



**HISTORICAL RECORD**

**OF**

**EXCHANGES**

AUCKLAND

**TOLL GROUP**

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : A.E.I.  
 FILE REFERENCE : C.E. 395/47/etc.  
 F.C.C. : CITY

EXCHANGE : AIREDALE ST (SXS)  
 TYPE : HTX (NC400)  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 11  
 DATE : 28.1.88

Sheet 1 of 2

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.		REMARKS.
		CCB.	PBX.	REG.	2-P.	11+ Note 2	Note 3		
Initial Auto	27.9.68	75	1400			40/ 1000	1475/ 1475		
St.B	9.6.69		1000				2475/ 2475		
St.B	12.12.69	50	1400			10/ 200	3925/ 3925		
St.B	16.4.71	25					3950/ 3950		
St.B	4.10.71		400				4350/ 4350		
Extn 1	3.12.71					10/ 130	4350/ 4350		
Extn 1	23.2.73					-/ 200	4350/ 4350		
Extn 2 (Part)	19.4.74	75	125	200		10/ 500	4750/ 4750		
Extn 2 Final	14.6.74	100		100			4950/ 4950	Note 1	
Extn 2 ADDM	14.7.75	-125	+25	+100			4950/ 4950		
	28.4.78	-50	+50			- 400	4950/ 4950	CB segregation partially discontinued, ANI and hybrid exchange cutover DTY 78	
P.S. 47/ 109 Addm	4.79					- +50	4950/ 4950		
IS 47/151 PT 2 Addm 38	4.6.85					- + 50	4950/ 4950		
	5.6.87							Subs. transferred to AT III, still in use as Tandem Exchange.	
								REFER NOW TO	
TOTAL	X	0	0	0	0	0	X		

- Note 1: 550 11+ Night Service Lines not included in total capacity.  
 2: Subs/Lines. (I/C +B/W +O/G)  
 3: 11+ capacity not included in total capacity  
 4: For XB equipment refer Sheet 2.

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (CROSSBAR)

MANUFACTURER : N.E.C.  
FILE REFERENCE : EIC 395/47/etc  
F.C.C. : CITY

EXCHANGE : AIREDALE ST (XB)  
TYPE : HTX (NC 400)  
TOLL GROUP : AUCKLAND  
ISSUE NO : 5  
DATE : 03.05.90

Sheet 2 of 2

EVENT	C/O DATE	EQUIPMENT.	N.G.F. CAPACITY	P.S. CAPACITY	REMARKS
Initial HTX	28.4.78	Total terminal capacity 10240 (Ind GH & SxS uniselectors)	9000	NOTE 1 6990	Hybrid exchange cutover with ANI City 78
PS. 47/ Addm, 4	4.79	Total Terminal Capacity 10240 (IND GH & SxS uniselectors)		7900	Grade of service change
Extn 1A	29.5. 1981	Total terminal capacity 15040 (IND GH & Sxs uniselectors)		8900	
Extn 1B	26.6.81	Total terminal capacity 15040 (IND GH & Sxs uniselectors)	13000	11280	Code 73
PS 47/151 ADDM2	20.7.84	B Unit Closed down completely	13000	11280	
	11.8.88	A UNIT CLOSEDOWN CUSTOMERS TRANSFERRED	TO AIREDALE	ST 5	
TOTAL					

Note 1: "A" unit sub. capacity 32 Frames

EP/AK 2  
A 11316.

Note 2: For S X S equipment refer Sheet 1.

SHT 2 155 B

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE CAPACITIES AND CUT-OVER DATES (U.A.X's)

MANUFACTURER : -  
FILE REFERENCE : CE 395/76/etc  
F.C.C. : BROWNS BAY

EXCHANGE : ALBANY  
TYPE : U.A.X.  
TOLL GROUP : AUCKLAND  
ISSUE NO : 5  
DATE : 22.11.77

EVENT	C/O DATE.	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.							REMARKS.	
		A UNITS	A UNIT LINES	R UNIT LINES/SUBS	M UNIT LINES/SUBS	MAR R/S LINES/SUBS	A UNITS	A UNIT LINES	R UNIT LINES/SUBS	M UNIT LINES/SUBS	MAR R/S LINES/SUBS	GROSS No (NOTE 2)	TOTAL CAPACITY		
Initial UMX	30.6.74														
Replaced RAX	11.11.78													75/750	
Replaced UAX	10.12.65						8	380		20/ 100	7/ 35M	500		380/ 500	
Extn 1	30.5.72	2	80		20/ 100		10	460.		40/ 200	7/ 35M	700		460/ 700	
Extn 1	(8.7.74		10				10	470		40/ 200		700		470/ 700	
2	(15.8.75		30				10	500		40/ 200		700		500/ 700	
Closed	18.11.77														Replaced by ALY TLX
TOTAL CAPACITY.		X													

- NOTES:
1. IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
  2. IN GROSS No COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
  3. STATE WHETHER RELAY SETS ARE 'M' OR 'R'. e.g. 5/25M.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER :	ATE	EXCHANGE :	AVONDALE
FILE REFERENCE :	CE 395/39/etc	TYPE :	SAX
F.C.C. :	MT ALBERT	TOLL GROUP :	AUCKLAND
		ISSUE N <sup>o</sup> :	11
		DATE :	2.12.88

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY	REMARKS.
		CCB Note 1	PBX.	REG.	2-P.			
Initial UMX	9/2/23							
Replaces ROT 7A	5/43		200		100/ 200	100/ 400	400/ 800	
Replaced Auto SXS	30/1/53	25	175	800	400/ 800		1400/ 1800	
Ext. 1	27/11/59	50	375	1975			3800/ 4200	
Ext. 2	14/8/62		200	2600	-300/ 600		6300/ 6400	
Ext. 3 (PART)	2.12.74		200				6500/ 6600	
Ext. 3 Final	26.3.75		200	200			6900/ 7000	
<b>STD</b>	<b>29.4.77</b>							ANI equipment installed and cut-over.
	20.1.78	-75	+50	+25			6900/ 7000	CCB segregation discontinued
Extn 4A	10.7.81	-	+200	+400			7500/ 7600	
Extn 5	1.7.85		200	400	-100/ 200		8000/ 8000	
Extn 6A	25.5.87			200			8200/ 8200	
Extn 6B	29.6.87		200	100			8500/ 8500	
	2.12.88		-1800	-6700			0	Subs transferred to Avondale 2 LX
<b>TOTAL.</b>	X						X	

Note 1: CCB subs included in Regular/PBX groups from 20.1.78



# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : GEC-AEI LTD  
 FILE REFERENCE : CE 395/879/etc  
 F.C.C. : NORTHSHORE

EXCHANGE : BIRKDALE  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 10  
 DATE : 30.3.87

EVENT	C/O DATE	EQUIPMENT				TOTAL CAPACITY	REMARKS
		CCB. <small>NOTE 1</small>	PBX.	REG.	2-P.		
Initial	15/12/71	25	175	800		1000/ 1000	
Stage A	17/11/72	25	175	2800		4000/ 4000	2-PL provision made from Individual groups
Extn 1A	28.5.76	-25	+25	200		4200/ 4200	
STD	27.5.77						ANI equipment installed and cut-over.
	30.9.77	-25	+25			4200/ 4200	CCB segregation discontinued
Extn 1B	20.2.80			200		4400/ 4400	
Extn 2	1.11.80			400		4800/ 4800	
Extn 3A	23.7.82			200		5000/ 5000	
Extn 3B	1.10.82			+200		5200/ 5200	
Extn 4	30.3.87			400		5600/ 5600	
DTY 91	5.4.91						Step closed Xferred to BKL3 3 PLU
TOTAL.	X	0	400	5200		X	

Note 1: CCB subs included in Regular/PBX groups from 30.9.77

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : ERICSSON  
 FILE REFERENCE : CE 395/45/ETC  
 F.C.C. : NORTH SHORE

EXCHANGE : BIRKENHEAD  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 7 (End of Sheet 1)  
 DATE : 31.10.77

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.	2-P.			
Initial JMX	27.7.14							
Closed	6.12.30							
Initial Rot 7A	20.8.42			200			200/ 200	Tempy Satellite
Replace Auto SXS	30.1.53	25	175	600	200/ 400		1000/ 1200	Name changed to Highbury
Ext. 1	18.12.58	25	375	1200			2600/ 2800	
Interim Ext	23.12.60			100			2700/ 2900	
Ext 2 Stage 1	16.3.62		200	700			3600/ 3800	
Ext 2 Stage 2	27.4.64	25		1075			4700/ 4900	3-64 name changed to Birkenhead.
Ext 3	4.12.64		600	2100	200/ 400		7600/ 8000	
Ext 4(1)	8.12.67			1000			8600/ 9000	
Ext 4(2)	29.9.68			800	100/ 200		9500/ 10000	
Ext. 4	19.4.74		-200	-300			9000/ 9500	400 withdrawn from service Directory '74. 100 mult used for R. ex No.
Addendum 1 and 3	2.9.74			200	-100/ 200		9100/ 9500	3 Reg groups restored
"	11.3.75			400	-200/ 400		9300/ 9500	From Temp. 2-P
STD	27.5.77							ANI equipment installed and cut-over.
Extn 5 (Part)	19.8.77			100			9400/ 9600	Revertive No. changed to provide addn. multiple (ref. entry 19.4.74.)
TOTAL.	X						X	



# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ERICSSON  
 FILE REFERENCE : CE 395/45/ETC  
 F.C.C. : NORTH SHORE

EXCHANGE : BIRKENHEAD I  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 12 (Sheet 2)  
 DATE : 29.4.88

EVENT.	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB. NOTE 1	PBX.	REG.	2 P.		
	30.9.77	-75	+50	+25		9400/ 9600	CCB segregation discontinued
Extn 5	31.10.77			300		9700/ 9900	
Extn 6	19.12.80			100		9800/ 10000	Revertive transferred from 4820/1 to level 42
BD II Extn 1	28.9.84			-2000		7800/ 8000	Replacement of 2000 lines (BD II Extn 1)
BD II Extn 2	10.4.87		-400	-2600		4800/ 5000	Replacement of 3000 lines (BD II Extn 2)
	29.4.88						Exchange closed down. Subs x'ferred to BD III
TOTAL.	X					X	

Note 1: CCB Subs included in Regular/PBX groups from 30.9.77

EP/AK 9  
**A 11316.**  
 AN. SHT 155 A

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : GEC  
 FILE REFERENCE : CE 395/695/etc.  
 F.C.C. : MT ALBERT

EXCHANGE : BLOCKHOUSE BAY  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 13  
 DATE : 26.5.89

EVENT.	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB. <small>Note 1</small>	PBX.	RÉG.	2-P.		
Initial Auto SXS	28/8/64	50	375	2975	200/ 400	3600/ 3800	
Ext 1A	4/68			600		4200/ 4400	
Ext 1A	27/9/68			400		4600/ 4800	
Ext 1A	29/9/69			1000		5600/ 5800	
Ext 1B 1st Stage	25/8/73			200		5800/ 6000	
Ext 1B Final Stage	28.2.74			400		6200/ 6400	
STD	29.4.77						ANI equipment installed and cut-over.
	4.10.77	-50	+25	+25		6200/ 6400	CCB segregation discontinued.
Extn.2	1.9.80			200		6400/ 6600	
Extn 2B	12.6.81			200		6600/ 6800	
Extn 2C	11,9.81			+100 +200	-200 400	6700/ 6800	
Extn 3 ADDM 2	23.5.85			300 +200		7000/ 7000	Includes 2-party upgrade
Extn 4A	19.1.87			200		7200/ 7200	
Extn 4B	2.2.87		200			7400/ 7400	
Extn 4C	27.4.87			400		7800/ 7800	
	26.5.89		-200	-2200		5400/ 5400	2400 lines transferred to BH0 2 LX
TOTAL.	X	0	400	5000	0	X	

Note 1: CCB subs included in Regular/PBX groups from 4.10.77.

