Appendix A

Right of Way Codes in the U.S.

Compiled through original research by NTIA, with reliance on existing research by NARUC and NATOA. http://www.ntia.doc.gov/ntiahome/staterow/rowtableexcel

States	Jurisdiction	Right of Way Compensation Code
Alabama	Ala. Code § 11-49-1 (2002): Requires consent from city or town authorities before using public lands for the construction or operation of any private utility or private enterprise. Ala. Code § 11-50-B-3 (2002): Government agencies at the state and local level have the authority to manage public rights-of-way, and to require fair and reasonable compensation from telecommunications providers for the use of such rights-of-way.	Ala. Code § 11-50-B-3 (2002): Fair and reasonable compensation to municipalities for use of ROW is allowed. Ala. Code § 40-21-50 (2002): Telecommunications providers subject to 2.2% state gross receipts tax. Ala. Code § 40-21-64 (2002): Counties prohibited from levying privilege/license tax.
Alaska	Alaska Stat. § 29.35.010 (2002): Municipalities granted the power to regulate rights of way. Alaska Stat. § 38.05.810(e) (2002): The Director of the Mining, Land and Water Division may negotiate with licensed public utilities or common carriers for the lease, sale, or other disposal of state land. Such negotiations must have the approval of the commissioner, and may only be entered into if the utility or carrier reasonably requires the land to conduct its business.	Alaska Stat. § 42.05.251 (2002): Fee not to exceed actual cost to the municipality of the utility's use of the public way and of administering the permit program. Utilities may recover fee costs by applying them to customers' utility bills as a surcharge.
Arizona	Ariz. Rev. Stat. §§ 9-581 - 9-583; Ariz. Rev. Stat. § 9-583(A) (2001): A political subdivision (city, county, municipality, etc.) has the authority to manage its public highways and exercise its police powers, but may not exercise such power to prohibit the ability of any telecommunications company to provide its service.	Ariz. Rev. Stat. § 9-582(B) (2001): Any application or permit fees must be related to the costs incurred by processing the application, and must also be assessed within a reasonable amount of time after those costs are incurred. Ariz. Rev. Stat. § 9-582(D) (2001): Arizona permits a political subdivision and a telecommunications licensee or franchisee to agree to an in-kind arrangement, but the costs of the in- kind facilities offset the provider's obligation to pay local transaction privilege taxes or linear foot charges (applicable to interstate

States	Jurisdiction	Right of Way Compensation Code
States	Jurisdiction Jurisdiction	Right of Way Compensation Code services) and must be equal to or less than the taxes or charges. Ariz. Rev. Stat.§ 9-582(D) (2001): "The in-kind facilities shall remain in possession and ownership of the political subdivision after the term of the existing license or franchise expires." Ariz. Rev. Stat. § 9-582(D) (2001): "Notwithstanding subsections A and B of this section, in a license or franchise, a political subdivision and a telecommunications corporation may agree to in-kind payments for use of the public highways different from those specified in subsection A or B of this section." Ariz. Rev. Stat. § 9-582(E) (2001): " The license or franchise shall be structured so that the in-kind payments made for use of the public highways to provide interstate telecommunications services under the license or franchise are less than or equal to and are offset against any linear foot charge owed pursuant to section 9-583, subsection C, paragraphs 2 and 3." Ark. Code Ann. § 14-200- 101(a)(1)(A) (2002): Local franchise fees not to exceed 4.25% of gross receipts from local service or higher amount agreed to by affected provider OR the voters. Ark. Code Ann. § 14-200- 101(a)(1)(D) (2002): Affected utilities may recover fee costs by charging customers an amount equal to the right-of-way fee.
	telephone cooperative, private cable	0 0
Colorado	Colo. Rev. Stat. §§ 38-5.5-101 - 38-	Colo. Rev. Stat. § 38-5.5-107(1)(b)

States	Jurisdiction	Right of Way Compensation Code
	5.5-108; 38-5.5-104 (2002): Any telecommunications provider authorized to do business in Colorado may construct facilities on state public lands upon payment of just compensation and compliance with the requirements set by the state Board of Land Commissioners.	(2002): Any application or permit fees must be related to the costs incurred by processing the application, and must also be assessed within a reasonable amount of time after those costs are incurred. Colo. Rev. Stat. §38-5.5-107(3) (2002): In-kind fee provisions are not allowed, nor may a municipality require one as a condition of consent to use a highway.
Connecticut	Conn. Gen. Stat. § 7-130d (2001). Municipalities are granted authority to regulate right-of-way. Conn. Gen. Stat. § 7-148 (2001). Municipalities may regulate installation of facilities and control excavation procedures. Conn. Gen. Stat. § 16-228 (2001): Telecommunications companies may construct their lines along public roads or navigable waters, as long as such construction does not obstruct the roads or waters.	Conn. Gen. Stat. § 7-130 (2001). Municipalities are granted authority to charge fees.
Delaware	Del. Code Ann. tit. 26, § 901 (2002): Local authorities are explicitly granted authority over right-of-way management. Del. Code Ann. tit. 22, § 103 (2002): "Street openings. No person shall open or excavate the bed of any street or highway of any city, town or village in this state for the purpose of laying or placing pipes, wires or other conductors therein without first obtaining the consent of the duly constituted authorities of such city, town or village. Nothing in this section shall require such consent before opening or excavating the bed of any such street or highway for the purpose of repairing any pipes, wires or other conductors theretofore lawfully laid	Del. Code Ann. tit. 30, § 5501 (2002): 4.25% Gross Receipts Tax assessed by PSC on intrastate telecommunications services, including cellular service. Providers may pass through to customers. Del. Code Ann. tit. 30, § 5502(4) (2002): "A tax is imposed upon any distributor of cable television communications commodities and services which tax shall be at the rate of 2.125% of the gross receipts or tariff charges received by the distributor for such commodities or services distributed within this state." Del. Code Ann. tit. 26, § 115 (2002): Gross revenues assessment on all public utilities for cost of regulation. Del. Code Ann. tit. 8, § 501-518

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	or placed in such street or highway."	(2002): Corporate Franchise Tax:
		"Every telegraph, telephone or cable
		company to be incorporated
		under the laws of this state, shall pay
		an annual tax, for the use of the
		state, by way of license for the
		corporate franchise as prescribed in
Da		this chapter."
DC	D.C. Code Ann. § 10-1141.03	D.C. Code Ann. § 10-1141.04
	(2002). The Mayor may issue	(2002): Right-of-way access permit
	permits to occupy or otherwise use	fees to cover costs of reviewing
	public rights-of-way, public space,	permit applications. "The Mayor
	and public structures for any	may allow a permittee to pay a fixed
	purpose. He may do so without regard to whether the permittee	charge for a set period of time, pay an amount based upon the amount
	owns the property abutting the	of the public right-of-way or public
	public areas, and he may revoke the	space used or occupied, pay an
	permit at any time. Any leasing or	amount based upon a revenue
	subleasing of the public areas must	sharing formula, or provide in-kind
	be with the express consent of the	services to the District in lieu of a
	mayor. When a permit is revoked or	monetary payment, or the Mayor
	expires, the Mayor may require the	may require a permittee to pay a
	permittee to remove any apparatus	combination of these items."
	constructed in the public areas.	D.C. Code Ann. § 47-2501(3)
	D.C. Code Ann. § 43-1454(a) (2002):	(2002): "After May 31, 1994, pay to
	"Any telecommunications provider	the Mayor 10% of these gross
	in the District shall have the right to	receipts from sales included in bills
	utilize the public right-of-ways of	rendered after May 31, 1994, for a
	the District for installation,	telephone company"
	maintenance, repair, replacement,	
	and operation of its	
	telecommunications system"	
Florida	Fla. Stat. Ch. 202.10-202.41 (2002)	Fla. Stat. Ch. 202.10-202.41 (2002)
	COMMUNICATIONS SERVICES	COMMUNICATIONS SERVICES
	TAX SIMPLIFICATION LAW	TAX SIMPLIFICATION LAW
	Prohibits municipalities and counties	Municipalities & counties may
	from requiring a	charge permit fees to recover actual
	telecommunications company to enter franchise, license or other	costs (not to exceed \$100) and tax rate reduced by .12%. If no permits,
	agreements. Municipal and county	may increase tax rate by .12%.
	right-of-way rules and regulations	Fla. Stat. Ch. 202.10-202.41 (2002)
	may only address placement and	Florida enacted a harmonized state
	maintenance of facilities. Requires	and local communications services
	local governments to provide notice	tax system, which functions as a
	of proposed right-of-way ordinances	sales or use tax assessed on the retail
	to FL Department of state.	price of telecommunications
	to - 2 2 operation of states	

