INTERNATIONAL TRADE LAW IMPLICATIONS OF AUSTRALIA'S NATIONAL BROADBAND NETWORK*

Tania Voon[†] and Andrew Mitchell[‡]

[Australia's National Broadband Network has come under intense domestic scrutiny and is also being closely monitored by international stakeholders. However, the focus on local political and legal issues obscures a broader potential problem: ensuring compliance with Australia's obligations under the World Trade Organization agreements and bilateral trade arrangements. In an attempt to reveal the nuances of international trade law and its relationship to the government's plans, this article highlights several areas of possible complication, including the creation of NBN Co as a government business enterprise, the identification of points of interconnection to NBN Co's network, and the policy goal of achieving uniform national wholesale pricing for NBN Co's services. International trade law deserves greater consideration and transparency in the implementation of Australia's National Broadband Network, which may also offer lessons for other countries pursuing analogous projects.]

I	INT	RODUCTION	2
II	NBN	N CO AS A GOVERNMENT BUSINESS ENTERPRISE	8
Ш	THE	NBN OFFERING: WHOLESALE LAYER 2 BITSTREAM SERVICES	12
IV	INT	ERCONNECTION TO THE NBN	16
	A B C D	POLICY DEBATE AND NBN CO'S ORIGINAL PROPOSAL NBN CO'S REVISED PROPOSAL AND ITS RECEPTION POTENTIAL FOR A DOMESTIC CLAIM ON INTERCONNECTION ACCC RECOMMENDATION AND NBN CO'S FINAL PROPOSAL AUSTRALIA'S INTERCONNECTION OBLIGATIONS REGARDING NBN CO. 1 Reference Paper Section 2.1: Applicability of the Interconnection Obligations 2 Reference Paper Section 2.2: Ensuring Interconnection	19 21 22 24 24
v	DEF	3 Modifications to the Pol List, the New Zealand Experience and Reference Paper Section FINING UNIVERSAL SERVICE AND CLASSIFYING BROADBAND	5 31
	A B C	REFERENCE PAPER SECTION 3: RIGHT TO MAINTAIN UNIVERSAL SERVICE OBLIGATION. SCOPE OF UNIVERSAL SERVICE AND RELATED CLASSIFICATION DIFFICULTIES. THE UNITED STATES EXPERIENCE: CHARACTERISING BROADBAND.	34
VI	ACHIEVING A NATIONWIDE NETWORK THROUGH NBN		
	A B	Uniform National Wholesale Pricing	39
VII	EXC	EPTIONS TO GATS OBLIGATIONS	41
VIII	CON	NCLUSION	42

This project was generously supported by a Research Collaboration Grant from the University of Melbourne. We are also grateful to Arlen Duke, Martyn Taylor and Irene Wu for valuable comments on earlier drafts, and to Rudi Kruse and Christopher Tran for helpful research assistance. Thanks also to the able staff of the Law Research Service of Melbourne Law School, the three anonymous referees arranged by the *Melbourne University Law Review*, and others who assisted us in general background discussions. Finally, we thank the organisers of and participants in the *Biennial Conference of the International Economic Law Interest Group of the American Society of International Law* (University of Minnesota, 19 November 2010) and the *International Conference of the Centre for Media & Communications Law* (Melbourne Law School, 26 November 2010), at which preliminary results of the research reflected in this article were first presented. All opinions expressed here and any errors are ours.

[†] Associate Professor, Melbourne Law School. Email tania.voon@unimelb.edu.au.

^{*} Associate Professor, Melbourne Law School. Email <u>a.mitchell@unimelb.edu.au</u>.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

I INTRODUCTION

On 7 April 2009, Australia's federal government announced plans to establish a company to build and operate a National Broadband Network ('NBN') to deliver superfast broadband services to homes and businesses across Australia. The government would be the majority shareholder of the company (investing up to \$43 billion over eight years), joining with private investors and ultimately selling down its interest five years after the NBN is operational.¹ The declared objectives of the NBN included increasing competition and investment, improving communication speed and quality for businesses and rural Australians in particular, and raising Australia's international ranking with respect to telecommunications indicators such as broadband take-up, accessibility of digital content, and competition in the Internet Service Provider ('ISP') sector.² However, the truth and validity of these objectives has been queried from several quarters, particularly in view of the enormous expense involved,³ and even more so following the devastating floods in Queensland in late 2010 that have imposed substantial recovery costs on the country.⁴

In announcing the NBN, then Prime Minister Kevin Rudd went so far as to describe Australia as a 'broadband backwater' on the basis of its allegedly low speeds and high costs compared to many other countries of the Organisation for Economic Co-Operation and Development ('OECD'). Against this background, according to the Australian Competition and Consumer Commission ('ACCC'), the proposed NBN offered:

the potential to start a new wave of infrastructure investment, technological change and product innovation in the telecommunications sector. Its announcement ushers in arguably

Joint Media Release of the Prime Minister, Treasurer, Minister for Finance and Minister for Broadband, Communications and the Digital Economy, 'New National Broadband Network' (Canberra, 7 April 2009). The more recent funding requirement estimate is \$40.9 billion (\$27.5 billion of government equity and \$13.4 billion of debt funding): NBN Co, Corporate Plan 2011-2013 (17 December 2010) 23.

² Australian Government, *National Broadband Network Policy Brochure: 21st Century Broadband* (Canberra, 2009).

See, eg, Kenneth Davidson, 'Wires crossed in quest for a new broadband network' (13 September 2010) The Age; Paul Fletcher, 'Passage of NBN bill signals a dark day for telecom competition' (1 December 2010) The Australian.

⁴ See, eg, Alexandra Kirk, 'PM flags levy to pay for flood recovery' (21 January 2011) ABC News.

Joint Media Release of the Prime Minister, Treasurer, Minister for Finance and Minister for Broadband, Communications and the Digital Economy, 'New National Broadband Network' (Canberra, 7 April 2009); 'Australia announces 30 billion dlr broadband plan' (7 April 2009) *Sydney Morning Herald*.

See, eg, Australian Government, National Broadband Network Policy Brochure: 21st Century Broadband (Canberra, 2009) 1-2. See also Parliament of the Commonwealth of Australia, House of Representatives, Telecommunications Legislation Amendment (Competition and Consumer Safeguards) Bill 2010 – Explanatory Memorandum (2010) 24-25; Media Release of the Minister for Broadband, Communications and the Digital Economy, 'Australians still pay too much for broadband' (Canberra, 14 April 2011).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

the most important policy initiative in the telecommunications sector in both metropolitan and regional Australia since competition began in the industry more than a decade ago.⁷

But these characterisations of Australia's current telecommunications market and the potential of the NBN must be seen in their highly politicised context. Perhaps a more accurate indication of the NBN must be seen in their highly politicised context. Perhaps a more accurate indication of the NBN as 'a major nation-building project that will support 25,000 jobs every year, on average, over the life of the project'. In terms of fixed-line broadband speeds, prices and take-up, Australia is in the middle of the OECD pack according to the OECD's own statistics. For mobile broadband (which to some extent 'can be regarded as a complementary or substitute technology for wired broadband'), Australia ranks equal third among OECD countries in terms of 3G population coverage, and Telstra is set to launch a 4G mobile broadband network later in 2011. Although prices are relatively high on high usage mobile broadband plans, they are relatively low on lower usage plans, and as prices fall speeds are increasing through technology upgrades. Indeed, a government-commissioned report by Greenhill Caliburn found 'competition from alternative technologies' a key risk in the business case for NBN Co Limited ('NBN Co'), indicating that '[t]rends towards "mobile centric" broadband networks could ... have significant long-term implications for NBN Co's fibre offerings,

ACCC, Annual Report 2008–09 (September 2009) 8.

See, eg, Mahesh Sharma, 'NBN a pie in the sky: Morgan' (20 August 2010) Computer World.

Joint Media Release of the Prime Minister, Treasurer, Minister for Finance and Minister for Broadband, Communications and the Digital Economy, 'New National Broadband Network' (Canberra, 7 April 2009).

OECD, OECD Economic Surveys: Australia (November 2010) 93; OECD, OECD Communications Outlook 2009 (2009) 108; OECD Broadband Statistics: Fixed (wired) broadband subscriptions per 100 inhabitants, available at http://www.oecd.org/document/0,3746,en_2649_201185_46462759_1_1_1_1,00.html (updated to June 2010).

OECD, Working Party on Communication Infrastructures and Services Policy: Indicators of Broadband Coverage, DSTI/ICCP/CISP(2009)3/FINAL (10 December 2009) 29-31. See also OECD Broadband Statistics: 3G Population Coverage, available at oecd.org/sti/ict/broadband (updated to June 2010); Australian Bureau of Statistics, Internet Activity, Australia, June 2010 (8153.0, released 20 September 2010), available at http://abs.gov.au/AUSSTATS/abs@.nsf/Lookup/8153.0Main+Features1Jun%202010 ?OpenDocument>; Australian Communications and Media Authority ('ACMA'), Mobile network broadband (December 2010) 16-18.

Telstra, 'Telstra to launch 4G mobile broadband network by end 2011', Media Release (15 February 2011)

OECD, OECD Communications Outlook 2009 (2009) 286; OECD, Working Party on Communication Infrastructures and Services Policy, Mobile Broadband: Pricing and Services, DSTI/ICCP/CISP(2008)6/FINAL (30 June 2009) 14.

OECD, Working Party on Communication Infrastructures and Services Policy, *Mobile Broadband: Pricing and Services*, DSTI/ICCP/CISP(2008)6/FINAL (30 June 2009) 13, 18-19. Cf OECD, *OECD Broadband Statistics: Range of Prices for a Monthly Subscription*, available at http://www.oecd.org/document/54/0,3343,en_2649_34225_38690102_1_1_1_1_00.html (updated to September 2010).

¹⁵ ACMA, Mobile network broadband (December 2010) 7-8, 12-13.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

to the extent that some consumers may be willing to sacrifice higher speed fibre transmissions for the convenience of mobile platforms'. ¹⁶

In any case, NBN Co was incorporated in April 2009, with a subsidiary NBN Tasmania Limited established in July 2009 to roll out the NBN in Tasmania. ¹⁷ NBN Co is a wholly-owned Commonwealth company that has been prescribed as a Government Business Enterprise. ¹⁸

After unseating Kevin Rudd in June 2010, Labor Prime Minister Julia Gillard went on to announce an expansion of the NBN proposal. 93% of Australian premises are to have access to NBN Co's fibre network, allowing speeds of 100 Megabits per second ('Mbps'), with the remaining 7% accessing speeds of up to 12 Mbps through next generation satellite and wireless technology. This article focuses on NBN Co's fibre to the premises ('FTTP') network applicable to 93% of the country. With the eventual return of Julia Gillard and the Australian Labor Party to power following the 2010 federal election, its plan for the NBN has been retained, albeit in a modified form pursuant to a deal with independents Tony Windsor and Rob Oakeshott, which promises priority for regional areas and uniform national wholesale pricing. ²⁰

The actual operation of the NBN will nevertheless depend on a number of contingencies, ²¹ including the passage and implementation of legislation, ²² relevant approvals by the ACCC, ²³ and

¹⁶ Greenhill Caliburn, Review of NBN Co Limited's Corporate Plan – Executive Summary (February 2011) 4.

NBN Co, Annual Report 2008-09 (January 2010) 2; NBN Co, Corporate Plan 2011-2013 (17 December 2010) 53. See also Mitchell Bingemann and Annabel Hepworth, 'Wireless no risk to NBN: PM', The Australian (16 February 2011).

¹⁸ Commonwealth Authorities and Companies Regulations 1997 (Cth) reg 4; Commonwealth Authorities and Companies Act 1997 (Cth) s 5; NBN Co, Corporate Plan 2011-2013 (17 December 2010) 53.

Joint Media Release of the Prime Minister and Minister for Broadband, Communications and the Digital Economy, 'NBN: Fibre for Over 1,000 Australian Cities and Towns' (Canberra, 30 July 2010). The initial proposal was for 90% rather than 93% fibre access: Joint Media Release of the Prime Minister, Treasurer, Minister for Finance and Minister for Broadband, Communications and the Digital Economy, 'New National Broadband Network' (Canberra, 7 April 2009). The government has confirmed the wireless technology will be 'next-generation fixed wireless': Letter from Senator Penny Wong, Minister for Finance and Deregulation, and Senator Stephen Conroy, Minister for Broadband, Communications and the Digital Economy, to Harrison Young, NBN Co Chairman, 'Statement of Expectations' (17 December 2010) 1, 3.

Joint Press Conference of the Prime Minister and Treasurer (7 September 2010), available at http://www.alp.org.au/federal-government/news/transcript--julia-gillard---wayne-swan,--joint-pre/; Nicola Berkovic and Mitchell Bingemann, 'Broadband network convinced independents to back Labor' *The Australian* (8 September 2010). See also Kevin Morgan, 'Deal turns NBN into shameless pork barrel' (10 September 2010) *The Australian*; See also Parliament of the Commonwealth of Australia, The Senate, National Broadband Network Companies Bill 2010, Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2011 – Revised Explanatory Memorandum (2011) 49.