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : ERICSSON  
 FILE REFERENCE : CE 395/99 /etc  
 F.C.C. : BROWNS BAY

EXCHANGE : BROWNS BAY  
 TYPE : M.A.X.  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 14 (END OF SHEET ONE)  
 DATE : 7.4.89

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB. <i>Note 1</i>	PBX.	REG.	2-P.	M UNIT		
UMX	1948							BSY P.O. 400 lines when closed 1958
BMSB	1958			Opened 2500 subs Closed 2900 subs + 200 M/P				BSY Line Depot. closed 3.12.71
Initial Auto SXS	3.12.71	50	950	4600	100/ 200	20/ 100	5720/ 5900	
Stage B	24.3.72			200			5920/ 6100	
Stage B	16.10.72			600			6520/ 6700	
Stage B	1.2.73			600			7120/ 7300	
PS 99/9 ADDM 4	7.5.75					100/ 500	7220/ 7800	AMX unit added
	12.9.75							(Converted to 7 digit wkg & incorporated in AMX)
PS99/9 ADDM 4	15.10.76					-20/ 100	7200/ 7700	(Link No. area UAX M unit withdrawn DTY 76
STD	3.12.76							ANI equipment installed and cut-over
	30.9.77	-50	+50					CCB segregation discontinued
Extn1	28.11.80			+200			7400/ 7900	
Extn2A	26.6.81		200	200			7800/ 8300	
	6.5.83					-100/ 500	7700/ 7800	M Party equipment withdrawn
Extn 3A	2.12.83			200			7900/ 8000	
Extn 3B	30.3.84			400			8300/ 8400	
TOTAL	X						X	

NOTE 1: CCB subs included in Regular/PBX groups from 30.9.77.

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ERICSSON  
 FILE REFERENCE : CE 395/99/ETC  
 F.C.C. : BROWNS BAY

EXCHANGE : BROWNS BAY  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 16 (SHEET 2)  
 DATE : 6.11.90

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.			
DTY '89	2.4.89		-200	-2200			5900/ 6000	2400 LINES TRANSFERRED TO BROWNS BAY NEAX 61 LX
	16.11.90	CLOSED DOWN						CUSTOMERS TRANSFERRED TO BSY 3
TOTAL.	X	0	1000	4800	100/200	0	X	

A 11316.  
 AN. SHT 1 ISS A

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

**MANUFACTURER** : ROTARY  
**EXCHANGE** : DEVONPORT I  
**FILE REFERENCE** : CE 395/25/etc  
**TYPE** : M.A.X.  
**F.C.C.** : AIREDALE ST.  
 (North Shore Section)  
**TOLL GROUP** : AUCKLAND  
**ISSUE NO** : 4  
**DATE** : 5.7.83

EVENT	C/O DATE	EQUIPMENT						TOTAL CAPACITY	REMARKS
		CCB	PBX	REG.	2-P.	4-P	SEL LVL		
Initial UMX	27/10/02								
Initial Auto Rot	13.2.26			500				500/ 500	
Ext	9.28			100	100/ 200			700/ 800	
Ext	12.30			200				900/ 1000	
Ext	9.39			200				1100/ 1200	
Replaced 7A2	6.41		1200		100/ 200	100/ 400		1400/ 1800	
Ext 1	4.12.54		1000		200/ 400			2600/ 3200	
Ext 2	3.56		400		200/ 400		1/15	3200/ 4000	Naval Base
	6.66	27*				-100/ 400		3100/ 3600	
	3.75						+30	3100/ 3600	
CLOSED	30.5.83								Replaced by DA LX
TOTAL.									

\*CCB Adapter ccts used with any PBX line to make a CCB line are not included in totals.  
 Selector level quantities not included in total capacity.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

**MANUFACTURER** : ROTARY  
**FILE REFERENCE** : CE 395/815/9  
**F.C.C.** : NORTH SHORE

**EXCHANGE** : DEVONPORT II  
**TYPE** : SAX  
**TOLL GROUP** : AUCKLAND  
**ISSUE NO** : 5  
**DATE** : 5.7.83

EVENT	C/O DATE	EQUIPMENT				TOTAL CAPACITY	REMARKS
		CB.	PBX.	REG.	2 P.		
Initial 7A2	15.11.65		1200		200/ 400	1400/ 1600	Equipment Ex TNA
Completed	1.7.66	27*	1000		400/ 800	2800/ 3400	
2 PL Added	27.9.68				100/ 200	2900/ 3600	Ex Devonport I
	3/71			400/ +800	400/ -800	2900/ 3600	2PL groups made individual
	4-74			100/ +200	100/ -200	2900/ 3600	2PL groups made individual
CLOSED	30.5.83						Replaced by DA LX
TOTAL.	X					X	

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : S.T.C.  
 FILE REFERENCE : CE 395/136/etc  
 F.C.C. : REMUERA

EXCHANGE : ELLERSLIE 1  
 TYPE : (SHOULD HAVE BEEN CALLED ELL 1)  
 S.A.X.  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 12  
 DATE : 9.9.84

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY NOTE 1	REMARKS
		CCB NOTE 4	PBX	REG.	2-P.	11+ NOTE 2		
Initial AutoSxS	5/3/54	25	775	2000	400/800		3200/ 3600	
Extn 1	3/11/61	25	200	1175			4600/ 5000	
Advance Extn 2A	27/8/65			600			5200/ 5600	
Extn 2A	10/11/67	25	375	1400	-200/400	10/ 200	6800/ 7000	CCB changed from PBX to REG equipment.
Extn 2B	16/4/71		450	600	-100/200	10/ 210	7750/ 7850	NOTE 3
Extn 3 Part 1	30/6/75			400			8150/ 8250	
Extn 3	17.10.75		200				8350/ 8450	
Extn 3B	15.10.76		200				8550/ 8650	DTY '76
STD	5.3.77							ANI equipment installed and cutover
	17.1.78	-75		+75			8550/ 8650	CCB segregation discontinued.
Extn 3B	10.7.81					-/20		
Extn 3C	10.7.81		200			-/50	8750 8850	
Extn 4A	17.8.82		200				8950/ 9050	
Extn 4B	10.9.82			200			9150/ 9250	
Closed	7.9.84							Replaced by ELL LX
TOTAL								

- Notes 1 11+ not included in total capacity  
 2 11+ shown Subs/Lines (I/C+O/G+B/W)  
 3 11+ 150 N/Serv. lines not included in total capacity  
 4 CCB subs included in Regular/PBX groups from 17.1.78.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : S.T.C.  
 FILE REFERENCE : CE 395/877/etc  
 F.C.C. : NORTH SHORE

EXCHANGE : FORREST HILL I  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 6  
 DATE : 10.4.87

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB Note 1	PBX.	REG.	2-P.			
Initial Part 1	14.4.72	25	175	800			1000/ 1000	
Part 2	17.11.72	25	175	2800			4000/ 4000	2 PL Provision made from Indv. Groups
STD	3.12.76							ANI equipment installed and cut-over
	30.9.77	-50	+50				4000/ 4000	CCB segregation discontinued
	10.4.87							FOR I closed down Subs Xfrd to FOR III
TOTAL.								

NOTE 1: CCB subs included in Regular/PBX groups from 30.9.77.



# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

**MANUFACTURER** : STRONGER  
**FILE REFERENCE** : UNKNOWN  
**F.C.C.** : FORT ST.

**EXCHANGE** : FORT ST.  
**TYPE** : C.A.X.  
**TOLL GROUP** : AUCKLAND.  
**ISSUE NO** : 2  
**DATE** :

EVENT	C/O DATE	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB	PBX.	REG.	2-P.		
Initial Manual	10.10.98						
Replaced EMSB	12.11.98						1500 lines
Ext 1.	1902						600 lines = 2100 lines
	1905						300 lines = 2400 lines
New SXS	1912			500		500/ 500	Strawger & EMSB both in operation
Ext 1	1913			700		1300/ 1600	
Ext 2	1919			400		1700/ 2000	
Ext 3	1920			200		1900/ 2200	
ot. closed	13.3.25						Replaced by Wellesley St.
							Equipmt. transferred to Napier and destroyed by fire in 1951 during the Napier earthquake.
TOTAL				1800			

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : AEI  
 FILE REFERENCE : GE 395/885/etc  
 F.C.C. : REMUERA

EXCHANGE : GLENDOWIE  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 9  
 DATE : 9.11.87

EVENT	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB. Note 1	PBX.	REG.	2-P.		
Initial Auto Sxs Part 1	16/4/77	50	175	2575	100/ 200	2900/ 3000	
Part 2 (Initial)	17.11.72			1000		3900/ 4000	2000 lines installed but 1000 lines withheld from Syce
STD	5.3.77						ANI equipment installed and cutover
Part 2 (Final)	2.9.77			1000		4900/ 5000	Final 1000 lines commissioned
	17.1.78	-50	+25	+25		4900/ 5000	CCB segregation discontinued
	10.10.84			+200	-100/ 200	5000/ 5000	2 party upgraded
Extn 1B	1.8.85			200		5200/ 5200	
Extn 2	9.11.87		200	400		5800/ 5800	
TOTAL.	X	0	400	5400	2	X	

Note 1: CCB subs include in Regular/PBX groups from 17.1.78

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : GEC  
 FILE REFERENCE : CE 395/524/etc  
 F.C.C. : HENDERSON

EXCHANGE : GLEN EDEN  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 15 (Sheet 1)  
 DATE : 1.4.85.

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.	2-P.	RUR		
Initial Auto SXS	3/11/61	20	580	1600	100/200		2300/2400	
RAX Unit installed	26/3/65					10/100	2310/2500	Piha area subs served by R.A.X. Unit
Ext 1	2/12/66			600			2910/3100	FR ON AK 27/9/68
Ext 2	31/8/70	30	-5	375			3310/3500	
Ext 2	4/12/70			600			3910/4100	
	1/6/73					5/50	3915/4150	Additional relief for Piha area
Ext 3A	30/8/73			1000			4915/5150	
	30/11/73					-15/150	4900/5000	Rural Eqpt withdrawn from service (Piha UAX C/O)
Ext 3B	9/7/74		-200	Note 1 800			5500/5600	
Ext 4	17.12.79		+25	+375			5900/6000	
Ext 5A	8.4.81			+200			6100/6200	
Ext 5B	11.9.81			+400			6500/6600	Link numbered with AK. Changed from AMX to SAX. Div. BT
STD	13.11.81	-50		+50			6500/6600	ANI Cutover. Segregation Discontinued.
	4.12.81						6500/6600	FCC Changed to MAB from HSN
	12.12.83						6500/6600	F.C.C. Revert to HSN from MAB.
Extn 6	11.3.85			400			6900/7000	
TOTAL.	X						X	

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : GEC  
 FILE REFERENCE : CE 395/524/etc  
 F.C.C. : Henderson

EXCHANGE : Glen Eden 4  
 TYPE : SAX  
 TOLL GROUP : Auckland  
 ISSUE NO : 17 (Sheet 2)  
 DATE : 4.7.86

EVENT.	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.		
Addm 10	29.3.85			+200	-100/ 200	7000/ 7000	2 pty upgrade
CLOSED	4.7.86						Replaced by Glen Eden LX
TOTAL.	X					X	

Note 1: The 600/600 lines of Extn 3B equipment, released for service as follows :-

200	10.11.75
200	5.4.76
200	30.6.77

PAGE 2/2  
A 11316.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

**MANUFACTURER** : AEI  
**FILE REFERENCE** : CE 395/857/etc  
**F.C.C.** : NORTH SHORE

**EXCHANGE** : GLENFIELD 4  
**TYPE** : SAX  
**TOLL GROUP** : AUCKLAND  
**ISSUE No** : 5  
**DATE** : 20.12.78

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CB.	PBX.	REG.	2 P.			
Initial Auto	12/12/69	50	750	1000	100/200		1900/ 2000	
"	13/4/70		400	600			2900/ 3000	
"	24/4/70		400	200			3500/ 3600	
"	21/6/71			400			3900/ 4000	
Ext 1	23/6/75	-25	425	200			4500/ 4600	
STD	3/12/76							ONI equip Installed and cut-over
Closed	8/12/78							Replaced by GLF LX in same SW/RM
TOTAL.	X						X	

A 11316.