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		services. Fla. Stat. Ch. 337.401(3)(c),
		(2002). The local tax component
		varies by locality. Of the combined
		state and local tax rate (which can
		exceed 10%), 0.24% is earmarked to
		replace permit fees foregone by local
		governments that opt to participate
		in the tax collection system instead
		of collecting fees.
		Fla. Stat. Ch. 202.24(2) (2002).
		Prohibits in kind compensation.
Georgia	Ga. Code Ann. § 32-4-92 (2002).	Ga. Code Ann. § 46-5-1(a) (2002): A
	Authorizes permitting authority of	telecom company may have right-of-
	local governments. Locals may	way access to construct and maintain
	establish reasonable regulations for	its lines over any state lands,
	the installation and construction of	railroads, or private lands as long as
	facilities in right-of-way, but the	it pays due compensation for such
	regulations may not be more	
	stringent than those enforced by the	Ga. Code Ann. § 48-5-423 (2002):
	Dept of Transportation to regulate	"Ascertainment of valuations of
	state highway right-of-way. The	special franchises; levy and
	locality may require a written	collection of tax. (a) In arriving at a
	application specifying the nature, extent and location of the facilities in	proposed assessment, the commissioner shall not be bound to
	the area. They may also require the applicant to furnish indemnification	accept the valuation fixed for a special franchise in the return made
	bond or other acceptable security to	but shall review the return and
	pay for any damage to public road or	valuation. When the commissioner
	member of the public.	refuses to accept the return, the
	Ga. Code Ann. § 46-5-1(a) (2002):	subsequent proceedings shall be in
	Any telecom company has the right	all particulars the same procedures
	to construct, maintain, or operate its	as are provided by law in the case of
	lines along the state public highways,	refusal to accept the returns made by
	as long as the local municipal	public utilities of their tangible
	authorities approve.	property. (b) Special franchises shall
	11	be taxed at the same rate as other
		property upon the value of the
		special franchise as returned or upon
		the value determined by the county
		board of tax assessors. The tax on
		special franchises shall be levied and
		collected in the same manner as is
		provided by law in the case of the
		tangible property of public utilities."
Hawaii	Haw. Rev. Stat. § 264-13 (2002).	Haw. Rev. Stat. § 264-7(b) (2002):
	The governor or the director of	The director of transportation

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	transportation may dispose of	established the fee schedule for
	easements or rights-of-way along	permits. The fee schedule should be
	state highways under any terms that	calculated to recover any costs spent
	are within the public interest.	on issuing the permit. The applicant
		shall pay the fee, but the director
		may waive the fee where he
		determines that the work to be done
		will improve the highway or
		otherwise benefit the state. No fee
		is required where the only work to
		be done is the setting of poles to
		carry overhead wires.
Idaho	Idaho Code § 62-618 (2002):	Idaho Code § 50-329A (2002).
	Municipalities are not permitted to	Municipal franchise fees may be
	regulate telecommunications	levied on providers, but levy may
	companies.	not exceed 3% of gross operating
	Idaho Code § 62-701 (2002):	revenues; providers may pass
	Telecommunications providers may	through to customers. This franchise
	erect facilities and structures on any	fee is in lieu of any other tax or fee
	public lands, including along public	imposed by the municipality related
	roads, waterways, or other lands, as	to easements, franchises, rights of
	long as those facilities don't disrupt	way, utility lines and equipment.
	the use of such roads, etc. Idaha Code 8 62 701 \wedge (2) (2002):	Idaho Code §§ 61-1001 & 1004
	Idaho Code § 62-701A(2) (2002):	(2002). Utilities pay yearly gross revenue fee to the Public Utilities
	"With respect to the installation of its facilities within public rights-of-	Commission to reimburse for cost
	way, the telecommunications	of regulation. This fee is based
	provider shall at all times be subject	upon a consideration of the time
	to the authority of a city, county or	and expense devoted to the
	highway district. No grant of	supervision and regulation of each
	authority pursuant to this section	class of public utilities during the
	shall be deemed to waive other	preceding calendar year, including
	rights or requirements of the codes,	salaries and wages of the
	ordinances or resolutions of a city,	commissioners and employees and
	county or highway district regarding	all other necessary and lawful
	permits, reasonable fees to be paid,	expenditures of the commission.
	manner of construction, or the like,	1
	nor to grant any property interest in	
	the public rights-of-way."	
Illinois	None Indicated	35 Ill. Comp. Stat. 635/5 (2002):
		Recognizing that
		telecommunications providers were
		becoming more competitive, the
		Illinois General Assembly abolished
		municipal franchise fees and
		established a uniform municipal

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		infrastructure maintenance fee.
		Although this fee is meant to replace
		the revenue that municipalities lost
		from the franchise fees, the statute
		provides that the fee may not be
		related to the use of public rights-of-
		way or to the costs of maintaining
		and regulating such use.
		35 Ill. Comp. Stat. 636/5-60
		(2002): With the implementation of
		the municipal infrastructure
		maintenance fee, municipalities were
		deemed to have waived their rights
		to any compensation that might
		subsequently accrue under a
		franchise agreement executed before
		January 1, 1998, if: 1) the
		municipality imposes a tax at a rate
		exceeding 5% ; 2) the municipality
		affirmatively waives such fees; or 3)
		the municipality has a municipal
		infrastructure maintenance fee in
		place.
		35 Ill. Comp. Stat. 635/15 (2002):
		The state fee portion of the
		municipal infrastructure
		maintenance fee is .05% of the gross
		retail revenues.
		35 Ill. Comp. Stat. § 635/20 (a), (b)
		(2002): The municipality's portion
		of the municipal infrastructure
		maintenance fee may not exceed 1%
		of gross retail revenues in areas with
		a population of 500,000 or less, or
		2% in areas with a population of
		500,000 or more.
		35 Ill. Comp. Stat. 635/30 (2002):
		With the implementation of the
		municipal infrastructure
		maintenance fee, municipalities may
		no longer assess franchise fees or
		other charges on
		telecommunications providers.
Indiana	Ind. Code § 8-1-2-101(b) (2002):	Ind. Code § 8-1-2-101(b) (2002):
	Municipalities or county executives	Compensation may not exceed the

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	roads and other lands for the benefit	of managing the right-of-way for the
	of public safety. They may also	public utility. These costs shall be
	manage the rights-of-way associated	assigned individually to the public
	with the public roads or other lands,	utility creating the costs.
	and may require compensation for	Ind. Code § 8-1-2-101(b) (2002):
	their use. Such compensation must	Management costs may include the
	be competitively neutral and non-	costs of: 1. Registering occupants; 2.
	discriminatory.	Verifying occupation; 3. Inspecting
		job sites and restoration projects; 4.
		Restoring work inadequately
		performed; 5. Administering a restoration ordinance that ensures
		the right-of-way will be returned to
		its original condition; and 6. any
		management costs associated with
		the implementation of any other
		ordinance associated with rights-of-
		way. These costs may not include
		rents, franchise fees, or any other fee
		paid by a public utility for
		occupation of the right-of-way.
Iowa	Iowa Code § 364.2(4)(a) (2002): "A	Iowa Code § 480A.3 (2002): The
	city may grant to any person a	only fee that a municipality can
	franchise to erect, maintain, or	recover from a utility are those
	operate plants and systems [for	management costs caused by the
	telecommunications systems and	utility's occupation of the right-of-
	other utilities] within the city for	way. If the management costs are
	a term of not more than 25 years.	attributed to more than one entity, the costs shall be allocated
	When considering whether to grant, amend, extend, or renew a franchise,	proportionately to the users of the
	a city shall hold a hearing. The	right-of-way. Any other obligations
	franchise may be granted, extended,	must be imposed on a competitively
	or renewed only by an ordinance,	neutral basis.
	but no exclusive franchise shall be	Iowa Code § 480A.4 (2002): A
	granted	municipality may not allow in-kind
	Iowa Code § 477.1 (2002): Any	services in lieu of fees, nor may it
	telecommunications provider may	require in-kind services as a
	construct its system along the public	condition for use of the right-of-
	roads, along public waterways, or	way.
	through public or private lands.	
	However, construction along a	
	primary road is subject to rules	
	adopted by the state department of	
	transportation.	
	Iowa Code § 480A.1- § 480A.6	
	(2002). § 480A.1: "Purpose. The	

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	general assembly finds that it is in	
	the public interest to define the right	
	of local governments to charge	
	public utilities for the location and	
	operation of public utility facilities in	
Kansas	local government rights-of-way." Kan. Stat. Ann. § 17-1902(B) (2002) (Amended by Senate Bill 397, effective Jul 1, 2002): Any provider	Kan. Stat. Ann. § 17-1902(N) (2002) (Amended by Senate Bill 397, effective Jul 1, 2002). A city may
	has the right to construct systems and related facilities along the state's	charge for the reasonable, actual, and verifiable costs of managing the
	public rights-of-way. The systems and facilities must be constructed so as not to obstruct other entities' use	city right-of-way. Fees may include: a permit fee, excavation fee, inspection fee, repair and restoration
	of the rights-of-way. Kan. Stat. Ann. § 17-1902(k) (2002)	costs, performance bond. Kan. Stat. Ann. § 17-1902(h) (2002)
	(Amended by Senate Bill 397, effective Jul 1, 2002): A city may	(Amended by Senate Bill 397, effective Jul 1, 2002): A city may
	require a telecommunications provider to repair all damage to a	not require a telecommunications company to provide it with in-kind
	right-of-way cause by the use of that	services.
	right-of-way. If the provider fails to	Kan. Stat. Ann. § 12-2001(g), (j).
	make such repairs, the city may	Each city may assess a one-time
	effect the repairs and charge the provider for their cost.	franchise application fee to cover
	provider for their cost.	the costs of reviewing the application. It may also impose
		either an access line fee of up to
		\$2.00 per access line per month, or a
		gross receipts fee of up to 5% on local services.
Kentucky	Ky. Rev. Stat. Ann. § 278.540	Ky. Rev. Stat. Ann. § 278.540(1)
	(2002): Once just compensation has	(2002): Just compensation for right-
	been made, the provider gains the	of-way access is authorized.
	right to construct, maintain and	Ky. Rev. Stat. Ann. § 278.130
	operate its lines through any public	(2002): Cities are prohibited from
	lands of this state and across and	assessing occupational license tax on
	along any public road.	public utilities. Instead, PSC assesses annual license tax on utilities.
Louisiana	La. Rev. Stat. Ann. § 48:381.1(C)	La. Rev. Stat. Ann. § 48:381.2 (A)(2),
	(2002). Providers requesting access	(2002): When fiber optic cable
	to state highways must apply for a	providers apply for permits, their
	right-of-way access permit with the	application commits them to a one-
	PSC chief engineer.	time permit fee.
	La. Rev. Stat. Ann. § 48:381.3(A)(2)	La. Rev. Stat. Ann. § 48:381.2(F)
	(2002). Providers seeking access to	(2002): In-kind services (shared
	locally controlled right-of-way are	resources) may help defray permit

