

PARC Telecon Summary  
January 18, 2006

1. WAAS – RNAV benefits (RAA WAAS paper) Foose  
**See Action #12-07-01 for updates.** Follow up for Jan 9<sup>th</sup> telcon. PARC WG needs to be assigned.

Scott was unable to call in, however he sent the following update: “Conference call was held as scheduled. Perry tasked to revise the paper to essentially replace references to "WAAS" to read ‘SBAS’. The revised paper will go to CDWG. Update pending next PARC F2F meeting.”

2. Critical Schedule and Program Review Pinney  
a. PARC Roadmap status Shahidi  
Comments are coming in. All comments are due by Jan. 31, 2006. Send to Hassan. PARC review of the final document will be mid February, so keep your ears and eyes open for where the final document is posted. PARC recommendation to the FAA is slated for NMLT March 1.  
b. FASDAWG status. Demosthenes

**See Action item #12-07-03.** Schedule needs to be modified.

Ted has come up with the near-and long-term deliverables. There is a telcon Jan 19th at 11:00 AM. Ted and Olga are working on the KSN site as well to accommodate the WG needs.

- c. Update of RNAV Planning. Pinney  
**See Action item 12-07-05.** Performance values needed for SIPA.  
**See Action item 12-07-06.** RNAV WG clarify recommendations.

Pedro has received information from Don Pate concerning both the above action items. He is reviewing the data and will work with Roger Burns to get the answers required by AFS-420.

3. RNP overview non-technical briefing to present to CEOs J. Williams  
and CFOs to solicit investments in it NOW.  
**Action item #12-07-07.** PARC comments on briefing due.

Jeff stated that all comments received by COB January 18 will be vetted and the modified briefing sent out for final PARC review. Industry meetings will then be scheduled.

4. Communications WG update Kraft

Postponed due to Tom's absence.

5. Public F2F meeting Agenda.

Nakamura

**Action item #12-07-08.** Develop plan for meeting. Combine w/RTCA or separate.

The public PARC meeting will be combined with a Navigation Infrastructure Industry day targeted for May 16<sup>th</sup> (PARC) and 17<sup>th</sup> (Navigation Infrastructure). Mitre has space for over 200 people and is a possible venue for the meetings.

Dave has worked with Hassan on a one-day program that is oriented toward brief presentations and panel discussions to obtain as broad an input from the aviation community as possible. A number of external organizations will be invited. The agenda will be posted on the site for everyone's review.

Jeff Williams met with Sally Frodge concerning the second day of this meeting (March 17<sup>th</sup>). Topics will center on moving towards the Performance-based NAS.

Cindy will work on the Federal Register Public Notice. Both meetings will need to be mentioned in the Public Notice. Cindy will contact Sally Frodge concerning their input.

A work plan needs to be created for meeting preparations.

6. PARC Automation AT ToRs due for PARC's review. Abbott

**Action item #12-07-09.** Boeing ToR comment resolution. RAA and Bombardier reps. VF related activities

The Boeing comments were resolved. The ToR will remain as written for phase 1. A second phase will be added to address the VF and non-GA operations. All members of the AT will be identified once the final ToR is approved.

7. AC 90-100 Update AT.

Alexander

**See Action item #12-07-10.** Decide on action, if any, for GPS outages.

No further action is required. Item was closed.

**See Action item #12-07-11.** PARC acceptance of four WG recommendations.

Next AT Meeting is scheduled for January 30<sup>th</sup> at ATA. All comments on Action Item 12-07-11 are to be submitted to Frank Alexander and copied to Steve Albers NLT Jan 27, 2006.

8. Human Factors WG.

Abbott

**See Action Item #12-07-12.** PARC members to provide lessons learned

Still no input received on lessons learned.

There are some recent concerns at ATL. The concern is Pre-Departure Clearance (PDC). The historical data is very perishable which is causing difficulty in analysis. ATO-R is working with the region to preserve data longer so problem causes can be better studied.

9. PARC Public site progress update.

Olga

See **Action Item #12-07-13**. Olga status on PARC page on public FAA website.