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE

## CAPACITIES AND CUT-OVER DATES (U.A.X's)

MANUFACTURER : -  
 FILE REFERENCE : CE 395/883/etc  
 F.C.C. : BROWNS BAY

EXCHANGE : GREENHITHE  
 TYPE : UAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 3  
 DATE : 23 May 1978

EVENT	C/O DATE.	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.							REMARKS.
		A UNITS	A UNIT LINES	R UNIT LINES / SUBS	M UNIT LINES / SUBS	M/R LINES / SUBS	A UNITS	A UNIT LINES	R UNIT LINES / SUBS	M UNIT LINES / SUBS	M/R LINES / SUBS	GROSS No	TOTAL CAPACITY	
Initial Auto	10/12/65						7	300			7/35M	400	300/350	Flat Rate on grp centre
Ext 1	22/8/69	1	50		20/100		7	350		20/100	7/35M	500	350/500	
	4/72					7/35	7	350		20/100		500	350/500	
Closed	28/4/78													Replaced by GNH TLX DTY '78
TOTAL CAPACITY.														

- NOTES:
1. IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
  2. IN GROSS No COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
  3. STATE WHETHER RELAY SETS ARE 'M' OR 'R'. e.g. 5/25M.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER :	S.T.C.	EXCHANGE :	HENDERSON I
FILE REFERENCE :	CE 395/166/etc.	TYPE :	MAX
F.C.C. :	HENDERSON	TOLL GROUP :	AUCKLAND
		ISSUE NO :	16 (END OF SHEET ONE)
		DATE :	19.4.83

EVENT	C/O DATE	EQUIPMENT				TOTAL CAPACITY	REMARKS
		CB.	PBX.	REG.	2 P.		
Initial UMX	21.2.20						
Replaced BMSB	9.12.49	Initial installation 900 lines					Extended to 1350 lines 1956, Extended to 2400 lines 1960.
Initial AUTO	12.12.69		400	1400	100/ 200	1900/ 2000	BMSB 2400 lines retained in service until 4.12.70
Stage A	18.3.70	75	125	800		2900/ 3000	
Stage B	4.12.70	25	775	3200		6900/ 7000	Link numbered with MSY and TAT free calling on A
Ext 1 Stage 1	12.8.74		200	800		7900/ 8000	
Ext 1 Stage 2	24.11.75		200	600	-100/ 200	8600/ 8600	
Ext 1 Stage 2 Pt 2	3.3.78			200		8800/ 8800	
	28.5.79	-25	+25			8800/ 8800	CCB capacity reduced.
Ext 1 Stage 2C	6.8.79			200		9000/ 9000	
Ext 2	14.12.79		+200			9200/ 9200	
Extn 2 Addm 2	28.11.80	-75	+75 +200	+200		9600/ 9600	ANI cutover. CCB Segregation Discontinued
	11.9.81					9600/ 9600.	Link numbered with Auckland. Dty'81.
Extn 2C ADDM 3	18-1.82			+200		9800/ 9800	
Extn 3A Addm 4	12.7.82		+200			10,000/ 10,000	
Extn 3B Addm 4	17.9.82			+200		10200/ 10200	ONI only available (8330000-199)
TOTAL.	X					X	

EP/AK 9  
A 11316.  
AN. SHT 1 ISS A

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

**MANUFACTURER** : STC  
**FILE REFERENCE** : CE 395/166/etc  
**F.C.C.** : HENDERSON

**EXCHANGE** : HENDERSON I  
**TYPE** : MAX  
**TOLL GROUP** : AUCKLAND  
**ISSUE NO** : 18 (SHEET 2)  
**DATE** : 30.04.90

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.			
HSN II c/o	28.9.84			-200			10000/ 10000	(8330000 - 199) withdrawn from Service
DTY '90	6.04.90		-1000	-4000			5000/ 5000	5000 lines xferred HSN 2
EXCHANGE CLOSED	20.9.91							REPLACED BY HSN 2LX 61E NEAX
<b>TOTAL.</b>	X	0	2400	7600			X	

EP/AK 9  
**A 11316.**  
 AN. SHIT ISS A



# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : ERICSSON  
 FILE REFERENCE : CE 395/177/etc  
 F.C.C. : REMUERA

EXCHANGE : HOWICK  
 TYPE : AMX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 11  
 DATE : 7.10.88

EVENT.	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.	2-P.		
BMSB	1954						2400 initial, 3000 (2400 + 600 P/L) 1967, Flat Rate 1969, 3000 (2400 + 600 incl 150M) 1821
Initial AUTO	17.11.72	50	750	6200	100/ 200	7100/ 7200	
Upgrad- ing	9.3.73			100	-100/ 200	7100/ 7200	100 line ccts to be added later
Extn.1 (Part)	17.6.74			400		7500/ 7600	
Extn.1 (Part)	2.9.74			400		7900/ 8000	Final 100 line ccts. (Eqpt dependant) 2Q75
Extn.1 (Final)	16.5.75			100		8000/ 8000	100 line ccts added.
Extn. 2	18.2.77			600		8600/ 8600	
-	2.11.79	-50	+50			8600/ 8600	7 digit link numbered AK+STD <del>CCB segregation discon-</del> tinued
Extn 3	21.4.86		200	200		9000/ 9000	
Closed	7.10.88		-1000	-8000			Subs transferred to Howick 3
TOTAL	X	0	0	0		X	

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE

## CAPACITIES AND CUT-OVER DATES (U.A.X's)

**MANUFACTURER :**  
**FILE REFERENCE :** C.E. 395/896/etc  
**F.C.C. :** Henderson

**EXCHANGE :** Huia  
**TYPE :** UAX  
**TOLL GROUP :** AUCKLAND  
**ISSUE N<sup>o</sup> :** 10  
**DATE :** 3.8.87

EVENT	C/O DATE.	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.							REMARKS.		
		A UNITS	A UNIT LINES	R UNIT LINES/SUBS	M UNIT LINES/SUBS	M/R LINES/SUBS	A UNITS	A UNIT LINES	R UNIT LINES/SUBS	M UNIT LINES/SUBS	M/R LINES/SUBS	GROSS N <sup>o</sup> (NOTE 2)	TOTAL CAPACITY			
Initial													2 10	100	80 100	AC3 June's
C/O	6.4.72						2	80							90 100	
	27.3.78		10				2	90								
PS 896/50													-2 10	200	130 200	
Addm 2	24.3.75	1	40				3	130								
Addm 4	27.8.77		10				3	140					200		140 200	
STD	28.4.78															ONI equipment installed and cutover.
Addm 6	1.5.80		10				3	150					200		150 200	
Addm '8	18.5.84	1	50				4	200					200		200 200	
Addm	3.8.87	1	50				5	250					300		250 300	
CLOSURE	5.4.91															SUBS XFERRED TO TO PCM TITIRANGI
TOTAL CAPACITY.							5	250					300		250 300	

- NOTES:**
1. IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
  2. IN GROSS N<sup>o</sup> COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
  3. STATE WHETHER RELAY SETS ARE 'M' OR 'R'. e.g 5/25M.

# AND CUT-OVER DATES (CROSSBAR)

MANUFACTURER : NEC  
 EXCHANGE : KUMEU  
 FILE REFERENCE : EIC 395/212/109 TYPE : LX (NC460)  
 TSC : HENDERSON TOLL GROUP : AUCKLAND  
 ISSUE NO. : 7  
 DATE : 2.4.93

Event	C/O Date	Extension Equipment			NGF Capacity	Total Capacity	Remarks
		LLF	SILF	Terminal Capacity			
UMX	Approx 1918	-	-	-	-	-	
	1970	-	-	-	-	-	5X100 Subs Positions Converted to Group Control
	1976	-	-	-	-	-	UMX Closed
Initial X/B Auto	16.1.76	3	4	1280	2000	1280	
Extn 1	1.9.80	-	2	400	2000	1680	
Extn 2	28.9.84	1	1	360	2000	2040	
Extn 3	24.10.86	4	1	840	3000	2880	
CLOSED	2.4.93						CUSTOMERS XFERRED TO KUMEU 2 RLU
Total		8	8				

EP/AK 9

## HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER:	G.E.C.	EXCHANGE :	MANGERE
FILE REFERENCE :	C.E. 395/968/etc.	TYPE :	MAX
F.C.C. :	PAPATOETOE	TOLL GROUP :	AUCKLAND
		ISSUE NO :	23 (Sheet 1 of 2)
		DATE :	2.6.88

EVENT	C/O DATE	EQUIPMENT							REMARKS
		CB	PBX	REG	11+	SEL LEV ACCESS	DDI TRUNK	NOTE 1	
Initial UAX	20.3.70							700/700	14 'A' Units
	5.4.74								UAX MRE II Closed down
Initial MAX Stage 1	5.4.74	25	575	1400				2000/ 2000	
Stage 2	12.9.75	50	1150	2800		2/110		6000/ 6000	MRE I UAX closed Selector level access provided
	16.3.77	+25	-25					6000/ 6000	Increased requirement for CCB No'
	12.8.77					+1/0		6000/ 6000	Additional selector level access provided.
	2.11.79					+0/50		6000/ 6000	7 digit link numbered AK
Extn 1	17.12.79		+200	+200				6400/ 6400	
	7.8.81			+200	10/ 240	-1/160		6600/ 6600	11+ installed
968/51 Adm 3	23.1.82						20	6600/ 6600	DDI introduced
STD	19.2.82	-100	+100					6600/ 6600	ANI equipment installed & cut-off CCB segregation discontinued.
Extn 2	26.8.85			+400				7000/ 7000	
Extn 3	7.10.85		+400	+200				7600/ 7600	
Extn 4A	23.2.87			+200				7800/ 7800	
Extn 4B	23.3.87		+200	+200		+1/0	40	8200/ 8200	Digit absorb R/S removed from selector level. Additional DDI
Extn 5A	23.7.87					+1/0	30	8200/ 8200	DDI only
TOTAL	X							X	

Note 1: Selector level, 11+ and DDI are not included in total capacity.  
 Note 2: Selector level and 11+ use common equipment. (U/S and U/D).  
 Currently all Selector levels have DDI TKS.

HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES  
AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER	: G.E.C.	EXCHANGE	: MANGERE
FILE REFERENCE	: C.E. 395/968/etc.	TYPE	: MAX
F.C.C.	: PAPATOETOE	TOLL GROUP	: AUCKLAND
		ISSUE NO	: 25 (Sheet 2 of 2)
		DATE	: 27.11.90

EVENT	C/O DATE	EQUIPMENT							REMARKS
		CB	PBX	REG	11+	SEL LEV ACCESS	DDI TRUNK	NOTE 1	
Extn 5	30.5.88		200	200				8600/ 8600	
	30.11.90	<del>CLOSED DOWN CUSTOMERS TRANSFERRED MRE3</del>							
TOTAL	X		2800	5800		10/ 240 <sup>4/</sup>	90		X

Note 1: Selector level, 11+ and DDI are not included in total capacity.  
 2: Selector level and 11+ use common equipment. (U/S and U/D).  
 Currently all Selector levels have DDI TKS.

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE

## CAPACITIES AND CUT-OVER DATES (U.A.X's)

**MANUFACTURER :**  
**FILE REFERENCE :** CE395/505/etc  
**F.C.C. :** PAPATOETOE

**EXCHANGE :** MANGERE I  
**TYPE :** UAX  
**TOLL GROUP :** AUCKLAND  
**ISSUE N<sup>o</sup> :** 3  
**DATE :** 12 SEPTEMBER 1975

EVENT	C/O DATE.	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.							REMARKS.	
		A UNITS	A UNIT LINES	R. UNIT LINES/SUBS	M. UNIT LINES/SUBS	M/R LINES/SUBS	A UNITS	A UNIT LINES	R. UNIT LINES/SUBS	M. UNIT LINES/SUBS	M/R LINES/SUBS	GROSS N <sup>o</sup> (NOTE 2)	TOTAL CAPACITY		
Initial JMX	4/9/16														
Closed	31/7/41														
R'opened JAX	18/11/60						8	400				400	400/400	Flat rate on AK	
Ext 1	29/11/65	4	200				12	600				600	600/600		
Ext 2	12/12/69	2	100				14	700				700	700/700		
Closed	12/9/75													Replaced by MRE MAX Stage 2	
TOTAL CAPACITY.		<del> </del>													

- NOTES:
1. IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
  2. IN GROSS N<sup>o</sup> COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
  3. STATE WHETHER RELAY SETS ARE 'M' OR 'R'. e.g. 5/25M.

