Interface Control Document

LCGT f2f meeting
Feb. 2012

Tokyo Inst of Technology
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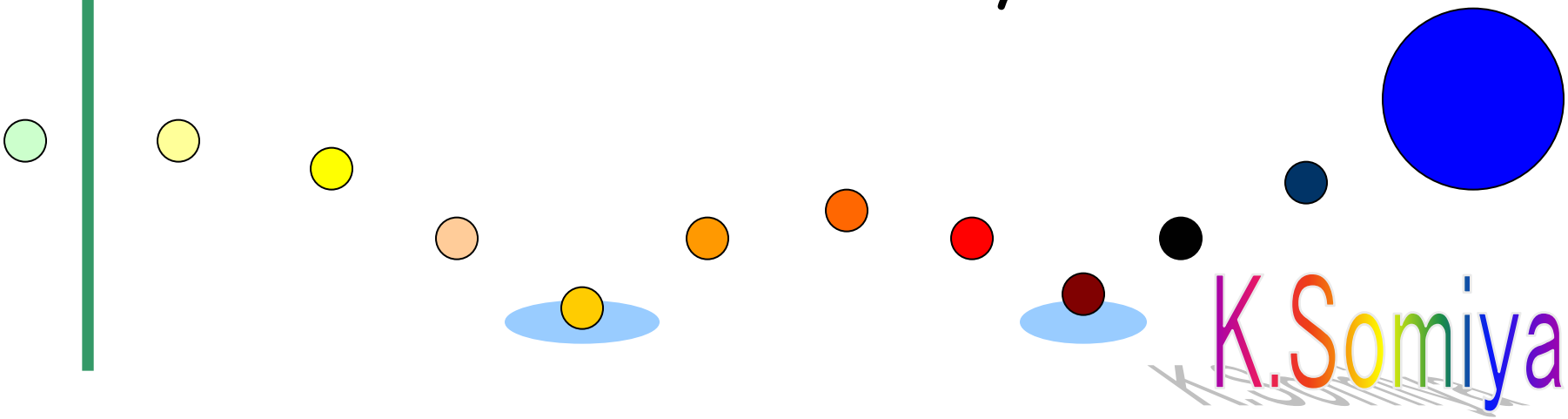


Contents

- Review of ICD (Interface Control Document)
- Updates since the August meeting
- Issues and discussions on ICD

ICD is available here (SVN):
https://granite.phys.s.u-tokyo.ac.jp/svn/LCGT/trunk/ICD/

Without the interface control...

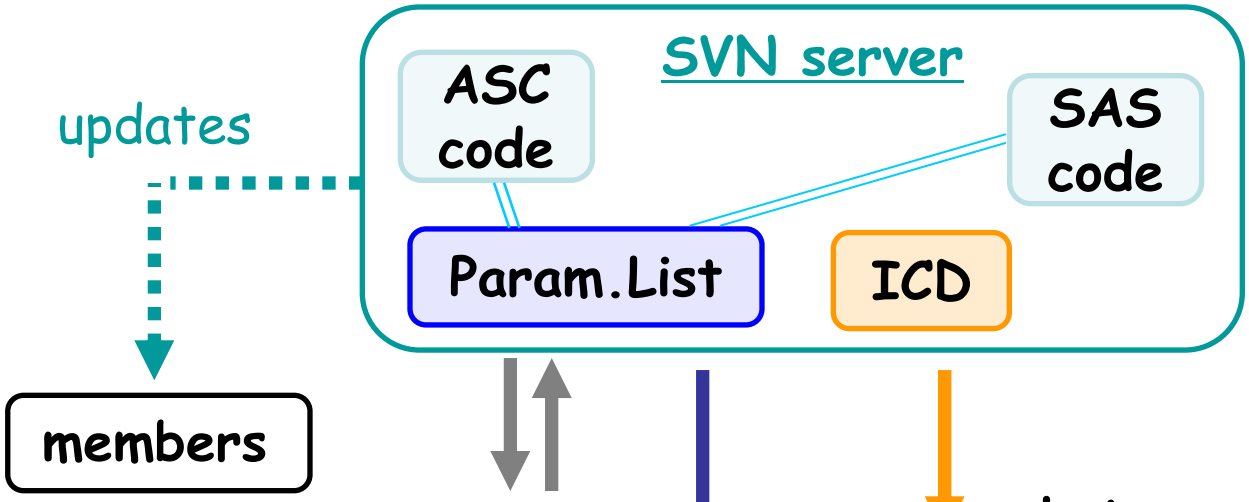
(1) Two people may think that the other guy will take care of a shared item.

