



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
- Example offerings required of each vendor -

Overall Total Models Offered in HAC Report	Minimum M3-or-better models	Minimum new models M3-or better (½ 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 sites.
 - 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 have greater hearing loss.
- Importance of increasing minimum numbers of M-rated phones for all consumers with hearing loss.
- Importance of investigating volume control for all consumers with hearing loss.
- Importance of variability in tiering of HAC phones for all consumers with hearing loss.

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