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

**MANUFACTURER** : GEC  
**FILE REFERENCE** : CE 395/850/etc  
**F.C.C.** : HENDERSON

**EXCHANGE** : MASSEY I  
**TYPE** : MAX  
**TOLL GROUP** : AUCKLAND  
**ISSUE NO** : 8  
**DATE** : 19.6.87

EVENT.	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.	2-P.		
Stg A	4/12/70	50	175	2975	100/ 200	3300/ 3400	
STD	28.11.80	-50	+25	+25		3300/ 3400	ANI Installed. CCB Segregation discontinued
	11.9.81					3300/ 3400.	Link numbered with Auckland. Dty.81
Extn 1 Part A	27.11.81			200		3500/ 3600	
Extn 1 Part B	1.6.82			200		3700/ 3800	
	19.6.87						Exchange closed. Subs xferred to Massey II
TOTAL.	X					X	

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'S & U.A.X.'S).

MANUFACTURER : ATE  
 FILE REFERENCE : OE 395/38/etc  
 F.C.C. : MT ALBERT

EXCHANGE : MT ALBERT I  
 TYPE : MAX (S x S)  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 9  
 DATE : 16.6.89

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.	2-P.	4-P		
Initial 7A2Rot	6/8/42			900	100/ 200	100/ 400	1000/ 1400	
Replaced SxS(MAX)	30/1/53	50	350	3200	400/ 800		4000/ 4400	
Ext 1	4/60	50	350	1200			5600/ 6000	
Ext 2	1962	-50	275	775			6600/ 7000	
Ext 2	21/6/63	50		950			7600/ 8000	
Ext 3	4/12/64			2400	-200/ 400		9800/ 10000	
Ext 3	19/9/69			1000			10800/ 11000	
Ext 4	4/12/70						10800/ 11000	Parent Equip Only
Ext 4	28/2/74			600			11400/ 11600	
Ext 4	19/4/74						11400/ 11600	Parent Equip and Final Conversion to 6 Figure
STD	28.4.78	-100	+25	+75) -1600)			9800/ 10000	1600 REG lines x'ed MAB II, ANI C/O and CB segregation discontinued PTY '78
	28.4.78			+200	-100/ 200		9900/ 10000	2 PTY Upgrade.
Addm 101	1.3.85			+200	-100/ 200		10000/ 10000	2 Pty upgrade
	16.6.89		-1000	-9000				SUBS TRANSFERRED TO MT ALBERT 4 LX (10,000)
TOTAL.	X	-	0	0	0		X	



# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER :	BELL TELEPHONE M.F.G.	EXCHANGE :	MT EDEN I
FILE REFERENCE :	CO ANTWERP	TYPE :	ROT MAX
F.C.C. :	CE 395/19/etc	TOLL GROUP :	AUCKLAND
	CITY	ISSUE NO :	4
		DATE :	7.8.84

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB.	PBX.	REG.	2-P.	4-P		
Initial Strowger	1920			500			500/ 500	RUR
Replaced 7A	14/3/25		200	1400		100/ 400	1700/ 2000	
Ext 1	12/27			400			2100/ 2400	
Ext 2	9/29			800	100/ 200		3000/ 3400	
Ext 3	3/33			600	200/ 400		3800/ 4400	
Ext 4	6/38			400			4200/ 4800	
Ext 4A	8/40			200	100/ 200		4500/ 5200	
Ext 5	6/41			200			4700/ 5400	
Ext 6	5/7/57			600			5300/ 6000	
Ext 7 Part 1	29/8/58			800			6100/ 6800	
Ext 7 Part 2	3/59	59	400				6559/ 7259	
Ext 8	7/62			740			7199/ <del>7999</del>	
	3/67	-59		60		-100/ 400	7200/ 7600	
	6/69				100/ 200		7300/ 7800	
Closed	20.7.84							Replaced by Mt Eden III LX
TOTAL.	X						X	

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER :	GEC	EXCHANGE :	MT EDEN II
FILE REFERENCE :	CE 395/48/etc.	TYPE :	MAX
F.C.C. :	CITY	TOLL GROUP :	AUCKLAND
		ISSUE No :	10
		DATE :	27.4.89

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CB.	PBX.	REG.	2 P.	11+ Note 2	Note 1	
Initial Auto.	3.3.67	100	350	1350		10/ 150	1800/ 1800	
X1A St.B	19.6.69		400	1000			3200/ 3200	
X1B St.B	2.9.71			600		0/25	3800/ 3800	
X1Part1 Stage B	15.10.7		200	400			4400/ 4400	
Ext.1XB	12.5.72			200			4600/ 4600	Note 3
	5.2.73	25	-25				4600/ 4600	Increased requirement for CCB Nos.
	12.3.75					0/25		Additional 11+ uni-selector added.
STD	29.4.77							ANI equipment installed and cut over.
	4.10.77 Note 4	-125	+75	+50			4600/ 4600	CCB segregation discontinued.
	20.10.78					10/ 100	4600/ 4600	Additional 11+ equipment installed.
PB 81/9	25.1.82					0/ -50		Line ccts transferred.
	12.5.89			-2000			2600/ 2600	2000 lines x/fer to MODIII
TOTAL.	X	0	1000	1600		20/250	X	*Note 4

NOTE 1: 11+ Not included in total capacity.  
 NOTE 2: SUBS/LINES (I/C & O/G & B/W)  
 NOTE 3: 11+ 100 NIGHT SERVICE LINES not included in total capacity.  
 NOTE 4: 11+ has a limitation of 15 subs  
 NOTE 5: CCB subs included in Regular/PBX groups

A 11316.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ERICSSON  
 FILE REFERENCE : CE 395/262/etc  
 :

EXCHANGE : MT ROSKILL  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE N<sup>o</sup> : 11  
 DATE : 22.11.92

EVENT	C/O DATE.	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CB <small>Note 1</small>	PBX.	REG.	2 P.		
Initial Auto	30.1.53	25	175	1200	200/ 400	1600/ 1800	
Extn 1	27.11.59	50	575	1775	100/ 200	4100/ 4400	
Extn 2	22.5.61	-25		625		4700/ 5000	Borrowed from Three Kings
Extn 2A	30.8.63			800	-100/ 200	5400/ 5600	
Extn 3 Stg A	28.8.70		200	600	-100/ 200	6100/ 6200	
STD	29.4.77						ANI equipment installed and cut-over
	4.10.77	-50	+50			6100/ 6200	CCB segregation discontinued
Extn 4	4.5.79		200	1000		7300/ 7400	Held unused awaiting MAB- MTL sector change. In service date: 2.11.79...
Extn 5A	13.7.87			200	-100/ 200	7400/ 7400	2 pty upgrade
Extn 5B	2.10.87		200	200		7800/ 7800	
Extn 5C	16.2.88		200	200		8200/ 8200	
DTY 90	6.4.90		-600	-1800		5800/ 5800	2400 Lines xferred to MTL 2.
CLOSED	22.11.92						CUSTOMER XFERRED TO MTL 3
TOTAL.	X	0	1000	4800	0	X	

Note 1: CCB subs included in Regular/PBX group from 4.10.77

EP/AK 9  
A 11316.

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : GEC  
 FILE REFERENCE : C.E. 395/339/etc  
 F.C.C. : HENDERSON

EXCHANGE : NEW LYNN  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 13  
 DATE : 2.12.88

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB. Note	PBX.	REG.	2-P.			
Initial SXS Auto	3.3.67	50	550	2800	100/ 200		3500/ 3600	
Stage B Pt 1	16.4.71		200	600			4300/ 4400	
Stage B Pt 2	6.3.72		400	200			4900/ 5000	
Ext. 1 (PART)	19.4.74		200				5100/ 5200	
Ext 1 (Final)	24.5.74			400			5500/ 5600	
STD	29.4.77							ANI equipment installed and cut-over.
	20.1.78	-50	+50				5500/ 5600	CCB segregation discontinued
Extn 2A	12.6.81			200			5700/ 5800	
Extn 3	30.3.84			400			6100/ 6200	
	12.12.85			200	-100 200		6200 6200	2 party upgrade
Extn 4 (1)	31.10. 86		200	200			6600 6600	
Extn 4 (11)	16.3.87			200			6800 6800	
	2.12.87							TSC changed from Mt Albert to Henderson.
	2.12.88							Exchange closed down Subs xferred to New Lynn LX.
TOTAL.		0	0	0				

Note 1: CCB subs included in Regular/PBX groups from 20.1.78.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (CROSSBAR)

MANUFACTURER : ATE  
 FILE REFERENCE : E.AK. 131/501/2  
 F.C.C. : ITMC

EXCHANGE : N.Z. GATEWAY  
 TYPE : ATE 5005T XBar  
 TOLL GROUP : -  
 ISSUE NO : 4  
 DATE : 12.2.80

EVENT	C/O DATE	EQUIPMENT	TOTAL CAPACITY	REMARKS
Initial	19.3.69	24 GS3 Positions	60 *	*B/W Int'n'l Trunks
X1	4.6.71	36 " "	100 *	* " " "
X2	22.9.72	48 " "	160 *	* " " "
X3	13.9.74	58 " "	208 *	* " " "
Relief	14.12.78	17 GS3 Positions at AUX TMX	208+ 20 0G AUX Direct SYD	Also 55ccts AK-SYD Bypassing Gateway
GTY I	2.12.79	58 GS3 Positions closed down		Closed down NZ Gateway and replaced with GTY II
	12.1.80	17 GS3 Positions in AUX TMX closed down.		All equipment in Civic House closed down and removed.
TOTAL	X		X	

A 11316

AN SH 2 155A

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : A.T.E.  
 FILE REFERENCE : C.E. 395/22/etc.  
 F.C.C. : MT ALBERT

EXCHANGE : ONEHUNGA  
 TYPE : S.A.X.  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 8 (End of Sheet 1)  
 DATE : 14.10.76

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB.	PBX.	REG.	2-P.	1+ Note 1+2	Note 3	
Initial UMX	7/6/05							
Initial 7A ROT	23/12/24			400			400/ 400	
Extn	29/8/29			200			600/ 600	
Extn	8/35				100/ 200		700/ 800	
Replaced 7A2 ROT	6/41		800		100/ 200		900 1000	
Replaced SXS Auto	5/3/54	50	550	1600	300/ 600		2500/ 2800	
Extn 1	26/6/59		225	975			3700/ 4000	
Extn 2	3/11/61			800			4500/ 4800	
Extn 2	4/62			200			4700/ 5000	
Interim Extn	3/65			600			5300/ 5600	
Extn 3	1/7/66			400			5700/ 6000	
Extn 3	3/67	25		775	-100/ 200		6400/ 6600	Progressively C/O 7/66 - 3/67
Extn 4	18/11/69		575	425			7400/ 7600	
Extn 5 Part	22/3/73			200			7600/ 7800	
Extn 5 Part	24/11/73		200				7800/ 8000	
Extn 5 Final	15/3/74			200		10/ 270	8000/ 8200	
TOTAL	X						X	

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : A.T.E.  
FILE REFERENCE : C.E. 395/22/etc  
F.C.C. : Mt. Albert