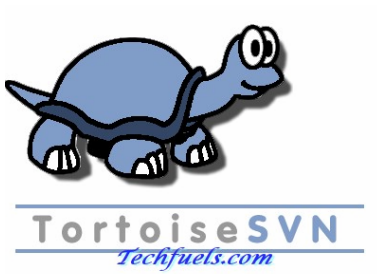
(2) Some items could belong to none of the subsystems.

(3) Two people may assume different parameters for a shared item.

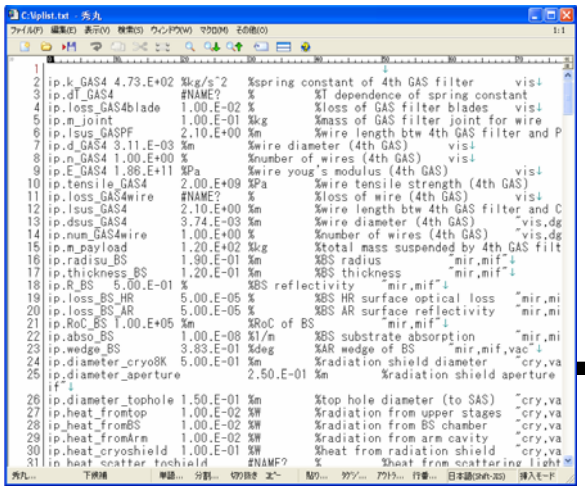
⇨ **Importance of interface control**

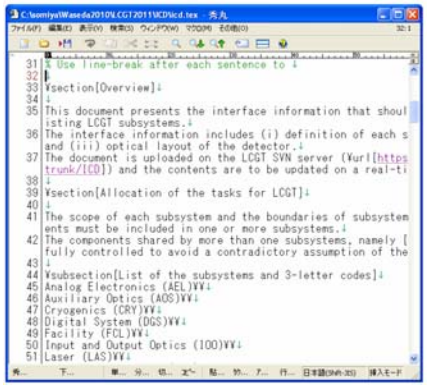
ICD structure (Interface Control Document)