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	subject to the ordinances and	fee costs for providers. "F. The fee
	resolutions of the locality where they	for fiber-optic telecommunication
	are located.	installations placed within a
		controlled access highway right-of-
		way shall not exceed the actual cost
		of the administration of the
		program. The department may
		reduce fees in exchange for shared
		resources. The department is
		authorized to reduce fees for its
		agents, defined for the purposes of
		this Subsection as those applicants
		who erect facilities on behalf of the
		department in order to conduct
		department work."
Maine	Me. Rev. Stat. Ann. tit. 35-A § 2502	Me. Rev. Stat. Ann. tit. 35-A §§
	(2001): Statutes specifically designate	2503, 2510 (2001): There are two
	licensing authority among municipal,	permits, the right-of-way location
	county, and state governments,	permit and the right-of-way
	based on the location of the right-	excavation permit. Each one has its
	of-way.	own fee.
	Me. Rev. Stat. Ann. tit. 35-A §§	Me. Rev. Stat. Ann. tit. 35-A § 2510-
	2503-2505 (2001): Permits may	1 (2001): Local excavation fees may
	require description of facilities.	not exceed the reasonable cost of
	Terms and conditions of permits	replacing the excavated pavement.
	may specify other requirements determined necessary in the best	
	interests of the public safety and use	
	of the right-of-way so as not to	
	obstruct use for public travel.	
Maryland	Md. Ann. Code art. 23A, § 2(13)	None indicated.
iviai ylanu	(2002): Municipalities have the	Tione mulcated.
	express power to grant exclusive or	
	non-exclusive franchises to a	
	community antenna system or cable	
	systems that use rights-of-way. The	
	municipality may impose franchise	
	fees and establish rates, rules and	
	regulations for the franchises.	
Mass.	Mass. Gen. Laws Ann. ch. 166 § 25	Mass. Gen. Laws Ann. ch. 166 §
	(2002): Municipalities may permit	25A (2002): The
	construction of telecommunications	telecommunications and energy
	systems in public areas, and they	department has the authority to set
	may also establish reasonable	rates for right-of-way use, and in
	regulations for the construction and	setting those rates the department
	maintenance of telecommunications	must consider consumer interests.

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	systems, as well as other public	Mass. Gen. Laws Ann. ch. 166 §25A
	utility systems.	(2002): The telecommunications
	Mass. Gen. Laws Ann. ch. 166 § 22	and energy department shall set
	(2002): Providers must provide	reasonable rates for
	written notice of intent to access	telecommunications attachments to
	right-of-way for construction	existing right-of-way. The rates shall
	purposes. The municipality must	not be lower than the cost to the
	hold a hearing and issue written	utility providing the existing facility,
	notice of the hearing. After the	nor more than the proportional cost
	hearing, the municipality may grant	of the attachment.
	to the provider a location for the	
	lines and allowances for the number	
	and height of the lines to be	
	installed.	
	Mass. Gen. Laws Ann. ch. 166 §	
	25A (2002): Any municipal	
	regulations pertaining to the	
	installation or construction of	
	telecom lines must be approved by	
	the state Department of	
	Telecommunications and Energy.	
	Mass. Gen. Laws Ann. ch. 166 § 38	
	(2002): Penalties for intentional or	
	malicious injury of telecom facilities	
	in right-of-way.	
Michigan	Mich. Comp. Laws Ann. §§	Mich. Comp. Laws Ann. § 484.3108
0	484.3101-484.3120 (2002)	(2002) Maintenance fee. "(3)
	Metropolitan extension	Except as otherwise provided under
	telecommunications rights-of-way	subsection (6), for the period of
	oversight act. § 484.3103: "(1)	November 1, 2002 to March 31,
	Pursuant to section 27 of article VII	2003, a provider shall pay an initial
	of the state constitution of 1963 and	annual maintenance fee to the
	any other applicable law, the	authority on April 29, 2003 of 2
	metropolitan extension	cents per each linear foot of public
	telecommunications rights-of-way	right-of-way occupied by the
	oversight authority is established as	provider's facilities within a
	an autonomous agency within the	metropolitan area, prorated for the
	department of consumer and	period specified in this subsection.
	industry services."	(4) Except as otherwise provided
	Mich. Čomp. Laws Ann. § 484.3115	under subsection (6), for each year
	(2002): Municipalities shall grant	after the initial period provided for
	providers a permit to use any public	under subsection (3), a provider shall
	rights-of-way located within the	pay the authority an annual
	municipal jurisdiction. If an	maintenance fee of 5 cents per each
	application involves an easement or	linear foot of public right-of-way
	public place, then the municipality	occupied by the provider's facilities
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	should act promptly in granting the	within a metropolitan area. (5) The
	permit.	fee required under this section is
		based on the linear feet occupied by
		the provider regardless of the
		quantity or type of the provider's
		facilities utilizing the public right-of-
		way or whether the facilities are
		leased to another provider. (6) In
		recognition of the need to provide
		nondiscriminatory compensation to
		municipalities for management of
		their rights-of-way, the fees required
		under this section shall be the lesser
		of the amounts prescribed under
		subsections (3) and (4) or 1 of the
		following: (a) For a provider that
		was an incumbent local exchange
		carrier in this state on January 1,
		2002, the fees within the exchange in
		which that provider was providing
		basic local exchange service on
		January 1, 2002, when restated by
		the authority on a per access line per year basis, shall not exceed the
		statewide per access line per year fee
		of the provider with the highest
		number of access lines in this state.
		The authority shall annually
		determine the statewide per access
		line per year fee by dividing the
		amount of the total annual fees the
		provider is required to pay under
		subsections (3) and (4) by the
		provider's total number of access
		lines in this state. (b) For all other
		providers in an exchange, the fee per
		linear foot for the provider's
		facilities located in the public rights-
		of-way in that exchange shall be the
		same as that of the incumbent local
		exchange carrier.
		Mich. Comp. Laws Ann. § 484.3106
		(2002): When applying for a
		municipal permit, a provider must
		pay a \$500 application fee. This fee
		must be paid to each municipality

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		where the provider needs access to a
		right-of-way.
Minnesota	Minn. Stat. § 237.04 (2002): The	Minn. Stat. § 237.163(6)(a) (2002):
	Minn. Department of Commerce	"A local government unit may
	has the authority to establish rules	recover its right-of-way management
	for the use of right-of-way by public	costs by imposing a fee for
	utilities. These rules shall include	registration, a fee for each right-of-
	regulations for construction,	way permit, or, when appropriate, a
	maintenance, and operation of	fee applicable to a particular
	facilities along right-of-ways.	telecommunications right-of-way
	Minn. R. 7819.4000 (2002)	user when that user causes the local
	Municipalities may establish a right-	government unit to incur costs as a
	of-way mapping system to facilitate	result of actions or inactions of that
	right-of-way management, enhance public safety, improve right-of-way	user. A local government unit may not recover from a
	design, and encourage cooperation	telecommunications right-of-way
	between municipalities.	user costs caused by another entity's
	MINNESOTA	activity in the right-of-way."
	ADMINISTRATIVE CODE,	Minn. Stat. § 237.163(6)(b) (2002):
	PUBLIC UTILITIES	"Fees, or other right-of-way
	COMMISSION,	obligations, imposed by a local
	CHAPTER 7819 PUBLIC	government unit on
	RIGHTS-OF-WAY STANDARDS	telecommunications right-of-way
		users under this section must be: (1)
		based on the actual costs incurred by
		the local government unit in
		managing the public right-of-way;
		(2) based on an allocation among all
		users of the public right-of-way,
		including the local government unit
		itself, which shall reflect the
		proportionate costs imposed on the
		local government unit by each of the
		various types of uses of the public
		rights-of-way; (3) imposed on a
		competitively neutral basis; and (4)
		imposed in a manner so that aboveground uses of public rights-
		of-way do not bear costs incurred by
		the local government unit to regulate
		underground uses of public rights-
		of-way."
		Minn. Stat. § 237.163(7)(d) (2002):
		"A local government unit may not
		collect a fee imposed under this
		section through the provision of in-

