#### **History of Telecommunications in Australia**

1877 - 1905



1922

It is the era of radio. Billy Hughes becomes the first Australian Prime Minister to make a broadcast by radio transmission. The Sydney to Brisbane telephone trunk line opens.

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	1914		The first automated exchange opens in Newtown, Sydney. Australians are sending more telegrams per head of population the most other people. By May of the same year, there are 19 wireless stations positioned along the Australian and New Guinea coastlines.
	1912	te is A e	Automated elephone switching s introduced into Australia. The first nutomated telephone exchange opens in Geelong.
1911	reaches	es 100 ind	in Australia

There is a demonstration of wireless communication across Bass Strait using Marconi's technology.

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	(	()	1932	The Australian Broadc formed with control ver At this stage, there are as well as 4 regional s national network. Ther listeners in Australia and three quarters of a mill	sted in the PMG. 48 commercial stations as part of t re are 350,000 lice nd a total audience	ations he nsed		1950s	is introduced an emergency serv	ices. ent of Australians	
	Australia Broadca Commis	an asting ssion	1931	AWA launches an experin Worldwide Forecast Servi of Australia that over the y broadcast cricket, enterta and talks.	ice, The voice years would				circuits and 150	ral automatic operating. 1000 trunk carrier telephone led to the network.	
Gold Cent			1930	A wireless telephone s operates between Aust England. This is followed by Aus New Zealand, which is beam wireless stations	tralia and tralia and linked using		1946	The Overseas Te (OTC) is establis	C introduces its ov lecommunications hed to administer / communications se	Commission Australia's	[
Cardenar Abarton Martin Martin Aray State Cardenar Cardenar Cardenar Cardenar Cardenar Cardenar Cardenar Cardenar	entrans entrans entrans entrans entrans entrans entrans	1927	established b using the tec wireless com is pioneered conglomerate Amalgamate	d Wireless Australasia (AV experimental international	vgy NA)	1939	broadca There a	development tow a's first overseas ra sting service begin re 17 licensed radio undred members of	ards world standa dio s operation. o sets for		
	er	esearch staff at th ngineer the first si roadcast amongst	multaneous int	erstate			P P P P P P P P P P P P P P P P P P P				
	Aito	ustralia becomes introduce rural a	utomatic excha		1935			is laid connecting nony to the mainlar	nd.		1954
1923	PMG, beginni the organisation Automatic tota and within two exchanges op Australia is ra	Brown becomes the ng a transformation on modernising co ally replaces the no by years there 22 a berating in Australiant nk seventh in Tele er population in the	on that reshape ommunications nanual operato utomatic ia. ephone	S.	<b>1934</b> ser		ess beamed between Au	picture-gram Istralia and		1953	Perth i to have networ capital

1922 - 1932

1934 - 1950

	The government realises it needs to build new infrastructure as telephone systems are becoming increasingly overloaded.				
1962	The Sydney to Melbourne coaxial cable is a revolutionary technology and a significant new artery in Australian telecommunications. Broadband cable and radio systems carrying television relays and high telephony transmission stretch to Cairns. Communication lines that are now beginning to work the continent ae very different from the aerial open lines of 50 years before. Coaxial cables and microwave radio systems will in-twine the continent before the end of the 1960s				

1958	Australia's first telex service is open by the OTC. By June 1959 the Australian Telex service is available in 27 countries.
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1956	Australia's first television broadcasters made from a commercial station in Sydney and in November two national stations are opened, one in Sydney and the other in Melbourne. By 1960 all capital cities are connected to television.
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4	Telex enters the Australian telecommunication network for business applications. A manual operated exchange is set up by the PMG linking teleprinter terminals and receivers in Sydney and Melbourne.
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Perth is first capital city in Australia to have a fully automatic telephone network. Four years later, nearly all capital cities are fully automatic.

### 1953 - 1962

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1974 - 1979

Australia's first geostationary Communication satellite is launch by AUSSAT, the organisation established in 1981 to oversee Australia's satellite system. Eventually the government decides to sell AUSSAT couple with a telecommunication license to Optus communications.

Optical fibre cable is installed into the public telecommunications network in Brisbane and Melbourne.

The world's longest solar powered communication being is opened in Western Australia between Port Headland and Kununurra. The link provides people in that remote locality with telephone services for the first time.