See generally Greenhill Caliburn, *Review of NBN Co Limited's Corporate Plan – Executive Summary* (February 2011).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

implementation of definitive agreements between Telstra (the privatised incumbent) and NBN Co.²⁴ Telstra and NBN Co concluded a non-binding heads of agreement in June 2010.²⁵ Although progress in reaching a subsequent binding agreement was steady,²⁶ the initial plan of submitting a final agreement to shareholders for approval by the end of 2010 was revised to an end date of mid-2011²⁷ and then to some time later in 2011.²⁸ Finally, on 23 June 2011, Telstra and NBN Co signed definitive agreements, which are now expected to be submitted to shareholders for approval in October 2011.²⁹

As the various stakeholders work through the final remaining details, this article reflects on the implications of the NBN for international trade law. In particular, the article assesses several issues that may arise in assessing the consistency of the NBN with the *General Agreement on Trade in Services* ('GATS')³⁰ of the World Trade Organization ('WTO'), while also taking into account the telecommunications-specific obligations found in most of Australia's preferential trade agreements ('PTAs').³¹ Given that the final details of NBN Co's role and operations are not

- At the time of writing, key relevant legislation has passed. For example, the *Telecommunications Legislation Amendment (Competition and Consumer Safeguards) Act 2010* (Cth) passed the House of Representatives on 16 November 2010 and the Senate on 26 November 2010 (royal assent 15 December 2010); the *Telecommunications Legislation Amendment (National Broadband Network Measures Access Arrangements) Act 2011* (Cth) and the *National Broadband Network Companies Act 2011* (Cth) passed the House of Representatives on 1 March 2011, the Senate on 25 March 2011 (with amendments), and the House of Representatives again (as amended) on 28 March 2011 (royal assent 12 April 2011). Some relevant legislation remains to be enacted (eg Telecommunications Legislation Amendment (Fibre Deployment) Bill 2011 (Cth)).
- See, eg, *Telecommunications Act 1997* (Cth) (as amended by *Telecommunications Legislation Amendment (Competition and Consumer Safeguards) Act 2010* (Cth)), s 577BDC.
- Telstra Investor Update (29 September 2010) 28, attached to letter from Carmel Mulhern, Company Secretary, Telstra, to Manager, Company Announcements Office, Australian Securities Exchange, 30 September 2010.
- Telstra letter to shareholders (21 June 2010), attached to letter from Carmel Mulhern, Company Secretary, Telstra, to Manager, Company Announcements Office, Australian Securities Exchange, 21 June 2010; NBN Co, *Annual Report 2009-10* (October 2010) 10, 23.
- Telstra, 'Telstra reports encouraging sales momentum, confirms guidance, maintains dividend, reaches NBN milestone', Media Release (10 February 2011).
- ²⁷ Telstra letter to shareholders (22 December 2010) 2.
- ²⁸ 'Telstra NBN build vote to be delayed', *Sydney Morning Herald* (18 March 2011); Philip Wen, 'Setback for NBN as delays hit Telstra deal', *The Age* (19 March 2011).
- Telstra letter to shareholders (23 June 2011); NBN Co, 'NBN Co and Telstra Sign Binding Definitive Agreements', Media Release (23 June 2011).
- Marrakesh Agreement Establishing the World Trade Organization, opened for signature 15 April 1994, 1867 UNTS 3 (entered into force 1 January 1995) annex 1B ('General Agreement on Trade in Services').
- Singapore Australia Free Trade Agreement (17 February 2003) [2003] ATS 16 ('SAFTA'); Australia United States Free Trade Agreement (18 May 2004) [2005] ATS 1 ('AUSFTA'); Thailand Australia Free Trade Agreement (5 July 2004) [2005] ATS 2 ('TAFTA'); Chile Australia Free Trade Agreement (30 July 2008) [2009] ATS 6 ('CAFTA'); Agreement Establishing the ASEAN Australia New Zealand Free Trade Area (27 February 2009) [2010] ATS 1 ('AANZFTA'). No telecommunications-specific obligations appear

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

entirely determined at the time of writing, the article aims to raise areas of potential difficulty rather than to draw definitive conclusions about Australia's likely compliance with its obligations under international trade law. As one of the most ambitious schemes to date to bring high speed broadband services to a nation through public investment,³² the NBN may provide lessons for countries around the world in reconciling regulatory approaches to telecommunications services with international trade law. The article thus briefly considers related challenges currently being faced in New Zealand and the United States.

On 21 October 2010, in response to a government request, the ACCC released a discussion paper on the points at which access seekers will be able to interconnect with the NBN,³³ together with a public position paper by NBN Co on the same issue.³⁴ In this context, the ACCC highlighted the balance required between minimising barriers to entry for retail service providers and enabling facilities-based competition at higher levels. These issues of domestic competition have parallels in international trade law. However, neither the ACCC nor NBN Co has commented publicly on the relationship between the NBN and international trade law, despite Telstra raising this issue in relation to interconnection.³⁵

It is worth noting at the outset that Australia has incorporated into its GATS Schedule the Reference Paper, a document containing additional obligations regarding telecommunications services that a number of WTO Members incorporated in their GATS Schedules from 1998, thus accepting these additional obligations. ³⁶ Moreover, the only limitations that Australia has imposed on its WTO commitments to provide 'national treatment' and 'market access' in respect

in the Protocol on Trade in Services to the Australia New Zealand Closer Economic Relations Trade Agreement (18 August 1988) [1988] ATS 1988 20 or the Protocol on Investment to the Australia – New Zealand Closer Economic Relations Trade Agreement (16 February 2011). See Tania Voon and Andrew Mitchell, 'Achieving a Common Market for Telecommunications Services in Australia and New Zealand' (2007) 26 Australian Year Book of International Law 149.

Tim Kelly et al (World Bank), 'What role should governments play in broadband development?', paper presented at the *info*Dev/OECD workshop on *Policy Coherence in ICT for Development* (Paris, 10-11 September 2009) 9.

³³ ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010).

NBN Co, NBN Co Public Position Paper: Proposed NBN Co Points of Interconnect (POIs), Attachment A to ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 26.

Telstra, Response to NBN Co Consultation Paper: Proposed Wholesale Fibre Bitstream products (12 February 2010) [18]-[21], [31]; Telstra, Response to the ACCC Discussion Paper on Points of Interconnect to the National Broadband Network (November 2010) 7-8. See also Michael Cox, Response to ACCC/NBN Co Discussion Paper on National Broadband Network Points of Interconnect (November 2010) 8, 15.

WTO Negotiating Group on Basic Telecommunications, *Reference Paper* (24 April 1996). The Reference Paper is attached to WTO, 'The WTO Negotiations on Basic Telecommunications', Press Release (6 March 1997), <www.wto.org/english/news_e/pres97_e/refpap-e.htm>. It is also reproduced at WTO, World Trade Organization: Agreement on Telecommunications Services (Fourth Protocol to General Agreement on Trade in Services) (1997) 36 ILM 354, 367.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

of services supplied in Australia through 'mode 3' (that is, commercial presence of telecommunications service suppliers of other WTO Members) are of purely historical significance.³⁷ Telecommunications service suppliers of other WTO Members that operate in Australia and could be affected by, and complain to their own governments about, Australia's NBN scheme include Singtel Optus Pty Limited ('Optus') (owned by Singapore Telecommunications of Singapore), AAPT Limited ('AAPT') (owned by Telecom Corporation of New Zealand), and Primus Telecommunications (Australia) Pty Limited ('Primus') (owned by Primus Telecom of the United States).

In part II of this article, we address NBN Co's status as a government business enterprise, concluding that economic and political concerns expressed about this status are not necessarily supported by any violation of international trade law. In part III, we determine that the type and level of service to be provided by NBN Co does not in itself pose international trade law problems either. The issue of the degree and manner of interconnection to NBN Co's network by other suppliers, which we address in part IV, is more complex. Modifications to NBN Co's initial proposal on interconnection, undertaken at the behest of the ACCC, have certainly improved the plan from the perspective of competition, thereby reducing the likelihood of a breach of Australia's international trade law obligations. However, the ability of NBN Co to veto changes proposed by the ACCC to the established list of points of interconnection raises the likelihood of such a breach. Australia will need to tread carefully in implementing and maintaining the legislative provisions on interconnection. Part V of the article highlights terminological difficulties created by the advent of broadband, including how to classify broadband services within the telecommunications lexicon, and whether to include broadband in a government's universal service obligation. Although Australia has chosen so far not to do so, its objective of ensuring universal access to superfast broadband across the country has led it to impose uniform national wholesale pricing on NBN Co's services, along with provisions to level the playing field in which NBN Co competes. We address these two features of the NBN in part VI, concluding that the former poses minimal risk of an international trade law violation, while the latter does create potential conflicts with international trade law. In sum, the NBN poses numerous issues worthy of careful examination under the laws of the WTO and Australia's PTAs; some of these issues could found a valid complaint by Australia's trading partners. Part VII identifies exceptions under GATS that could justify a GATS violation, but none of these exceptions is specifically relevant to the NBN.

WTO Trade in Services, Australia – Schedule of Specific Commitments: Supplement 3, GATS/SC/6/Suppl.3 (11 April 1997) 3-4.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

II NBN Co as a Government Business Enterprise

A recent report by the Berkman Center for Internet & Society at Harvard University—commissioned by the Federal Communications Commission of the United States—described Australia as falling at 'one end of the spectrum' in choosing a government-funded NBN³⁸ to address the 'shared core understanding ... that the transition to next generation infrastructures re-emphasizes the high upfront costs involved in, or natural monopoly, characteristics of, telecommunications networks, and requires some form of shared infrastructure if competition is to be maintained in the teeth of such economies of scale'. (Alternative models include functional separation of a private supplier and 'voluntary shared infrastructure investment'. Australia's chosen approach is emblematic of a 'considerable shift in the thrust of public policy' in a number of countries, which had previously been moving away from a monopoly environment in telecommunications services and towards an increasingly open market based on private sector investment.

A return to a public monopoly may raise some concerns from the perspectives of economics and competition:

[T]he public sector does not have a good record when it comes to operating and maintaining highly technical infrastructures. 42

The most common form of market failure is the persistence of monopoly-type structures in the provision of broadband infrastructure, even when no legal monopoly exists. In many countries, the dominance of incumbent public telecommunications operators arising from their historical monopoly position has been one of the key obstacles to the development of effective competition in the broadband market.⁴³

³⁸ See also Economist Intelligence Unit, *Full speed ahead: The government broadband index Q1 2011* (January 2011) 4.

Berkman Center for Internet & Society at Harvard University, Next Generation Connectivity: A review of broadband Internet transitions and policy from around the world (Final Report, February 2010) 14.

Berkman Center for Internet & Society at Harvard University, *Next Generation Connectivity: A review of broadband Internet transitions and policy from around the world* (Final Report, February 2010) 14.

Johannes Bauer, 'Regulation, public policy, and investment in communications infrastructure' (2010) 34 Telecommunications Policy 65, 66, 72; Jock Given, 'Culture and Information' in Jane Kelsey (ed), No Ordinary Deal: Unmasking the Trans-Pacific Partnership Free Trade Agreement 176, 187.

David James, *Does government have a role in next-generation access?* (16 September 2009) Ovum paper, 3.

Tim Kelly et al (World Bank), 'What role should governments play in broadband development?', paper presented at the *info*Dev/OECD workshop on *Policy Coherence in ICT for Development* (Paris, 10-11 September 2009) 6. See also OECD Working Party on Telecommunication and Information Services Policies, *Universal Service Obligations and Broadband*, DSTI/ICCP/TISP(2002)4/FINAL (22 January 2003) 27.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

The Economist Intelligence Unit recently ranked Australia ninth in its inaugural government broadband index, which assesses which countries have 'the most ambitious speed, coverage and rollout targets, the most appropriate regulations for realising targets and fostering a competitive broadband market, and where public-funding commitments are putting the least amount of pressure on public-sector finances'. As South Korea tops the list, with proposed speeds of 10 times higher than those proposed for Australia's NBN, at a cost to taxpayers of one twenty-fourth of that expected in Australia. The high up-front cost of the NBN to the Australian government is also distinct from what would be expected were a commercial operator to roll out its own FTTP network. In that instance, the process would generally be more piecemeal, allowing the operator to assess progress and adjust plans along the way rather than immediately commencing a countrywide project.

However, is the status of NBN Co as a wholly State-owned enterprise a problem for Australia's WTO obligations? The GATS excludes from its scope 'services supplied in the exercise of governmental authority', meaning services that are 'supplied neither on a commercial basis nor in competition with one or more service suppliers'. As discussed further below, at least initially, NBN Co will not compete with other suppliers in providing wholesale high-speed broadband services over an FTTP network. However, NBN Co could be competing with broadband services currently provided by Telstra (until Telstra's copper network and cable broadband service are decommissioned, as Telstra has agreed to do as part of its \$11 billion deal with NBN Co, which grants Telstra access to the fibre network and provides for the progressive migration of Telstra's voice and data traffic to NBN Co). NBN Co could also be competing with broadband services

_

Economist Intelligence Unit, Full speed ahead: The government broadband index Q1 2011 (January 2011) 9.

⁴⁵ Clancy Yeates, '\$36bn price for NBN slammed', *The Age* (10 February 2011); Economist Intelligence Unit, *Full speed ahead: The government broadband index Q1 2011* (January 2011) 5-9.

See OECD Working Party on Telecommunication and Information Services Policies, Universal Service Obligations and Broadband, DSTI/ICCP/TISP(2002)4/FINAL (22 January 2003) 15.

GATS, art I:3(b), (c). For discussion on the meaning of these provisions, see Rudolf Adlung and Aaditya Mattoo, 'The GATS' in Aaditya Mattoo, Robert Stern and Gianni Zanini (eds), A Handbook of International Trade in Services (Oxford University Press, 2008) 48, 52.

On one view, as a matter of logic or economics, the market must first be defined in order to determine whether a service is supplied in competition with other suppliers. However, commentators in a number of jurisdictions have questioned whether market definition is necessary in all circumstances in which it has traditionally been used pursuant to domestic competition law: see, eg, Louis Kaplow, 'Why (Ever) Define Markets?' (2010) 124 Harvard Law Review 437; Caron Beaton-Wells, 'Mergers without markets? Unilateral effects in the United States and its prospects in Australia' (2006) 34 Australian Business Law Review 186. In any case, below we discuss the definition of the 'relevant market', a term absent from GATS Article I:3(c) but used explicitly in GATS Art XXVIII:h (in defining a 'monopoly supplier of a service') and in the Reference Paper (in defining a 'major supplier'): see part IVD2 and nn 63, 66 and corresponding text. Many of the relevant considerations are the same, whether framed in terms of market definition or assessment of the existence of competition.

See above n 25.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

currently provided by Optus,⁵⁰ again until Optus decommissions its HFC cable as it has agreed with NBN Co to do.⁵¹ On a broader market definition, NBN Co's fixed wholesale broadband offering would be competing with the wholesale broadband offerings of wireless providers. Moreover, NBN Co will arguably be supplying services on a commercial basis, given its stated goal of generating a return on investment above the Government bond rate over the life of the asset,⁵² even if this is not its primary goal.⁵³ This factor removes wholesale services supplied by NBN Co to other telecommunications providers from the description of services supplied in the exercise of governmental authority; it also removes services supplied by NBN Co to the Australian government from the description of government procurement, which is also excluded from the primary GATS obligations.⁵⁴

Accordingly, we consider it likely that NBN Co, once fully operational, will be supplying services that are not excluded *a priori* from the GATS. This leads to the question of what Australia's GATS obligations are in connection with NBN Co as a Government Business Enterprise. The Reference Paper itself does not explicitly prohibit 'monopolies or state-owned operators'; indeed, when the 'Reference Paper was conceived, most basic telecommunications services were provided by legal monopolies or state-owned operators'.⁵⁵

_

See ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 23; NBN Co, Corporate Plan 2011-2013 (17 December 2010) 42-43.

NBN Co, 'NBN Co and Optus Sign Binding Agreement', Media Release (23 June 2011); Joint Media Release of the Treasurer and the Minister for Broadband, Communications and the Digital Economy, 'NBN rollout to benefit from agreement with Optus' (23 June 2011). See also 'Optus connects to NBN', Australian Financial Review (online), 6 October 2010.