EXCHANGE : ONEHUNGA I  
TYPE : S.A.X.  
TOLL GROUP : AUCKLAND  
ISSUE No : 17 (Sheet 2)  
DATE : 22.7.80

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS.
		CCB Note 4	PBX.	REG.	2-P.	11+ Note 1 & 2	Note 3	
Extn 6	2.12.74			600			8600/ 8800	
STD	29.4.77							ANI equipment installed and cutover
	4.10.77	-75	+50	+25			8600/ 8800	CCB segregation discontinued.
	31.5.79					0/ 40	8600/ 8800	U/D lines x/ferred.
Extn 7	6.6.80		+200	+200			9000/ 9200	
Extn 8A	10.6.84		+200	+200			9400/ 9600	
	28.9.84		-1200	-2400		-10/ 230	5800/ 6000	Replacement of 3600 and 11+ lines with SPC
	30.11.84			+400	-200/ 400		6000/ 6000	2 Party upgrade
	22.7.88		-800	-5200			0	EXCHANGE CLOSED REPLACED BY DN. II LX
TOTAL Sht 1&2		0	0	0				

- Note 1: 11+ Night Service lines not provided in this exchange.  
 Note 2: Subs/Lines (Note: I/C + O/G + B/W).  
 Note 3: 11+ not included in total capacity.  
 Note 4: CCB subs included in Regular/PBX group from 4.10.77

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : AT&T  
 FILE REFERENCE : CE 395/291/etc  
 F.C.C. : PAPATOETOF

EXCHANGE : CHAMBERS  
 TYPE : TANDEM  
 TOLL GROUP : AUCTION  
 ISSUE NO : 12  
 DATE : 7.11.86

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CB.	PBX	REG	2 P.	11+ Not		
Initial BNX	17/11/79							
Replace BNSB	24/1/83						6000 6000	6000 lines 6000 lines
Initial Auto Sw	15/11/83	75	925	3600	200/ 400		800 5000	flat rate to grow center
Interim Ext	15/11/83		200	600	100/ 200		5700 6000	
Ext 1	16/1/84		400	200	200/ 400		6500 7000	2000 growth converted to 2 P/L
Ext 2 Stage A	5/1/71	25	375	500			7300 7800	
Stage B	3/7/72		200	400	100/ 200		8000 8600	1000 growth added to 1 P/L
PS291/53 Addn 1	12/9/77		200	200	400/ 800		7200 7600	4000 growth added to 1 P/L lines
PS291/53 Addn 1	1/3/76	25	375	500			7600 8100	4000 growth added to 1 P/L lines
PS291/53 Addn 1	1/4/76			200			7400 7600	2000 growth added to 1 P/L lines
PS291/53 Addn 3	1/11/76						7400 7600	2000 growth added to 1 P/L lines
Ext 3	10/7/81	25	375	500			7600 7800	2000 growth added to 1 P/L lines
	1/1/84						7400 7600	
	4.2.84					0/50	7400 7600	Additional 11y U.S.
Ext 3	15.5.85			200	100/ 200		7500 7600	2 party upgrade
PS 291/ 309	7.11.86		2000	5400	100/ 200	21/ 315	0	5400 lines transferred to WH 11 EX. Level 27X Transfer to 311.84
TOTAL		0	0	0	0	0		

E.P.A.  
A. 11.86



# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : G.E.C.  
FILE REFERENCE : CE 395/698/etc  
T.S.C. : PAPATOETOE

EXCHANGE : OTARA  
TYPE : MAX  
TOLL GROUP : AUCKLAND  
ISSUE NO : 12 Sheet 1  
DATE : 1.4.85

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.	MP		
Initial SXS Auto	10/12/65	50	350	1400	100/ 200	100/ 500	2000/ 2500	Flat-rate on group centre Stage 1
Stage 2	23.2.66		200	800			3000/ 3500	
Stage B	28.8.70		200	400			3600/ 4100	
Stage B	2.9.71			400			4000/ 4500	
Ext 1A	6.9.74	25	375				4400/ 4900	
Ext 1B	29.10.76			200			4600/ 5100	
Ext 1 Part 2	23.9.77		200				4800/ 5300	
	2.11.79						4800/ 5300	7 Digit link numbered AK
	11.9.81					-100/ 500	4700/ 4800	M Pty upgrade Dty '81
Extn 2	16.11.81		200				4900/ 5000	
S.T.D.	19.2.82	-75	+75				4900/ 5000	ANI Equip. Installed and cutover. CCB discrimina- tion discontinued
Extn 3A	31.3.82					11+ 10/80	Note 1 4900/5000	11+ equip installed
Extn 3B	6.5.83			200			5100/ 5200	
	14.8.84					-/50	5100/ 5200	
Extn 4 PART 1	29.3.85		200	200	-100/ 200		5400/ 5400	2 Pty upgrade
TOTAL								

T.E.A.

Note 1 11+ not included in total capacity

A 11316.

AN ENT 155 A

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : GEC  
 FILE REFERENCE : CE 395/698/etc  
 F.S.C. T.S.C. : PAPATOETOE

EXCHANGE : OTARA  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 3 Sheet 2  
 DATE : 7.10.88

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CB.	PBX.	REG.	Sel. Lev Access	11+ NOTE/		
Extn 4	29.3.85				1/15		5400/ 5400	DDI Introduced
Extn 5	18.11.85		200	200			5800/ 5800	
Closed	7.10.88		-2000	-3800	-1/15	-10/130	0	Subs transferred to Otara 2LX
TOTAL		0	0	0	0	0		

NOTE/ 11+ and DDI not included in total Capacity

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : GEC  
 FILE REFERENCE : CE 395/813/etc  
 F.C.C. : REMUERA

EXCHANGE : PAKURANGA  
 TYPE : S.A.X.  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 11  
 DATE : 31.12.81

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB Note 1	PBX.	REG.	2-P.			
Initial SAX	1/3/71	50	350	1800	100/ 200		2300/ 2400	200 REG mult downgraded to Temp 2P
Extn 1	13/10/71			600			2900/ 3000	
Extn 1	17.11.72			1000			3900/ 4000	
" 1	5.1.73			1000			4900/ 5000	
Extn 2A	29.3.76			+200	100/ 200		5000/ 5000	200 REG mult. reinstated
Extn 2A	28.5.76		200	400			5600/ 5600	
Extn 2B	28.1.77			200			5800/ 5800	
STD	5.3.77							ANI equipment installed and cutover
	17.1.78	-50	+50				5800/ 5800	CCB segregation discontinued
Extn 2B	3.3.78			400			6200/ 6200	
Extn 2B	6.10.80		200				6400/ 6400	
Extn 2C	12.6.81		200	200			6800/ 6800	
Extn 3	6.5.83			600			7400/ 7400	
Extn 4	27.4.87		200	200			7800/ 7800	
EXTN 5	30.10.89			200			8000/ 8000	
CLOSED	5.4.91							SUBS TRANSFERRED TO PGA 3 LX
TOTAL	X	0	1520	600			X	

Note 1: CCB subs included in Regular/PBX groups from 17.1.78.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

**MANUFACTURER** : E.T.L.  
**FILE REFERENCE** : CE 395/311/etc  
**F.C.C.** : PAPATOETOE

**EXCHANGE** : PAPATOETOE  
**TYPE** : MAX  
**TOLL GROUP** : AUCKLAND  
**ISSUE NO** : 14 (End of Sheet 1)  
**DATE** : 1.7.82

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.	11+ Note 2		
Initial UMX	26.3.13							
Replaced BMSB	24.5.52						Opened 900 lines extended 1890 lines 1953/54 extended 2640 lines 1960	
	1.10.63							all toll traffic handled at AK AUX
replaced SxS Auto	10.12.65	75	1325	5400	100/ 200		6900/ 7000	
Stage AII Ins	14.10.69		200	400			7500/ 7600	
Stg B	30.4.71			400			7900/ 8000	
Stg B	11.71			1000			8900/ 9000	
Extn 1 Part 1	12.7.74			400			9300/ 9400	
Extn 1 Part 2	4.10.74			600	-100/ 200		9800/ 9800	
Extn 1 Final	12.9.75					10/ 160	9800/ 9900	
	18.4.77			+100			9900/ 9900	Note 3
	28.4.78					0/ 110	9900/ 9900	DTY 78
	11.78					0/40	9900/ 9900	40 U/S temp. utilised from 11+ N/S
	21.11.79					0/50	9900/ 9900	7 digit link numbered
Extn 2	15.8.80		400	400			10700/ 10700	800 line extension.. P.S. 311/52
Extn 2P	27.7.81			600			11300/ 11300	
TOTAL.	X						X	

Sheet 1 of 2

EP/AK 9

A 11316.

AN. SHT 1 ISS A

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ETL  
 FILE REFERENCE : CE 395/311/etc  
 F.C.C. : PAPATOETOE

EXCHANGE : PAPATOETOE  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 17 (Sheet 2)  
 DATE : 7.10.88

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CB.	PBX.	REG.	2 P.	11+ Note 2	Note 1	
Addm. 2	11.9.81	-75	75				11300/ 11300	STD with ANI CCB segregation
Extn 3	29.10.82			+400			11700/ 11700	discontinued. Dty.81
Closed	7.10.88		-2000	-9700	-10/ 360			Subs transferred to Papatoetoe 3
TOTAL.	X		0	0		0	X	Sheet 2 of 2

Note 1: 11+ not included in total capacity.  
 Note 2: Subs/lines (I/C + O/G + B/W).  
 Note 3: 11+ Night Service lines served from Regular multiple.

EP/AK 9  
**A 11316.**  
 AN. ISS A

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE CAPACITIES AND CUT-OVER DATES (U.A.X's)

MANUFACTURER :  
 FILE REFERENCE : C.E. 395/807/50  
 F.C.C. : Henderson

EXCHANGE : Piha  
 TYPE : UAX  
 TOLL GROUP : Auckland  
 ISSUE No : 10  
 DATE : 3.9.86

EVENT	C/O DATE.	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.							REMARKS.		
		A UNITS	A UNIT LINES	R UNIT LINES / SUBS	M. UNIT LINES / SUBS	MAR. R/S LINES / SUBS	A UNITS	A UNIT LINES	R UNIT LINES / SUBS	M. UNIT LINES / SUBS	MAR. R/S LINES / SUBS	GROSS No (NOTE 2)	TOTAL CAPACITY			
Initial C/O	30.11.73						3	120				6/30	200	130/200		
Extn	8.2.74		10				3	130				6/30	200	130/200		
"	8.8.77		10			1/10	3	140				5/25	200	140/200		
STD	28.4.78														ONI equipment installed and cutover	
Extn	28.5.81	1	50				4	190				5/25	200	190/200		
	2.7.81					1/5	4	190				6/30	200	190/200		
Extn	30.10.81	1	50				5	240				6/30	300	240/300		
PS807/50 Addm9	9.5.84	1	50			-1/5	6	290				5/25	300	290/300		
Closed	3.9.86														Replaced by Piha LX	
TOTAL CAPACITY.		X														

- NOTES:
1. IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
  2. IN GROSS No COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
  3. STATE WHETHER RELAY SETS ARE 'M' OR 'R'. e.g. 5/25M

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : STC  
 FILE REFERENCE : CE 395/21/etc  
 F.C.C. : CITY

EXCHANGE : PONSONBY  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 6 (End of Sheet 1)  
 DATE : 1.7.82

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB Note 1	PBX.	REG.	2-P.	4-P		
Initial Auto 7A	14/3/25			1000	300/ 600		1300/ 1600	
Ext 1	9/29			600		100/ 400	2000/ 2400	
Ext 2	9/38			200	100/ 200		2300/ 2800	
	8/6/48						2300/ 2800	600/900 Temp Mar
Replaced SxSAuto	30/1/53	75	725	2400	400/ 800		3600/ 4000	
Ext 1A	1/11/56		200	200	100/ 200		4100/ 4600	
Ext 1B	22/1/59	25	375	2000			6500/ 7000	Manual Removed
Interim Ext	4/12/64		100	900			7500/ 8000	CCB changed from PBX to REG equipment.
Ext 2A	8/12/67			1000			8500/ 9000	BLDG EXTENSION
Ext 2A	12/68			1000			9500/ 10000	
Ext 2A	4/71			600	-300/ 600		9800/ 10000	Progressively
Upgrade	14/6/71						9800/ 10000	100/200 2PL upgraded to Individual
STD	12/11/76							ANI equipt installed and cut-over
	20.1.78	-100		+100			9800/ 10000	CCB segregation discontinued.
Ext 4	27.3.81		+200				10000/ 10200	
Ext 5	8.1.82			+200			10200/ 10400	
TOTAL	X						X	

**HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES  
AND CUT-OVER DATES (STEP BY STEP)**

MANUFACTURER : STC  
 FILE REFERENCE : CE 395/21/etc  
 FCC : MT ALBERT  
 EXCHANGE : PONSONBY  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 15 (Sheet 2)  
 DATE : 27.10.89

Event	C/O Date	Equipment					Total Capacity	Remarks
		CB Note 1	PBX	REG	2P			
Extn 6A	10.12.82		200	200			10600/ 10800	
Extn 6B	10.12.82		200				10800/ 11000	
Extn 7A	30.03.84			200			11000/ 11200	
Extn 7B	30.03.84			200			11200/ 11400	
	13.10.84						11200/ 11400	TSC changed to Mt Albert
Extn 8A	1.07.85		200	200			11600/ 11800	
Extn 8B	23.07.85			200	-100 200		11700/ 11800	2 party upgrade
	15.08.86		-800	-1000			9900/ 10000	1800 lines xferred to POY II NEAX
	10.04.87			-2600			7300/ 7400	2600 lines xferred to POY II NEAX
	20.7.87			200	-100 200		7400/ 7400	2 Party Upgrade
CLOSED	27.10.89		1400	-6000				EXCHANGE REPLACED BY POY 3
TOTAL	X	0	0	0	0		X	

Note 1: CCB subs included in Reg/PBX groups from 20.1.78



# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : ATE  
 FILE REFERENCE : CE 395/20/ETC  
 F.C.C. : REMUERA

EXCHANGE : REMUERA  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE N<sup>o</sup> : 5 (End of Sheet 1)  
 DATE : 8.3.77

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB Note 5	PBX.	REG.	2-P.	4-P	NOTE 1+3	
Initial ROT 7A	14.3.25		600	1200	100/ 200	100/ 400	2000/ 2400	
Ext 1	12.29			800	100/ 200		2900/ 3400	
Ext 2	3.32			400	100/ 200		3400/ 4000	
Ext 3	3.40			600			4000/ 4600	
Ext 4	5.43			400			4400/ 5000	7A rot. closed
New SxSAuto	5.3.54	75	1725	5000	800/ 1600	11+ Note 2	7600/ 8400	
Ext 1	5.9.60	25		1175	-300/ 600		8500/ 9000	
Ext 2	3.11.61		75	925			9500/ 10000	CCB changes from PBX to Reg equipment.
Ext 3	4.4.66			1000			10500/ 11000	
Ext 4A	20.6.69		200	800			11500/ 12000	
Ext 4A	12.70			600	-300/ 600		11800/ 12000	
Ext 4A	16.4.71		200	600		10/ 140	12600/	One PBX grp used as Reg.
Ext 4A	19.10.72					+ -/ 50	12600/ 12800	Selector level access provided.
Ext 4B	30.4.73			400			13000/ 13200	
Ext 4B	18.5.73			200			13200/ 13400	
Ext 4B	31.1.74		200	200			13600/ 13800	
TOTAL.	X						X	

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ATE  
 FILE REFERENCE : CE 395/20/ETC  
 F.C.C. : REMUERA

EXCHANGE : REMUERA  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 18 (Sheet 2)  
 DATE : 17.7.84

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB NOTE 5	PBX.	REG.	2 P.	11+ NOTE 2	NOTE 1&3	
	15.10.76						13600/ 13800	Selector Level access withdrawn & night service lines provided
STD	5.03.77						13600/ 13800	ANI equipment installed and cutover
EXTN 4	3.08.77		200				13800/ 14000	
	17.01.78	-100		+100			13800/ 14000	CCB segregation discontinued
	27.07.78			+50			13850/ 14050	50 11+ N/S Lines made indv.
Extn 5A	4.3.80			+200			14050/ 14250	Additional U/D lines
Extn 5B	12.12.80		200			-/40	14250/ 14450	Additional U/D lines
Extn 6	11.12.81		200				14450/ 14650	
		Selr Level						
I.S. 20/57	8.11.82	1/20					14450/ 14650	TAB Racing Info. Service (507507)
Extn 7	10.12.82		200				14650/ 14850	
Extn 7B	18.4.83	1/10					14650/ 14850	AEPB DDI (508300-508399)
	29.5.83	1/80					14650/ 14850	TAB Telebetting (509988)
	1.5.84	1/6					14650/ 14850	Wormald 505409
Extn 8	13.7.84			400			15050/ 15250	
TOTAL.	X						X	

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ATE  
 FILE REFERENCE : CE 395/20/ETC  
 F.C.C. : Remuera

EXCHANGE : Remuera  
 TYPE : MAX  
 TOLL GROUP : Auckland  
 ISSUE NO : 25 (Sheet 3)  
 DATE : 1E.3.89

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CB Note 5	PBX	REG.	2 P.	11+ Note 2		
		Self Lev						
Extn 9A	29.3.85		200				15250/ 15450	
Extn 9B	29.3.85			600	-200/ 400	10/ 100	15650/ 15650	2 pty upgrade 11+ group added
Extn 10A (i)	3.10.86			200			15850/ 15850	
Extn 10A (ii)	3.11.86		400	100			16350/ 16350	
Extn 10A (iii)	24.11.86			300			16650/ 16650	
	7.10.88		-2600	-6050		-20/ 330	8000/ 8000	8650 subs and 11+ transferred to RUE 2
	16.6.89		-1200	-6800				8000 SUBS XFERRED TO RUE 3
TOTAL..	X	0	0	0	0	0	X	

Note 1: 11+ not included in Total capacity  
 Note 2: 11+ shown sub/lines (I/C and O/G and B/W)  
 Note 3: 11+ 50 Night Service Lines not included in total capacity  
 Note 4:  
 Note 5: CCB subs included in Regular/PBX groups

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : Ericsson  
 FILE REFERENCE : CE 395/36/etc.  
 F.C.C. : Remuera

EXCHANGE : St Heliers  
 TYPE : S.A.X.  
 TOLL GROUP : AUCKLAND.  
 ISSUE No : 9 (Sheet 1)  
 DATE : 6.5.88.

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB. Note 1	PBX.	REG.	2-P.	4-P.		
Initial Man UMX	8.12.23							
Closed	30.11.30							
Initial Auto Rotary	6.3.39			400			400/ 400	
Ext	5.43			200	200/ 400	100/ 400	900/ 1400	
New SXS Auto	5.3.54	25	175	2000	700/ 1400		2900/ 3600	
Ext 1	30.9.60	25	200	1775	-300/ 600		4600/ 5000	
Ext 2	3.11.61	25	175	2200			7000/ 7400	
Ext 3	4.12.64			2000	-200/ 400		8800/ 9000	
Ext 3	21.6.66			600			9400/ 9600	
Ext 3	14.12.67		200	200			9800/ 10000	Addm 1 of P.S. 36/53
Ext 3 Addm 2	1.5.69			400			10200/ 10400	400 borrowed from Glenfield
Ext 3 Addm 3	11.70			-500			9700/ 9900	400 borrowed from Glenfield recovered
STD	5.3.77							+100 lines made revert. ANI equipment installed and cutover
	17.1.78	-75	+50	+25			9700/ 9900	CCB segregation discontinued
Addm 8	1.80						9410/ 9450	Subscriber capacity limited for traffic reasons
	5.11.86						9700/ 9900	Subs Capacity Limitations no longer shown
TOTAL.	X						X	

Note 1: CCB subs included in Regular/PBX groups from 17.1.78

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ERICSSON  
 FILE REFERENCE CB395/36/ETC

EXCHANGE : ST HELIERS  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : (Sheet 3)  
 DATE : 6.4.90

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.			
DTY 88	29.4.88			-2000			7700/ 7900	2000 LINES XFERRED TO SHB LX.
DTY 89	16.6.89		-200	-1800			5700/ 5900	2000 LINES XFERRED TO SHB 2 LX
DTY 90	6.4.90		-600	-4900	-200/ 400		0	EXCH. CLOSED. CUSTOMERS XFERRED TO SHB 2.
TOTAL.	X	0	0	0	200/ 0	X		

A 11316.  
 AN. SHT! ISS A

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

**MANUFACTURER :** ACS  
**EXCHANGE :** TAKAPUNA  
**FILE REFERENCE :** CC 395/762/etc  
**TYPE :** S.A.X.  
**F.C.C. :** North Shore  
**TOLL GROUP :** AUCKLAND  
**ISSUE No :** 8 (end of Sheet 1)  
**DATE :** 18.5.82

EVENT	C.O. DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB 21x2	PBX	REG	2-P			
Initial DMA	12/7/77							
Initial Auto	12/7/77			400			400/ 400	Western Electric
Ext 1	6/79			200			600/ 600	
Ext 2	9/79			200	100/ 200		700/ 800	
Ext 3	11/79			200	100/ 200		1000/ 1200	
Rep. 100 Rep. 200	11/80		2000		600/ 1200	100/ 100	2000/ 3000	11/80/81 Comp. 2000 1400/1000
New Ext 2A	12/1/80	25	100	1000	100/ 400	11+	2100/ 6000	Ext 2 Inst
Ext 2	12/1/80		200	500			6300/ 7010	Ext 2 Inst
Ext 1A	12/1/80		300	500			7000/ 8000	
Ext 1B	12/1/80		200	200	500/ 1000		9000/ 10100	Comp. Party
	12/1/80							DMB removed 12/1/80
	12/1/80				100/ 1000	Note 1	6000/ 8000	Reverted to Level 1000
Ext 1C	12/1/80			1000	2000/ 100		1000/ 8000	Party Group 2, 1, 800
STD	26/11/80							Ext 1C installed and cut over
	12/1/80	25	25				8500/ 8000	Ext 1C continued
Ext 2C/ Admin	2.11.80					10/ 10	3000/ 4000	11+ pro installed and cut over
TOTAL				1000	1000/ 10	10/ 210		

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : A.T.E.  
 FILE REFERENCE : CE 395/762/etc  
 F.C.C. : North Shore

EXCHANGE : Takapuna  
 TYPE : S.A.X.  
 TOLL GROUP : Auckland  
 ISSUE NO : 15 (Sheet 2)  
 DATE : 29.4.88

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.	11 +		
	16.3.82					0/ -50	8300/ 8400 <sup>not</sup>	uniselectors x/ferred
	14.8.84					0/ +50	8300/ 8400 <sup>Note</sup>	Uniselectors x/ferred
Extn 2	29.3.85		200	400	-100/ 200	10/ 50	8800/ 8800 <sup>Note</sup>	2 pty upgrade 11+ group added
Extn Part A	21.4.86		200				9000/ 9000	
Extn 3B	7.11.86		200				9200/ 9200	
DTY '88	29.4.88		-1200	-2000		-20/ 260	6000/ 6000	Replacement of 3200 lines and TAKAPUNA II LX cut-over
	15-3-91		CLOSED	DOWN				CUSTOMERS XFERRED TNA 3
TOTAL.	X	0	800	5200			X	

Note 1: Racks upgraded to Individual.

Note 2: CCB subs included in Regular/PEX groups from 30.9.77.

Note 3: 11+ not included in total capacity.

