



AISP.4-HAC WG10 50% Alternative Proposal

March 21, 2007

Carriers Commitment

Carriers Commitment for M and T



1. Tier 1 Wireless Carriers will make available:

- Eight (8) in 2008, Nine (9) in 2009, Ten (10) in 2010 and Ten (10) in 2011 HAC M3 or better models*

OR

- 50% of the portfolio M3 or better

2. Tier 1 Wireless Carriers will make available:

- Three (3) in 2008, Five (5) in 2009, Seven (7) in 2010 and Ten (10) in 2011 HAC T3 or better models*

OR

- 33% of the portfolio T3 or better

* A de minimis exists for new technologies just entering the network and for old technologies being phased out e.g. UMTS & TDMA (See next slide for examples). The FCC's current rules regarding the effects of de minimis manufacturers on carriers commitments will remain unchanged.

Examples of Carrier De Minimis Offerings

Total Models Offered	M3 or Better Offered	T-Coil Offered
1	0	0
2	0	0
3	1	1
4	1	1
5	2	1
6	2	2



Carriers Conclusions

Carriers Commit to:

- Offer minimum quantities of M rated models greater than the five currently required.
- Offer minimum quantities of T rated models going forward greater than the two currently required.
- Support product refresh.
- Report upon product tiering in annual reports to the FCC.
- Through de minimis requirements offer HAC models in the event of new technology rollout and maintain HAC models in the event of technology sunset.
- Investigate audio output and volume control.
- Carriers agree with a 2010 review of the FCC's rules to take effect in 2012.

Other Assumptions:

- Assumes the FCC approves use of the C63.19-2007 Amendment concurrently with the C63.19-2006 Amendment through the end of 2009.
- Until future testing demonstrates the usability of phones that are fully "decoupled," T-Coil rated phones will continue to have a minimum of an M3 rating. However, decoupling is permissible for the purposes of rating phones and providing information about M and T ratings.
- When the usability of M1 and M2 rated devices is better understood, Carriers will revisit the labeling of those devices.



Manufacturers Commitment



Manufacturers M Commitment

- Beginning 2/18/08, all manufacturers would offer at least 33% (truncated) total U.S. models with the following:
 - M3-or-better per the latest version FCC-approved ANSI C63.19.
 - U.S. bands supported.
 - A range of models spanning multiple tiers and form factors.
 - Greater than 33% will be offered whenever it is readily achievable, assessed on a product-by-product basis.
 - No limit or cap on the number of HAC phones required because it is always based on a percentage of the total.
- The 33% minimum requirement will carry forward through 2011.



Manufacturers M Commitment Examples

Proposed 33% Alternative
- Example offerings required of each vendor -

OVERALL TOTAL MODELS per air interface offered in U.S. in the HAC Report	33%	Minimum M3-or-better models required
3	1.00	1
4	1.33	2
5	1.67	2
11	3.67	3
15	5.00	5
19	6.33	6
21	7.00	7
24	8.00	8
27	9.00	9
30	10.00	10
Et cetera		



Manufacturers M Refresh Commitment

- **Manufacturers would continually offer a mix of new or existing M3 or better models. Beginning in 2009:**
 - For manufacturers that produce four (4) or more total models per air interface :
 - At least **one half (1/2)** (rounded up) of the minimum required M3-or-better models would be **new** models introduced during that calendar year.
 - For manufacturers that produce three (3) total models per air interface
 - The new model is introduced every other year.
 - In both cases the remaining M3-or-better models could be existing or new.
 - When a manufacturer has no plans to produce a new model in a calendar year, then HAC refresh would not be required.

Manufacturers M Refresh Commitment Examples



Proposed new M3-or-better offerings
- Examples offerings required of each vendor -

Overall Total Models Offered in HAC Report	Minimum M3-or-better models	Minimum new models M3-or better ($\frac{1}{2}$ rounded up)	
3	1	1 every other year	
4-8	2	Every year	1
9-11	3		2
12-14	4		2
15-17	5		3
18-20	6		3
21-23	7		4
24-26	8		4
27-29	9		5
30-32	10		5
Et cetera...			

