

ACTL-TIME: Report on recent activities

Arnim Balzer for the ACTL-TIME sub-work package ACTL-TIME Camera Call, SeeVogh May 24, 2016





Mailinglists



- Created two temporary mailing lists until official CTA mailing lists are available
 - <u>cta-actl-time@list.uva.nl</u>
 - <u>cta-actl-time-com@list.uva.nl</u>
- Please let me know if your email address has changed until the official mailing lists are created
 - No automatic synchronisation with CTA user database



Consortium Meeting Kashiwa



- ACTL Parallel session Monday
 - <u>ACTL-TIME Report</u> went fine, no comments
- Cross WP ACTL vs. CAM (TIME) session Tuesday
 - Very large audience (everyone was present)
 - ACTL-TIME Activity Update went fine, no comments received
 - Camera UCTS Implementation talk went fine, also no comments
- Unofficial "blessing" of the Project Manager to continue



Upcoming draft circulations



- Draft for network bridge between timing & data network will be circulated next week
- Draft for trigger message content will also be circulated next week

CDTS Trigger	Message Content	CDTS N	letwork Bridge
Authors:	Approved By:	Authors:	Approved By:
	D. Berge ACTL-TIME (pending)		D. Berge ACTL-TIME (pending)
	M. Punch ACTL-TIME (pending)		M. Punch ACTL-TIME (pending)
	M. Füßling ACTL System Engineer (pending)		M. Füßling ACTL System Engineer (pending)
	I. Oya ACTL Project Manager (pending)		I. Oya ACTL Project Manager (pending)
	U. Schwanke ACTL Science Coordinator (pending)		R. Lindemann ACTL-ONSITE (pending)
	J. Hinton CTA Project Scientist (pending)		U. Schwanke ACTL Science Coordinator (pending
	Project Office TBD (pending)		J. Hinton CTA Project Scientist (pending)
	M. Gaug CTA COM WP (pending)		Project Office TBD (pending)
	ASTRICam TBD (pending)		ASTRICam TBD (pending)
	DigiCam TBD (pending)		DigiCam TBD (pending)
	FlashCam TBD (pending)		FlashCam TBD (pending)
	GCTCam TBD (pending)		GCTCam TBD (pending)
	LSTCam TBD (pending)		LSTCam TBD (pending)
	NectarCam TBD (pending)		NectarCam TBD (pending)
. Balzer UvA	SCTCam TBD (pending)	A. Balzer UvA	SCTCam TBD (pending)
List of Abbreviations:		List of Abbreviations:	
CTL Array ConTroL	TAI Temps Atomique International	ACL Access Control Lists	CDTS Clock Distribution and Trigger time Stamp
CDTS Clock Distribution and Trigger time Stamp- ing	UCTS Unified Clock distribution and Trigger time Stamping	ACTL Array Control and Data Acquisition	UCTS Unified Clock distribution and Trigger tim
		CS Camera Server	Stamping
History:		History:	
1.0 2016-05-11 First draft		1.0 2016-05-09 First draft	
Distribution: open		Distribution: open	





UCTS Counter Reset

- Two options:
 - Reset from Camera to UCTS
 - Reset from UCTS to Camera
- Issue: No LVDS signal directly foreseen for reset
- Possible solution: "Software" reset via Camera Controller
 - Camera Controller asks Camera Electronics and UCTS (via UCTS slow control interface) to reset counters
 - Camera Electronics resets counter directly after next PPS pulse and waits for resume command by Camera Controller
 - UCTS resets counter directly after next PPS pulse and sends acknowledge back to Camera Controller
 - Camera Controller notifies camera to resume
- Alternative: Encode in external trigger signal?

