




TINE Release 4.0 News

(May 16, 2008: That was the week that was !)

[General News]

- tine.desy.de
 - Windows CE download available (with helpful documentation)
 - Low Level support
 - Network Queue
 - CDI (place holder + documentation in German)
 - TICOM (place holder but Karol promises to fill it in)

[TINE Kernel 4.0.1]

- Bitfield acquisition handshaking
 - Std lib (not yet in java!) 
 - Property can return 'has_structure_tag' or 'has_bitfield_tag' + tag
 - Triggers bitfield acquisition
 - Already implemented in CDI !
 - e.g. 'PSC1.status.on' as CF_SHORT remaps to 'PSC1.status.on' as CF_BITFIELD16 + bitfield tag
 - => client does NOT have to know the bitfield tag a priori !
- Allow similar functionality with structs ?!
 - Register original property plus 'Property.field' for all fields.

CDI and Bitfields

	A	B	C	D	E	F	G	H	I	J	K
1	NUMBER	NAME	BUS	LINE	MASK	ADDRESS	ACCESS	INPUT	FORMAT		
2	0	StsBits:Field1	BITFIELD		0 0x01				0 short		
3	0	StsBits:Field2	BITFIELD		0 0x02				0 short		
4	0	StsBits:Field3	BITFIELD		0 0x03				0 short		
5	0	SEKI:PowOn	TEMPLATE	0		0:09	WR		1 short		
6	0	SEKI:PowOff	TEMPLATE	0		0:09	WR		2 Short		
7	0	SEKI:HVOOn	TEMPLATE	0		0:09	WR		4 Short		
8	0	SEKI:HVOOff	TEMPLATE	0		0:09	WR		8 Short		
9	0	SEKI:Status	TEMPLATE	0		0:00			BITFIELD16: <StsBits>		
10	0	SEKI:SolI	TEMPLATE	0		10:10			Short		
11	1	KICK2-	SEDP	1		16.48:	<SEKI>		Short		
12	2	KICK2+	SEDP	1		10.32:	<SEKI>		Short		
13	3	SEPT-/+	SEDP	1		25.80:	<SEKI>		Short		

Instant Client

Print ... Options ... Debug Tools ... Show Globals ! Input Panel !

Device Context: **HARDWARE** Device Subsystem: **ALL**

Device Server: **MSTXPLDUVAL.CDI** Device Name: **KI40E.Status**

Data Size: **1** Data Type: **INTEGER** Description: **Issue CDI Read Telegram**

HARDWARE/MSTXPLDUVAL.CDI/KI40E.Status REC @ May 15 20:28:11

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Instant Client

Print ... Options ... Debug Tools ... Show Globals ! Input Panel !

Device Context: **HARDWARE** Device Subsystem: **ALL**

Device Server: **MSTXPLDUVAL.CDI** Device Name: **KI40E.Status.Field1**

Data Size: **1** Data Type: **INTEGER** Description: **Issue CDI Read Telegram**

MSTXPLDUVAL.CDI/KI40E.Status.Field1 REC @ May 15 20:28:11

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Instant Client

Print ... Options ... Debug Tools ... Show Globals ! Input Panel !

Device Context: **HARDWARE** Device Subsystem: **ALL** Show Stock Properties

Device Server: **MSTXPLDUVAL.CDI** Device Name: **KI40E.Status.Field3** Device Property: **REC**

Data Size: **1** Data Type: **INTEGER** Description: **Issue CDI Read Telegram** Timeout: **1000**

MSTXPLDUVAL.CDI/KI40E.Status.Field3 REC @ May 15 20:26:11.750

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READ

POLL

Draw Mode: **Text dur**

use tcpip Autoscale Log Scale

[TINE Kernel 4.0.1]

- Data type CF_DLONG (CF_INT64) implemented and tested in java !
 - Can be used as a data type or as part of a tagged structure !
 - Not yet fully integrated in the Std Lib (for once java is ahead!)
 - Not yet accessible in the Instant Client (coming soon, we promise !).

[TINE Kernel 4.0.1]

- allow stock property “SRVEXIT” to take an exit code.
- added routines (mutex lock on Eqm):
 - LockEquipmentModule()
 - UnlockEquipmentModule()

[Device Groups (Straw poll)]

- Allow off-context Groups ?
 - e.g. put the physical servers in some context PETRA.HDW
 - and the logical server in PETRA
 - N.B. plug-and-play requires adjusting the code at the GENS. Can achieve this now only by adding an Alias server in another context.
- allow multi-membership ?
 - e.g. MKK view of the world sees devices from servers X, Y, Z and A, B, C, belong to some server S0
 - Physicists see devices from servers X, Y, Z belonging to server S1 and A, B, C belonging to S2
 - N.B. An admin can do this now, but it's not plug-and-play.

[TINE Kernel 4.0.1]

- Bug Fixes:
 - Display bug with debug level > 0 + repetitive socket read error.
 - Java: getPropertyInformation() can take '*' parameter for property and delivery full information for all properties (DOOCS request).
 - Java: READ/WRITE format mapping from/to TEXT and NAMExx formats.