



## Minutes of COSMO TAG Videoconference - Friday, January 22<sup>nd</sup> 2016 (14:00-16:00 CET)

**Participants:** COSMO Software Administrators (Uli Schättler (**US**), Jean-Marie Bettems (**JMB**)), TAG Coordinator (Massimo Milelli (**MM**)).

**Chair:** Massimo Milelli (**MM**)

**Invited:** Theodore Andreadis (**TA**)

**Minutes:** Massimo Milelli (**MM**)

**Already excused:** Uli Blahak (**UB**), Antonio Vocino (**AV**), Daniel Lüthi (**DL**)

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### Agenda item 1: grib2 implementation status

COSMO v5.3 and INT2LM v2.2 are able to read and write grib2 using GRIB\_API library. Tests have been performed in Germany, Russia, Switzerland and Italy (Rome). While COSMO and INT2LM are working with 2 sets of definition files (definitions.edzw and the ecmwf definitions), MeteoSwiss colleagues would like to use only one combined set of definitions because, in their opinion, this would simplify the management of the operational environment used by the different COSMO software. This approach is not favoured by DWD TI-group managing the definitions.edzw files. A final decision has not been taken yet.

A webconference about the ECMWF GRIB API has been held in December involving Daniel Lee (DWD), **JMB** (MeteoSwiss), Daniel Varela Santoalla and Shahram Najm (ECMWF). The need for more documentation has been recognized, and ECMWF promised to improve this aspect over time (but without any deadline, because of lack of resources) . The minutes have been sent to TAG.

The set of GRIB API definition files need modifications to be compatible with all COSMO software and all centres. This is a work in progress.

Considering the plans for the future, work is ongoing with COSMO-LEPS, while COSMO-1 and COSMO-E will switch to grib2 till the end of the year. **US** will release a grib2 web page during next spring and **JMB** confirmed MeteoSwiss support if needed.

### Agenda item 2: Bugzilla usage and its connection with Git/GitHub

The tool is available on the COSMO web. At the moment a user needs to register, to get an account and then a request can be submitted for three kind of items:

- web -> Andreadis
- user support -> cosmo-support maillist (that is Barbu for unlicensed users and **US** for licensed users)
- model (COSMO and INT2LM) -> Barbu

MeteoSwiss (and ETH) moved from SVN to Git which has an integrated bug tracker. **TA** pointed out that the tools have different purposes, more for users (Bugzilla) and more for developers (Git). But for users, the cosmo-support mailing list is working well and is a consolidated tool. At DWD **US**

is starting to analyse Git, and the ICON team is already moving towards it. **MM** said that also the VERSUS team supports a future transition to Git. **JMB** explains that Git can be coupled with other tools, including Bugzilla, but this should be better investigated. Given all this information, TAG decides to stop the development of Bugzilla, supporting the use of the mailing lists and a future transition to Git of the whole COSMO software.

### **Agenda item 3: HNMS proposal for a new web server (document updated by TA)**

Regarding the proposal of a new COSMO web server to be placed at HNMS, **TA** wrote an update of the document sent previously to SMC and STC in May 2015. STC already approved the option 3 of the old document, but a further option is now available, the new 14nm-architecture Intel CPUs. This possibility offers a faster and cheaper solution. For this reason TAG will submit this update to SMC and STC.

### **Agenda item 4: rules of management for a code useful for many different applications**

This item was already discussed in 2013 but it came up again after the recent introduction of the Lightning Potential Index. It has to be stressed that anybody willing to add some post-processing to the COSMO software should inform TAG in advance. No rule can be decided a priori, but each case has to be analysed on its own and TAG has to address the developers towards the appropriate software. Therefore it is necessary to improve the communication flow. **US** remarks that the LPI had to be implemented in COSMO since the calculation needed the output of the full atmosphere variables every 15 minutes.

### **Agenda item 5: document on policy on model output and measurement data formats for spatial verification needs (with WG5)**

To be discussed later after input by WG5.

### **Agenda item 6: preparation of code management rules for KENDA/DACE software (with WG1)**

To be discussed later after input by WG1.

### **Agenda item 7: AoB**

No other item to be discussed.