Office of the President
REPUBLIC OF THE PHILIPPINES
Commission on Information and Communications Technology
NATIONAL TELECOMMUNICATIONS COMMISSION
BIR Road, East Triangle, Diliman, Quezon City

MEMORANDUM CIRCULAR
No.: 02-02-2005

Subject: **FREQUENCY ALLOCATION AND BLOCK ARRANGEMENTS FOR FIXED WIRELESS ACCESS SYSTEMS IN THE BANDS 3.4 –3.6 Ghz and 10.15 – 10.65 Ghz**

Whereas, pursuant to Rule 600 of MC 8-9-95, Implementing Rules and Regulations on RA 7925, the radio spectrum allocation and assignment shall be subject to review in the interest of public service ;

Whereas, the Commission is mandated to promote and sustain a healthy competitive telecommunications environment;

Recognizing,

a. that fixed wireless access (FWA) systems in the range of **3.4 – 3.6 Ghz and 10.15 – 10.65 GHz** can provide enhanced telephony and data services;
b. that a flexible block (sub-band) arrangement, rather than use conventional point-to-point channel arrangement can accommodate various FWA technologies, whilst remaining consistent with good spectrum management principles, including provision for inter-systems/services operation and overall spectrum efficiency;
c. that sufficient capacity and flexibility for deployment of multiple systems within a desired service area can be achieved by the use of either frequency blocks (sub-band), or the aggregation of a variable number of frequency slots from a homogeneous pattern based on an interval of 0.25 MHZ;
d. that a standardized block width might offer benefits through economies of scale and simplified inter-system and inter-operator frequency planning in the same deployment area.

Wherefore, pursuant to Republic Act 7925 and its Implementing Rules and Regulations, Executive Order 546 series of 1979 and Act No. 3846, as amended, and in the interest of service, the National Telecommunications Commission, hereby allocates the frequency bands **3.4 – 3.6 Ghz. and 10.15 –10.65 Ghz** for the use of fixed wireless access systems and shall form part of the National Radio Frequency Allocation Table (NRFAT), and hereby adopts following :

1. the allocation and utilization of the bands **3.4 – 3.6 Ghz and 10.15 –10.65 GHz** using block (sub-band) edge frequencies, which are exactly divisible by 0.25 Mhz. to the Fixed Wireless Systems (FWA) as described in the Channel Plan attached to this Circular as Annex I and Annex II respectively;

2. that frequency blocks shall be assigned according to capacity of systems and technology used;
3. that if systems using TDD technologies are also deployed in the same area, due account shall be taken of the necessity to assign the TDD frequency blocks to minimize interference;

This circular shall take effect fifteen (15) days after publication in a newspaper of general circulation and three (3) copies furnished the UP Law Center.

Any circular, order or memorandum inconsistent herewith is deemed superseded.

Quezon City, Philippines, February 11, 2005.

(Sgd)RONALD OLIVAR SOLIS
Commissioner

(Sgd)KATHLEEN G. HECETA
Deputy Commissioner

(Sgd)JORGE V. SARMIENTO
Deputy Commissioner

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ANNEX I

ANNEX 1

3400 - 3600 MHz

CH NO.	3.5 MHz Blocks		CH NO.	7 MHz Blocks	
1	3400.25 - 3403.75	3500.25 - 3503.75	1	3400.25 - 3407.25	3500.25 - 3507.25
2	3403.75 - 3407.25	3503.75 - 3507.25	2	3407.25 - 3414.25	3507.25 - 3514.25
3	3407.25 - 3410.75	3507.25 - 3510.75	3	3414.25 - 3421.25	3514.25 - 3521.25
4	3410.75 - 3414.25	3510.75 - 3514.25	4	3421.25 - 3428.25	3521.25 - 3528.25
5	3414.25 - 3417.75	3514.25 - 3517.75	5	3428.25 - 3435.25	3528.25 - 3535.25
6	3417.75 - 3421.25	3517.75 - 3521.25	6	3435.25 - 3442.25	3535.25 - 3542.25
7	3421.25 - 3424.75	3521.25 - 3524.75	7	3442.25 - 3449.25	3542.25 - 3549.25
8	3424.75 - 3428.25	3524.75 - 3528.25	8	3449.25 - 3456.25	3549.25 - 3556.25
9	3428.25 - 3431.75	3528.25 - 3531.75	9	3456.25 - 3463.25	3556.25 - 3563.25
10	3431.75 - 3435.25	3531.75 - 3535.25	10	3463.25 - 3470.25	3563.25 - 3570.25
11	3435.25 - 3438.75	3535.25 - 3538.75	11	3470.25 - 3477.25	3570.25 - 3577.25
12	3438.75 - 3442.25	3538.75 - 3542.25	12	3477.25 - 3484.25	3577.25 - 3584.25
13	3442.25 - 3445.75	3542.25 - 3545.75	13	3484.25 - 3491.25	3584.25 - 3591.25
14	3445.75 - 3449.25	3545.75 - 3549.25	14	3491.25 - 3498.25	3591.25 - 3598.25
15	3449.25 - 3452.75	3549.25 - 3552.75			
16	3452.75 - 3456.25	3552.75 - 3556.25	CH NO.	14 MHz Blocks	
17	3456.25 - 3459.75	3556.25 - 3559.75	1	3400.25 - 3414.25	3500.25 - 3514.25
18	3459.75 - 3463.25	3559.75 - 3563.25	2	3414.25 - 3428.25	3514.25 - 3528.25
19	3463.25 - 3466.75	3563.25 - 3566.75	3	3428.25 - 3442.25	3528.25 - 3542.25
20	3466.75 - 3470.25	3566.75 - 3570.25	4	3442.25 - 3456.25	3542.25 - 3556.25
21	3470.25 - 3473.75	3570.25 - 3573.75	5	3456.25 - 3470.25	3556.25 - 3570.25
22	3473.75 - 3477.25	3573.75 - 3577.25	6	3470.25 - 3484.25	3570.25 - 3584.25
23	3477.25 - 3480.75	3577.25 - 3580.75	7	3484.25 - 3498.25	3584.25 - 3598.25
24	3480.75 - 3484.25	3580.75 - 3584.25			
25	3484.25 - 3487.75	3584.25 - 3587.75			
26	3487.75 - 3491.25	3587.75 - 3591.25			
27	3491.25 - 3494.75	3591.25 - 3594.75			
28	3494.75 - 3498.25	3594.75 - 3598.25			

