

# Summary of the 7th meeting of the xTCA Interest Group

Meeting	Date / Location	# of talks	# of participants
1	September 2010 / TWEPP Aachen	4	~20
2	March 2011 / CERN (+ EVO)	7	~25
3	September 2011 / TWEPP Vienna	8	~50
4	April 2012 / CERN (+Vidyo)	8	~30
5	September 2012 / TWEPP Oxford	6	~35
6	April 2013 / CERN (+Vidyo)	9	~35
7	September 2013 / TWEPP Perugia	7	~30

Speaker	Title
V. Bobillier	Evaluation results from AC/DC converters for xTCA
M. Di Cosmo	Summary of evaluation results of xTCA equipment
M. Joos	Messages from our friends
F. Carrio Argos	ATCA developments for the ATLAS Tile Calorimeter upgrade
J. P. Cachemiche	Update on the ATCA/AMC readout cards for LHCb
E. Hazen	Update on the AMC13 project
A. Racz	S-Link express

# Opportunities for collaboration

## 1) Knowledge

### Evaluation of commercial MTCA components

- Several institutes (CERN, SLAC, DESY) are evaluating shelves, PSUs, MHCs, etc.
- Some duplication of effort
- Not all results are public
- Looking for ways of sharing results (confidentially)

### Interoperability testing

- Different institutes have different inventory of products
- Different levels of local expertise
- CERN PH/ESE happy to provide its tools and devices for “self service” tests
  - Assistance from experts on best effort basis

### Common specifications

- ATLAS and LHCb plan cooperation on definition of minimal requirements of ATCA systems

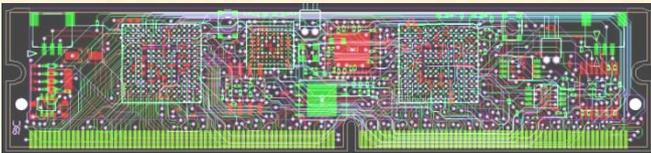
# Opportunities for collaboration

## 2) H/W components

NOTE: “opportunity” not “commitment”

Component	Developed by	Picture
MMC design and core S/W	CERN (PH/ESE)	n/a
IPMC mezzanine and S/W	ATLAS (LAPP Annecy)	1
AMC test pad	LHCb (CPPM)	2
AMC.CERN crate	Industry / CMS / CERN	3

1



2



3

Support for full width AMCs and MTCA.4 RTMs



# Opportunities for collaboration

## 3) S/W components

NOTE: “opportunity” not “commitment”

Component	Developed by	Remark
TileIPMI GUI	ATLAS (Valencia)	IPMI monitor for ATCA; based on OpenIPMI
MicroHAL / (IPbus)	CMS	Low level access library for xTCA components
F/W modules	CMS	Come with S/W

# Next Step

## Next xTCA IG meeting

- Tentatively scheduled for March / April 2014 (@CERN, with Video conference)
- Focus on discussion of common requirements across (CERN) experiments

# Additional information

## For your agendas

**MTCA workshop, 11/12 December, DESY**

[mtcaws.desy.de](http://mtcaws.desy.de)

Abstract submission: 20 October

Registration: 22 November

## xTCA IG web site

[twiki.cern.ch/twiki/bin/view/XTCA/WebHome](http://twiki.cern.ch/twiki/bin/view/XTCA/WebHome)

## Mailing list

[xtca-news@cern.ch](mailto:xtca-news@cern.ch)