



CIVL Software Working Group  
Agenda, February 2009, Hall, Tirol, Austria

1. *Software WG*
  - Confirm WG members.
  - Review operation of Software WG Mailing List
  - Review Software WG content on FAI/CIVL website. Consider improvements and regular supply of news & updates. Liaison with LJ.
2. *Check Local Regulations* (for SW, scoring related inconsistencies)
3. *Rule change proposals from Section 7 Subcommittee*
  - See S7 SSC Agenda to extract relevant items to raise and discuss in the SW WG.
4. *Proposals to the Plenary*
  - WPRS formula change proposal (See below)
  - S7A&B 1.6.6.3 – delete last sentence
  - S7A&B 5.2.1 – Add FS to list of approved scoring systems
5. *Review of other relevant proposals to the Plenary*  
Netherlands proposal on WXC to be World and Continental championships
6. *GPS and Barometric altitude*
7. *Distance calculations in XC competition tasks*
8. *Race software*
9. *FS competition software*
10. *WPRS system / web*
11. *CIVL database*
  - Steward, jury and judge database
12. *Sporting Licence database*
13. *WXC online contest*
14. *Scoring formulas*
15. *Other issues* (for discussion only)



## Proposal for improvement of WPRS formula

### CIVL Plenary in Austria 2009

This proposal is made by the CIVL Software working group.

This proposal is put forward to make following improvements to the formulas used in the WPRS.

To implement the change it is proposed to keep current rankings and points as they are in the system today. They can be accessed as any older ranking information is already now.

The new formula takes over from March 1st 2009.

That will have effect on all competition with the final day March 1st 2009 or later. All rankings from that date will use the new formulas and show the competitions in the last 3 years recalculated using the new formula.

The formula is **WPR = Pp\*Pq\*Pn\*Ta\*Td**

Detailed description is available at the CIVL ranking web pages.

#### **Proposed change for HG and PG Aerobatics:**

The formula uses average number of pilots in competition in the last 12 months. Currently the formula uses average of all Aerobatic competitions and does not differentiate between solo and synchro Aerobatics.

The proposal is to calculate the average number of pilots separately for solo and synchro to be used in the calculations for solo and synchro rankings.

#### **Proposed change for HG XC, PG XC and PG Accuracy:**

##### **Participant quality (Pq)**

Pq is calculated by comparing the top ranked pilots of the world and top 2/3 of the pilots in this competition.

The proposed change is to use the top half of the pilots in the competition instead. This has almost no effect on competition with high ranked pilots (strong comps) but will give competitions with lower ranked pilots more points than before.

##### **Pilot Points (Pp)**

Using the actual scores to distribute the points within a competition does not work as well as needed.

It is proposed to have the points distributed by a curve. The curve is using the Pq so in competition with high ranked pilots the curve is fairly steep, but in competitions with lower ranked pilots it gets close to be straight line.

Pq has the value of 0.2 to 1.0 based on the rankings of the pilots in the competition.

The actual proposed change is to use following:

$$Pp = P_{\text{placing}}^{(1+2 \cdot Pq)}$$

where Pplacing is (last place - pilot place + 1 / last place)