States	Jurisdiction	Right of Way Compensation Code
		kind services by a
		telecommunications right-of-way
		user, nor may a local government
		unit require the provision of in-kind
		services as a condition of consent to
		use the local government unit's
		public right-of-way."
		Minn. R. 7819.1100(3) (2002):
		"Degradation fee. A right-of-way
		user may elect to pay a degradation
		fee in lieu of restoration. However,
		the right-of-way user shall remain
		responsible for replacing and
		compacting the subgrade and
		aggregate base material in the
		excavation and the degradation fee
		must not include the cost to
		accomplish these responsibilities."
		Minn. R. 7819.1000(1) (2002):
		"Permit fee. A local government unit
		that requires a permit for excavation
		in or obstruction of the public right-
		of-way shall make its permit fee
		schedule available to the public. The
		permit fee schedule must be
		established in advance and designed
		to recover the local government
		unit's actual costs incurred in
		managing the public right-of-way."
		Minn. R. 7819.1000(2) (2002):
		"Allocation of permit fees. Permit
		fees must be based on an allocation
		among all users of the public right-
		of-way, which shall include the local
		government unit itself, so as to
		reflect the proportionate costs
		imposed on the local government
		unit by each of the various types of
		users of the public rights-of-way.
		Although the local government unit
		must be allocated its proportionate
		share of permit fees, the local
		government unit need not transfer
		funds to pay permit fees. Permit fees
		must be allocated in a competitively
		neutral manner and must be

States	Jurisdiction	Right of Way Compensation Code
Mississippi	Miss. Code Ann. § 21-27-1 (2002): Municipalities do not have the right to grant exclusive use of rights-of- way, nor may they grant a franchise without compensation, or for a	 imposed in a manner so that aboveground uses of public rights- of-way do not bear costs incurred by the local government unit to regulate underground uses of public rights- of-way." Minn. R. 7819.1000(3) (2002): "Delay penalty. A local government unit may establish and impose a reasonable penalty for unreasonable delays in right-of-way excavation, obstruction, patching, or restoration. The delay penalty must be established from time to time by resolution of the local government unit's governing body. A delay penalty must not be imposed if the delay in project completion is due to circumstances beyond the control of the applicant, including without limitation inclement weather, acts of God, or civil strife."
Missouri	period of more than 25 years. Mo. Rev. Stat. § 67.1832 (2001): Municipalities shall permit telecommunication companies and other public utilities to construct, maintain and operate their systems on public rights-of-way.	Mo. Rev. Stat. § 67.1840.2(1) (2001): "Right-of-way permit fees shall be: [b]ased on the actual, substantiated costs reasonably incurred by the political subdivision in managing the public right-of-way." Mo. Rev. Stat. § 67.1830(5) (2001): ""Management costs" or "rights-of- way management costs", the actual costs a political subdivision reasonably incurs in managing its public rights-of-way, including such costs, if incurred, as those associated with the following: (a) Issuing, processing and verifying right-of- way permit applications; (b) Inspecting job sites and restoration

States	Jurisdiction	Right of Way Compensation Code
		projects; (c) Protecting or moving
		public utility right-of-way user
		construction equipment after
		reasonable notification to the public
		utility right-of-way user during
		public right-of-way work; (d)
		Determining the adequacy of public
		right-of-way restoration; (e)
		Restoring work inadequately
		performed after providing notice
		and the opportunity to correct the
		work; and (f) Revoking right-of-way
		permits."
		Mo. Rev. Stat. § 67.1842.3 (2001):
		Prohibits in-kind compensation.
Montana	Mont. Code Ann. § 7-13-2220	None indicated.
	(2002): "Right-of-way across state	
	lands. The right-of-way is given,	
	dedicated, and set apart to locate,	
	construct, and maintain district	
	works over and through any lands	
	which are the property of this state,	
	and the district has the same rights	
	and privileges relating to the right-	
	of-way as are granted to	
	municipalities."	
	Mont. Code Ann. § 7-3-4449	
	(2002): "The commission shall have	
	all powers to grant rights to occupy	
	or use the streets, highways, bridges,	
	or public places in the municipality	
	that now are or hereafter may be	
	granted to municipalities by the	
	constitution or laws of Montana.	
	Every ordinance or resolution	
	passed by the commission granting	
	the right to occupy or use streets,	
	highways, or public places of	
	municipalities shall be complete in	
	the form in which it is finally passed	
	and remain on file with the	
	commission for inspection by the	
	public for at least 1 week before the	
	final adoption or passage thereof."	
Nebraska	Neb. Rev. Stat. Ann. § 86-704(1)	Neb. Rev. Stat. Ann. § 86-704 (4)(a)
	(2002): A telecommunications	(2002): "A municipality shall not levy

States	Jurisdiction	Right of Way Compensation Code
	company or other public utility may	a tax, fee, or charge for any right or
	construct its system facilities along	privilege of engaging in a
	the public state roads, public lands,	telecommunications business or for
	or private lands if necessary. The	the use by a telecommunications
	construction of this system may not	company of a public highway other
	impede road use, and any wires or	than: (i) An occupation tax
	cables must be at least 18 feet above	authorized under section 14-109, 15-
	highway crossings.	202, 15-203, 16-205, or 17-525; and
		(ii) A public highway construction
		permit fee or charge to the extent
		that the fee or charge applies to all
		persons seeking use of the public
		highway in a substantially similar
		manner. All public highway
		construction permit fees or charges shall be directly related to the costs
		incurred by the municipality in
		providing services relating to the
		granting or administration of
		permits."
		Neb. Rev. Stat. Ann. § 86-704
		(2002): (4)(a)(ii): Any highway
		construction permit fee or charge
		shall also be reasonably related
		in time to the occurrence of such
		costs. "(6) Taxes or fees shall not be
		collected by a municipality through
		the provision of in-kind services by
		a telecommunications company, and
		a municipality shall not require the
		provision of in-kind services as a
		condition of consent to the use of
		a public highway."
Nevada	Nev. Rev. Stat. § 707.280 (2002):	None indicated.
	Anyone constructing a	
	telecommunications line has the	
	right-of-way for that line and any	
	other lands, public or private, that	
	may be necessary to construct and operate that line.	
	Nev. Rev. Stat. § 707.250 (2002): A	
	telecommunications company	
	registered in the state of Nevada	
	may construct and maintain their	
	lines through any public or private	
	lands, along public roads, or along	
	and, along public roads, or along	

States	Jurisdiction	Right of Way Compensation Code
	navigable waters, provided the lines	
	do not cause an obstruction.	
	Nev. Rev. Stat. § 268.088 (2002):	
	"Municipalities are not authorized to	
	impose any terms or conditions on a	
	franchise for the provision of	
	telecommunications service other	
	than terms or conditions concerning	
	the placement and location of the	
	telephone lines and fees imposed for	
	a business license or the franchise,	
	right or privilege to construct, install	
	or operate such lines."	
New	N.H. Rev. Stat. Ann. § 231:161, I.	N.H. Rev. Stat. Ann. § 231:165
Hampshire	(a)-(c) (2002): Permits to access	(2002): Payment for the town clerk's
	state-maintained right-of-way must	services and fees should be made by
	be acquired from the NH	the provider. A minimum \$10 fee is
	Transportation Commission. Local	authorized by state statutes.
	right-of-way access must be	
	obtained from local governments.	
	N.H. Rev. Stat. Ann. § 48:17-10	
	(2002): Municipal or county	
	government consent must be	
	obtained before accessing right-of-	
Now Jorgov	way under their jurisdiction. N.J. Stat. Ann. § 48:17-11 (2002):	None indicated.
New Jersey	"The municipal or county	None mulcaleu.
	government may regulate the use of	
	all right-of-way with police and	
	other regulations and restrictions."	
New Mexico	N.M. Stat. Ann. §3-42-2A (2002): "If	None indicated.
TTEW MEXICO	previous to the incorporation of a	Tone multited.
	municipality, the board of county	
	commissioners has granted to any	
	person right-of-way over, upon, in	
	and about the streets of the	
	municipality for the erection,	
	construction, maintenance or	
	operation of a public utility, and	
	such person has erected,	
	constructed, or in good faith	
	commenced the erection or	
	construction of such a utility, the	
	governing body shall, without a vote	
	by the electorate: (1) authorize the	
	completion of the system; (2)	

States	Jurisdiction	Right of Way Compensation Code
	authorize the continued or	
	subsequent operation and	
	maintenance of the system; (3)	
	recognize the rights acquired by the	
	person erecting or constructing such	
	a system; and (4) grant such a person	
	a franchise for the maximum term	
	of years allowed by law upon such	
	terms as are fair, just and equitable	
	to all parties concerned. state ROW	
	rules governing state administration	
	of ROW for telecoms."	
	N.M. Stat. Ann. § 19-7-57(2002):	
	The Commissioner may grant rights-	
	of-way and easements to	
	telecommunications providers and	
	other public utilities. The grantee shall pay the price set by the	
	Commissioner, and this price will be at least the minimum price for the	
	lands.	
New York	N.Y. Gen City Law § 20 (Consol.	None indicated.
	2002): Cities have the right to grant	
	franchises or rights to use public	
	waters, streets, or lands located	
	within the city.	
	N.Y. Transp. Corp. Law § 27	
	(Consol. 2002):	
	Telecommunications companies	
	may construct their lines along	
	public roads, navigable waters, or	
	other public lands, provided that the	
	lines do not impede the use of such	
	roads, etc.	
North	N.C. Gen. Stat. § 62-39 (2002)	None indicated.
Carolina	Public Utility Commission has the	
	power to regulate crossings of	
	telephone, telegraph, electric power	
	lines and pipelines and rights-of-way	
	of railroads and other utilities by	
	another utility	
	N.C. Gen. Stat. § 62-182 (2002):	
	Telecommunications companies and	
	other public utilities have the right	
	to contract with private land owners	
	for rights-of-way.	