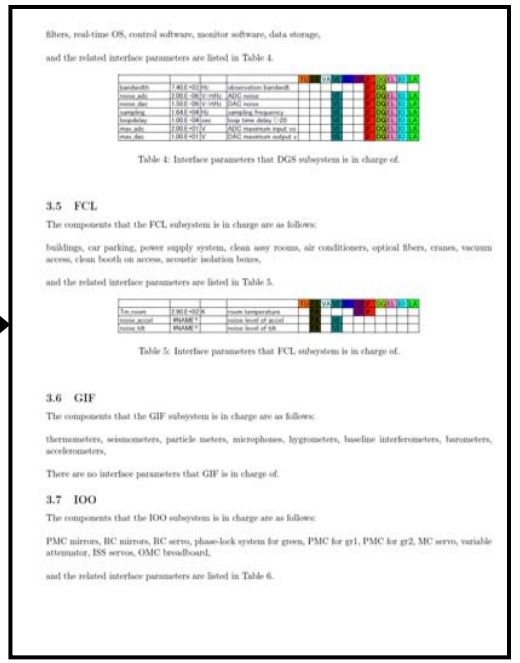




SVN = Apache Subversion



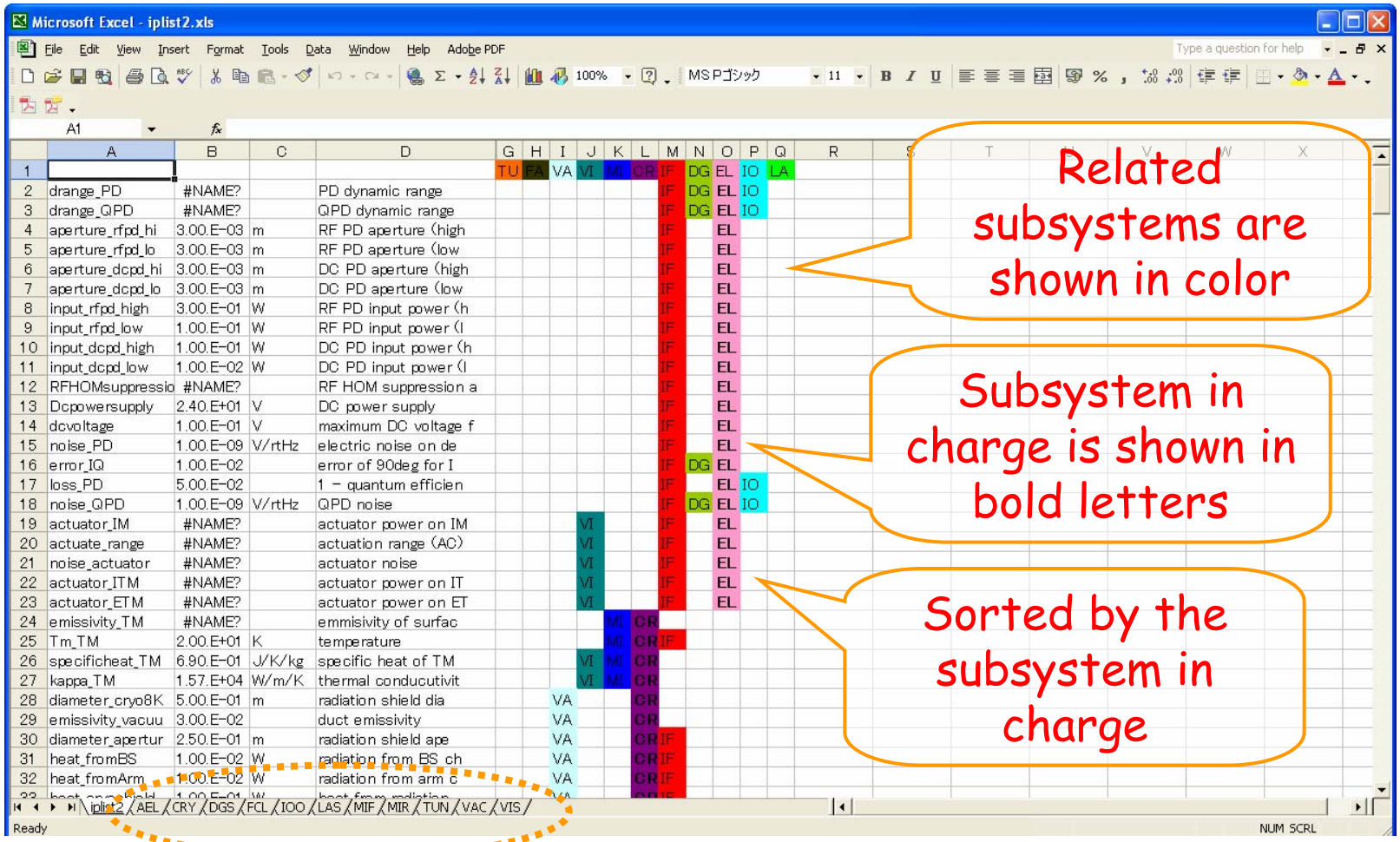




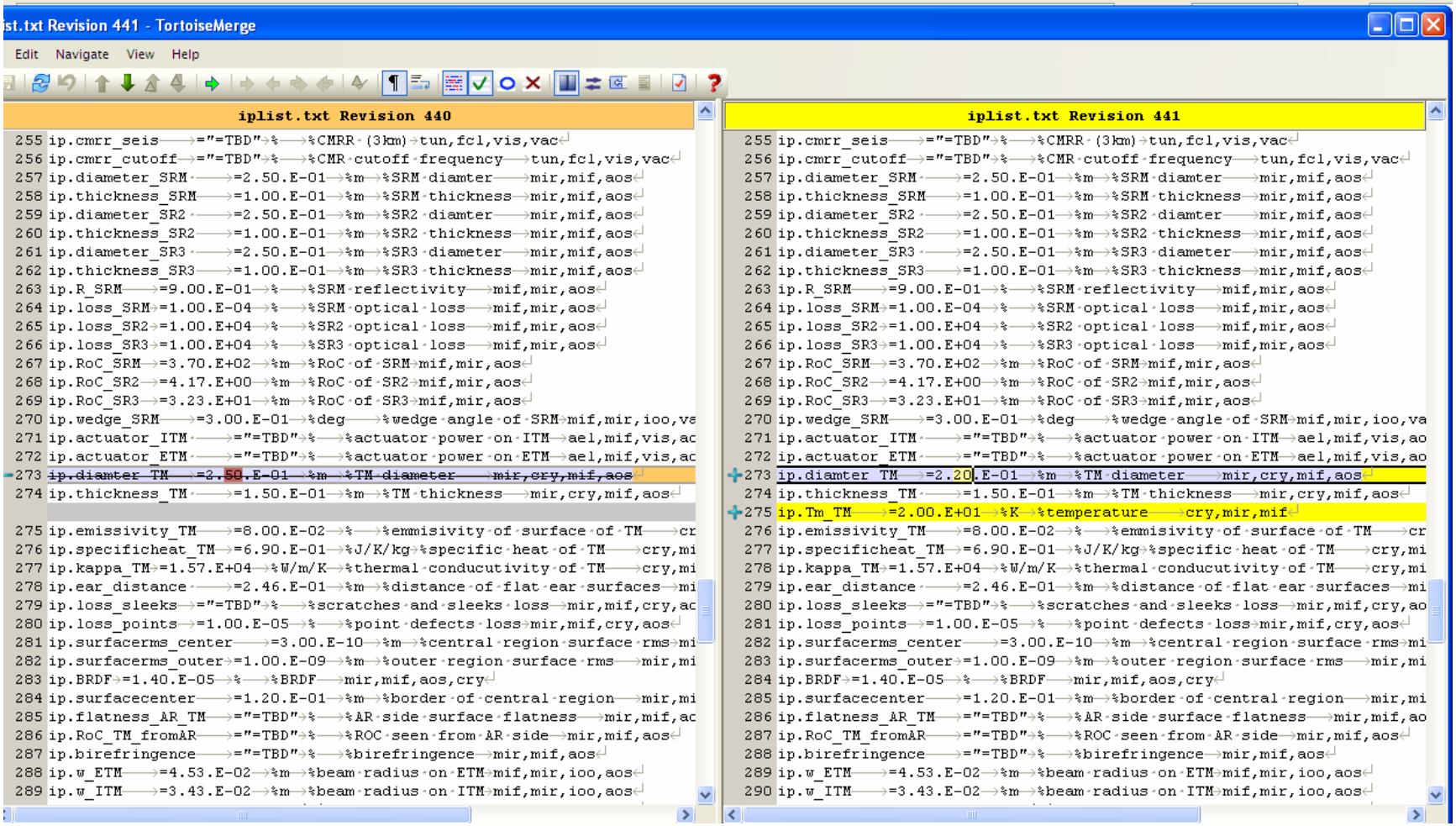
Parameter list

VBA transforms the list to the table below.

(Visual Basic Application)



Checking updates in SVN



- SVN "Show Log" command shows the updates in yellow
- Changes of the mirror diameter and temperature are shown above
- Email alert could be sent to a mailing list (to be discussed)

Updates since the last f2f meeting

- AOS, DAS, GIF have been included
- A physical constant list has been added
- Links to the layout and schedule information

Recent updates ('12 Dec~) and To-do list

- More information collected from sub-systems during the internal review
- Availability requirement to be listed
- Compatibility tests with simulation codes

Issues on ICD

Some people pointed out the following issues during the review.

"ICD is just a list of parameters and not enough to operate the detector ☹ "

SEO's opinion

- That's absolutely right!
- However, the prompt update of ICD is very important, so a phonebook-like document is not suitable unless we had money to hire engineers for it.
- We've been trying to decrease burdens on sub-systems as much as possible.

Possible solutions/suggestions

(1) Cross-cutting sub-systems (DGS and AEL) may have to provide detailed interface documents at last.

(2) Closely connected subsystems are demanded to have more communications;
- Optics groups: MIF-IOO-AOS (MIR, VIS, VAC)
- Suspension groups: VIS-CRY

(3) AEL and FCL activity should be restarted asap.

(4) Subsystems that didn't finish the ICD at the review should do it by March [MIF, IOO, MIR, LAS, CRY]

End