EP/AK 9  
**A 11316.**  
 AN. SHT 1 ISS A

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : STC  
 FILE REFERENCE : CE 395/442/etc.  
 F.C.C. : REMUERA

EXCHANGE : TAMAKI  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 9 (Sheet 1)  
 DATE : 20.6.84

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB. <small>Note 4</small>	PBX.	REG.	2 P.	11+ <small>Note 2</small>	Note 1	
Temp. Manual	23.8.48							180/270 Manual
replaced Auto SXS	5.3.54	25	175	1200	200/400		1600/1800	
Extn 1	1.9.60	25	400	375			2400/2600	
Extn 2	22.5.61		400	1600			4400/4600	
Interim Extn	11.64			600			5000/5200	
	17.12.65				100/200		5100/5400	
Extn 3	21.6.66		175	175			5450/5750	Stg A
Extn 3	21.10.66		200		400/800		6050/6750	Stg B
Extn 3	8.67	50	200	600			6900/7600	
PGA C/O	16.4.71			1000	-500/1000		7400/7600	Tempy 2 PL upgrade
PS 422/55 Addm 2	12.9.75		200	-400			7200/7400	Dty 75
	15.10.76					10/140	7200/7400	Note 3 Dty 76
STD	5.3.77							ANI equipment installed and cutover.
	17.1.78	-100	+50	+50			7200/7400	CCB segregation discontinued
	14.7.79					10/100	7200/7400	11+ capacity increased.
PS 422/55 Addm 6	16.7.82		200			-/50	7400/7600	
TOTAL.	X						X	

EP/AK 9  
A 11316.



# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : STC  
 FILE REFERENCE : CE 395/442/etc  
 F.C.C. : REMUERA

EXCHANGE : TAMAKI  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 12 (Sheet II)  
 DATE : 16.6.89

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB, Note 4	PBX.	REG.	2 P.	11+ Note 2		
							Note 1	
Addm 7	20.10.84					-/70	7400/ 7600	
PS 422/ 56	16.5.85		200	400	-200/ 400		7800/ 7800	
DTY '88	29.4.88		-1000	-3000			3800/ 3800	4000 LINES XFERRED TO TMK DTY 88
	16.6.89		-1200	-2600		-20/ 360	0	3800 LINES & 11+ XFERRED TO TMK 3
TOTAL.			0	0	0	0		

Note 1: 11+ not included in total capacity.  
 2: Subs/lines (I/C + O/G + B/W).  
 3: 11+ 100 night service lines not included in total capacity.  
 4: CCB subs included in Regular/PBX groups from 5.3.77.

EP/AK 9  
 A 11316.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : ATE  
 FILE REFERENCE : CE 395/774/etc  
 F.C.C. : HENDERSON

EXCHANGE : TE ATATU  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 11  
 DATE : 25.9.92

EVENT	C/O DATE	EQUIPMENT.				TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.	2-P.		
Initial Auto Sxs	4/12/64	25	175	2400	100/200	2700/2800	Flat rate on group centre
Initial Extn	18/12/67			200		2900/3000	
Ext 1	31/10/69		200	400		3500/3600	
Ext 1	4/12/70			400		3900/4000	5-Digit numbering link numbered to HSN & MSY
	26.6.76		-200	+200		3900/4000	
Extn.1 Adm.1	4.9.81			+200	-100/200	4000/4000	2-party upgrade completed
	11.9.81					4000/4000	Linked numbered with AK. Changed from MAX to SAX Dtv'81
STD	3.11.81	-25	+25			4000/4000	ANI Cutover. CCB Segregation Discontinuation
	4.12.81					4000/4000	FCC Changed to MAB from HSN
	12.12.83					4000/4000	F.C.C. Revert to HSN from MAB
Extn 3	29.3.85		200			4200/4200	
Extn 4	19.1.87			400		4600/4600	
Extn 4B	1.6.90		200	200		4800/4800	
CLOSED	25.9.92						CUSTOMER XFERRED TO TAT 2&3 RLU
TOTAL.		0	600.	4400			

... CAPACITIES  
 ... (NOTE: TAXES & U.A.X.'S).

12. ...  
 13. ...  
 14. ...

EXCHANGE : ...  
 TYPE : ...  
 TOLL GROUP : ...  
 ISSUE NO : ...  
 DATE : 10.6.85

...	...	...				TOTAL CURRENCY	REMARKS
		...	...	...	...		
							0/000 BMSB
Initial				100/100	1800/2000		
					2500/3000		
					3800/4500		
					4000/5000		
					5000/7000		
					5100/7000		
					5700/7800		
...	15/0/75			100	5900/6000		
							ANI equipment installed and cut-over.
					5900/6000		CCB segregation discontinued
Ext5A	...	200	200		6300/6400		
				100	6600/6600		2 ply upgrade
		800					

Note: ... includes ... from 4.10.77

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : STC  
 FILE REFERENCE : CB 395/423/ETC  
 F.C.C. :

EXCHANGE : THREE KINGS  
 TYPE : SAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 12. SHEET 2 OF 2  
 DATE : 26.7.91

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.			
	26.7.91							634-656XXX XPER TIS 3
	26.7.91		CLOSE DOWN					657-659XXX XPER TIS 4
TOTAL.	X						X	

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

**MANUFACTURER :**  
**FILE REFERENCE :** CE 395/932/etc  
**F.C.C. :** HENDERSON

**EXCHANGE :** TITIRANGI  
**TYPE :** AMX  
**TOLL GROUP :** AUCKLAND  
**ISSUE No :** 9  
**DATE :** 6.7.87

EVENT	C/O DATE	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CB.	PBX.	REG.	2 P.	M P		
BMSB	30.1.53	Initial Installation 450 lines						Extended to 1000 lines 1960 Extended to 1800 lines 1964 Extended to 2400 lines 1970 (including 400 m) BMSB closed 17.11.72
Initial AUTO	17.11.72	50	150	3600		100/ 500	3900/ 4300	2 PL provision from Indv. Groups.
Extn 1	17.6.74.			400			4300/ 4700	
Extn 2	3.12.79			200			4500/ 4900	
Extn 3	31.7.80			400		-100/ 500	4800/ 4800	M-Pty closed down (LLE installed)
STD	10.7.81	-50	+50				4800/ 4800	ANI equipt installed and C/O. CCB segregation discontinued.
Extn 4	2.12.85			200			5000/ 5000	
Extn 5	20.5.85			400			5400/ 5400	
Extn 6	6.7.87		200	400			6000/ 6000	
CLOSURE	5.4.91							SUBS XFERRED TO TITIRANGI 2 LX
TOTAL.			400	5600				

**A 11316.**  
 ANI GHT 1 ISS A

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE

## CAPACITIES AND CUT-OVER DATES (U.A.X's)

**MANUFACTURER :** EXCHANGE : WAIATARUA  
**FILE REFERENCE :** CE 395/878/etc. **TYPE :** UAX  
**F.C.C. :** HENDERSON **TOLL GROUP :** AUCKLAND  
**ISSUE NO :** 7-  
**DATE :** 2.11.79

EVENT	C/O DATE	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.						REMARKS.					
		A UNITS	A UNIT LINES	R UNIT LINES/SUBS	M UNIT LINES/SUBS	M/R S LINES/SUBS	A UNITS	A UNIT LINES	R UNIT LINES/SUBS	M UNIT LINES/SUBS	M/R S LINES/SUBS	GROSS Nº (NOTE 2)		TOTAL CAPACITY				
Initial Auto	7/11/69						6	300				20/100			400	300/400		
	4/12/70																Free calling on AK	
Ext 1	25/5/71	1	40				7	340				20/100		500	340/500			
Ext 2	3/72	2	80				9	420				20/100		600	420/600			
Ext 3	20/2/75	1	50				10	470				20/100		600	470/600			
Ext 4	12/9/75											20/-100		500	470/500	'M' Unit withdrawn from svce (DY 75)		
Ext 5	16/9/77	1	50				11	520						600	520/600			
STD	28.4.78																ONI equipment installed and cutover	
	2.11.79														520/600	JAX closed Replaced with LX		
TOTAL CAPACITY.		<del>                    </del>																

- NOTES:
- IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
  - IN GROSS Nº COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
  - STATE WHETHER RELAY SETS ARE 'M' OR 'R' e.g. 5/25M.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (STEP BY STEP)

MANUFACTURER : ATE  
 FILE REFERENCE : CE 395/803/etc.  
 F.C.C. : WAIHEKE

EXCHANGE : WAIHEKE  
 TYPE : AMX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 15  
 DATE : 07.11.89

EVENT.	C/O DATE.	EQUIPMENT.						TOTAL CAPACITY.	REMARKS.
		CB. <small>Note 2</small>	PBX.	REG.	S/S	M PL	R PL		
Initial Auto UAX	4.9.57							400/ 400	8A Units
Extn 1	9.9.62							600/ 600	Addl 4 Units
Replaced AMX	4.12.64	25	175	700	300/ 300	4/ 20		1200/ 1200	M R/S served from REG multiple.
	12.66						15/ 75	1215/ 1275	
PS803/51 (Part)	21.3.75								Free calling on Auckland
PS803/51 (Part)	26.5.75			200				1415/ 1475	
"	12.9.75					+5/ 25	15/ 75	1400/ 1400	M R/S served from REG Mult. Dty 75
STD	3.12.76								ANI equip. installed and cut over
	20.1.78	-25	+25					1400/ 1400	CCB segregation discontinued
Extn 1B	16.7.79			200				1600/ 1600	
Extn 2	27.11.81			200				1800/ 1800	
PS803/53 Extn.3	16.12.83			200				2000/ 2000	
Extn 4	20.5.85			400				2400/ 2400	6000-399 STD-ONI ONLY
Extn 5	22.12.86			400				2800 2800	6000-799 STD-ONI ONLY
	12.6.89							2800 2800	ANI EQUIPMENT C/O 6000-799
Extn 6	29.9.89		200	600				3600/ 3600	
TOTAL.	X	0	400	2500	300/ 300	9/ 45		X	

Note 1: M R/S served from Reg multiple therefore not included in total capacity.

Note 2: CCB subs included in Regular/PBX groups from 20.1.78

EP/AK 9  
 A 11316.  
 AN. SHT 1 ISS A

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE

## CAPACITIES AND CUT-OVER DATES (U.A.X's)

MANUFACTURER :  
 FILE REFERENCE : CE 395/40/etc  
 F.C.C. : HENDERSON

EXCHANGE : WAITAKERE  
 TYPE : UAX  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 13  
 DATE : 5.7.83.

EVENT	C/O DATE.	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.							REMARKS.		
		A UNITS	A UNIT LINES	R. UNIT LINES / SUBS	M. UNIT LINES / SUBS	MAR R'S LINES / SUBS	A UNITS	A UNIT LINES	R. UNIT LINES / SUBS	M. UNIT LINES / SUBS	MAR R'S LINES / SUBS	GROSS N° (NOTE 2)	TOTAL CAPACITY			
Initial Auto	7/11/69						6	240	20/100				400	240/400		
Extn	4.12.70		20				6	260		20/100			400	260/400		
Extn	26.1.73	1	50				7	310		20/100			500	310/500		
PS40/50 Addm	25.11.74		10				7	320		20/100			500	320/500		
" "	17.10.75	1	40				8	360		20/100			500	360/500		
" "	28.1.76		10				8	370		20/100			500	370/500		
Addm	20.12.76	1	40				9	410		20/100			600	410/600		
Extn	2.8.77		20				9	430		20/100			600	430/600		
STD	28.4.78														ONI equipment installed and cutover	
PS40/50 Addm	24.6.80	1	40				10	470		20/100			600	470/600		
Addm	9.9.80						10	470		20/100	4/20		600	470/600		
PS 40/50 Addm	30.3.82		20				10	490		20/100	4/20		600	490/600		
Closed	6.5.83														Replaced by WAK TLX DTY83	
TOTAL CAPACITY.																

NOTES:

1. IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
2. IN GROSS N° COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
3. STATE WHETHER RELAY SETS ARE 'M' OR 'R'. e.g. 5/25M.



# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

MANUFACTURER : ROTARY  
 FILE REFERENCE : CE 395/33/etc  
 F.C.C. : CITY

EXCHANGE : WELLESLEY ST I  
 TYPE : MAX  
 TOLL GROUP : AUCKLAND  
 ISSUE No : 6  
 DATE : 11.9.81

EVENT	C/O DATE	EQUIPMENT.						TOTAL CAPACITY	REMARKS	
		CCB.	PBX.	REG.	2-P.	4-P	Juncs <del>Note 1</del>	Note 2		
Initial Auto	14.3.25		1600	5600		100/ 400		7300/ 7600	7A	
Ext 1	9.31			200	100/ 200			7600/ 8000		
Ext 2	9.32		2800					10400/ 10800	7A & 7A1	
Ext 3	3.33			-200	100/ 200			10300/ 10800		
Ext 4	9.35		-400	-600			20	9300/ 9800		
Ext 5	3.36				100/ 200			9400/ 10000		
Ext 6	6.41	20	200	600				10220/ 10820		
Ext 7	1946	10					80	10230/ 10830	Added progressively up to 1953.	
Ext 8	20.6.52			1000				11230/ 11830		
Ext 9	9.55			200			50	11430/ 12030		
	11.60	-30					10	11400/ 12090		
Addm C	9.61					-100/ 400	40	11300/ 11600		
PS37/71 Addm 8	11.72			+100	-100/ 200			11300/ 11500		
PS37/71 Addm 9	12.9.75			+100	-100/ 200			11300/ 11400		
	28.4.78		-4200	-1000	-100/ 200		-320 Note 3	6000/ 6000	7A1 equipment withdrawn from service DTY28	
	11.9.81	Exchange Closed down								Subs transferred to AT II. Dty'81
TOTAL.	X							X		

\*NOTE 1: ~~Equipped junction relay sets. Maximum number of subs not indicated in this series.~~

~~2: Total capacity does not include junction circuits.~~

3: Total included 120 spares.

## WELLESLEY ST ROTARY . HISTORIC NOTES

Telephone Directory time means changes of telephone number for groups of subscribers as transfers take place from exchange to exchange and other updating occurs. The night of 11/12 September this year is no exception, but included is a detail of more than usual historic interest. This is the close-down of the original automatic equipment at Wellesley Street Exchange. Much of the later equipment was phased out in 1978, and this remaining 6,000 lines has since been relegated to light duty with about 3,000 users connected, but it has been in continuous use since 1925 and as such is one of the oldest working in the world today. Although there is a small amount of the same equipment at other exchanges which have a year or two still to serve, Wellesley St holds a lot of nostalgia for Post Office telecommunications people because of its size and premier position in the New Zealand network. It has been staffed 24 hours a day since inception so a large number of retired and serving officers have worked in it. Many, including the present Director-General, Mr W. H. Hickson, starting work there as juniors. At a gathering of such people on the night of 11 September to take part in the closure will be at least three retirees living in Auckland who as young men worked on the installation of the equipment between 1922 and 1925 and on its subsequent maintenance.

The equipment was ordered in 1913 from the Western Electric Co., a multinational with factories in Europe, U.K. and America. Automatic exchanges were only invented in 1891 by the Kansas undertaker Almon B. Strowger, but the Wellesley St system, developed about 1910 and known as 'machine switching' or 'rotary' was the most sophisticated available. Time has indeed proved how advanced it was in concept and how appropriate in design detail to the manufacturing facilities and maintenance men of the time.

At the heart of the system, time-shared between different callers only during the setting up of the call, is equipment which receives and stores the dialling impulses and controls the selecting switches at the local and distant exchanges until they report back having reached the called number. The selecting switches are controlled with electromagnetic clutches and are driven by shafts and gears from one electric motor on each row of equipment. These latter have turned virtually without faltering 24 hours a day for 56½ years. The same principles of common control are present in the crossbar equipment installed in New Zealand since the mid 1970's after a thirty year reversion to the simpler 'step by step' system.

New Zealand had already ordered 4 provincial centre exchanges of the rotary type in 1911, although they had not arrived by 1913 when Wellesley St was ordered. This put us well up with America, Britain and Europe in grasping the latest technology, a reflection no doubt of the high demand per capita for the telephone service which was only exceeded in U.S.A., Canada and Denmark at that time. Many American and European cities were moving into the same equipment but World War I upset these plans as it did our own.

The Wellesley St equipment was to be manufactured in Antwerp, Belgium, but work came to a halt when that country was invaded in 1914. A transfer of the order to the Woolwich, London, factory also soon fell by the wayside as it was taken over for war production, and the same happened again with the Hawthorne, Chicago factory with the U.S.A. entering the war. Also, there were three shipping losses, not from enemy action, in 1915, 1916 and 1917, and a large proportion of the order had to be re-supplied. With the delay, the size of the order was increased to meet growing demands so supply was not fully resolved until the post war resumption of normal manufacture at Antwerp and Woolwich. About 60% finally came from Antwerp, 40% from

Woolwich with standard items like electric motors coming from other suppliers in Belgium, France and England. The large lead acid accumulators came from Philadelphia but these have been long since replaced. Equipment cost was some 200,000 pounds. In the meantime the new building on the corner of High St/Wellesley St was halted at basement level for the duration of the war and it took until 1925 for everything to come together and be ready for service.

During these years the City made do with its overloaded manual exchange at Fort Street (present site of Jean Batten Place Post Office) augmented between 1912 and 1920 with small Strowger automatic units there and at Mt Eden and Remuera. By 1925 there was a total of 8,500 subscribers to be accommodated by the new system which included exchanges of the same type at Onehunga, Ponsonby, Remuera, Mt Eden, Devonport and Takapuna. Onehunga came into service before the others in December 1924, while Devonport and Takapuna followed in 1926 and 1927. The main cutover was at midnight 14/15 March 1925. Wellesley St was 7,600 lines plus a 10 position toll board, directory service, time service and fault service positions. Of that original 1925 automatic equipment, Mt Eden still has 1600 lines in use but at all the other exchanges mentioned it was pensioned off between 1941 and 1955. Elsewhere in New Zealand some of the same vintage is still working at Khandallah, while Oamaru, dates back to 1922, and must be a candidate for the oldest automatic exchange of any type working in the World today.

The midnight Saturday cutover in 1925 was preceded by a banquet at the Grand Hotel hosted by Mr A. D. Riley, New Zealand representative for the Western Electric Co. It was attended by local dignitaries and P & T and W. E. representatives who had been engaged on the project.

The Postmaster-General, Hon J. G. Coates was a principle speaker. After the cutover the first call was made by Mr E. C. Cage, District Engineer.

On Friday, 11 September 1981 there will be a small gathering in the building of those associated with the exchange over the years. At 10.00 pm the 3,000 remaining subscribers will be disconnected and given service from new numbers at Airedale St Exchange. Then a last call will be made through the old equipment before turning off, for the first time in 56 years, all the switch row motors.

Only those few present who installed the original equipment might remember that switchroom in such total silence as should then prevail.

# HISTORICAL RECORD OF AUTO EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.M.'s & U.A.X.'s)

WLT 2

MANUFACTURER : WTL  
 EXCHANGE : WELLESLEY ST II  
 FILE REFERENCE : CE 395/37/etc  
 TYPE : MAX  
 F.C.C. : CITY  
 TOLL GROUP : AUCKLAND  
 ISSUE NO : 11  
 DATE : 6.6.89

EVENT	C/O DATE	EQUIPMENT					TOTAL CAPACITY	REMARKS
		CCB	PBX	REG.	2-P.			
Initial Auto SXE	27.11.83	700	4700				5000/ 5000	
STD	28.4.78	-300	+300				5000/ 5000	ANI equipment installed and cutover; CCB Segregation discontinued. DTY 78.
Addm 7	1.12.81					Note 1	5000/ 5000	+11 code 350XX Radio Stations Callba
Extn4A	29.10.84		200				5200/ 5200	6 Figure group introduced (389 XXX)
Extn4B	16.11.84		800				6000/ 6000	6 Figure group (389 XXX)
Addm 11	1.11.85		-1000				5000/ 5000	30XXX number group closed down. subs xferred to AT III at Dty 85.
Addm 12	27.6.86		+1000				6000/ 6000	6 Digit Temp Extn 37XXXX (ANI 5 digit 30XXX)
	5.9.86		-1000				5000/ 5000	6 Digit Extn 370000 transferred to AT III
<u>Closed</u>	16.6.89							Closed Down xferred AT 5
TOTAL		0						

Note 1. 120 UD line ccts - 12B, Hauraki, Radio I, 12M Callback (and Telethon when req'd). not included in total capacity.

# HISTORICAL RECORD OF AUTO. EXCHANGE CAPACITIES AND CUT-OVER DATES (EXCEPT R.A.X.'s & U.A.X.'s).

**MANUFACTURER** : GEC  
**FILE REFERENCE** : CE 395/942/etc  
**F.C.C.** : HENDERSON

**EXCHANGE** : WHENUAPAI  
**TYPE** : AMX  
**TOLL GROUP** : AUCKLAND  
**ISSUE No** : 12  
**DATE** : 31.7.87

EVENT.	C/O DATE.	EQUIPMENT.					TOTAL CAPACITY.	REMARKS.
		CCB.	PBX.	REG.		Sel. Lev. Note 1		
Initial UAX	30/8/58						600/ 600	FR on AK 27/9/68
Replaced AMX	29/8/69	25	175	800			1000/ 1000	
	3/7/71						1000/ 1000	
Extn 1A&TB	28/8/72			600		-/25	1600/ 1600	2PL service provided from Indv groups
STD	27.5.77	-25	+25					ANI equipment installed and cut-over.
Extn 2	31.7.80			200			1800/ 1800	<del>CCB segregation discontinued</del>
Extn 3A	31.3.82			100			1900/ 2000	
Extn 3B	25.11.82			100			2000/ 2000	
Extn 4	30.4.84			300			2300/ 2400	300 lines with ONI. No. range 6000-6299.
Extn 5	30.8.85			500			2800/ 2800	6000-6299 changed - ANI (All indiv now ANI)
	31.7.87							AMX Closed Subs. X'ferred to LX
TOTAL.	X						X	

NOTE 1: Sel. Lev. not included in total capacity.

# HISTORICAL RECORD OF AUTOMATIC EXCHANGE

## CAPACITIES AND CUT-OVER DATES (U.A.X.'s)

MANUFACTURER :  
 FILE REFERENCE : CE 395/ 473/etc.  
 F.C.C. : PAPATOETOE

EXCHANGE : WHITFORD  
 TYPE : UAX  
 TOLL GROUP : AUCKLAND  
 ISSUE N<sup>o</sup> : 12  
 DATE : 24.11.89

EVENT	C/O DATE	EXTENSION EQPT.					TOTAL INSTALLED EQUIPMENT.						REMARKS.			
		A UNITS	A UNIT LINES	R UNIT LINES /SUBS	M UNIT LINES /SUBS	MAR R/S LINES /SUBS	A UNITS	A UNIT LINES	R UNIT LINES /SUBS	M UNIT LINES /SUBS	MAR R/S LINES /SUBS	GROSS N <sup>o</sup> (NOTE 2)		TOTAL CAPACITY		
Initial Auto	4.12.64						3	130		20/100			300	130/ 250		
Ext. 1	12.12.69	1	40				4	170		20/100			300	170/ 300	Flat rate on AK	
	12.7.74	1	40				5	210		20/100			400	210/ 400		
	13.9.76		10				5	220		20/100			400	220/ 400		
	25.2.77		10				5	230		20/100			400	230/ 400		
	28.4.78														ONI equipment installed and cutover and link no 3 on AK.	
Addm 9	30.5.80	1	60				6	290		20/100			400	290/ 400		
Addm 10	18.8.81	1	50				7	340		-20/100			400	340/ 400	M-UNIT removed	
Addm 13	20.4.82		10				7	350					400	350 400		
Addm 14	1.8.84	1	50				8	400						400/ 400		
CLOSED	24.11.89						-8	-400					-400	0	REPLACED BY WHITFORD LX	
TOTAL CAPACITY		X					0	0						0	0	

NOTES:

- IN ALL CASES THE CAPACITY OF AN 'M' UNIT SHOULD BE REGARDED AS 20 LINES / 100 SUBS.
- IN GROSS N<sup>o</sup> COLUMN, SHOW THE TOTAL 'A' UNIT PLUS 'M' UNIT PLUS 'R' UNIT MULTIPLE EQUIPPED AT THE EXCHANGE
- STATE WHETHER RELAY SETS ARE 'M' OR 'R' e.g. 5/25M.