States	Jurisdiction	Right of Way Compensation Code
North	N.D. Cent. Code § 49-09-16 (2002):	N.D. Cent. Code § 49-21-26 (2002):
Dakota	Municipalities may grant rights-of-	After December 31, 1998, all
	way, on the public lands and roads	telecommunications recovery fees
	under their jurisdiction, for the	must be approved by the
	construction of a	municipality electorate.
	telecommunications system or other	N.D. Cent. Code § 49-21-26 (2002):
	public utility system. The	A municipality may request that a
	municipality granting the right of	telecommunications company move
	way may also specify the rules and	its facilities from the public right of
	conditions attached to the right-of-	way, and the telecommunications
	way.	company must pay for such
		removal.
		N.D. Cent. Code § 49-21-26 (2002):
		Recovery fess may only include the
		municipality's costs of managing the
		right of way; any other fees must be
		assessed on a competitively neutral
		basis. If the management costs are
		attributable to more than one entity,
		the recovery fee must be assessed to
		all parties on a proportional basis.
		N.D. Cent. Code § 49-21-27 (2002):
		Municipalities may not require in
		kind services in lieu of a fee or as a
		pre-requisite to right-of-way use.
Ohio	Ohio Rev. Code Ann. § 4939.01 -	Ohio Rev. Code Ann. § 4939.05 (B)
Onio	4939.09 (Anderson 2002); §	(Banks-Baldwin 2002):
	4939.02: Ohio's policy regarding	Municipalities may charge different
	rights-of-way grants authority to	fees for the use of their rights-of-
	municipalities to manage rights-of-	way, based on the amount of public
	way, ensures lawful fee recovery, and	land used, the type of public utility,
	promotes municipal coordination	or any other different treatment
	and standardization.	justified by public health and safety
		concerns. This includes a complete
		waiver of the fee.
		Ohio Rev. Code Ann. § 4939.05 (C)
		(Banks-Baldwin 2002): Fees charged
		may only reflect actual costs of
		managing the rights-of-way, plus any demonstrable future costs.
		Ohio Rev. Code Ann. § 4939.05 (A) (Papla Paldwin 2002): Ohio
		(Banks-Baldwin 2002): Ohio
		prohibits the use of in-kind services
Ohlah	Oble Crust Art IV 6.9	in lieu of fees.
Oklahoma	Okla. Const. Art. IX, § 2:	None indicated.
	Telecommunications companies and	

States	Jurisdiction	Right of Way Compensation Code
	other public utilities have a right to construct their lines within the state, and to connect with like lines at the state border. Okla. Stat. Tit.11 § 36-101(2003): Municipal governments are authorized to regulate and control use of ROW in the municipality. Okla. Stat. Tit.18 § 601 (2003): Telecommunications companies are granted a right of way over public and private lands and roads, subject to the local authorities.	
Oregon	Or. Rev. Stat. § 221.515 (2001): Municipalities have the authority to regulate and collect taxes for the use of rights-of-way within their jurisdiction.	Or. Rev. Stat. § 221.515 (2001): Municipalities may collect a privilege tax for the use of rights-of-way, not to exceed 7% of the gross revenues (earned within the municipality) of a telecommunications provider. Or. Rev. Stat. § 221.515 (2001): If a telecommunications company is paying the privilege tax, then it does not have to pay any other compensation. To the extent that any other fees are levied, they will be deducted from the privilege tax.
Pennsylvania	71 PA. Cons. Stat. § 194 (2002) (Adm. Code § 514): Municipalities may not grant easements or rights- of-way without the express authority from the General Assembly. However, municipalities may grant licenses to public service companies to construct lines if those lines will give state buildings better service, or if such line is necessary to serve the public.	 72 PA. Cons. Stat. § 6164 (2002): If a fee dispute is heard in court, the court will determine the license fee necessary to compensate the municipality for its services performed in regulating the license, and the amount determined will be the maximum amount charged to the licensee. 71 PA. Cons. Stat. § 194 (2002): (Adm. Code § 514): Licenses shall provide the amount of compensation due to the Commonwealth for the use of its property.
Rhode Island	R.I. Gen Laws § 39-17-1 (2002): Municipalities are granted franchising authority to regulate access to ROW. R.I. Gen. Laws § 37-7-8 (2002):	R.I. Gen Laws § 39-17-3 (2002): Franchise holders must pay franchise tax up to 3% of gross earnings in that locality, on a quarterly basis.

States	Jurisdiction	Right of Way Compensation Code
	"Grant of easements and rights of	R.I. Gen Laws § 39-17-8 (2002):
	way over acquired lands. Whenever,	Cities and towns may not charge for
	in the opinion of the acquiring	use of streets, except as provided
	authority, an easement or right of	through the franchise tax
	way may be granted in land owned	authorization.
	or held by the state without thereby	
	jeopardizing the interests of the	
	state, and the granting of the	
	easement or right of way will be for	
	the public good, the acquiring	
	authority, with the approval of the	
	state properties committee, is hereby	
	authorized and empowered to grant	
	the easement or right of way by	
	proper instrument, approved as to	
	substance by the director of	
	administration and as to form by the	
	attorney general, for such	
	consideration, and in such manner	
	and upon such terms and conditions	
	as may, in the judgment of the state	
	purchasing agent, be most	
	advantageous to the public	
	interest."	
South	S.C. Code Ann. § 58-9-2240. A	S.C. Code Ann. § 58-9-2220 (2002).
Carolina	municipality may not use its	South Carolina authorizes
	authority to regulate rights-of-way as	municipalities to implement a two-
	a means to impose additional	tiered tax system. (A). A business
	regulations on telecommunications	license tax of up to 0.75% of retail
	companies or public utilities.	telecommunications gross income.
	S.C. Code Ann. § 58-12-10 (2002):	A franchise or consent fee for the
	Before a cable company may place	installation or construction of
	its lines, it must get permission from	physical facilities in public rights-of-
	the agency in charge of the lands,	ways. The maximum permissible fee
	roads, and public waters. If the	is based on municipal population
	cable must traverse public lands, the	and ranges from \$100 for a
	cable company must get permission	population of 1,000 or less to \$1,000
	from the public landowner.	for a population of more than
		25,000.
South Dakota	S.D. Codified Laws § 49-32-1 (2002):	
	Telecommunications companies are	
	granted rights-of-way over public lands	
	and along public roads, subject to	
	control by the proper authorities.	
	S.D. Codified Laws § 9-35-1 (2002):	
	Municipalities have the right to	

States	Jurisdiction	Right of Way Compensation Code
	determine charges for local telephone service, subject to the PUC's powers, and to regulate the placement of telephone poles, lines, and other facilities.	
Tennessee	Tenn. Code Ann. § 65-21-201 (2002): Telecommunications companies or their equivalent are granted rights-of-way along public roads, over public lands, along navigable waters, and on private lands. Tenn. Code Ann. §13-24-303 (2002): Protects authority of locals to exercise reasonable municipal and county police powers.	
Texas	Tex. Loc. Gov't. Code Ann. § 283.001 (2002): "(b) It is also the policy of this state that municipalities: (1) retain the authority to manage a public right-of-way within the municipality to ensure the health, safety, and welfare of the public;" Tex. Loc. Gov't. Code Ann. § 282.002 (2002): "General Authority of General-Law Municipality. (a) A general-law municipality has exclusive control over the public grounds of the municipality."	Tex. Loc. Gov't. Code Ann. § 283.001 (2002): "(b) It is also the policy of this state that municipalities: (2) receive from certificated telecommunications providers fair and reasonable compensation for the use of a public right-of-way within the municipality." Tex. Loc. Gov't. Code Ann. § 283.051 (2002): "Right-Of-Way Fee. (a) Notwithstanding any other law, a certificated telecommunications provider that provides telecommunications services within a municipality is required to pay as compensation to a municipality for use of the public rights-of-way in the municipality only the amount determined by the commission under Section 283.055." Tex. Loc. Gov't. Code Ann § 283.055 (2002): The Texas Public Utilities Commission shall set the per-line rate that a municipality can charge for use of its rights-of-way. Tex. Loc. Gov't. Code Ann. § 283.055 (2002): Municipalities are prohibited from receiving services without compensation or at below market prices.