NBN Co, Annual Report 2008-09 (January 2010) 6; NBN Co, About NBN Co: FAQs (2010) http://www.nbnco.com.au/wps/wcm/connect/main/site-base/resources/about-nbn-co/faqs. See also NBN Co, 'NBN Co Forecasts 7% Internal Rate of Return', Media Release (20 December 2010); NBN Co, Corporate Plan 2011-2013 (17 December 2010) 23, 25. The expected rate of return of 7.04 per cent is 'well in excess of the current five year government bond rate of 5.38 per cent': Senate Environment and Communications Legislation Committee, National Broadband Network Companies Bill (2010) and Telecommunications Legislation Amendment (National Broadband Network Measures — Access Arrangements) Bill 2010 (16 March 2011) [1.7].

Markus Krajewski, 'Public Services and Trade Liberalization: Mapping the Legal Framework' (2003) 6(2) Journal of International Economic Law 341, 353, 358; Cf Eric Leroux, 'What is a "Service Supplied in the Exercise of Governmental Authority" Under Article I:3(b) and (c) of the General Agreement on Trade in Services?' (2006) 40(3) Journal of World Trade 345, 349-354, 360; Rudolf Adlung, 'Public Services and the GATS' (2006) 9(2) Journal of International Economic Law 455, 462-463.

GATS, art XIII:1: 'Articles II, XVI and XVII shall not apply to laws, regulations or requirements governing the procurement by governmental agencies of services purchased for governmental purposes and not with a view to commercial resale or with a view to use in the *supply of services for commercial sale'* (emphasis added). See Rudolf Adlung, 'Public Services and the GATS' (2006) 9(2) *Journal of International Economic Law* 455, 474.

infoDev/ITU, ICT Regulation Toolkit, section 3.2.1, n 27, available at <www.ictregulationtooklit.org> (last accessed 16 December 2009).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

At first glance, a GATS national treatment problem might nevertheless be perceived to arise from the status of NBN Co as a Government Business Enterprise. That is, Australia might be regarded as failing to treat telecommunications service suppliers of other WTO Members no less favourably than it treats Australian telecommunications service suppliers in accordance with GATS Article XVII:1, because a wholly State-owned business enterprise is necessarily domestic. The Panel in China - Publications and Audiovisual Products found that China violated its national treatment commitments under GATS Article XVII by prohibiting foreign-invested enterprises from wholesaling imported reading materials. 56 The only entities authorised to wholesale one of the two categories of these materials were State-owned,⁵⁷ but the Panel appeared to equate Stateowned enterprises with Chinese enterprises in concluding that the prohibited foreign-invested wholesalers were 'like' the authorized domestic wholesalers.⁵⁸ The difference in the Australian situation with respect to NBN Co is that no formal prohibition prevents other suppliers from establishing their own fibre network: other suppliers are just extremely unlikely to do so in practice,⁵⁹ given the high costs of infrastructure as well as the 'anti-cherry-picking' legislative provisions, as discussed further below. Nevertheless, the potential for a national treatment violation means Australia will need to take care in the way it treats NBN Co in comparison to other existing and potential telecommunications service suppliers. Whether this occurs in any given circumstances will depend on an analysis of the scope of services to which Australia has made specific commitments (in particular, national treatment and market access commitments), 60 as discussed further below.

Assuming that the mere status of NBN Co as a Government Business Enterprise is consistent with Australia's national treatment obligations under the GATS, it might nevertheless create difficulties for Australia in relation to other GATS provisions. GATS Article VIII:4 requires Australia to notify the Council for Trade in Services if it 'grants monopoly rights regarding the supply of a service covered by its specific commitments', ⁶¹ potentially leading to an obligation to make compensatory adjustments on a most-favoured nation basis if other Members' WTO benefits are thereby affected. ⁶² Australia could argue that it is not granting monopoly rights to NBN Co because other suppliers are free to build their own FTTP network should they so choose.

The services to be supplied by NBN Co are covered by Australia's specific commitments, as discussed further below.

Panel Report, China – Publications and Audiovisual Products, [7.981], [7.997]-[7.999], [7.1428]-[7.1429], [8.2.3(a)(i)]-[8.2.3(a)(ii)]. See also Appellate Body Report, China – Publications and Audiovisual Products, [8]. This finding was not appealed.

⁵⁷ Panel Report, China – Publications and Audiovisual Products, [7.962].

Panel Report, China – Publications and Audiovisual Products, [7.976]-[7.992].

See Michael Cosgrove, 'FTTH and the National Broadband Network – Opportunity and Challenges for Competition Regulation' (Paper presented at the FTTH Council Asia Pacific Annual Conference and Exhibition 2009, Melbourne, 19 May 2009) 4.

⁶⁰ GATS part III.

⁶² GATS, arts VIII:4, XXI.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

However, a counterargument exists that NBN Co is a 'monopoly supplier of a service' within the meaning of GATS Article VIII because the government has 'in the relevant market ... authorized or established [NBN Co] formally or *in effect* ... as the sole supplier of' the wholesale services discussed below. ⁶³ Reading Article VIII:4 in the context of Articles VIII:1, VIII:5 and XXVIII(h) may suggest that Australia has in fact granted monopoly rights to NBN Co. Similarly, in endorsing NBN Co as the sole supplier (in practice) of certain wholesale telecommunications services, Australia might be regarded as having limited the number of suppliers of these services contrary to Australia's market access obligations. ⁶⁴ In its GATS Schedule, Australia did include limitations on its mode 3 market access commitments with respect to the government ownership of Telstra applicable at that time. ⁶⁵ However, those limitations cannot be automatically transposed to NBN Co. To modify its GATS Schedule by inserting limitations regarding NBN Co, Australia would have to compensate other Members pursuant to GATS Article XXI.

Whether NBN Co is effectively the sole supplier of any particular service is ultimately likely to depend on the implementation of the relevant legislation and of the definitive agreements reached with Telstra, Optus and other providers, and factual elements concerning the degree of competition that NBN Co faces in the services it ends up supplying (which would affect the proper determination of the 'relevant market' as discussed further below). ⁶⁶

The government funding of NBN Co raises a number of other issues concerning its relationship with existing and potential suppliers of telecommunications services in Australia. In particular: What services should NBN Co provide? How should other suppliers connect to the NBN Co network? And how should the government achieve its objective of universal telecommunications services? We address each of these questions in turn in the following sections, within the context of assessing the compatibility of the NBN proposal with Australia's international trade obligations.

III THE NBN OFFERING: WHOLESALE LAYER 2 BITSTREAM SERVICES

Around the world, debate continues on how best to ensure competition in the delivery of telecommunications services in order to lower prices, encourage innovation and improve service quality.⁶⁷ Simply put, infrastructure-based competition (also called network-based or facilities-based competition) occurs when providers 'build their own network infrastructure to compete

⁶³ GATS, art XXVIII(h) (emphasis added); Rudolf Adlung, 'Public Services and the GATS' (2006) 9(2) *Journal of International Economic Law* 455, 473.

GATS, art XVI:2(a). See J Anthony VanDuzer, 'Health, Education and Social Services in Canada: The Impact of the GATS' in John Curtis and Dan Ciuriak (eds), *Trade Policy Research 2004* (2004) 479-480.

WTO Trade in Services, *Australia – Schedule of Specific Commitments: Supplement* 3, GATS/SC/6/Suppl.3 (11 April 1997) 3-4.

See below part IVE2 and above n 48.

⁶⁷ Jörg Kittl, Martin Lundborg and Ernst-Olav Ruhle, 'Infrastructure-Based *Versus* Service-Based Competition in Telecommunications' (2006) 64 *Communications & Strategies* 67, 69.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

either as wholesalers or as integrated retailers or as both'. ⁶⁸ However, investing in telecommunications infrastructure (especially for next generation networks such as the NBN) is extremely expensive, and the potential for recouping that cost is uncertain, depending on factors such as consumer demand and regulation. Thus, investment in infrastructure of the kind underlying the NBN 'involves very substantial risks greater than those faced with other kinds of large-scale infrastructure projects'. ⁶⁹ An alternative to infrastructure-based competition is service-based competition, which occurs when providers either lease the necessary facilities in order to provide services at the wholesale or retail level or resell the services of wholesalers. ⁷⁰

The degree of mandated access to telecommunications networks is crucial in ensuring appropriate levels of infrastructure-based and service-based competition, both of which have generally been seen as desirable.⁷¹ On the one hand, open access policies (requiring network-based providers to allow competitors access to their telecommunications infrastructure) may encourage service-based competition by lowering barriers to entry. On the other hand, 'forcing incumbents to lease their network to competitors will undermine that industry's incentives to invest in higher capacity networks to begin with',⁷² decreasing infrastructure-based competition. The United States has responded to this problem by abandoning open access regulation, promoting greater infrastructure-based competition.⁷³ In contrast, a number of European countries have focused more on service-based competition, often associated with the 'ladder of investment' theory,⁷⁴ which posits that 'providing access opportunities for competitors which are

_

Productivity Commission, *Telecommunications Competition Regulation: Inquiry Report*, Report No 16 (21 September 2001) 100.

⁶⁹ Martyn Taylor, 'Regulation vs Investment: Striking an Appropriate Balance – The Theory' (2008) 36 Australian Business Law Review 384, 385-387.

Productivity Commission, *Telecommunications Competition Regulation: Inquiry Report*, Report No 16 (21 September 2001) 100-101.

Jörg Kittl, Martin Lundborg and Ernst-Olav Ruhle, 'Infrastructure-Based *Versus* Service-Based Competition in Telecommunications' (2006) 64 *Communications & Strategies* 67, 83; Peter F Cowhey and Jonathan D Aronson, 'Trade in Services Telecommunications' in Aaditya Mattoo, Robert M Stern and Gianni Zanini (eds), *A Handbook of International Trade in Services* (Oxford University Press, 2008) 389, 398. See also *Competition and Consumer Act 2010* (Cth), s44AA.

Berkman Center for Internet & Society at Harvard University, Next Generation Connectivity: A review of broadband Internet transitions and policy from around the world (Final Report, February 2010) 14. See also Martyn Taylor, 'Regulation vs Investment: Striking an Appropriate Balance – The Theory' (2008) 36 Australian Business Law Review 384, 393.

Paolo Siciliani, 'Access Regulation on NGA — A Financial, Market-Led Solution to Bridge the Gap between US and European Diverging Regulatory Approaches' (2010) 34 Telecommunications Policy 287, 288, 290; Martyn Taylor, 'Regulation vs Investment: Striking an Appropriate Balance — The Theory' (2008) 36 Australian Business Law Review 384, 389. See also George Ford, Thomas Koutsky and Lawrence Spiwak, 'Competition After Unbundling: Entry, Industry Structure, and Convergence' (2006-2007) 59(2) Federal Communications Law Journal 367.

⁷⁴ Berkman Center for Internet & Society at Harvard University, *Next Generation Connectivity: A review of broadband Internet transitions and policy from around the world* (Final Report, February 2010) 92.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

appropriately calibrated over time' will 'encourage competitors to "climb the ladder" of infrastructure investment, by installing progressively less replicable assets'. A more recent theory articulated by the Berkman Center is that:

open access and unbundling is not necessarily a pathway to the development of completely redundant facilities, but might be channelled towards complementary investments around a shared common set of slow-moving, extremely high cost elements: the passive infrastructure. ... In principle there is nothing about the physical limitations of a trench, or a fiber optic cable that makes duplication of this infrastructure a pre-condition for competition. Rather, it is the concern that regulation will fail to detect anticompetitive behaviour by the owner and operator of the shared infrastructure that the duplication insures against. Whether that insurance is worth the enormous social cost of redundant infrastructure, or the long term cost of reducing entry only to those actors able to fully duplicate facilities, is far from clear. ⁷⁶

This theory may go some way towards explaining the Australian government's thinking in relation to the NBN, given Australia's past experience with competition in fixed-line telecommunications services. According to Stephen Conroy, Australia's Minister for Broadcasting, Communications and the Digital Economy, 'infrastructure competition has failed' in the telecommunications sector in this country. According to Michael Cosgrave, Group General Manager of the ACCC's Communications Group, 'the bottleneck characteristics of Telstra's customer access network are quite impervious to challenge from other fixed line technology'. (According to NBN Co estimates, Telstra's revenue market share of the retail and wholesale telecommunications market is 57%, with Optus second at 25%, followed by Vodafone Hutchison Australia at 12% and AAPT at 2%.)⁷⁹ Competition is nevertheless robust in Australia's mobile telecommunications sector. 80

_

Martin Cave, 'Encouraging infrastructure competition via the ladder of investment' (2006) 30 Telecommunications Policy 223, 235-236.

Berkman Center for Internet & Society at Harvard University, *Next Generation Connectivity: A review of broadband Internet transitions and policy from around the world* (Final Report, February 2010) 93-94.

Joint Press Conference of the Prime Minister and Minister Conroy (Canberra, 20 October 2010), available at ">http://www.alp.org.au/federal-government/news/transcript--prime-minister-julia-gillard,-tran-(1)/>.

Michael Cosgrove, 'FTTH and the National Broadband Network – Opportunity and Challenges for Competition Regulation' (Paper presented at the FTTH Council Asia Pacific Annual Conference and Exhibition 2009, Melbourne, 19 May 2009) 4. See also ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 23.

NBN Co, Corporate Plan 2011-2013 (17 December 2010) 32. See also David Kennedy, Australia (country regulation overview) (Ovum, 3 February 2010) 2-4.

See, eg, Graeme Samuel (ACCC Chairman), 'Fair call: the ACCC's report card for the telecommunications sector', paper presented at the 2010 ATUG Annual Conference (Sydney, 12 March 2010).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Under the 'Open Systems Interconnection' or 'OSI' Model developed by the International Telecommunications Union⁸¹ and the International Organization for Standardization⁸² to facilitate interoperability, seven layers exist in the 'vertical technology stack'⁸³ making up communications across a telecommunications network. At the bottom is Layer 1, the physical or passive layer. Above that, Layer 2 is known as the link or active layer.⁸⁴ The lower layers provide the services through which the applications at Layer 7 operate.⁸⁵ The lower the layer at which services are provided on a competitive basis, the closer the industry is to infrastructure-based competition.

In its initial consultation paper of December 2009, NBN Co explained that it is to be a wholesale-only open access provider, offering a 'wholesale Layer 2 bitstream product' in order to 'occupy as small a footprint as possible in the overall value chain, leaving retail service providers (RSPs) with significant ability to innovate and develop new services in the higher levels of the value chain'. ⁸⁶ In its response to industry submissions in March 2010, NBN Co confirmed its view that this approach 'most closely aligns with NBN Co's stated objectives and is most likely to facilitate the achievement of optimum competitive outcomes over the short-to-medium term', noting that industry submissions contained no requests for NBN Co to offer Layer 1 services and expressed little support for NBN Co offering Layer 3 services. ⁸⁷ Indeed, some stakeholders such as Internode, Telstra and Optus have proposed an explicit prohibition on NBN Co providing services above Layer 2, in order to prevent 'scope creep'. ⁸⁸ Despite the continued focus of NBN Co on wholesale service supply, the relevant legislation does provide limited exceptions, allowing NBN Co to provide certain telecommunications services to some utilities (transport authorities; bodies supplying electricity, gas, water, or sewerage services; storm water drainage services bodies; and State or Territory road authorities). ⁸⁹ Entities such as Telstra and Optus opposed the exemption

International Telecommunication Union, Telecommunication Standardization Sector, Information Technology – Open Systems Interconnection – Basic Reference Model: The Basic Model, ITU-T Recommendation X.200 (07/94) 28.