Manufacturers T Commitment



- In 2008 - a minimum of two (2) T3 or better models compliant with C63.19 – 2006 will be offered.
- In 2009* – A minimum of 20% (truncated) of four (4) or more total offered - T3 or better
 - One (1) new model rated per the grandfathered C63.19 – 2006 may be offered during this year.
 - All other new models from this point forward will support the 20 dB S/N increase per C63.19-2007.
- In 2010 – 25% (truncated) of four (4) or more total offered - T3 or better models per the C63.19-2007 Standard.
- In 2011 – 33% (truncated) of four (4) or more total offered - T3 or better models per the C63.19-2007 Standard.

*Assumes the FCC approves use of the C63.19-2007 Amendment concurrently with the C63.19-2006 Amendment through the end of 2009.

Manufacturers T Commitment Examples



TOTAL MODELS per air interface in HAC Report	Minimum T3-or-better required in 2008	Minimum T3-or-better required in 2009 (20%)	Minimum T3-or-better required in 2010 (25%)	Minimum T3-or-better required in 2011 (33%)
3	1	1	1	1
4	2	2	2	2
9	2	2	2	3
13	2	2	3	4
15	2	3	3	5
17	2	3	4	5
20	2	4	5	6
22	2	4	5	7
25	2	5	6	8
27	2	5	6	9



Manufacturers Conclusions

Manufacturers commit to:

- Investigate audio output and volume control.
- Offer 33% (2008) of total models as M3 or better rated.
- Support US Bands.
- Offer 33% (2011) of total models as T3 or better rated devices.
- Make available quantities not limited to minimum values.
 - If “readily achievable,” more M3 and/or T3 or better models will be offered.
 - All models ratings posted on the manufacturers’ web site.
 - All models certified as passing FCC requirements will be labeled on the product box.
- Continually offer a mix of new or existing HAC models.
- Review HAC milestones in February 2010 to take effect in 2012.

AISP.4-HAC WG10 Conclusions

AISP.4-HAC Volume Control Commitment



- AISP.4-HAC will form a working group with participants from the Wireless Industry (Carriers and Manufacturers) and representatives of consumers with hearing loss to study audio output and volume control.
 - Statement of work by end of May 2007*
 - Report assessing the issues of audio output and volume control, and recommending an initial path forward by June 2008.*
- The working group will also specifically address the usability of phones by T-Coil users which contain T ratings of T3 or higher, but do not meet an M3 rating.
 - Recommendation by 2010 review of HAC milestones.



AISP.4- WG10 Conclusions

Carriers Commit to:

- Offer minimum quantities of M rated models greater than the five currently required.
- Offer minimum quantities of T rated models going forward greater than the two currently required.
- Support product refresh.
- Report upon product tiering in annual reports to the FCC.
- Through de minimis requirements offer HAC models in the event of new technology rollout and maintain HAC models in the event of technology sunset.
- Investigate audio output and volume control.
- Review HAC milestones in February 2010 to take effect in 2012.

AISP.4- WG10 Conclusions



Manufacturers commit to:

- Offer 33% of total models as M3 or better rated.
- Support US Bands.
- Offer 33% of total models as T3 or better rated devices.
- Make available quantities not limited to minimum values.
 - If “readily achievable,” more M3 and/or T3 or better models will be offered.
 - All models ratings posted on the manufacturers’ web site.
 - All models certified as passing FCC requirements will be labeled on the product box.
- Continually offer a mix of new or existing HAC models.
- Review of HAC milestones in February 2010 to take effect in 2012.



AISP.4-WG10 Conclusions

Addresses noted consumer concerns on:

- Product refresh.
- Provision for new technologies.
- Support of US Bands.
- Importance of increasing the number of T-rated phones for those consumers who are most hearing-impaired.
- Importance of increasing minimum numbers of M-rated phones for all hearing impaired consumers.
- Importance of investigating volume control for all hearing impaired consumers.
- Importance of variability in tiering of HAC phones for all hearing impaired consumers.

Represents a pinnacle effort in good faith on behalf of the Wireless Industry and Representatives of Consumers with Hearing Loss to reach consensus.