States	Jurisdiction	Right of Way Compensation Code
Utah	Utah Code Ann. § 54-4-25 (2003): Telecommunications companies and other utilities must obtain certification from the PUC that construction is required before they may begin construction on a right-of-way. Utah Code Ann. § 72-7-102 (2003): Local highway authorities (county or municipal) may allow excavating, installation of utilities and other facilities or access under rules made by the [local] highway authority[ies] and in compliance with federal, state and local law ex applicable	Utah Code Ann. § 72-7-102 (4) (2003): The Highway Authority may require compensation from utilities for use of their rights-of-way, but such compensation may only include those management costs caused by the utilities' activity. Utah Code Ann. § 72-7-102 (4) (2003): The Highway Authority's fees must be charged on a competitively neutral basis. If more than one utility is responsible for the management costs incurred, the fees must be allocated to
	law as applicable. Utah Code Ann. § 72-3-109 (2003): "(1) Except as provided in Subsection (3), the jurisdiction and responsibility of the department and the municipalities for state highways within municipalities is as follows: (c) (i) A municipality has jurisdiction over all other portions of the right-of-way and is responsible for construction and maintenance of the right-of-way."	each company or entity proportionately. Utah Code Ann. § 72-7-102 (4)(e) (2003): Providers are entitled to recover ROW access fee costs from their customers.
Vermont	VT. Stat. Ann. tit. 19 § 1111(a) (2002): "Permits Permits must be obtained by anyone or any corporation wishing to use as described in this section any part of the highway right-of-way on either the state or town system. Notwithstanding any other statutory requirement, a permit shall be required for any use of any highway right-of-way, consistent with the provisions of this section. The authority given to the board, the secretary and the attorney general under this section shall also apply to the legislative bodies of towns."	
Virginia	VA. Code Ann. § 56-458 (2002): Telecommunications companies have the right to build its system along public roads and railroads, on public lands, and along navigable waterways.	VA. Code Ann. § 56-468.1 (2002): In Virginia, the state Department of Transportation annually calculates the Public Rights-of-Way Use Fee as an annual average rate per access line. The average weights public highway miles at \$425 per mile and new installations at \$1 per linear foot. VA. Code Ann. § 56-458(E) (2002). In-

States	Jurisdiction	Right of Way Compensation Code
		kind fees prohibited.
Washington	Wash. Rev. Code § 35.99.020 (2002): "Permits for use of right of way. A city or town may grant, issue, or deny permits for the use of the right of way by a service provider for installing, maintaining, repairing, or removing facilities for telecommunications services or cable television services "	Wash. Rev. Code § 35.21.860(1) (2002): Municipalities may charge fees for the use of their rights of way that recover their administrative costs related to the permit process, and a site-specific charge to wireless providers for the placement of new structures in the right-of-way.
	Wash. Rev. Code § 35.99.040 (2002): Municipalities may not use the right-of- way permitting process as a means of regulating service providers, except where permitted by federal law.	Wash. Rev. Code § 35.99.070 (2002): Washington permits cities and towns to obtain access to ducts, conduits, or related structures of a service provider, subject to conditions that include the payment of compensation sufficient to recover the provider's incremental costs. If the municipality allows the in-kind facilities to be used to provide service to the public, it must compensate the provider on the basis of fully allocated costs.
West Virginia	W.Va. Code § 8-31-1,2 (2002): Municipalities and counties have franchising authority and may impose terms and conditions for those agreements.	W.Va. Code § 17-16A-13 (2002): The Parkways Authority has the power to fix and collect fees for the use of rights-of- way along the state parkways.
	W.Va. Code § 17-4-8 (2002): Telecommunications companies and other service providers are prohibited from constructing facilities on state roads except under the conditions as may be prescribed by the state road commissioner.	
Wisconsin	Wis. Stat. § 196.58 (2002): Municipalities may determine whether and on what conditions a public utility may enter and occupy their rights-of- way.	
	Wis. Stat. § 196.499(14) (2002): "EXTENSION OF FACILITIES. Any telecommunications carrier may extend its facilities into or through any municipality for the furnishing of its services, subject to the reasonable regulation of the governing body of the municipality relative to the location of poles and wires and the preservation of the safe and convenient use of streets	

States	Jurisdiction	Right of Way Compensation Code
	and alleys to the public. Upon a petition for relief made by a telecommunications carrier, the commission shall set a hearing and if it finds a contract, ordinance or resolution under this subsection to be unreasonable, the contract, ordinance or resolution shall be void."	
Wyoming	Wyo. Const. Art. 10, § 17 (2002): "Rights of telegraph companies. Any association, corporation or lessee of the franchises thereof organized for the purpose shall have the right to construct and maintain lines of telegraph within this state, and to connect the same with other lines."	
	Wyo. Stat. Ann. § 15-1-103(a)(xi) (2002): Local governments granted authority to take all necessary action to plan, construct. maintain and regulate the use of streets, including the regulation of any structures thereunder.	

<u>Appendix B</u>

Broadband Policies and Practices in the U.S.

Independent Research Conducted by the California Public Utilities Commission

2004

Appendix B Sources

Alabama

Alabama Supercomputer Authority (ASA) http://www.asc.edu/index.shtml

Alabama Research and Education Network (AREN) http://www.asc.edu/network/index.shtml

State of Alabama http://www.alabama.gov

Alabama-Mississippi Telephone Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Alaska

Telecommunications Information Council Activities Update: Office of the Lt. Governor – January 2002 http://www.gov.state.ak.us/ltgov/Telecommunications/TICupdate2002.PDF

Alaska Telephone Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) www.apt.org

State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Arizona

Arizona Telemedicine Program (ATP) http://www.telemedicine.arizona.edu/ind ex.html "Arizona's 100 Million Dollar Plan for Rural Broadband Deployment"

http://www.digitaldividenetwork.org/content/stories/index.cfm?key=134

"News Release: TOPAZ Connecting Schools and Rural Areas Ahead of Schedule with Broadband" http://gita.state.az.us/telecom/news/9_2 5_01_news_release.htm

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u>

State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Arkansas

Arkansas Telecommunications Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

California

Rural E-commerce Grants

http://www.motherlodeexpress.org/Docs/State%20press%20release%20ecommerce%20grants_.pdf California Technology Investment Partnership http://www.larta.org/Capital/caltip.asp New Generation Internet (NGI) http://www.calngi.org/program/

Corporation for Education Network Initiatives in California (CENIC) http://www.cenic.org California Telephone Association

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Colorado

"The Multi-Use Network Project" http://www.colorado.gov/dpa/doit/mnt Colorado Telecommunications Association

Rocky Mountain Telecommunications Association

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Connecticut

Commission for Education Technology http://www.ct.gov/ctedtech/site/default

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Delaware

No broadband programs were found to exist in Delaware at this time.

District of Columbia

Internet Open Access Study Act of 2001: Bill 14-6 http://www.dcwatch.com/council14/14-6.htm A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Florida

Digital Divide Council http://www.digitaldividecouncil.com/digitaldivide/index.html Digital Divide Council: Annual Report http://www.digitaldividecouncil.com/digitaldivide/documents/annual_report.doc Florida Telecommunications Industry Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Georgia

Yamacraw Initiative http://www.yamacraw.org/index.html

Georgia Centers for Advanced Telecommunications Technology (GCATT) http://www.gcatt.gatech.edu/index.htm Georgia Telephone Association

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Hawaii

No broadband programs were found to exist in Hawaii at this time.

Idaho

Broadband Tax Credit: www.puc.state.id.us/telecom/28784.pdf

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Illinois

Program to Foster the Elimination of the Digital Divide http://www.state.il.us/gov/budgetpr/cmsbudget.htm Illinois Community Technology Fund http://www.ictf.org

Illinois Telecommunications Association, Inc.

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Indiana

accessIndiana http://www.in.gov EPICS http://eic.co.orange.in.us/Intelenet Grant Program http://www.in.gov/intel/schoolgrants Indiana Web Academy http://www.indianaacademy.org Indiana Telecommunications Network http://www.itn.gov IN-map http://www.in-map.net A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> Indiana Telecommunications Association State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Iowa

Iowa Communications Network (ICN) www.icn.state.ia.us Iowa Telecommunications Association Rural Iowa Independent Telephone Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Kansas

http://www.accesskansas.org KanED www.kan-ed.org State Independent Telephone Association of Kansas A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Kentucky

"A Broadband Hookup in Every Home" http://www.wired.com/news/politics/0,1283,57249,00.html ConnectKentucky www.connectkentucky.org Kentucky Information Highway http://www.state.ky.us/kirm/kih.htm Kentucky Telephone Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Louisiana

Sources

LaNet http://www.state.la.us/otm/lanet

Louisiana Telecommunications Association

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Maine

"Future MSLN" http://www.msln.maine.edu/msln/docs/adv_brd_letter.html Maine School and Library Network (MSLN) http://www.msln.maine.edu

Telephone Association of Maine

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Maryland

ARINC Expands FiberNet for Montgomery County, Connects 100th Site http://www.arinc.com/news/2003/02-03-03.html

TEDCO "Improving Access to Broadband Infrastructure in Mountain Maryland" http://www.marylandtedco.org/Western MD.htm

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Massachusetts

Berkshire Connect

www.bconnect.org

The MassBroadband Initiative http://www.massbroadband.org/

Massachusetts Technology Collaborative http://www.mtpc.org/InnovationEcono my/telecom_projects.htm A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Michigan

Michigan Broadband Authority http://www.michigan.gov/cis/0,1607,7-154-28077_28233---,00.html Link Michigan http://linkmichigan.michigan.org Michigan Exchange Carriers Association, Telecommunications Association of Michigan A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u>

State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Minnesota

Connecting Minnesota http://www.dot.state.mn.us/connect

"Minnesota Kills \$200 Million Rural High-Speed Access Project"

http://www.govtech.net/news/features/news_feature.phtml?docid=3800

Minnesota Telecom Alliance

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Mississippi

Mississippi Legislature 2003 Regular Session: Senate Bill 2979 http://billstatus.ls.state.ms.us/2003/pdf/history/SB/SB2979.htm A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Missouri

eMINTS http://emints.more.net

MOREnet http://www.more.net

Missouri Telecommunications Industry Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Montana

METNET www.metnet.state.mt.us/main.html.