International Organization for Standardization, Information Technology – Open Systems Interconnection – Basic Reference Model: The Basic Model, ISO/IEC 7498-1: 1994(E) (2nd ed, 15 November 1994; corrected and reprinted, 15 June 1996) 28-29.

NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 9.

NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 9.

⁸⁵ ITU-T, Information Technology – Open Systems Interconnection – Basic Reference Model: The Basic Model, Recommendation X.200 (07/94) 28. See also James Green, The Irwin Handbook of Telecommunications (McGraw-Hill, 5th ed, 2006) 94-97.

NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 4.

NBN Co, NBN Co response to industry submissions – proposed wholesale fibre bitstream products (March 2010) 10-12.

Senate Environment and Communications Legislation Committee, National Broadband Network Companies Bill (2010) and Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2010 (16 March 2011) [2.37].

National Broadband Network Companies Bill 2010 (Cth) ss 10-16.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

for utilities as overly broad, 90 and late amendments now prevent the utilities from re-supplying telecommunications services obtained from NBN Co. 91

The government-commissioned NBN implementation study by McKinsey & Company and KPMG recommended that NBN Co be eventually required to unbundle Layer 1 services, ⁹² allowing other suppliers access to the fibre network. However, according to the ACCC, '[u]nbundling does not appear to be feasible under NBN Co's preferred option for [point of interconnect] location if it does not maintain opportunities for alternative service providers to access the fibre exchange in the future'. ⁹³ Accordingly, Australia's approach to interconnection (discussed below) may preclude ultimate infrastructure-based competition with respect to the NBN.

Although Australia's GATS obligations do not mandate the provision of services or access to a telecommunications network at any particular layer, they do include certain requirements concerning interconnection, to which we now turn. These interconnection obligations are enhanced by Australia's extensive market access and national treatment commitments with respect to mode 3 telecommunications services, including 'Packet-switched data transmission services', which would encompass the Layer 2 bitstream services to be provided by NBN Co.⁹⁴

IV INTERCONNECTION TO THE NBN

A Policy Debate and NBN Co's Original Proposal

As noted in the introduction above, in late 2010 the ACCC engaged in consultation concerning the points at which other telecommunications service providers will be able to connect to NBN Co's

_

Senate Environment and Communications Legislation Committee, National Broadband Network Companies Bill (2010) and Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2010 (16 March 2011) [2.30].

Parliament of the Commonwealth of Australia, The Senate, *National Broadband Network Companies Bill* 2010: Schedule of the amendments made by the Senate (25 March 2011) 1-3.

⁹² McKinsey/KPMG, National Broadband Network Implementation Study (6 May 2010) 474.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 21. See also ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 79-80

WTO Trade in Services, Australia – Schedule of Specific Commitments: Supplement 3, GATS/SC/6/Suppl.3 (11 April 1997) 3. Australia's schedule defines 'telecommunications services' as covering specified subsectors from WTO, Services Sectoral Classification List: Note by the Secretariat, MTN.GNS/W/120 (10 July 1991), as well as related numbers from the United Nations' Central Product Classification ('CPC'), namely CPC numbers 7521, 7522, 7523, and 7529. The relevant CPC 7523 includes 'data network services', meaning '[n]etwork services necessary to transmit data between equipment using the same or different protocols', which would include packet-switched data transmission services: see Provisional CPC: http://unstats.un.org/unsd/cr/registry/regcst.asp?Cl=9&Lg=1.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

FTTP network.⁹⁵ As telecommunications is a network industry, 'the value of the network to each user ... increases with every addition of other users to the network', and '[w]ithout a right of interconnection, a new entrant could not offer its customers effective service capable of reaching all the people customers wished to call unless it first built a new ubiquitous physical network whose geographic scope rivalled that of the dominant network'96 (in this case, NBN Co). The question of how much access to the physical network of a telecommunications service provider should be mandated by the government with respect to other telecommunications service providers and at what points interconnection should be granted is 'a special case of a more general economic problem of infrastructure access', which arises when 'one or more firms each control upstream facilities that provide a good or service that is needed for further downstream production', in circumstances of 'inadequate competition at the upstream production stage'. 97

The location at which traffic is transferred on to NBN Co's network before continuing to the end user's location (or vice versa) is called a point of interconnect or point of interconnection ('Pol'). (In more general terms, the ACCC has defined a Pol as 'the inter-network location where traffic is exchanged between one network and another'.)98 The greater the number of Pols, and the closer to the end user they are located, the greater the likely amount of innovation and investment in telecommunications infrastructure (known as 'backhaul' or 'transmission') leading to those points. The fewer the number of Pols, and the further away from the end user they are located, the easier it will be for service providers to compete in providing retail services to end users without the need to invest in their own backhaul or purchase backhaul from other providers.⁹⁹ The Pols chosen are significant because the general telecommunications access regime under Part XIC of the Competition and Consumer Act 2010 (Cth) will apply to NBN Co only in respect of designated Pols. 100

In its December 2009 consultation paper, NBN Co explained that its goal in locating Pols to its network is 'to strike a balance between encouraging innovation and efficient investment in backhaul infrastructure without embedding or increasing barriers to entry for smaller RSPs in less densely populated areas due to limited competition in the backhaul segment.'101 Originally,

Hudson Janisch, 'Regulation and the Challenge of Broadband Telecommunications: Back to the Future?' (lecture presented at the University of Alberta, Faculty of Law, 26 October 2010) 3-4.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010).

Joshua S Gans and Stephen P King, 'Regulating Interconnection Pricing' in Alasdair Grant (ed), Australian Telecommunications Regulation (UNSW Press, 3rd ed, 2004) 55, 55.

ACCC, Advice to Government: National Broadband Network Points of Interconnect - Public Version (November 2010) 12.

See ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 9, 17; ACCC, Advice to Government: National Broadband Network Points of Interconnect - Public Version (November 2010) 14-15.

See below n 143 and corresponding text.

¹⁰¹ NBN Co, *NBN Co consultation paper: proposed wholesale fibre bitstream products* (December 2009) 15.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

choosing between local, district, regional and state/national Pol locations (in order from the closest to the furthest away from the end user), NBN Co decided to establish, '[f]or more densely populated areas, such as urban and regional centres, a "local" ... Pol ... for each Fibre Serving Area (FSA), while for less densely populated areas, a "district" Pol (which aggregates two or more FSAs together)'. 102 Under this proposal, if 'contestable backhaul' was available in a given area, then a local Pol would be provided and RSPs could use their own backhaul to that point or purchase backhaul from another provider. However, in the absence of contestable backhaul in a particular area, only a district Pol would be provided and RSPs would need to use NBN Co's network from that point to the end user. 103 The rationale for this approach was to 'promote a level playing field' and '[e]nsure that all RSPs are able to acquire the same service and compete equally in a given area'. 104 Put differently, this approach was designed to ensure that no RSP would be advantaged by the fact that it already had backhaul in place. According to NBN Co's Business Case Summary released by the Australian government in late 2010, NBN Co's business model was based on establishing only 14 Pols, and NBN Co predicted that mandating more Pols would reduce its internal rate of return by 50 to 80 basis points. 105

The difficulty with this framework for locating Pols, as emphasised by Telstra in its response to NBN Co's consultation paper is that:

it has potential to strand infrastructure already deployed in regional areas, to limit choice, and to discourage further investments that may be commercially viable. ... Telstra is concerned that NBN Co's proposal to aggregate regional FSAs into one PoI, and to then also exclude competition from NBN Co's offerings through the compulsory bundling of backhaul with the bitstream access service, will ... disadvantage parties who have already made investments in those areas. 106

Telstra also queried the consistency of NBN Co's proposal for locating Pols with Australia's WTO obligations, ¹⁰⁷ as discussed further below. According to Telstra, no technical or commercial reason exists to preclude NBN Co from offering a local Pol to RSPs that have their own backhaul or that have purchased backhaul from another provider, as well as a district Pol to RSPs that choose to purchase backhaul from NBN Co. 108 Telstra's concern about the bundling of backhaul

NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 4.

NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 19.

NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 19.

NBN Co, NBN Co Business Case Summary (24 November 2010) 20.

¹⁰⁶ Telstra, Response to NBN Co Consultation Paper: Proposed Wholesale Fibre Bitstream products (12 February 2010) [30], [32] (emphasis added). See also Stephen Bartholomeusz, 'The NBN's vital connections' (22 October 2010) Business Spectator (online).

¹⁰⁷ Telstra, Response to NBN Co Consultation Paper: Proposed Wholesale Fibre Bitstream products (12 February 2010) [18]-[21], [31].

¹⁰⁸ Telstra, Response to NBN Co Consultation Paper: Proposed Wholesale Fibre Bitstream products (12 February 2010) [31].

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

and access services seems to be reflected in Recommendation 52(2) of the McKinsey/KPMG implementation study, which proposes that '[t]he transit backhaul bitstream product ... be specified as a separate product from the access bitstream product, allowing service providers to select their preferred combination of backhaul capacity and access services'. ¹⁰⁹

B NBN Co's Revised Proposal and Its Reception

NBN Co was already aware of the risk of stranding existing infrastructure, ¹¹⁰ but in its March 2010 response to submissions by Telstra and other industry players it reaffirmed its decision not to offer a local Pol to Telstra or other providers in areas of non-contested backhaul:

Telstra's concern ... seems to [involve] Telstra not being able to utilise its backhaul assets for both self supply and wholesale provision to RSPs. While this is understandable from Telstra's perspective, NBN Co already outlined that its decision on this matter would ensure no RSP was disadvantaged relative to other RSPs. [Otherwise,] Telstra would have the ability and the incentive to favour its retail arm over other RSPs. ¹¹¹

Nevertheless, NBN Co's position on the Pol question then shifted somewhat, perhaps as a result of discussions with Telstra leading to the heads of agreement between NBN Co and Telstra. NBN Co's October 2010 public position paper compared the options of no consolidation (950 local Pols), low consolidation (an indeterminate number of local/district Pols 'partially distributed, at the edge of where contested backhaul currently exists'), high consolidation (14 Pols aggregated in five capital cities) and a 'composite' model, entailing 14 central Pols in five capital cities plus the option of interconnection at an additional 195 Pols. NBN Co preferred the composite model, which appeared to offer a greater number of Pols than the 100-200 originally anticipated. However, interconnection at the additional 195 Pols was to be provided only 'upon request and subject to timing and business rules', with the 14 aggregated Pols being the 'default locations for

¹⁰⁹ McKinsey/KPMG, National Broadband Network Implementation Study (6 May 2010) 336.

¹¹⁰ NBN Co, NBN Co consultation paper: proposed wholesale fibre bitstream products (December 2009) 16.

NBN Co, NBN Co response to industry submissions – proposed wholesale fibre bitstream products (March 2010) 21.

See above n 25 and corresponding text.

NBN Co, NBN Co Public Position Paper: Proposed NBN Co Points of Interconnect (POIs), Attachment A to ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 12-13.

Telstra, Response to NBN Co Consultation Paper: Proposed Wholesale Fibre Bitstream products (12 February 2010) [23] (citing Presentation by James Chard, NBN Co Network Architect, NBN Co Forum on the Discussion Paper, Sydney, 20 January 2010).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

interconnection'.¹¹⁵ This compared to the approximately 550 Pols available to service providers seeking access to Telstra's copper network.¹¹⁶

In its October 2010 discussion paper on Pols, the ACCC suggested that '[i]t is likely that a very low number of consolidated POIs risks stranding existing infrastructure assets[,] foreclosing the potential for further backhaul entry', and 'foreclosing dynamic development in this sector'.¹¹⁷ It highlighted its previous recommendations concerning PoIs in other contexts, including that: (i) 'a fibre-to-the-node (FTTN) network upgrade or similar fibre access network roll-out ... should include POIs which are as close to the end-user as is appropriate and efficient'; and (ii) in the context of the government's 2008 request for proposals for an NBN (which was later abandoned), 'interconnection as close as possible to existing backhaul/transmission investments is likely to facilitate a smooth migration to the NBN'.¹¹⁸ The ACCC also queried NBN Co's assertion that its ability to achieve uniform national wholesale pricing would be determined by the number and location of points of interconnect.¹¹⁹

In its response to the ACCC discussion paper, Telstra emphasised that the NBN Co's revised proposal would risk stranding infrastructure of existing service suppliers. It also maintained that the proposal 'breaches WTO and [Free Trade Agreement] commitments (and carrier licence requirements)'. 120 According to Telstra, NBN Co must act consistently with Australia's obligations under the Reference Paper because of a 1997 Ministerial declaration that makes the WTO agreements binding on carriers. 121 Telecommunications suppliers such as Optus and AAPT also

NBN Co, NBN Co Public Position Paper: Proposed NBN Co Points of Interconnect (POIs), Attachment A to ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 12.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 8; ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 13.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 17-18. See also ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 33-34.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 11-12.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 19, 21-22.

¹²⁰ Telstra, Response to the ACCC Discussion Paper on Points of Interconnect to the National Broadband Network (November 2010) 16.

Telstra, Response to the ACCC Discussion Paper on Points of Interconnect to the National Broadband Network (November 2010) 7, referring to Telecommunications Act 1997 (Cth) s 366(2); Minister for Communications and the Arts (Cth), 'Telecommunications (Compliance with International Conventions) Declaration No 1 of 1997' in Commonwealth, Gazette: General, No GN 26, 2 July 1997, 1811.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

complained about NBN Co's composite model on the basis that it would strand existing assets, which could lead to domestic compensation claims. 122

C Potential for a Domestic Claim on Interconnection

Telstra's argument regarding the 1997 Ministerial declaration is significant because, if followed by an Australian court, it would mean that Telstra and other Australian and foreign telecommunications suppliers could bring a claim in an Australian court under Australian law regarding a failure by NBN Co to comply with its carrier licence if NBN Co's operation was inconsistent with WTO rules. A domestic claim on this basis would provide an additional avenue for foreign providers—and perhaps the only litigation-based avenue for Telstra and other Australian providers—in seeking redress for a WTO violation in connection with the NBN. The possibility of domestic court litigation being initiated by any provider (possibly leading to an interim injunction against the continuing operations of NBN Co or a court order requiring the regulator to consider enforcement action) is likely to pose a more immediate and credible threat to NBN Co and the government's plans than the possibility of a foreign provider succeeding in convincing their own government to challenge Australia in the WTO dispute settlement system, which could lead to successive proceedings taking several years and an ultimate remedy that is prospective only. The threat of domestic litigation may have been one factor in persuading NBN Co to revise its list of Pols further, as explained below.