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ANNEX II

ANNEX II

10150 -10300 MHz/10500 - 10650 MHz

CH NO.	3.5 MHz Blocks		CH NO.	7 MHz Blocks	
1	10150.5 -10154.0	10500.5 - 10504.0	1	10154.0 -10161.0	10504.0 - 10511.0
2	10154.0 - 10157.5	10504.0 - 10507.5	2	10161.0 - 10168.0	10511.0 - 10518.0
3	10157.5 - 10161.0	10507.5 - 10511.0	3	10168.0 - 10175.0	10518.0 - 10525.0
4	10161.0 - 10164.5	10511.0 - 10514.5	4	10175.0 - 10182.0	10525.0 - 10532.0
5	10164.5 - 10168.0	10514.5 - 10518.0	5	10182.0 - 10189.0	10532.0 - 10539.0
6	10168.0 - 10171.5	10518.0 - 10521.5	6	10189.0 - 10196.0	10539.0 - 10546.0
7	10171.5 - 10175.0	10521.5 - 10525.0	7	10196.0 - 10203.0	10546.0 - 10553.0
8	10175.0 - 10178.5	10525.0 -10528.5	8	10203.0 - 10210.0	10553.0 - 10560.0
9	10178.5 - 10182.0	10528.5 - 10532.0	9	10210.0 - 10217.0	10560.0 - 10567.0
10	10182.0 - 10185.5	10532.0 - 10535.5	10	10217.0 - 10224.0	10567.0 - 10574.0
11	10185.5 - 10189.0	10535.5 - 10539.0	11	10224.0 - 10231.0	10574.0 - 10581.0
12	10189.0 - 10192.5	10539.0 - 10542.5	12	10231.0 - 10238.0	10581.0 - 10588.0
13	10192.5 -10196.0	10542.5 - 10546.0	13	10238.0 - 10245.0	10588.0 - 10595.0
14	10196.0 - 10199.5	10546.0 - 10549.5	14	10245.0 - 10252.0	10595.0 - 10602.0
15	10199.5 - 10203.0	10549.5 - 10553.0	15	10252.0 - 10259.0	10602.0 - 10609.0
16	10203.0 - 10206.5	10553.0 - 10556.5	16	10259.0 - 10266.0	10609.0 - 10616.0
17	10206.5 - 10210.0	10556.5 - 10560.0	17	10266.0 - 10273.0	10616.0 - 10623.0
18	10210.0 - 10213.5	10560.0 - 10563.5	18	10273.0 - 10280.0	10623.0 - 10630.0
19	10213.5 - 10217.0	10563.5 - 10567.0	19	10280.0 - 10287.0	10630.0 - 10637.0
20	10217.0 - 10220.5	10567.0 - 10570.5	20	10287.0 - 10294.0	10637.0 - 10644.0
21	10220.5 - 10224.0	10570.5 - 10574.0			
22	10224.0 - 10227.5	10574.0 - 10577.5	CH NO.	14 MHz Blocks	
23	10227.5 - 10231.0	10577.5 - 10581.0	1	10154.0 -10168.0	10504.0 - 10518.0
24	10231.0 - 10234.5	10581.0 - 10584.5	2	10168.0 - 10182.0	10518.0 - 10532.0
25	10234.5 - 10238.0	10584.5 - 10588.0	3	10182.0 - 10196.0	10532.0 - 10546.0
26	10238.0 - 10241.5	10588.0 - 10591.5	4	10196.0 - 10210.0	10546.0 - 10560.0
27	10241.5 - 10245.0	10591.5 - 10595.0	5	10210.0 - 10224.0	10560.0 - 10574.0
28	10245.0 - 10248.5	10595.0 - 10598.5	6	10224.0 - 10238.0	10574.0 - 10588.0
29	10248.5 - 10252.0	10598.5 - 10602.0	7	10238.0 - 10252.0	10588.0 - 10602.0
30	10252.0 - 10255.5	10602.0 - 10605.5	8	10252.0 - 10266.0	10602.0 - 10616.0
31	10255.5 - 10259.0	10605.5 - 10609.0	9	10266.0 - 10280.0	10616.0 - 10630.0
32	10259.0 - 10262.5	10609.0 - 10612.5	10	10280.0 - 10294.0	10630.0 - 10644.0
33	10262.5 - 10266.0	10612.5 - 10616.0			
34	10266.0 - 10269.5	10616.0 - 10619.5			
35	10269.5 - 10273.0	10619.5 - 10623.0			
36	10273.0 - 10276.5	10623.0 - 10626.5			
37	10276.5 - 10280.0	10626.5 - 10630.0			
38	10280.0 - 10283.5	10630.0 - 10633.5			
39	10283.5 - 10287.0	10633.5 - 10637.0			
40	10287.0 - 10290.5	10637.0 - 10640.5			
41	10290.5 - 10294.0	10640.5 - 10644.0			
42	10294.0 - 10297.5	10644.0 - 10647.5			

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