Montana Independent Telecommunications Systems, Montana Telecommunications Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Nebraska

Internet Enhancement Fund http://www.nitc.state.ne.us Information Technology Commission http://www.nitc.state.ne.us Nebraska Independent Telephone Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Nevada

Commission on Educational Technology http://www.nde.state.nv.us/hrt/edtech/cet Nevada Net "System Computing Services" http://www.scs.nevada.edu/nevadanet Nevada Telecommunications Association, A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

New Hampshire

"Networking in New Hampshire: Third Rail deploys fixed broadband for state's National Guard" http://www.broadbandweek.com/news/010122/010122_apps_third.htm "New Hampshire officials try to spread high-tech to all parts of the state" http://www.seacoastonline.com/2001ne ws/2_12biz.htm Telephone Association of New England, New Hampshire Telecommunications Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

New Jersey

"New Jersey Creates a \$100-Million Broadband Network for Its Colleges" http://chronicle.com/free/2002/04/2002 040901u.htm New Jersey Telecommunications Network Upgrade https://www.nascio.org/publications/Newsletters/0601statetrends.cfm Njedge.net http://www.njedge.net/ A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

New Mexico

Broadband Management Advisory Committee http://www.cio.state.nm.us/BMACChart er.pdf A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

New York

Diffusion Fund www.nysed.gov/otpad/diffuse.htm Regional Fiber Optic System http://www.uwnyc.org/technews/v2_n5 _a6.htmltm New York State Telecommunications Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

North Carolina

North Carolina's Rural Internet Access Authority: e-NC http://www.e-nc.org North Carolina Telephone Association

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North Dakota

STAGENet http://www.stagenet.nd.gov

North Dakota Association of Telephone Cooperatives, North Dakota Telephone Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Ohio

Third Frontier Project www.state.oh.us/gov/thirdfrontier.htm

Ohio SchoolNet http://www.ohioschoolnet.k12.oh.us

Ohio Telecommunications Industry Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Oklahoma

OneNET http://www.onenet.net "Wireless Broadband Opens Doors for Rural U.S. Communities" http://www.wirelessnesfactor.com/perl/story/12805.html Oklahoma Telephone Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Oregon

ORTCC http://www.ortcc.org/

Oregon Broadband Tax Credit http://www.econ.state.or.us/telecom/div 106.htm Oregon Telecommunications Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Pennsylvania

"Digital Divide Projects Announced" http://www.121.org/news/newsarticle.html?ID=219 Technology Based Education Initiatives – Link 2 Learn/Pennsylvania Education Network/Ben Franklin Technology Development Authority http://www.inventpa.com/default.aspxid=135

Pennsylvania Telephone Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) www.apt.org

State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Puerto Rico

No broadband programs were found to exist in Puerto Rico at this time.

Rhode Island

Rhode Island Network for Educational Technology (RINET) www.ri.net/RINET/index.html A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

South Carolina

"Bill Seeks to Exempt Internet Service From Regulation" http://www.computeruser.com/news/03/02/17/news5.html South Carolina Information Network (SCINET)

www.state.sc.us/http://www.edweek.org/sreports/tc/policy/states/sc.htm

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

South Dakota

"Building the Digital Dakota Network" http://www.state.sd.us/deca/DDN4Learning/Conclave/DDNHist.htm South Dakota Telecommunications Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Tennessee

ConnecTEN www.connect-tn.org

Tennessee Telecommunications Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Texas

Telecommunications Infrastructure Fund http://www.lonestarbroadband.org

Texas Telephone Association, Texas Statewide Telephone Cooperative

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Utah

Utah Telecommunications Open Infrastructure Agency www.utopianet.org Utah Education Network www.uen.org Utah Telehealth Network http://www.utahtelehealth.net EDNET http://www.uen.org/ednet Utah Rural Telecom Association A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Vermont

Vermont Broadband Council www.vtbroadband.org

Telephone Association of Vermont

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Virgin Islands

"INSTALLGUYS Surpasses Customer's Expectations" http://www.installguys.com/vi-userprofile.cfm A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Virginia

Blacksburg Electronic Village (BEV) http://www.bev.net eCorridors http://ecorridors.cc.vt.edu/index.shtml Center for Innovative Technology (CIT) http://www.cit.org Net.Work.Virginia http://www.networkvirginia.net "Virginia's Center for Innovative Technology Awards Grants to Augusta, Highland, and Nelson Counties" http://www.cit.org/press_releases/01-07-25PR%20ACAF%20Augusta%20County.pdf Carolina-Virginia Telephone Membership Association Virginia Telecommunications Industry Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Washington

Access Washington www.wa.gov/dis/k20

Washington Independent Telephone Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

West Virginia

YAS Broadband Initiative http://www.lcsee.cemr.wvu.edu/yas

West Virginia Department of Education Office of Technology http://access.k12.wv.us

West Virginia Network (WVNET) http://www.wvnet.edu/wvndex.shtml

West Virginia Telephone Association

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Wisconsin

Wiscnet http://www.wiscnet.net

Wisconsin State Telecommunications Association

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Wyoming

Southwestern Wyoming Enhanced & Expanded Telecommunications Network (SWEETnet) http://www.sweetnet.us Wyoming Equality Network http://www.k12.wy.us

A Nation of Laboratories: Broadband Policy Experiments in the States, Alliance for Public Technology (APT) <u>www.apt.org</u> State Broadband Initiatives, Telecommunications Industry Assn. http://www.tiaonline.org/policy/states.cfm

Action Ideas for Cities and States, The Children's Partnership, http://www.techpolicybank.org/

Appendix C

Glossary of Broadband Terms

Glossary

- **3G** *Third Generation*. Intended to be the nest great wireless technology, wideband mobile services and applications offering users faster access to the web.
- **ADSL** *Asymmetric Digital Subscriber Line*. DSL service with a larger portion of the capacity devoted to downstream communications, less to upstream. Typically thought of as a residential service.
- **ATM** *Asynchronous Transfer Mode*: A data service offering by ASI, that can be used for interconnection of customer's LAN. ATM provides service from 1 Mbps to 145 Mbps utilizing Cell Relay Packets.
- **Bandwidth** The amount of data transmitted in a given amount of time; usually measured in bits per second, kilobits per second, and megabits per second.
- **Bit** A single unit of data, either a one or a zero. In the world of broadband, bits are used to refer to the amount of transmitted data. A kilobit (Kb) is approximately 1,000 bits. A megabit (Mb) is approximately 1,000,000 bits.
- **BPL** *Broadband Over Powerline*. A theoretical technology that would provide broadband service over existing electrical power lines.
- **BPON** *Broadband Passive Optical Network*: BPON is a point-to-multipoint fiber-lean architecture network system which uses passive splitters to deliver signals to multiple users. Instead of running a separate strand of fiber from the CO to every customer, BPON uses a single strand of fiber to serve up to 32 subscribers.
- **Broadband** A descriptive term for evolving digital technologies that provide consumers with integrated access to voice, high-speed data service, video-demand services, and interactive delivery services (e.g. DSL, Cable Internet).
- **CAP** *Competitive Access Provide*: (or "Bypass Carrier") A Company that provides network links between the customer and the Inter-Exchange Carrier or even directly to the Internet Service Provider. CAPs operate private networks independent of Local Exchange Carriers.
- **CBO** *Community Based Organizations*. Groups serving a community that are eligible for California Teleconnect Fund (CTF) Subsidy.
- **Cellular** A mobile communications system that uses a combination of radio transmission and conventional telephone switching to permit telephone communications to and from mobile users within a specified area.
- **CEQA** *California Environmental Quality Act*. Enacted in 1970, it requires government agencies to evaluate the environment impact of public construction projects.