10.ATA FMS TF

Vaughn

Bill couldn't make the call. He has several items he wishes to pass on to the PARC. They are: AC 90-101 language (Approval Guidance for RNP Procedures with SAAAR), Naming convention for RNP, airline only RNAV charts that do not show LPV information, and delegation of authority for procedure design. Next Task Force meeting is in March. Kathy will send meeting information to Steve Albers for posting on the site.

11..42B AT ToRs Review status

Hickok

See **Action Items #01-04-01**.

Steve received very few comments. Most are administrative. Steve will wait for the comment period to close Jan 18, then will review all comments, update the ToR as needed and post the final version on the KSN site. Review and approval of the ToR is targeted NLT Feb 15<sup>th</sup> to accommodate initiating the action team at the Heli Expo in late February.

12.Future PARC member F2F

Nakamura

March	15-16 - Washington, D.C. (AMTI as of now)
May	16-17 - Public Meeting Dates, Location TBD (Current option is Mitre)
June	13-14
September	12-13
December	5-6

**NEW BUSINESS:**

- PARC Charter and renewal  
Is in final formal coordination. Support for renewal has been expressed. Signature is expected before the expiration of the current charter.
- Farewell to Olga and Welcome to Steve Albers who is taking over PARC Support. Steve's email address is [steve.ctr.albers@faa.gov](mailto:steve.ctr.albers@faa.gov). His phone number will be the same as Olga's, 202-385-4606. Olga's email will remain the same.

**Telcon Attendees:**

Dave Nakamura  
Tann Pinney  
Steve Hickok

Mike Cramer  
John McGraw  
Steve Albers  
Cindy Nordlie  
Tony Broderick  
Wally Roberts  
Brad Rush  
Kathy Abbott  
Ted Demosthenes  
Jerry Davis  
Pedro Rivas  
Pat Zelechowski  
Jeff Williams  
Olga Legoshina

## Action Item Summary

January 4, 2006

Item No	Description	Owner	Action	Due Date
12-07-01	WAAS/RNAV benefits (RAA WAAS paper)	Scott Foose	<p>Some items will be assigned to the CDWG. PARC needs to decide which other WG will be assigned this task and when it will be completed.</p> <p><b>January 4, 2006 update:</b> Scott Foose will hold a telcon on Monday on critical issues from the RNAV group. Perry will be onboard to answer any questions Roger Burns may have. Jerry Davis will be involved as well. Follow-up is scheduled for the next telcon.</p> <p><b>January 18, 2006 update:</b> Conference call was held. Perry was tasked to slightly revise the paper. The revised paper will go to CDWG for action. Update at next PARC F2F.”</p>	<b>03/15/06</b>
12-07-03	FASDAWG	Ted Demosthenes	<p>Provide feedback on the December 8<sup>th</sup> telcon to Tann Pinney.</p> <p><b>January 4, 2006 update:</b> Ted Demosthenes stated that Jan 5<sup>th</sup> at 11:00 EST there will be a WG telcon. Everyone who is available is invited. The critical issues (i.e. approach procedures) will be done by the end of June or earlier (see schedule posted on the WG site).</p> <p><b>January 18, 2006:</b> Ted has come up with near-and long-term deliverables. Near term will only address aircraft with RF turn capability. Target date for a recommendation to FAA is June 30<sup>th</sup>. Long term will address the more complex issues and non-RF turn capable aircraft.</p>	<b>02/01/06</b>
12-07-05	RNP/RNAV performance values	Dave Nakamura	<p>PARC to provide RNP/RNAV performance values for AFS analysis of separation standards and criteria for simultaneous parallel approaches. Dec7th status – Pedro Rivas will call Don Pate for further clarification of RNP RNAV performance. Dave Nakamura to assign to a WG.</p> <p><b>January 4, 2006 update:</b> Pedro will contact Don the week of Jan 9<sup>th</sup>.</p> <p><b>January 18, 2006 update:</b> Pedro will review the AFS-420 data and will work with Roger burns on providing answers.</p>	<b>02/01/06</b>
12-07-06	PARC RNAV	Roger	Engage the PARC RNAV WG in answering the items identified during	<b>02/01/05</b>

