communications Co, Ltd, a licensed operator of multiple TV channels, and a sale by Liberty Global of its US subsidiaries holding shares in Jupiter Telecommunications, Japan's largest cable television operator, to KDDI. Mr Kobayashi has spoken on the topic of privacy in cyberspace at a meeting of an academic society of computer scientists. Mr Kobayashi is admitted to practise in Japan and New York and is a member of the Dai-ichi Tokyo Bar Association and the New York State Bar Association. He is a native speaker of Japanese and fluent in English.

DAVID LAI

Latham & Watkins Gaikokuho Joint Enterprise

David Lai is a corporate associate of Latham & Watkins Gaikokuho Joint Enterprise in Tokyo. Mr Lai's practice covers a broad range of corporate transactions, including cross-border mergers and acquisitions, joint ventures and strategic alliances, and general corporate counselling. His representative experience in the telecommunications industry includes counselling Qualcomm Incorporated in connection with its RFFE module joint venture with TDK Corporation and representing Telnes Broadband LLC, an internet and managed services provider, in its acquisition by GTT Communications, Inc. Prior to joining Latham & Watkins, Mr Lai served as an associate in the corporate department of a major international law firm in Seattle, Washington. Mr Lai is admitted to practise in the states of New York and Washington.

LATHAM & WATKINS LLP

Latham & Watkins Gaikokuho Joint Enterprise

Marunouchi Building, 32nd Floor

2-4-1 Marunouchi, Chiyoda-ku

Tokyo 100-6332

Japan

Tel: +81 3 6212 7800

Fax: +81 3 6212 7801

hiroki.kobayashi@lw.com

www.lw.com



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