- **CLEC** *Competitive Local Exchange Carrier*: Wireline service provider that is authorized under state and Federal rules to compete with ILECs to provide local telephone service. CLECs provide telephone services in one of three ways or a combination thereof: a) by building or rebuilding telecommunications facilities of their own, b) by leasing capacity from another local telephone company (typically an ILEC) and reselling it, and c) by leasing discreet parts of the ILEC network referred to as UNEs.
- **CO** *Central Office*. A circuit switch where the phone lines in a geographical area come together, usually housed in a small building.
- **Coaxial Cable** A type of cable that can carry large amounts of bandwidth over long distances. Cable TV and cable modem service both utilize this technology.
- **CPCN** *Certificate of Public Convenience and Necessity.* Authorization given by the CPUC to telecommunications carriers in order to provide service in the state of California.
- **CPUC** *California Public Utilities Commission*. The organization mandated by the state Constitution to regulate public utilities in California.
- **CTF** *California Teleconnect Fund*: A public program that provides subsidizes phone and data service to schools, hospitals, CBOs, and other qualified institutions in California. Benefits are calculated net of E-rate Federal subsidy.
- **CWDM** *Coarse Wavelength Division Multiplexing (WDM):* is generally held to be WDM with less than 8 active wavelengths per fibre.
- **DDTP** *Deaf and Disabled Telephone Program*: A public program that provides benefits, including specialized equipment, to qualified California disabled customers.
- **Dial-Up** A technology that provides customers with access to the Internet over an existing telephone line.
- **DLEC** *Data Local Exchange Carrier*: DLECs deliver high-speed access to the Internet, not voice. DLECs include Covad, Northpoint and Rhythms.
- **Downstream** Data flowing from the Internet to a computer (Surfing the net, getting E-mail, downloading a file).
- **DSL** *Digital Subscriber Line*. The use of a copper telephone line to deliver "always on" broadband Internet service.
- **DSLAM** *Digital Subscriber Line Access Multiplier*: A piece of technology installed at a telephone company's CO and connects the carrier to the subscriber loop (and ultimately the customer's PC).

- **DWDM** *Dense Wavelength Division Multiplexing (WDM):* A SONNET term which is the means of increasing the capacity of Sonet fiber-optic transmission systems.
- **E-Rate** A Federal program that provides subsidy for voice and data lines to qualified schools, hospitals, CBOs, and other qualified institutions. The subsidy is based on a percentage designated by the FCC. CTF benefits are calculated net of the E-rate subsidy.
- **EON** *Ethernet Optical Network*: The use of Ethernet LAN packets running over a fiber network.
- **EvDO** *Evolution Data Only.* EvDO is a new wireless technology that provides data connections that are 10 times as fast as a regular modem.
- **FCC** *Federal Communications Commission*. A Federal regulatory agency that is responsible, among other things, of regulating VoIP.
- **FTTN** *Fiber To The Neighborhood*: A hybrid network architecture involving optical fiber from the carrier network, terminating in a neighborhood cabinet with converts the signal from optical to electrical.
- **FTTP** *Fiber To The Premise (Or FTTB Fiber To The Building)*: A fiber optic system that connects directly from the carrier network to the user premises.
- **GPON** *Gigabyte-Capable Passive Optical Network*: GPON uses a different, faster approach (up to 2.5 Gbit/s in current products) than BPON.
- **GPS** *Global Positioning System*. A system using satellite technology that allows an equipped user to know exactly where he is anywhere on earth.
- **GSM** *Global System for Mobile Communications.* This is the current radio/telephone standard in Europe and many other countries except Japan and the United States.
- **HFC** *Hybrid Fiber Coaxial Network*: An outside plant distribution cabling concept employing both fiber optic and coaxial cable.
- **IEEE** Institute of Electrical and Electronics Engineers
- **ILEC** *Incumbent Local Exchange Carrier*: The traditional wireline telephone service providers within defined geographic areas. Prior to 1996, ILECs operated as monopolies having the exclusive right and responsibility for providing local and local toll telephone service within LATAs. ILECs include regional Bell operating companies such as SBC and non-Bell affiliated companies such as SureWest, both in California.

- **IP-VPN** *Internet Protocol Virtual Private Network*: A software-defined network offering the appearance, functionality and usefulness of a dedicated private network
- **ISDN** *Integrated Services Digital Network*: An alternative method to simultaneously carry voice, data and other traffic, using the switched telephone network.
- **ISP** *Internet Service Provider*: A company providing Internet access to consumers and businesses, acting as a bridge between customer (end-user) and infrastructure owners for dial-up, cable modem and DSL services.
- **Kbps** *Kilobits per second*: 1,000 bits per second. A measure of how fast data can be transmitted.
- **LAN** *Local Area Network*: A geographically localized network consisting of both hardware and software. The network can link workstations within a building or multiple computers with a single wireless Internet connection.
- LATA *Local Access and Transport Areas.* A geographic area within with a divested Regional Bell Operating Company is permitted to offer exchange telecommunications and exchange access service. Calls between LATAs are often thought of as longs distance service. Calls within a LATA (IntraLATA) typically include local and local toll services.
- **Local Loop** A generic term for the connection between the customer's premises (home, office, etc.) and the provider's serving central office. Historically, this has been a wire connection; however, wireless options are increasingly available for local loop capacity.
- **MAN** *Metropolitan Area Network*: A high-speed date intra-city network that links multiple locations with a campus, city or LATA. A MAN typically extends as far as 50 kilometers.
- **Mbps** *Megabits per second*: 1,000,000 bits per second. A measure of how fast data can be transmitted.
- **Overbuilders** Building excess capacity. In this context, it involves investment in additional infrastructure project to provide competition.
- **OVS** *Open Video Systems*: OVS is a new option for those looking to offer cable television service outside the current framework of traditional regulation. It would allow more flexibility in providing service by reducing the build out requirements of new carriers.
- **PON** *Passive Optical Network*: A Passive Optical Network consists of an optical line terminator located at the Central Office and a set of associated optical network

terminals located at the customer's premise. Between them lies the optical distribution network comprised of fibers and passive splitters or couplers. In a PON network, a single piece of fiber can be run from the serving exchange out to a subdivision or office park, and then individual fiber strands to each building or serving equipment can be split from the main fiber using passive splitters / couplers. This allows for an expensive piece of fiber cable from the exchange to the customer to be shared amongst many customers thereby dramatically lowering the overall costs of deployment for fiber to the business (FTTB) or fiber to the home (FTTH) applications.

- **Right-of-Way** A legal right of passage over land owned by another. Carriers and service providers must obtain right-of-way to dig trenches or plant poles for cable systems, and to place wireless antennae.
- **RPR** *Resilient Packet Ring* RPR uses Ethernet switching and a dual counterrotating ring topology to provide SONET-like network resiliency and optimized bandwidth usage, while delivering multi-point Ethernet/IP services.
- **RUS** *Rural Utility Service*: A division of the United States Department of Agriculture, it promotes universal service in unserved and underserved areas of the country with grants, loans, and financing.
- **SONNET** *Synchronous Optical Network*: A family of fiber-optic transmission rates.
- **Streaming** A Netscape innovation that downloads low bit text data first, then the higher bit graphics. This allows users to read the text of an Internet document first, rather than wait for the entire file to load.
- **Subscribership** Subscribership is how many customers have subscribed for a particular telecommunications service.
- **Switched Network** A domestic telecommunications network usually accessed by telephones, key telephone systems, private branch exchange trunks, and data arrangements.
- **T-1** *Trunk Level 1*: A digital transmission link with a total signaling speed of 1.544 Mbps. It is a standard for digital transmission in North America.
- **T-3** *Trunk Level* 3: 28 T1 lines or 44.736 Mbps.
- **ULTS** *Universal Lifeline Telephone Service*. A public program that provides subsidized basic telephone service to qualified low-income individuals in California.
- **UNE** *Unbundled Network Elements*: Leased portions of a carrier's (typically an ILEC's) network used by another carrier to provide service to customers.

- **Universal Service** The idea of providing every home in the United States with basic telephone service.
- **Upstream** Data flowing from your computer to the Internet (sending E-mail, uploading a file).
- **VDSL** *Very High Data Rate Digital Subscriber Line*. A developing technology that employs an asymmetric form of ADSL, with projected speeds of up to 155 Mbps.
- **Video On Demand** A service that allows users to remotely choose a movie from a digital library and be able to pause, fast-forward, or even rewind their selection.
- VLAN Virtual Local Area Network
- **VoIP** *Voice Over Internet Protocol*: A new technology that employs a data network (such as a broadband connection) to transmit voice conversations.
- **VPN** *Virtual Private Network: VPN is* a network that is constructed by using public wires to connect nodes. For example, there are a number of systems that enable you to create networks using the Internet as the medium for transporting data. These systems use encryption and other security mechanisms to ensure that only authorized users can access the network and that the data cannot be intercepted.
- **WiMax** WiMax is a wireless technology that provides high-throughput broadband connections over long distances. WiMax can be used for a number of applications, including "last mile" broadband connections, hotspot and cellular backhaul, and high-speed enterprise connectivity for businesses.
- **Wireless** Telephone service transmitted via cellular, PCS, satellite, or other technologies that do not require the telephone to be connected to a land-based line.
- **Wireless Internet** 1) Internet applications and access using mobile devices such as cell phones and palm devices. 2) Broadband Internet service provided via wireless connection, such as satellite or tower transmitters.
- **Wireline** Service based on infrastructure on or near the ground, such as copper telephone wires or coaxial cable underground or on telephone poles.

Sources include the Glossary of the July 5, 2002 report on "The Status of Telecommunications Competition in California" submitted to the California State Legislature by the CPUC, the FCC Website, the Intel.com Website, Webopedia.com, the Passive Optical Networks Forum, and Newton's Telecom Dictionary, 16th Expanded and Updated Edition.