Item No	Description	Owner	Action	Due Date
	WG to answer items from John McGraw's RNAV briefing	Burns	John McGraw's RNAV briefing (items needing further clarification) <b>December 7, 2005 Status:</b> Roger Burns has an action to set up a meeting. <b>January 18, 2006 Status:</b> Pedro will review the AFS-420 data and will work with Roger burns on providing answers.	
12-07-07	Non-technical RNP overview briefing	Jeff Williams	Prepare a non-technical RNP overview briefing to be presented to air carrier CEOs and CFOs to solicit investments in RNP/RNAV fleet capability. <b>January 4, 2006 status:</b> Posted on the PARC Main site (See announcements) Library under Reference Materials Category. <b>Action Item:</b> PARC to review and comment on this document. <b>January 18, 2006 status and ACTION:</b> Olga forwarded all comments received to Elizabeth Williams. She also sent an e-mail to Paul Railsback to get his comments at Jeff's request!!!	<b>02/01/06</b>
12-07-08	Public F2F Mtg Agenda	Dave Nakamura	Develop a Public F2F meeting Agenda. When coordinating this meeting, the scope has increased to include the approved US RNP/RNAV documentation, an approved version 2 of the RNP Roadmap, and some of the presenters from the Toulouse meetings. With this change, and the attendance experienced at the New Technologies Workshop, two changes in the planned meeting are needed. First, the meeting will be delayed until May 2006, after RNP Roadmap approval. Second, the meeting facilities need to be able to handle potentially several hundred attendees. Cindy Nordlie assigned to publish a public meeting notice in the Federal Register January. <b>January 18, 2006 status:</b> Dave worked with Hassan on a one-day program. Oriented on brief presentations. We're inviting a number of external organizations. We'll get that posted on the site for everyone's review. Action closed.	<b>02/01/06</b>
12-07-09	Automation AT ToRs Review	Kathy Abbott, Scott Foose, Bombardi	PARC members to review the Automation AT ToRs. <b>January 4, 2006 update:</b> Kathy Abbott stated she received comments from Randy Kenagy (GA), Wally Roberts (NBAA), Airbus and Boeing. Randy's comments were: 1) To add flight deck to the title to be more specific (accepted);	<b>02/01/06</b>

Item No	Description	Owner	Action	Due Date
		er, Steve Hickok	<p>2) A request to expand the scope to include part 91 operations. Kathy suggested proceeding in phases: an initial phase to look at multiple crew operations and then single pilot operations. NBAA has very good guidelines for automation.</p> <p>Airbus' comments were mostly editorial and clarification. Boeing comments represented a drastic reduction in the scope of the activity. Kathy will contact John Ackland to discuss.</p> <p>Kathy emphasized that this activity was directed by Nick Sabatini. He wants a broader scope especially concerning part 121 operations, the large transport airplanes. He asked that this activity be done as a joint PARC and CAST activity. The 1<sup>st</sup> meeting is in late February/early March. Phase 1 completion target is end of CY2006. Meetings are planed bimonthly.</p> <p><b><u>Action Item:</u></b> The following groups are to nominate AT representatives: RAA and Bombardier.</p> <p><b><u>Action Item:</u></b> Kathy and Steve Hickok will have an off-line discussion concerning helicopter-related activities.</p> <p><b>January 18, 2006 status:</b> Resolved all comments. ToRs will not change for Phase 1. Phase 2 will address VF and GA.</p>	