Features are introduced into phone services that allow users to store phone numbers, abbreviated dialling and use call-back facilities.

There is lobbying from the private sector to end Telecom's monopolies. The then Fraser Government sets up the Davison Inquiry which recommends spliting Telecom into two businesses one managing the natural monopoly of the copper access network and the other that would compete with the private sector in supplying network services. The government does not support the recommendation.

Telecom launches its first automatic mobile telephone system in Melbourne and Sydney, supplied by (NEC) Japan. System provides fully automatic access to vehicles using local, trunk and international networks.

Optical fibre Cable is first install to handle telecommunications traffic, In a field trial between Telecom's research laboratories in Clayton to a nearby exchange in South East Melbourne.

After four years of often-gruelling work under testing conditions, a 2500 km cable route is installed. The route stretches from Ceduna in South Australia to Cobar in New South Wales and on from Dubbo to Brisbane, linking Western Australia, South Australia and the eastern states to the rest of the world. The cable route is capable of carrying 5500 simultaneous telephone communications

## 1980 - 1985

	Telecom Australia changes its name to Telstra.	Α	ustralia	
	Telstra embarks on a programme to modernise its switch and transmission infrastructure. The progamme completed by 2000 sees its network infrastructure fully digital. Telstra and launches a new 2G digital mobile phone			
1993	(GSM) network. Telstra continues to operate its AMPS analog network that has over 635,000 analogue mobile phone connectioons	1999	Telstra launches the CDMA (Code Division Multiple Access) mobile network. Ten years later the system is decommissioned.	
	The World Wide Web becomes mainstream with the release of the Mosaic browser. The public telegraphy service is closed.		Telstra MobileNet customers (both AMPS and digital networks) now exceed three million.	2006
			Telstra announced plans to build a new network to replace the analog (AMPS)	
1991	A new Telecommunications Act is passed that initially opens the market to limited infrastructure competition to Telecom by one other fix network carrier (Optus) and by two other mobile carriers. More open competition is foreshadowed by 1997. Australia's first commercial Internet Service provider	1998	network, which was to be phased out due to governmentregulation. The new network was to be based on CDMA (Code Division Multiple Access) technology and is backward compatible with analog mobile handsets.	NEX
	(connect.com) opens for business. Telecom Australia merges with OTC to become the first Australian & Overseas telecommunications Corporation and 1993 it becomes known as Telstra Corporation.		The telecommunication industry is re-regulated and open to full competition under a regulator (the Australian Competition and Consumer	
		1997	Commission). Most limitations on the number of licensed players are removed.	
1990	International computer network attracts attention with the establishment of the Internet link via satellite to Australia's own fledging Internet system is the Australian Academic and Research Network (AARNet).	1997	Telstra Is partially privatised with its shares sold to the public by the Commonwealth Government. Australia has one of the world's highest levels of mobile telephone ownership.	200
1989	A new telecommunications industry regulator AUSTEL is created, In anticipation of the opening up of the industry to if the infrastructure competition starting in1991 when customer premises equipment is thrown open to competition.	1996	Optus and Telstra are rolling out their HFC networks.These access networks virtually duplicate each other and only pass approximately 2.5 million out of Australia's 10 million homes.	200
	All areas in Australia now have access to a standard telephone service.		Mobiles now has the one million digital customers connections together with 2.6 million anlog (AMPS) customers.	
1987	Telecom Australia launches Australia's first cellular network based on the USA AMPS (Advanced Mobile Phone System)			
	Handheld mobile phones 'the Brick' are sold for \$4,250,	1995	Pay television is launched.	2000

History of Telecommunications in



The NextG wireless network is launched.



5	The Internet's capabilities expand a social media in Opal's people to interact with each other through Facebook and YouTube. The government sells its remaining stake in Telstra in a decade long effort to privatise Australia's biggest telephone company. The launch of Australia's first online movies downloads service.
)1	Mobile phones exceeds the number of landlines (over10.7 million). E-commerce is gaining traction with 13% small and medium size businesses already participating in this new forum and a further 36% expecting to move online within the following year.
	ADSL is introduced as an electronic add-on to the

The mobile analog (AMPS) network is fully phased out.

# 2000 - 2006