A broadly analogous situation arose in 1998, when the High Court of Australia held that the making of a particular standard by the Australian Broadcasting Authority ('ABA') was unlawful¹²⁴ because the standard imposed minimum local content requirements on Australian television,¹²⁵ discriminating against New Zealand programs (along with other foreign programs) contrary to

Such a claim might need to be indirect, as only ACMA, the Minister, and the ACCC are able to take action in relation to a contravention of a carrier licence condition. A carrier could make a formal complaint to ACMA under s509 of the *Telecommunications Act 1997 (Cth)* sufficient to trigger obligations under Australian domestic law. A legitimate expectation may arise that ACMA will take enforcement action where a carrier places the Australian government in breach of treaty obligations. In performing its functions, ACMA is required under s580 of the Act to have regard to Australia's obligations under the Reference Paper.

_

Optus, Submission – National Broadband Network Points of Interconnection (November 2010) 12-13; AAPT, Submission by AAPT Limited in response to the Australian Competition and Consumer Commission's discussion paper titled National Broadband Network Points of Interconnect, dated October 2010 (2010) 16-19. See also Petroc Wilton, 'NBN's 14 POI proposal criticised by Telstra, Optus; supported by smaller access seekers' (10 November 2010) 3874 Communications Day 1-2; Tracy Lee and Mitchell Bingemann, 'ISPs, telcos may file NBN compo claims' (8 December 2010) The Australian.

Project Blue Sky v Australian Broadcasting Authority (1998) 194 CLR 355, [101] (majority), cf [42] (Brennan CJ, holding the relevant part of the standard to be invalid rather than merely unlawfully made).

¹²⁵ Australian Content Standard, cl 9.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Australia's PTA with New Zealand. ¹²⁶ Although the ABA had the power to make broadcasting standards under section 122 of the *Broadcasting Services Act 1992* (Cth), that power had to be exercised in accordance with section 160(d) of the same Act, ¹²⁷ which required the ABA to 'perform its functions in a manner consistent with Australia's obligations under any convention to which Australia is a party or any agreement between Australia and a foreign country'. ¹²⁸ The implications of the High Court's decision continue today, ¹²⁹ with New Zealand programs treated equally with Australian programs for the purpose of compliance with the current broadcasting television standard. ¹³⁰

D ACCC Recommendation and NBN Co's Final Proposal

In late 2010, the ACCC provided its advice on the Pol issue to the government, and that advice was subsequently made public. The ACCC considered the initial number and location of Pols that would best meet the 'long-term interests of end-users' (a standard determinant for much of the ACCC's telecommunications activity, based on legislation), ¹³¹ defined according to the objectives of promoting competition in the relevant service markets, achieving 'any-to-any connectivity', and encouraging the economically efficient use of and investment in infrastructure ¹³² (and thus taking account of both service-based and infrastructure-based competition). On that basis, the ACCC recommended a low consolidation approach to Pol location (which it described as a 'semi-distributed' approach). ¹³³ Under the ACCC's recommended approach, POIs would be 'established in all locations where transmission services are workably competitive and it is technically and

Protocol on Trade in Services to the Australia New Zealand Closer Economic Relations Trade Agreement (18 August 1988) [1988] ATS 1988 20, arts 4, 5(1).

Project Blue Sky v Australian Broadcasting Authority (1998) 194 CLR 355, [81] (majority), see also [31] (Brennan CJ). See also Donald Rothwell, 'Australia' in David Sloss (ed), The Role of Domestic Courts in Treaty Enforcement: A Comparative Study (Cambridge University Press, 2009) 120, 141-145 and the references cited therein.

 $^{^{128}}$ Cf today's Australian Communications and Media Authority Act 2005 (Cth), s 16.

On the immediate impact of the *Project Blue Sky* decision on Australian content standards, see Anna Feros, 'Effect of international agreements and convergence of technologies on Australian television content' (2000) 5(2) *Media & Arts Law Review* 87, 90-91. On the relationship between Australian culture and minimum local content requirements see Simon Fitzpatrick, 'Protecting Australian culture in the 21st century: television content regulation in a globalising world' (2000) 5(4) *Media & Arts Law Review* 223. More generally, on the relationship between international trade laws and 'cultural products' such as television, see Tania Voon, *Cultural Products and the World Trade Organization* (Cambridge University Press 2007)

¹³⁰ Broadcasting Services (Australian Content) Standard 2005, as amended, s 5(3).

¹³¹ Competition and Consumer Act 2010 (Cth) s152AB(2).

¹³² ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 15-16.

ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 1.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

operationally feasible' to do so.¹³⁴ The presence of two suppliers of wholesale transmission services with optical fibres near a given location would suggest that competitive backhaul exists or is likely to develop at that location, but other evidence would be needed to confirm this assessment.¹³⁵ The ACCC pointed out that its recommended semi-distributed approach to Pol location would allow for 'future Layer 1 unbundled access'.¹³⁶

Pursuant to the ACCC's recommendation and with guidance from the ACCC, NBN Co developed planning rules for establishing Pols and a list of 120 initial Pols, ¹³⁷ which was subsequently revised to 121 initial Pols. ¹³⁸ The ACCC indicated that it was satisfied that the revised list complied with the relevant competition criteria and planning rules, ¹³⁹ later notifying a slightly revised list, still entailing 121 initial Pols. ¹⁴⁰ Although 121 Pols represents a substantial increase on the 14 default Pols in NBN Co's previous proposal, it is still significantly lower than the 550 Pols in Telstra's copper network. ¹⁴¹ This approach could still therefore raise concerns about stranding existing assets. However, the ACCC has emphasised that: a move from a copper network to an FTTP will necessarily involve some bypassing of existing infrastructure; 'under a two provider approach to defining competition' in accordance with the ACCC recommendation, 'the only transmission operator whose assets would potentially be subject to stranding or impairment would be Telstra'; and Telstra would be likely to be able to use these assets for other purposes and to limit the impairment through its agreement with NBN Co. ¹⁴²

Pursuant to the *Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011* (Cth), the ACCC must publish a list of initial Pols (which is expected to be based on the 121 Pols it has already identified). The NBN has no statutory obligation to allow access seekers to interconnect with its facilities at Pols not included

_

ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 41-42 (emphasis added).

¹³⁵ ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 58-59.

¹³⁶ ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 79.

NBN Co, List of initial POIs to the NBN – December 2010, available at www.accc.gov.au/content/index.phtml/itemId/952292 (last accessed 23 June 2011).

NBN Co, List of revised initial POIs to the NBN – February 2011, available at <www.accc.gov.au/content/index.phtml/itemId/952292> (last accessed 23 June 2011).

ACCC, NBN Points of Interconnect: Confirmation process — February 2011, available at www.accc.gov.au/content/index.phtml/itemId/952292 (last accessed 23 June 2011).

ACCC, List of revised initial points of interconnection to the National Broadband Network May 2011, available at http://www.accc.gov.au/content/index.phtml/itemId/952292 (last accessed 23 June 2011).

¹⁴¹ See above nn 115-116 and corresponding text.

¹⁴² ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 30-32.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

in the list published by the ACCC.¹⁴³ In other words, as noted above, the Part XIC access regime does not apply to unlisted Pols.¹⁴⁴

E Australia's Interconnection Obligations Regarding NBN Co

What, then, are the implications of international trade law for this controversial issue of Pol location? The Reference Paper, which Australia has incorporated into its GATS Schedule, includes a number of key obligations with respect to interconnection, with roots in United States law. These include Sections 2.1 and 2.2 of the Reference Paper, which we examine in turn below:

1 Reference Paper Section 2.1: Applicability of the Interconnection Obligations

2. <u>Interconnection</u>

2.1 This section applies to linking with suppliers providing *public telecommunications* transport networks or services in order to allow the users of one supplier to communicate with users of another supplier and to access services provided by another supplier, where specific commitments are undertaken. 148

We begin with the two primary conditions in Section 2.1 for applicability of the interconnection obligations in Section 2 of the Reference Paper: that the Member in question has undertaken relevant specific commitments, and that the suppliers in question are providing public telecommunications transport networks or services.

As identified in Part III of the GATS, 'specific commitments' are market access, national treatment and additional commitments. In *Mexico – Telecoms* (which primarily concerned mode 1 service supply), the Panel interpreted Section 2.1 to mean that 'the right to interconnect accorded by Section 2.2 should apply where, *with respect to a particular subsector and mode of supply*, a Member's market access and national treatment commitments specifically accor[d] the right to supply that service'. As noted above, Australia has made extensive market access, national

¹⁴³ Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011 (Cth) sch 1, part 1, new s152AXB(4A).

See above text corresponding to n 100.

WTO Trade in Services, *Australia – Schedule of Specific Commitments: Supplement* 3, GATS/SC/6/Suppl.3 (11 April 1997) 3, 5-7.

Laura B Sherman, "Wildly Enthusiastic" About the First Multilateral Agreement on Trade in Telecommunications Services' (1998) 51 Federal Communications Law Journal 61, 79.

Paula Barnes Sours, 'The Impact of US Regulatory Activity on Prospects for Implementation of the WTO Agreement on Basic Telecommunications' (1998) 23 North Carolina Journal of International Law and Commercial Regulation 645, 662.

WTO Trade in Services, *Australia – Schedule of Specific Commitments: Supplement* 3, GATS/SC/6/Suppl.3 (11 April 1997) 5 (emphasis added).

Panel Report, *Mexico – Telecoms*, [7.94] (original emphasis).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

treatment and additional commitments under GATS in mode 3 with respect to the service that NBN Co will offer. The condition in Section 2.1 regarding specific commitments therefore appears to be satisfied.

The terms 'public telecommunications transport networks or services' in Section 2.1 are not defined in the Reference Paper. However, in interpreting Mexico's interconnection obligations under the Reference Paper, the Panel in *Mexico – Telecoms* relied on the definitions of these terms in the GATS Annex on Telecommunications. ¹⁵¹ The Panel did not explicitly justify this interpretative approach, despite the fact that the GATS Annex on Telecommunications by its terms provides definitions only '[f]or the purposes of this Annex'. ¹⁵² Nevertheless, the extension of these definitions to the Reference Paper may be warranted by the fact that a Member's GATS Schedule (including the Reference Paper, to the extent that it is incorporated therein) forms part of the GATS¹⁵³ and the WTO treaty as a whole, and the Reference Paper was drafted subsequent to the Annex. The definitions in the Annex of 'public telecommunications transport network' and 'public telecommunications transport service' are therefore at least relevant 'context'¹⁵⁴ in interpreting these terms in the Reference Paper.

The GATS Annex on Telecommunications defines '[p]ublic telecommunications transport service' as 'any telecommunications transport service required, explicitly or in effect, by a Member to be offered to the public generally ...'. ¹⁵⁵ Australia will not require NBN Co to offer any services to the public generally, in the sense that NBN Co will offer only wholesale and not retail services. ¹⁵⁶ Accordingly, NBN Co does not appear to be providing public telecommunications transport services. (The definition of 'public telecommunications service' in the AUSFTA is similarly restricted to services required to be offered to the public generally, ¹⁵⁷ such that the interconnection obligations in that agreement will not apply to NBN Co.) The GATS Annex on Telecommunications defines '[p]ublic telecommunications transport network' as 'the public telecommunications infrastructure which permits telecommunications between and among defined network termination points'. ¹⁵⁹ NBN Co's FTTP network does seem to fall within this definition.

Vienna Convention on the Law of Treaties, opened for signature 23 May 1969, 1155 UNTS 331 (entered into force 27 January 1980) art 31(1).

¹⁵⁸ AUSFTA, arts 12.3, 12.7(b), 12.10, 12.11.

¹⁵⁰ See above n 94 and corresponding text.

¹⁵¹ Panel Report, *Mexico – Telecoms*, [7.103]-[7.104].

¹⁵² GATS Annex on Telecommunications, s 3.

¹⁵³ GATS, art XX:3.

¹⁵⁵ GATS Annex on Telecommunications, s 3(b) (emphasis added).

¹⁵⁶ See above n 86 and corresponding text.

¹⁵⁷ AUSFTA, art 12.25.13.

¹⁵⁹ GATS Annex on Telecommunications, s 3(c) (emphasis added).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

In *Mexico – Telecoms*, the Panel appeared to conflate the definition of '[p]ublic telecommunications transport service' with the definition of '[p]ublic telecommunications transport network' in reasoning that the interconnection obligations in Section 2 of the Reference Paper entail "linking" with suppliers of basic telecommunications services that are required to be offered to the public generally'. On that interpretation (which could be characterised as *obiter dicta*), NBN Co will provide neither a public telecommunications transport service nor a public telecommunications transport network. However, this conclusion seems contrary to the principle of effectiveness and the ordinary meaning of the two definitions, which do not both refer to services required to be offered to the public generally. The Panel's conclusion also appears contrary to the aims of the Reference Paper in that it could prevent application of the Reference Paper to a wholesale-only supplier even where, as is the case with NBN Co, the supplier's infrastructure is ultimately used to supply services to the general public, and the entities to whom the supplier may offer services is not restricted to a closed user group of the kind typically associated with a 'private' network.

Accordingly, in our view, NBN Co is properly regarded as providing a public telecommunications transport network even though it will not provide a public telecommunications transport service. Therefore, Australia's interconnection obligations in Section 2.2 incorporate the linking of a service supplier of another WTO Member (the access seeker) with NBN Co's network in order to allow users of the access seeker to communicate with users of another supplier. The definitions of 'public telecommunications service' and 'public telecommunications network' in three of Australia's PTAs¹⁶¹ are similarly ambiguous but would arguably justify an interpretation that Australia's interconnection obligations under those agreements also extend to NBN Co.

2 Reference Paper Section 2.2: Ensuring Interconnection

2.2 <u>Interconnection to be ensured</u>

Interconnection with a *major supplier* will be ensured at any *technically feasible* point in the network. Such interconnection is provided[:]

- (a) under non-discriminatory terms, conditions (including technical standards and specifications) and rates and of a quality no less favourable than that provided for its own like services or for like services of non-affiliated service suppliers or for its subsidiaries or other affiliates;
- (b) in a timely fashion, on terms, conditions (including technical standards and specifications) and cost-oriented rates that are transparent, reasonable, having regard to economic feasibility, and sufficiently

¹⁶⁰ Panel Report, *Mexico – Telecoms*, [7.105].