Item No	Description	Owner	Action	Due Date
12-07-10	Contact DOT GPS Committee	TBD	<p>PARC needs to contact the DOT GPS committee headed by Mike Shaw to express the high dependence on GPS by the civil aviation industry. (GPS testing and AC 90-100)</p> <p><b>January 4, 2006 update: <u>Action Item:</u></b> Pedro Rivas will take a discussion with Bruce DeCleene offline. It needs to be better formulated. Pedro and Bruce will discuss this and then determine if it's an Action Item or not.</p> <p><b>January 18, 2006 status:</b> Pedro talked with Scott and Frank. RAA and ALPA have no objections to deleting DME/DME as stated in Action Item 12-07-11. They understand that without the DME/DME capability in the AC, back-up RNAV operations for DME/DME aircraft will not be available if GPS becomes inoperable. Formal concurrence will be submitted to the AC90-100 Action Team by January 27<sup>th</sup>. Item closed.</p>	CLOSED
12-07-11	AC 90-100 open issues impacting FMCs and CF leg Implementation	Dave Nakamura, Jeff Williams PARC	<p><b>January 4, 2006 update:</b> The AT met on Dec. 12 in Phoenix. It revisited some of the positions it adopted at the last meeting.</p> <p><b><u>Action Item:</u> PLEASE REVIEW AND ACCEPT/REJECT THE FOLLOWING RECOMMENDATIONS:</b></p> <ol style="list-style-type: none"> <li>1. All procedures in the AC should be based on the use of DME/DME/IRU and/or GPS. The Action Team recommends that the DME/DME only criteria remain in the AC to support the DME/DME/IRU criteria, but A/C using DME/DME-only systems be excluded from participation in the RNAV procedures described in AC 90-100 <ol style="list-style-type: none"> <li>a). To bring the AC into harmonization with currently proposed ICAO definitions of RNAV and RNP, we recommend the removal of all references to the term RNP in the AC.</li> <li>b). All terminal procedures should be classified as RNAV-1 from a charting standpoint but there may be different RNAV values associated with a procedure. We believe that the design criteria of RNAV-1 or RNAV-2 are of no interest to the pilot and have no bearing on his ability to fly the procedure. The expectation is that the pilot will fly the depicted course.</li> </ol> </li> <li>2. The AT recommends that the course depicted for a CF (course-to-a-</li> </ol>	02/01/06

Item No	Description	Owner	Action	Due Date
			fix) leg must come from the navigation data base and that pilot entry of a course for a CF leg is not acceptable.	
12-07-12	AC 90-100 OEMs Issue	Jeff Williams, John McGraw	Create a small group of PARC members to evaluate AC 90-100 open issues and how the resolution will impact FMCs and CF leg implementation. Jeff Williams has an action to follow up with OEMs. Jeff is setting a schedule with the OEMs. He is currently in touch with Bombardier and Embraer and is looking at the January timeframe to meet with them. <b>January 18, 2006 up date:</b> No change.	02/01/06
12-07-13	Lessons Learned to Human Factors	PARC	Provide lessons learned to Human Factors WG. <b>January 18, 2006 update:</b> Action Item was for PARC members to provide any lessons learned. Kathy will continue to follow up on this Action Item.	02/01/06
12-07-14	PARC Public Website	Olga Legoshina	Current PARC documents are published on the PARC member and PARC Public KSN sites. PARC desires to have a totally public web site for posting documents. FAA to establish a link on the public AFS web site so PARC documentation can be posted for public review and comment. The FAA web people received approval from John McGraw to establish the new site. The link will be operational after the holidays. <b>January 18, 2006 Status: Pending.</b> Olga is working on putting together the content for submitting directly to the Web Master. Dave has seen the initial suggestion and made a few comments, which will be incorporated into Olga's submission.	ASAP
01-04-01	.42B AT ToRs Review	PARC	Review and send comments on the ToRs to Steve Hickok at <a href="mailto:hickok@gulftel.com">hickok@gulftel.com</a> . To see the Action Item with the link to the document please go to this link: <a href="https://ksn.faa.gov/km/avr/parc/parcmem/Lists/IMPENDING%20DEADLINES/DispForm.aspx?ID=61">https://ksn.faa.gov/km/avr/parc/parcmem/Lists/IMPENDING%20DEADLINES/DispForm.aspx?ID=61</a>	01/18/06 – for comments . 02/01/06 – for the next update.
01-04-02	RPAT AT Needed	Don Porter	Draft AT ToRs to work RPAT within the PARC. Don is having a meeting on January 10 <sup>th</sup> to start drafting the ToRs. <b>January 18, 2006 status:</b> Nothing to Report. Steve Albers to get status and	01/20/06

Item No	Description	Owner	Action	Due Date
			add to the minutes.	
01-18-01	RNP Roadmap Schedule	Hassan Shahidi, Tann Pinney, Jeff Williams	Track RNP Roadmap publication schedule.	<b>02/01/06</b> and ongoing through the Publication Date