

# IMPLEMENTATION OF THE NEW RADIO FREQUENCY SPECTRUM LICENCE FEES

Engineering and Technology Division

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# Challenges experienced

- The **Spektrum** system is a database run on the Authority's behalf by ATIO in Pretoria. It is outdated and was not developed to act as a financial system.
- There is currently no interface between the Authority's financial system (JDE) and the Spektrum system.
- Some data captured on Spektrum is either incorrect or incomplete (as a result of transfer of data from the previous Prostan system in 1996)
- There is currently no software available to calculate the new fees electronically
- All calculations had to be done manually which increases the risk of incorrect fees being charged to licensees

# rocess followed with the manual calculations

- Excel spread sheets with identified data of the different classes of licences were provided by ATIO
- ■The urban/rural classification was amended on these lists to correspond to the Geographical criterion for the GEO Factor
- •A determination was made on the lists for the number of channels per licence
- All amendments on these lists were written back to the system by ATIO for future use



# Process followed with the manual calculations (continue)



- ■The fees were calculated using the different formulae in the regulations
- On many of the licences the main files and assignment records had to be scrutinized
- ■Due to the absence of the necessary software to calculate link distances and due to incorrect/incomplete coordinates on the system a HOPMINI factor of 1 was used on all point to point calculations
- ■The LS system could not be used for this purpose since the data necessary to do the calculations are not populated on the system.



### Classes of licences



Radio Service Class	Number of licences	%	Completed
Pre-assigned	30059	63.2	Yes
Burglar Alarms	843	1.8	Yes
Communal Repeaters	1948	4.1	Yes
Private Repeaters	2281	4.8	Yes
Simplex (incl. Civil defence)	11425	24.1	Yes
Other Land Mobile	541	1.1	Yes
Fixed	180	0.4	95%
Satellite	268	0.5	95%

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# Breakdown of Land Mebile Services

Radio Service Class	Old Fees	New Fees	Difference
27/29/66/67 MHz + Civil Defence	R 234, 327.00	R 383, 280.00	R 148, 953.00
29 MHz Ski Boat	R 151, 746.00	R 383, 760.00	R 232, 014.00
Citizen Band	R 65, 373.00	R 189, 240.00	R 123, 867.00
Short Range & VSRB	R 34, 317.00	R 28, 680.00	- R 5, 637.00
Communal Repeaters	R 6, 977, 376.00	R 4, 008, 610.00	- R 2, 968, 766.00
Private Repeaters	R 6, 849, 984.00	R 4, 444, 589.00	- R 2, 405, 395.00
Burglar Alarms	R 16,042,860.00	R 521, 354.00	- R 15, 521, 506.00
Private Simplex	R 7, 645, 004.00	R 4, 241, 480.13	- R 3, 403, 523.87
All other Land Mobile	R 2, 410, 195.40	R 5, 064, 550.50	R 2, 654, 355.10
Total	R 40, 411, 182.40	R 19, 265, 543.63	- R 21, 145, 638.77



#### Breakdown of all Radio Services

Radio Service Class	Old Fees	New Fees	Difference
Land Mobile	R 40, 411, 182.40	R 19, 265, 543.00	- R 21, 145, 639.40
Amateur	R 146, 100.00	R 634, 680.00	R 488, 580.00
Aeronautical	R 379, 584.00	R 922, 200.00	R 542, 616.00
Maritime	R 204, 216.00	R 494, 880.00	R 290, 664.00
Cellular Services/Data	R 73, 000, 000.00	R 145, 800, 000.00	R 72, 800, 000.00
Fixed	R 224, 578, 175.08	R 1, 248, 117, 212.00	R 1, 023, 539, 036.92
Satellite	R 7, 428, 277.16	R 5, 538, 879.00	- R 1, 889, 398.16
Radio Dealers	R 158, 961.00	R 578, 040.00	R 419, 079.00
Total	R 346, 306, 495.64	R 1, 421, 351, 434.00	R 1, 075, 044, 938.36

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### The Bulk Users





Licensee	Old Licence Fees	New Licence Fees	Difference
Telkom	R 37, 470, 468.72	R 922, 483, 920.00	R 885, 013, 451.28
Transnet	R 764, 855.16	R 30, 092, 460.00	R 29, 327, 604.84
Eskom	R 2, 598, 185.59	R 4, 981, 165.00	R 2, 382, 979.41
SANDF	R 6, 102, 180.90	R 35, 078, 212.00	R 28, 976, 031.10
SAPS	R 5, 859, 702.31	R 27, 270, 942.00	R 21, 411, 239.69
Total	R 52, 795, 392.68	R 1, 019, 906, 699.00	R 967, 111, 306.32



### Future interim arrangements

- ■The Authority is in the process to amendment the Spektrum system in order to calculate fees for new assignments in the short term.
- •ICASA is also in the process of acquiring licences for the new comprehensive LS system and has budgeted for the installation and configuration during the next financial year



## Spectrum Licensing Process

#### THANK YOU Q & A

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