SAFTA, ch 10, art 1.2(h) and (i); CAFTA, art 11.1(l) and (m); AANZFTA, Annex on Telecommunications, art 2(i) and (j).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

unbundled so that the supplier need not pay for network components or facilities that it does not require for the service to be provided; and

(c) upon request, at points in addition to the network termination points offered to the majority of users, subject to charges that reflect the cost of construction of *necessary additional facilities*. ¹⁶²

Similar interconnection obligations apply to major suppliers and more generally in Australia pursuant to the SAFTA, the CAFTA, and the AANZFTA. The first question that arises in applying Section 2.2 of the Reference Paper to NBN Co is whether NBN Co is a 'major supplier'. A 'major supplier' is defined in the Reference Paper as a supplier that:

has the ability to materially affect the terms of participation (having regard to price and supply) in the relevant market for basic telecommunications services as a result of:

- (a) control over essential facilities; or
- (b) use of its position in the market. 164

The reference to 'basic telecommunications services' ('BTS') in the definition of 'major supplier' mirrors the fact that the Reference Paper as a whole is restricted to BTS. BTS may be defined as services that 'involve end-to-end transmission of customer-supplied information between two or more points without any change being added to the information', in contrast to value-added telecommunications services ('VATS'), which may be defined as 'services that employ computer processing applications to enhance the form or content of a customer's information or provide for its storage and retrieval'. The distinction between BTS and VATS has become problematic as technology develops and the classification of telecommunications services becomes more complicated, as discussed further below. However, traditionally, for example, voice and data transmission services would be BTS whereas internet content services would be VATS.

-

WTO Trade in Services, *Australia – Schedule of Specific Commitments: Supplement* 3, GATS/SC/6/Suppl.3 (11 April 1997) 6 (footnotes omitted; emphasis added).

¹⁶³ SAFTA, ch 10, arts 8, 9.3, 9.7; CAFTA, arts 11.4, 11.10, 11.12; AANZTA, Annex on Telecommunications, art 6.

WTO Trade in Services, Australia – Schedule of Specific Commitments: Supplement 3, GATS/SC/6/Suppl.3 (11 April 1997) 5.

The Reference Paper begins with the sentence, under the heading 'Scope', '[t]he following are definitions and principles on the regulatory framework for the basic telecommunications services': WTO Trade in Services, *Australia – Schedule of Specific Commitments: Supplement* 3, GATS/SC/6/Suppl.3 (11 April 1997) 5.

Philip Raworth, *Trade in Services: Global Regulation and the Impact on Key Service Sectors* (Oceana Publications, 2005) 300.

For discussion of the distinction between BTS and VATS and the historical background to this distinction, see Marco Bronckers and Pierre Larouche, 'Telecommunications Services' in Patrick Macrory, Arthur Appleton and Michael Plummer (eds), *The World Trade Organization: Legal, Economic and Political*

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Defining the 'relevant market' for BTS in relation to NBN Co is a difficult task that would depend on detailed empirical and economic evidence concerning its role and the services it provides, taking into account the regulatory and contractual frameworks for its operations, which have not yet been finalised and implemented. This process of defining the relevant market would be rendered more difficult by the lack of precision in the Reference Paper definition of major supplier. However, on a broad conceptual level, the relevant market might be described as the Australian wholesale market for high-speed broadband services for voice and data transmission, which could include services provided over a wireless, cable, satellite or other network, to the extent that these services are competitive with and substitutable for services provided over NBN Co's FTTP network. However, nearly like a substitutable for services provided over NBN Co's FTTP network. In due course, NBN Co would reasonably be expected to have 'the ability to materially affect the terms of participation (having regard to price and supply) in that wholesale market either because of its 'use of its position in the market' or because of its control over 'essential facilities', 170 which are defined in the Reference Paper as:

facilities of a public telecommunications transport network or service that:

- (a) are exclusively or predominantly provided by a single or limited number of suppliers; and
- (b) cannot feasibly be economically or technically substituted in order to provide a service. ¹⁷¹

Although NBN Co is unlikely to be a 'major supplier' at the beginning of its rollout, as the NBN project is progressively implemented NBN Co will in most cases be the exclusive supplier of the relevant optical fibre to the home. End users' usage of this fibre will be bundled within bitstream services, and substitution possibilities for most end users will remain limited, notwithstanding

Analysis (vol I, 2005) 989, 994–5; Marco Bronckers and Pierre Larouche, 'A Review of the WTO Regime for Telecommunications Services' in Kern Alexander and Mads Andenas (eds), *The World Trade Organization and Trade in Services* (Martinus Nijhoff Publishers, 2008) 319, 323–5.

- Chantal Blouin, 'The WTO Agreement on Basic Telecommunications: A Reevaluation' (2000) 24
 Telecommunications Policy 135, 140; Marco Bronckers and Pierre Larouche, 'Telecommunications
 Services and the World Trade Organization' (1997) 31(3) Journal of World Trade 1, 24; Boutheina
 Guermazi, 'Exploring the Reference Paper on Regulatory Principles' (Working Paper, Center for the
 Study of Regulated Industries) 2; Rohan Kariyawasam, International Economic Law and the Digital
 Divide: A New Silk Road? (Edward Elgar Publishing, 2007) 83-4; Markus Fredebeul-Krein and Andreas
 Freytag, 'The Case for a More Binding WTO Agreement on Regulatory Principles in Telecommunication
 Markets' (1999) 23 Telecommunications Policy 625, 628.
- See Panel Report, *Mexico Telecoms*, [7.152].
- See generally OECD, The Essential Facilities Concept, OECD Doc OCDE/GD(96)113 (1996) 7; Andrea Renda, 'Competition regulation interface in telecommunications: What's left of the essential facility doctrine' (2010) 34 Telecommunications Policy 23-35. See also Taunya L McLarty, 'Liberalised Telecommunications Trade in the WTO: Implications for Universal Service Policy' (1998) 51 Federal Communications Law Journal 1, 51.
- WTO Trade in Services, *Australia Schedule of Specific Commitments: Supplement* 3, GATS/SC/6/Suppl.3 (11 April 1997) 5.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

potential inter-modal competition from other technological platforms such as HFC cable, mobile and wireless broadband services. The likelihood of NBN Co becoming a major supplier in the wholesale broadband market is also enhanced by its definitive agreements reached with Telstra and Optus, ¹⁷² which would limit inter-modal competition by (as the OECD cautions) 'eliminat[ing] competition between the new fibre optic network and the existing technological platforms, the copper network and the country's main cable network'. ¹⁷³

Another relevant BTS market might be the Australian retail market for voice and data services, with NBN Co acting as a major supplier not through direct activity in that market but by exerting power from an upstream wholesale market.¹⁷⁴ In addition to wholesale and retail services markets such as those identified here, the ACCC has referred to the relevance of the Pol question for the 'transmission capability' market (that is, the market for backhaul services).¹⁷⁵ NBN Co would also likely be competing in the transmission market; whether it was a major supplier in that market would depend in part on the number and location of Pols and the degree of competition on the various routes.

If NBN Co becomes a major supplier in any one of these markets as expected, then Australia must ensure that other telecommunications service suppliers are able to connect with NBN Co's network at 'any technically feasible point in the network' (given the local circumstances), ¹⁷⁶ in accordance with Section 2.2 of the Reference Paper. Section 2.2(b) of the Reference Paper suggests that 'economic feasibility' is relevant in determining the terms and conditions of interconnection, so that NBN Co might decline to provide additional Pols that might be in theory technically feasible but in reality not economically rational or viable. At the same time, Section 2.2(b) requires interconnection to be 'sufficiently unbundled', emphasising that a supplier should not have to 'pay for network components or facilities that it does not require'. This reference to unbundling could indicate that enough Pols must be provided to avoid stranding any existing infrastructure of other suppliers.

However, Section 2.2(b) must be read in conjunction with Section 2.2(c), which contemplates the provision to individual suppliers of additional Pols that are not offered to the 'majority of users, subject to charges that reflect the cost of construction of necessary additional facilities'. Read in

See above nn 29, 51 and corresponding text.

OECD, OECD Economic Surveys: Australia (November 2010) 107.

Marco Bronckers and Pierre Larouche, 'Telecommunications Services and the World Trade Organization' (1997) 31(3) *Journal of World Trade* 1, 24, 25.

ACCC, National Broadband Network Points of Interconnect: An ACCC Discussion Paper on points of interconnect to the National Broadband Network (October 2010) 17-20; ACCC, Advice to Government: National Broadband Network Points of Interconnect – Public Version (November 2010) 17-20.

See Damien Geradin and Michel Kerf, 'Levelling the playing field: is the WTO adequately equipped to prevent anti-competitive practices in telecommunications?' in Damien Geradin and David Luff (eds), The WTO and Global Convergence in Telecommunications and Audio-Visual Services (Cambridge University Press, 2004) 130, 151.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

this context, Section 2.2(b) may indicate that interconnection must be sufficiently unbundled to ensure that no supplier has to pay the major supplier for facilities that the 'majority of users' do not require in obtaining the relevant service. The question then arises whether a supplier such as an RSP 'does not require' particular facilities from the major supplier only where the RSP itself owns those facilities, or also where the RSP could lease them from a third party supplier. The latter interpretation would promote greater competition, ensuring that the number and location of Pols could not be chosen so as to prevent third party suppliers from competing with the major supplier.

The final details concerning the establishment of Pols are likely to affect Australia's compliance with its interconnection obligations in relation to the NBN. Australia may risk non-compliance if a service supplier of another WTO Member is forced to purchase backhaul that it does not need in order to connect to the NBN, either because it owns the relevant backhaul infrastructure or (according to the more pro-competitive interpretation) because it could lease that infrastructure from a third party supplier such as Telstra. Under that latest list of Pols notified by the ACCC, the limitation of Pols to what is technically and operationally feasible is more consistent with the requirements in Section 2.2 of the Reference Paper than NBN Co's earlier proposals, and suppliers other than Telstra are unlikely to face stranding or impairment of existing assets (based on the ACCC's prediction). 177 AAPT, Optus, Primus, and other telecommunications service suppliers of other WTO Members may therefore have less reason to lobby their own governments to bring a WTO complaint against Australia. Thus, the refinement of NBN Co's Pol proposal to satisfy the ACCC recommendations and hence ensure compatibility with competition law principles in Australian domestic law may have simultaneously mitigated potential problems with the NBN in connection with Australia's WTO and PTA obligations. A possible difficulty nevertheless remains under Section 2.2(b) in that some Telstra backhaul is likely to be stranded and Telstra as well as other suppliers will be forced to use NBN Co's infrastructure instead.

The Panel in *Mexico – Telecoms* found that the GATS Annex on Telecommunications imposes obligations on a WTO Member to grant access to and use of public telecommunications transport networks and services to telecommunications service suppliers of other Members (and not just to other Members' suppliers of non-telecommunications services), where the relevant telecommunications service is included in the Member's GATS Schedule. ¹⁷⁸ Accordingly, if Australia fails to ensure interconnection with NBN Co as required by Section 2.2 of the Reference Paper, it might also be charged with failing to ensure that telecommunications service suppliers of other WTO Members are 'accorded access to and use of public telecommunications transport networks and services on *reasonable* and non-discriminatory terms and conditions, for the supply of a service included in its Schedule', as required by Section 5(a) of the GATS Annex on

¹⁷⁷ See above n 142 and corresponding text.

¹⁷⁸ Panel Report, *Mexico – Telecoms*, [7.288].

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Telecommunications. ¹⁷⁹ Pursuant to that obligation, Australia must ensure that telecommunications service suppliers of other WTO Members are permitted 'to interconnect private leased or owned circuits with public telecommunications transport networks and services or with circuits leased or owned by another service supplier'. ¹⁸⁰ Similar obligations exist in most of Australia's PTAs, ¹⁸¹ in addition to the more specific interconnection obligations for telecommunications service suppliers. ¹⁸²

3 Modifications to the Pol List, the New Zealand Experience and Reference Paper Section 5

NBN Co has significant power in relation to the number and location of Pols in future. Until the Communications Minister declares the NBN 'built and fully operational', the ACCC may vary the Pol list *only with the agreement of an NBN corporation*. If NBN Co withholds agreement on a given modification to the Pol list, this could increase the risk of Australia violating Section 2.2 of the Reference Paper (including for declining to provide an additional Pol upon request and subject to payment by the relevant supplier, under Section 2.2(c)). Moreover, merely granting NBN Co the right to withhold agreement (that is, giving NBN Co a veto over ACCC decision-making with respect to Pols) could raise concerns under Section 5 of the Reference Paper, which states:

The regulatory body is separate from, and not accountable to, any supplier of basic telecommunications services. The decisions of and the procedures used by regulators shall be impartial with respect to all market participants.¹⁸⁵

Comparable obligations to establish an independent and impartial regulator exist in a number of Australia's PTAs. ¹⁸⁶ NBN Co, the ACCC and the Australian government will need to ensure ongoing compliance with Sections 2.2 and 5 of the Reference Paper in determining the Pol list. These issues should be canvassed upon review of the operation of this part of the legislation. ¹⁸⁷

Concerns about the absence or impartiality of a telecommunications regulator generally arise from more obvious instances of regulatory forbearance. In New Zealand, Section 5 of the Reference Paper was raised in complaints about the government's proposal to provide a 10-year

¹⁸⁰ GATS Annex on Telecommunications, s 5(b)(ii).

¹⁸³ Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011 (Cth) sch 1, part 1, new s151DB(1), (2A), (2B).

¹⁷⁹ Emphasis added. See also TAFTA, art 807(2).

¹⁸¹ SAFTA, ch 10, art 3; AUSFTA, art 12.2; TAFTA, art 807.2; CAFTA, art 11.3.

See above n 163 and corresponding text.

See above part IV2.

WTO Trade in Services, Australia – Schedule of Specific Commitments: Supplement 3, GATS/SC/6/Suppl.3 (11 April 1997) 7.

SAFTA, ch 10, art 5; AUSFTA, art 12.17; CAFTA, art 11.17; AANZFTA, Annex on Telecommunications, art 11.

Review is contemplated under *Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011* (Cth) sch 1, part 1, new ss151DC, 151DD.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

'regulatory holiday' (that is, suspension of regulation) for its Ultra-Fast Broadband ('UFB') network. ¹⁸⁸ On one view, this plan breached New Zealand's WTO obligation to have an independent regulator operating in the telecommunications sector ¹⁸⁹ because it would prevent the New Zealand Commerce Commission from reviewing the terms of access to UFB services, which would be provided by a selected telecommunications service provider. Instead, prices would likely be set by negotiation between entities owned by the government and the selected provider. Evidently, Australia is not the only country that needs to pay close attention to GATS obligations concerning telecommunications as the world adopts broadband on a greater scale. In the end, based on significant industry concerns, New Zealand removed the regulatory holiday from the relevant legislation, ¹⁹⁰ which has now been enacted. ¹⁹¹

V DEFINING UNIVERSAL SERVICE AND CLASSIFYING BROADBAND

A Reference Paper Section 3: Right to Maintain Universal Service Obligation

Pursuant to Section 3 of the Reference Paper:

Any Member has the right to define the kind of universal service obligation it wishes to maintain. Such obligations will not be regarded as anti-competitive *per se*, provided they are administered in a transparent, non-discriminatory and competitively neutral manner and are not more burdensome than necessary for the kind of universal service defined by the Member. ¹⁹²

This provision (which appears in comparable form in several Australian PTAs)¹⁹³ recognises Members' right and frequent desire to ensure that people, schools, hospitals, businesses and other entities within their territories have reasonable access to adequate telecommunications services. It also recognises that the pursuit of such 'universal' telecommunications services may create potential conflicts with competition:¹⁹⁴ 'some goals of universal service, such as providing

See, eg, Bill Bennett, 'Curran joins spat over WTO impacts of fibre regulation' (2 November 2010) 3868 Communications Day 5; Wigley & Company, 'UFB: the proposed 10 year regulatory forbearance period and WTO/APEC requirements' (29 October 2010).

¹⁸⁸ Telecommunications (TSO, Broadband, and Other Matters) Amendment Bill 2010 (NZ).

¹⁹⁰ Media Statement by the Minister for Communications and Information Technology (New Zealand), 'Regulatory forbearance to be replaced' (18 May 2011).

¹⁹¹ Telecommunications (TSO, Broadband, and Other Matters) Amendment Bill 2011 (passed 23 June 2011).

WTO Trade in Services, Australia – Schedule of Specific Commitments: Supplement 3, GATS/SC/6/Suppl.3 (11 April 1997) 7.

¹⁹³ AUSFTA, art 12.18; CAFTA, art 11.19; AANZFTA, Annex on Telecommunications, art 12.

¹⁹⁴ Shin-yi Peng, 'Universal Telecommunications Service in China: Trade Liberalization, Subsidy, and Technology in the Making of Information Equality in the Broadband Era' (2003) 4 Asian-Pacific Law & Policy Journal 21, 31; OECD Working Party on Telecommunication and Information Services Policies, Universal Service Obligations and Broadband, DSTI/ICCP/TISP(2002)4/FINAL (22 January 2003) 16.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

basic telephone services to rural or low-income areas, would not be met in a fully-competitive environment'. That is, servicing rural (often sparsely populated) or low-income areas may be inefficient or non-profit-maximising when viewed from a purely commercial perspective. Section 3 of the Reference Paper therefore provides scope for Members to 'pursue social, regional and other non-economic policy objectives' even where the implementation of those objectives may have a limited negative impact on competition in the telecommunications service market.

At present, the universal service obligation in Australia is designed to ensure that, *inter alia*, 'standard telephone services are reasonably accessible to all people in Australia on an equitable basis, wherever they reside or carry on business'. ¹⁹⁸ Australia imposes obligations primarily on Telstra to supply basic telephone equipment and services in different regions, with the revenue shortfall covered by levies on licensed telecommunications carriers according to their revenue. The equipment and services that Telstra must supply include the option of untimed local calls, a uniform price for basic voice telephony in metropolitan and non-metropolitan areas, payphones, handsets, provision for hearing impaired customers, and emergency call handling. ¹⁹⁹ The government has reached agreement with Telstra to continue to fulfil universal service requirements from 1 July 2012 within the new NBN framework, overseen by a proposed new government statutory agency, The Telecommunications Universal Service Management Agency. ²⁰⁰

In the following sections, we first consider the scope of universal service as encompassed by the provision, and whether the provision extends to broadband. Next, we consider whether the Australian government's decision to impose a uniform national wholesale price for services supplied by NBN Co in order to ensure reasonable access to superfast broadband nationwide is

-

¹⁹⁵ Taunya L McLarty, 'Liberalized Telecommunications Trade in the WTO: Implications for Universal Service Policy' (1998) 51 *Federal Communications Law Journal* 1, 55.

See OECD Working Party on Telecommunication and Information Services Policies, *Universal Service Obligations and Broadband*, DSTI/ICCP/TISP(2002)4/FINAL (22 January 2003) 12, 14.

Markus Fredebeul-Krein and Andreas Freytag, 'The Case for a More Binding WTO Agreement on Regulatory Principles in Telecommunications Markets' (1999) 23 *Telecommunications Policy* 625, 631.

¹⁹⁸ Telecommunications (Consumer Protection and Service Standards) Act 1999 (Cth) s9(1)(a).

¹⁹⁹ See *Telecommunications (Consumer Protection and Service Standards) Act 1999* (Cth); *Telecommunications (Universal Service Levy) Act 1997* (Cth).

Joint Media Release of the Prime Minister, Minister for Broadband, Communications and the Digital Economy, and Minister for Finance and Deregulation, 'Government and Telstra agree on package of consumer measures' (Canberra, 23 June 2011); Department of Broadband, Communications and the Digital Economy, *Universal Service Policy in the National Broadband Network Environment* (June 2011); Department of Broadband, Communications and the Digital Economy, *Universal Service Obligation Legislative Reform for transition to the National Broadband Network: Discussion Paper* (23 June 2011). Cf Department of Broadband, Communications and the Digital Economy, *Implementation of Universal Service Policy for the transition to the National Broadband Network environment: Discussion Paper* (October 2010) 3.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

consistent with international trade law. Finally, we examine potential international trade law difficulties with legislative provisions designed to 'level the playing field' for NBN Co.

B Scope of Universal Service and Related Classification Difficulties

The term 'universal service obligation' in Section 3 of the Reference Paper is not defined, arguably increasing Members' freedom to determine the meaning of this term. Traditionally, universal services were intended to cover only basic voice telephone services, raising the question whether data communications, including those supplied via broadband, can also be included in universal service obligations today. This question forms part of the broader difficulty of classifying telecommunications services for the purpose of international trade today, as identified above. In the case of the NBN, the relevant legislation does not broaden the concept of universal service to cover broadband at this stage, but that option remains open for the future. The government's decision to exclude certain features of its NBN plan (such as uniform national wholesale pricing, as discussed further below) from the formal universal service scheme arguably means that Australia cannot rely directly on the 'right' provided in Section 3 of the Reference Paper with respect to universal service to justify those features. Section 3 might nevertheless provide relevant 'context' in interpreting other obligations in the Reference Paper and in applying those obligations to the facts of the NBN.

In our view, the development of telecommunications technology means that Members may reasonably choose to extend the meaning of universal service to additional services and technologies. Although voice communications might once have been regarded as the minimum service necessary for all individuals and entities in a given country, many governments today may see this level of service as inadequate, with data transmissions (including high speed internet access) forming part of minimum basic requirements. Moreover, the fact that NBN Co will be supplying services over an FTTP network whereas Telstra and other suppliers have been supplying services over copper or cable should not change the characterisation of the services supplied. Assuming that the current universal service obligation in Australia fell within the scope of Section 3 of the Reference Paper, so too should any revised universal service obligation associated with the implementation of the NBN in this country.

²⁰¹ Shin-yi Peng, 'Universal Telecommunications Service in China: Trade Liberalization, Subsidy, and Technology in the Making of Information Equality in the Broadband Era' (2003) 4 *Asian-Pacific Law & Policy Journal* 21, 42.

²⁰² See above nn 165-167 and corresponding text.

²⁰³ Telecommunications Legislation Amendment (Competition and Consumer Safeguards) Act 2010 (Cth), sch 1, part 4; Parliament of the Commonwealth of Australia, House of Representatives, Telecommunications Legislation Amendment (Competition and Consumer Safeguards) Bill 2010 – Explanatory Memorandum (2010) 68-80.

²⁰⁴ VCLT, arts 31(1), 31(2).

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Our conclusion departs from an OECD report in 2003, which found that at that time, 'at present levels of market presentation, and present levels of service development, broadband access should not be considered as coming within the scope of universal service obligation definitions. However broadband access in the home is expected by most analysts to become essential to participate in society', including for the purpose of accessing education, health and government services. ²⁰⁵ In the eight years that have passed since that report has written, we conclude that WTO Members may properly choose to characterise broadband as essential and therefore a part of their goal of achieving universal service in the telecommunications sector. Mandating nationwide broadband access as part of a universal service obligation would go beyond merely subsidising broadband access for remote communities, which many governments including Australia have done for years, with varying degrees of success. ²⁰⁶

C The United States Experience: Characterising Broadband

The problem of classifying broadband, including for the purposes of a universal service obligation, is demonstrated by recent upheavals in telecommunications regulation in the United States.²⁰⁷ Based on a historical distinction between 'basic' and 'enhanced' telecommunications services,²⁰⁸ the *Telecommunications Act of 1996* (US) ('1996 Act') revised US telecommunications law to distinguish between 'telecommunications service' (analogous to BTS) and 'information service' (analogous to VATS).²⁰⁹ The Federal Communications Commission ('FCC') has authority to fully regulate telecommunications services pursuant to Title II of the *Communications Act of 1934* (US) ('Communications Act'), whereas it has only limited authority in regulating information services pursuant to Title I of the Communications Act.²¹⁰ Only telecommunications services fall within the current definition of universal service in the United States,²¹¹ although the FCC proposes to reform its universal service mechanism to encompass broadband.²¹²

OECD Working Party on Telecommunication and Information Services Policies, Universal Service Obligations and Broadband, DSTI/ICCP/TISP(2002)4/FINAL (22 January 2003) 11. See also OECD Working Party on Telecommunication and Information Services Policies, Rethinking Universal Service for a Next Generation Network Environment, DSTI/ICCP/TISP(2005)5/FINAL (18 April 2006) 37-43.

See, eg, FCC and United States Department of Agriculture, 'Report Places Emphasis on Need for Broadband in Rural America', Media Release (22 June 2011); Ellie Rennie, 'Internet on the outstation', Inside Story (9 May 2011), available at http://inside.org.au (last accessed 23 June 2011), as regards the Australian Broadband Guarantee.

See generally Note, 'How *Chevron* Step One Limits Permissible Agency Interpretations: *Brand X* and the FCC's Broadband Reclassification' (2011) 124(4) *Harvard Law Review* 1017.

²⁰⁸ FCC, In re Amendment of Section 64.702 of the Commission's Rules & Regulations (Second Computer Inquiry) 77 FCC2d 384 (adopted 7 April 1980, released 2 May 1980).

 $^{^{209}}$ 47 USC §153. Regarding the BTS/VATS distinction, see above nn 165-167 and corresponding text.

²¹⁰ 47 USC §§154(i), 201.

²¹¹ 47 USC §254.

²¹² FCC, Connecting America: The National Broadband Plan (2010) ch 8.3.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

From 2002, the FCC classified broadband internet access services as information rather than telecommunications services. ²¹³ The Supreme Court affirmed the FCC's decision to classify broadband services in this way (and thus effectively deregulate them) in 2005, ²¹⁴ pursuant to the *Chevron* doctrine. Under *Chevron*, where a statute is 'silent or ambiguous' on a given point, a court will defer to an agency's interpretation of the statute provided that it is 'based on a permissible construction of the statute'. ²¹⁵ More recently, in 2007, the FCC purported to regulate Comcast, an ISP (and cable TV provider), pursuant to Title I of the Communications Act. Giving effect to its policy of pursuing 'network neutrality', ²¹⁶ the FCC wanted to prevent Comcast from 'discriminating' against certain users and uses of its network (specifically, Comcast was managing network capacity by interfering with peer to peer network applications such as BitTorrent). ²¹⁷ Comcast agreed to change its network management practices, and the FCC ordered it to disclose details of the changes. ²¹⁸ In a subsequent challenge by Comcast, the United States Court of Appeals for the District of Columbia Circuit decided in 2010 that the FCC had failed to demonstrate that this order fell within the FCC's ancillary authority under Title I; the court therefore vacated the order. ²¹⁹

The *Comcast* decision leaves the FCC with the option of reclassifying broadband as a telecommunications service rather than an information service, or pursuing:

A "third way" under which the Commission would reaffirm that Internet content and applications remain generally unregulated under Title I of the Communications Act; identify the Internet connectivity service that is offered as part of wired broadband Internet service as a telecommunications service; and forbear under Section 10 of the Act from applying all provisions of Title II other than the small number that are needed to implement fundamental universal service, competition and market entry, and consumer protection policies. ²²⁰

FCC, *Policy Statement*, FCC 05-151 (adopted 5 August 2005, released 23 September 2005). See also Tim Wu, 'Network Neutrality, Broadband Discrimination' (2003) 2 *Journal on Telecommunications & High Technology Law* 141.

FCC, In re High-Speed Access to the Internet Over Cable and Other Facilities (2002) 17 FCCR 4798.

²¹⁴ National Cable & Telecommunications Association v Brand X Internet Services (2005) 545 US 967.

²¹⁵ Chevron USA Inc v Natural Resources Defense Council Inc (1984) 467 US 837, 843.

²¹⁷ Comcast Corporation v Federal Communications Commission and USA (2010) 600 F 3d 642, 644-645.

²¹⁸ In re Formal Complaint of Free Press & Public Knowledge: Order (2003) 23 FCCR 13028.

²¹⁹ Comcast Corporation v Federal Communications Commission and USA (2010) 600 F 3d 642, 644, 661.

FCC, 'FCC to Seek Best Legal Framework for Broadband Internet Access', Media Release (17 June 2010). See also Julius Genachowski, FCC Chairman, 'The Third Way: A Narrowly Tailored Broadband Framework' (6 May 2010), statement available at <www.broadband.gov/the-third-way-narrowly-tailored-broadband-framework-chairman-julius-genachowski.html> (last accessed 25 March 2011); Austin Schlick, FCC General Counsel, 'A Third-Way Legal Framework for Addressing The Comcast Dilemma' (6 May 2010), statement available at <www.broadband.gov/third-way-legal-framework-for-addressing-the-comcast-dilemma.html> (last accessed 25 March 2011); FCC, Connecting America: The National Broadband Plan (2010) 337.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Either of these options may be subject to challenge on the basis of law or policy, for example because these reinterpretations of the relevant legislation fall outside the discretion granted to the FCC by the *Chevron* doctrine, ²²¹ or they raise the risk of over-regulation by the FCC and corresponding under-investment. ²²² Nevertheless, the FCC continues to make rules concerning network neutrality and an open internet, ²²³ now relying on other legal bases such as Section 706 of the 1996 Act ²²⁴ and the need to ensure reasonable charges and practices in connection with telecommunications services under Title II of the Telecommunications Act. ²²⁵

These United States developments provide an example of ongoing difficulties arising not only in Australia but throughout the world in classifying broadband and, more generally, classifying telecommunications services as BTS and VATS. ²²⁶ This issue is likely to need eventual resolution or at least clarification at the multilateral level.

VI ACHIEVING A NATIONWIDE NETWORK THROUGH NBN

Although Australia has not yet redefined its universal service obligation to encompass broadband, ²²⁷ two other significant aspects of the legislated NBN framework are based on the government's desire to achieve an FTTP network that is reasonably accessible country-wide. In the following sections we examine, first, the policy of uniform national wholesale pricing and, second, the provisions designed to level the playing field in which NBN Co will compete. Both these features of Australia's NBN have the potential to clash with international trade law.

A Uniform National Wholesale Pricing

As noted above, the Australian government has adopted a policy of uniform national wholesale pricing ('UNWP') for services supplied by NBN Co in order to ensure that NBN Co's services are equally accessible across the country, even though costs may be higher for the supply of rural or remote areas.²²⁸ This uniform pricing policy raises two potential issues under GATS. First, Section

²²⁵ 47 USC §201(b).

Note, 'How *Chevron* Step One Limits Permissible Agency Interpretations: *Brand X* and the FCC's Broadband Reclassification' (2011) 124(4) *Harvard Law Review* 1017.

See generally George Ford, Lawrence Spiwak and Michael Stern, 'The Broadband Credibility Gap', (2010) 19 CommLaw Conspectus 75.

See FCC, In re Preserving the Open Internet Broadband Industry Practices, FCC 10-201 (adopted 21 December 2010, released 23 December 2010), part IV; FCC, 'FCC Acts to Preserve Internet Freedom and Openness', Media Release (21 December 2010).

²²⁴ 47 USC §1302.

²²⁶ See above nn 165-167 and corresponding text.

See above n 203 and corresponding text.

See above n 20 and corresponding text; Parliament of the Commonwealth of Australia, The Senate, National Broadband Network Companies Bill 2010, Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2011 – Revised Explanatory

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

1 of the Reference Paper (similarly to several Australian PTAs)²²⁹ requires Members to maintain appropriate measures to prevent major suppliers from 'engaging in or continuing anticompetitive practices', including 'engaging in anti-competitive cross-subsidization'. Second, Section 2.2(b) of the Reference Paper requires Members to ensure that interconnection with a major supplier is provided 'on terms, conditions ... and cost-oriented rates that are transparent, reasonable, having regard to economic feasibility, and sufficiently unbundled so that the supplier need not pay for network components or facilities that it does not require for the service to be provided'. On both points, the Panel Report in *Mexico – Telecoms*²³⁰ provides some guidance.

As regards Section 1 of the Reference Paper, the Panel found that 'anti-competitive practices' are 'actions that lessen rivalry or competition in the market'. 231 UNWP could reduce competition by preventing NBN Co from pricing lower in highly populated centres, when lower pricing by NBN Co could increase rivalry between services supplied over NBN Co's FTTP network and services supplied over other networks. UNWP will effectively entail a cross-subsidy from these cities to regional areas where costs and therefore prices would otherwise be higher. UNWP may also reduce competition in these regional areas because the artificially low prices will preclude other entrants. According to the Panel's reasoning, the fact that NBN Co would be required by law to engage in UNWP would not prevent UNWP from amounting to an anti-competitive practice, and by legally requiring such a practice Australia would not be maintaining appropriate measures to prevent this practice.²³² This interpretation seems necessary to avoid Members circumventing their obligations by simply requiring anti-competitive behaviour instead of taking measures to prevent it.²³³ However, the Panel's findings in *Mexico – Telecoms* were carefully circumscribed to the Mexican measures before it, which required the major supplier Telmex to fix certain telecommunications prices by negotiation with other suppliers. ²³⁴ NBN Co, in contrast, would not be fixing prices together with other suppliers; rather, it would be maintaining a uniform price on its own services supplied across the country. Arguably, this would not lessen competition to the same degree and would not violate Section 1 of the Reference Paper.

Memorandum (2011) 48; Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011 (Cth), new s151DA.

SAFTA, ch 10, arts 7, 9(2); AUSFTA, art 12.8; CAFTA, art 11.8; AANZFTA, Annex on Telecommunications, art 4.

Panel Report, *Mexico – Measures Affecting Telecommunications Services*, WT/DS204/R (circulated 2 April 2004, adopted 1 June 2004) ('*Mexico – Telecoms*).

²³¹ Panel Report, *Mexico – Telecoms*, [7.230].

²³² Panel Report, *Mexico – Telecoms*, [7.245], [7.266].

Panel Report, *Mexico – Telecoms*, [7.244]; Damien Neven and Petros Mavroidis, 'El Mess in *TELMEX*: A Comment on Mexico – Measures Affecting Telecommunications Services' (2006) 5 *World Trade Review* 271, 294.

Panel Report, *Mexico – Telecoms*, [7.267].

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

As regards Section 2.2(b) of the Reference Paper, the Panel in Mexico - Telecoms found that 'cost-oriented' rates do 'not need to equate exactly to cost, but should be founded on cost', 235 being the cost incurred in providing the relevant service. 236 The Panel also found that the term 'cost-oriented rates' is a technical term with a special meaning pursuant to Article 31(4)²³⁷ of the Vienna Convention on the Law of Treaties ('VCLT'). 238 UNWP could be properly founded on cost, if the relevant market is seen as the Australian market as a whole and the costs of servicing the entire country are taken into account in determining prices. Although a geographically segmented approach to telecommunications regulation (deregulating in areas of high competition but not in areas of low competition) may allow a more accurate targeting of specific competitive circumstances, the OECD has indicated that this kind of approach will typically lead to more complex regulation, with an uncertain impact on competition.²³⁹ Thus, a reasonable argument exists for treating the relevant geographic market for NBN Co's services as a national market and therefore for adopting UNWP. Indeed, '[r]egulatory authorities in most OECD countries ... have traditionally adopted a national geographic area focus when framing the geographic scope of telecommunications markets', 240 and 'uniform pricing ... has been an important feature of universal service policy in many countries'. 241

B Levelling the Playing Field, or Preventing Cherry-Picking

As NBN Co is required to deploy a nationwide network and adopt UNWP, a 'major risk' to the viability of the NBN is 'cherry picking' by competing suppliers. Specifically, if another entity built an FTTP network it could focus solely on areas of high revenue and low cost (typically, populous centres) and undercut NBN Co in those areas. Although such an approach would represent facilities-based competition and could benefit consumers through cheaper services, some contend that these competitive benefits are outweighed by the detriment to NBN Co and, in turn, to the government's goal of providing universal access to an FTTP network at reasonable cost.²⁴²

In addressing this perceived problem, the Australian government identified six policy objectives of the NBN: (i) to provide customers with 'high-quality superfast broadband services', preferably via an FTTP network; (ii) to provide for nationwide availability of those services (the 'coverage objective); (iii) to ensure UNWP; (iv) to ensure competition in the wholesale supply of broadband

Panel Report, *Mexico – Telecoms*, [7.174].

²³⁵ Panel Report, *Mexico – Telecoms*, [7.168].

Panel Report, *Mexico – Telecoms*, [7.169].

²³⁸ 1155 UNTS 331 (adopted 22 May 1969).

OECD Working Party on Communication Infrastructures and Services Policy, *Geographically Segmented Regulation for Telecommunications*, DSTI/ICCP/CISP(2009)6/FINAL (22 June 2010) 66-67.

OECD Working Party on Communication Infrastructures and Services Policy, *Geographically Segmented Regulation for Telecommunications*, DSTI/ICCP/CISP(2009)6/FINAL (22 June 2010) 8.

OECD Working Party on Communication Infrastructures and Services Policy, *Geographically Segmented Regulation for Telecommunications*, DSTI/ICCP/CISP(2009)6/FINAL (22 June 2010) 71.

See, eg, McKinsey/KPMG, National Broadband Network Implementation Study (6 May 2010) 48, 439.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

infrastructure and services to support a 'vibrant and competitive' retail market (the 'competition objective'); (v) to provide equitable access to the services as far as possible (the 'equity' objective); and (vi) to ensure that NBN Co 'can operate on a commercially sustainable basis' (the 'sustainability' objective). ²⁴³ The government explained that legislative provisions were required to level the playing field for the supply of superfast broadband services because of the impact of cherry-picking on these interrelated objectives:

if the pricing objective is to be delivered through NBN Co being required to implement an internal cross-subsidy, other fibre providers could select to roll-out fibre in low-cost, high-revenue markets and offer potentially cheaper wholesale prices – effectively cherry-picking NBN Co's revenue streams. While such an outcome would be consistent with the Government's competition objective, it would impact on NBN Co's ability to deliver the coverage, equity and sustainability objectives.²⁴⁴

The legislation as enacted addresses this problem by requiring entities installing infrastructure to supply superfast telecommunications services to the public to meet the same or similar technical specifications as NBN Co. In addition, these entities will be required to offer wholesale only services. This response to cherry-picking is preferable, from the perspective of competition (and international trade law), to the levy that the government considered and left in reserve. However, the relevant provisions still risk reducing competition and consumer benefits, by limiting suppliers' freedom in choosing relevant technologies and having to accept standards built on technical specifications of NBN Co. In implementing these provisions, Australia will need to comply with its obligation under GATS Article VI:5(a) not to 'apply licensing and qualification requirements and technical standards' that are 'more burdensome than necessary to ensure the quality of the service'.

Further difficulties with the level playing field provisions arise from the differential treatment of NBN Co and its potential facilities-based competitors. Under these provisions, NBN Co's competitors have exemptions from the wholesale-only requirement to enable them to supply

²⁴³ Parliament of the Commonwealth of Australia, The Senate, *National Broadband Network Companies Bill* 2010, Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2011 – Revised Explanatory Memorandum (2011) 48.

Parliament of the Commonwealth of Australia, The Senate, National Broadband Network Companies Bill 2010, Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2011 – Revised Explanatory Memorandum (2011) 48.

Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011 (Cth) sch 1, part 8.

Parliament of the Commonwealth of Australia, The Senate, National Broadband Network Companies Bill 2010, Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2011 – Revised Explanatory Memorandum (2011) 58, 60, 61.

Parliament of the Commonwealth of Australia, The Senate, *National Broadband Network Companies Bill* 2010, Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Bill 2011 – Revised Explanatory Memorandum (2011) 56.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

services directly to utilities, ²⁴⁸ just as NBN Co does. ²⁴⁹ However, the legislation also provides NBN Co with several significant exemptions from domestic competition laws, ²⁵⁰ while no corresponding exemptions are granted to NBN Co's competitors. These exemptions from competition laws implicitly acknowledge the likely anti-competitive effects of several of the practices identified in this article as potentially problematic under international trade law, namely: (i) refusing to permit interconnection at a point not already established and listed; (ii) bundling of telecommunications services; and (iii) cross-subsidisation in connection with UNWP.

Granting to NBN Co an exemption from certain competition law disciplines while refusing an equivalent exemption to would-be competitors of NBN Co could violate Australia's obligation under Section 5 of the Reference Paper to ensure that its telecommunications regulators act impartially, in their decisions and procedures, with respect to all market participants. This differential regulatory treatment might also breach Australia's national treatment obligations under GATS Article XVII, in that Australia is according 'to services and service suppliers of any other Member' (including foreign suppliers contemplating establishing a superfast broadband network in Australia) 'treatment ... less favourable than that it accords to its own like services and service suppliers', NBN Co in particular.²⁵¹

VII EXCEPTIONS TO GATS OBLIGATIONS

The GATS contains a number of exceptions to the obligations it imposes, and these exceptions would apply to the obligations incorporated in Australia's GATS Schedule by virtue of the Reference Paper, because Members' GATS Schedules 'form an integral part' of the GATS.²⁵² Of potential relevance to telecommunications regulations are the GATS exceptions for measures 'necessary to protect public morals or to maintain public order' (Art XIV(a)), 'necessary to protect human ... life or health' (Art XIV(b)), or 'necessary to secure compliance with laws or regulations which are not inconsistent with the provisions of this Agreement', including those relating to privacy, confidential information, or safety (Art XIV(c)). However, to the extent that the operations or regulation of NBN Co may violate Australia's GATS obligations, these exceptions are unlikely to assist. For example, even though the NBN may lead to educational or health benefits, and issues may arise concerning private or obscene material transmitted via its network, these factors would not justify restricting the number of Pols or otherwise shielding NBN Co from competition.

²⁴⁸ Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011 (Cth) sch 1, part 8.

²⁴⁹ See above n 89-91 and corresponding text.

²⁵⁰ Telecommunications Legislation Amendment (National Broadband Network Measures – Access Arrangements) Act 2011 (Cth), new s151DA.

GATS, art XVII:1.

Draft (23 June 2011)

for forthcoming publication in (2011) 35(2) Melbourne University Law Review

Similarly, although GATS provides an exception for national security, the NBN would fall outside the terms of that exception. Under GATS Art XIVbis(b), for instance, a Member may 'tak[e] any action which it considers necessary for the protection of its essential security interests', but this is subject to the qualification that the matter relates to 'the supply of services ... for the purpose of provisioning a military establishment' or 'fissionable and fusionable materials' or is 'taken in time of war or other emergency in international relations'. The NBN may be seen as enhancing national security, but as a whole it cannot be seen as necessary for the protection of Australia's essential security interests within the narrow meaning of GATS Art XIVbis.

VIII CONCLUSION

The Australian government is clearly aware of the need for the NBN to comply with international trade law: its 2008 request for proposals to operate an NBN (later abandoned) specified that proposals would be assessed against Australia's international obligations including under the GATS, bilateral trade agreements, investment agreements and customary international law.²⁵³ The Australian government (and NBN Co itself) must indeed consider this relationship, given that, around the world, interested service providers and their governments will be monitoring Australia's compliance with its international trade obligations as it implements the NBN. 254 This article has demonstrated the nuances and complexities of international trade law and the resulting uncertainty in its application to the NBN. On the one hand, Australia may regard this uncertainty as a shield, reducing the likelihood of WTO complaints by foreign services suppliers against the NBN. On the other hand, the potential for reasonable arguments to be made on both sides of the law (and, in particular, the reasonable claim that the approach to determining and reviewing Pols and the level playing field provisions violate WTO law and corresponding provisions in Australian PTAs) makes transparency in the creation and implementation of the NBN even more crucial. Putting aside both politics and economics, from a purely legal perspective NBN Co and the Australian government must take their international trade law obligations seriously and undertake detailed, publicly-accessible analysis of these obligations to ensure Australia's compliance.

-

Department of Broadband, Communications and the Digital Economy, *Request for Proposals to Roll-Out and Operate a National Broadband Network for Australia*, DCON/08/18 (11 April 2008) 12-13.

See, eg, United States Trade Representative, 2010 National Trade Estimate Report on Foreign Trade Barriers (2010) 27; United States Trade Representative, Results of the 2010 Section 1377 Review of Telecommunications Trade Agreements (2010) 8.