TINE Release 4.0 News
(Nov 11, 2011: That was the month that was !)

"What a long, strange trip it's been …."

Release 4.2.8

- **Improvements** in version 4.2.8
  - Bug fixes
    - Problem with CF_DEFAULT link mapping to an identical link established with the '*correct*' targeted format and size.
      - e.g. link to property "ABC" with 1 float followed by link to property "ABC" with CF_DEFAULT which then learns that the property returns 1 float …
    - Synchronous wildcard call no longer *hangs* for either single server or multiple server group (*problem only in java*).

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- Improvements in version 4.2.8
  - 'information_static' contract coercion
  - alarms:
    - Link error alarm tags now contain the problem server
    - Designated alarms can append text data to alarm tag
  - console command: add 'get redirections'
  - Java: 'BoundToInactiveLink' exception circumvented
  - C Lib: tagged structure work space can grow automatically

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- *'information_static'*
  - retuned if when a property is registered with access flag 'CA_STATIC' and the property is *polled*.
    - Returns CE_SENDDATA + information_static
  - Client side now does the following:
    - fires the callback once
    - closes the link remotely (if not closed within the callback)
  - *Some Stock and Meta Properties do this*!

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- ## Link Error Alarms

Tag now contains the *problem server* !

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- Alarm tags + text data
  - If *alarm mask* = (or contains) 0x01 AND the *alarm data* has CF_TEXT format :
    - data appended to the *alarm tag* !
    - *beware of truncation* !
      - alarm tag is only 32 bytes in total !
    - viewer (with '*collapse equal alarms*') will only show the most recent tag !

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jDDD Displayer (Version 1.0.2): Personenint

Datei Maschine(Regae) Optionen Hilfe

Strahlfreigabe   **NOT-AUS**   **Tuereni**

Tuereninterlock REGAE   AND

NOT-AUS REGAE

Schluessel REGAE

Strahlungsueberwachung REGAE   AND

Modulator AUS REGAE

McsXpDuval01 08.12.11

Application Debugging console (Windows XP 5.1)

clients | contracts | connections | messages | debug level: ● off ○ 1 ○ 2 ○ 3 ○ 4 | command | get redirections

```
Current Redirection Table
/REGAE/PiControls/Regae_cancelBeamPermis[isConfirmRequired] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_cancelBeamPermis[isConfirmRequired]
/REGAE/PiConditions/REGAE_eStop_5[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_5[displayState]
/REGAE/PiControls/Regae_cancelBeamPermis[ready] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_cancelBeamPermis[ready]
/REGAE/PiControls/Regae_startBeaconTest[ready] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_startBeaconTest[ready]
/REGAE/PiConditions/RegaeAlatchIsOn[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAEAlatchIsOn[labelDe]
/REGAE/PiControls/Regae_AbrkIntrlk[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_AbrkIntrlk[labelDe]
/REGAE/PiControls/Regae_cancelBeamPermis[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_cancelBeamPermis[labelDe]
/REGAE/PiControls/REGAE_resetEstop[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_resetEstop[labelDe]
/REGAE/PiConditions/Regae_TI[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_TI[labelDe]
/REGAE/PiConditions/REGAE_modulatorOff[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_modulatorOff[labelDe]
/REGAE/PiControls/REGAE_resetEstop[isConfirmRequired] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_resetEstop[isConfirmRequired]
/REGAE/PiConditions/REGAE_eStop_2[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_2[labelDe]
/REGAE/PiConditions/REGAE_eStop_2[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_2[displayState]
/REGAE/PiConditions/regae_keyBoxOnClearance[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_keyBoxOnClearance[displayState]
/REGAE/PiControls/Regae_cancelBeaconTest[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_cancelBeaconTest[labelDe]
/REGAE/PiConditions/displayedRegae_KwLatchIsOn[displayState] -> /REGAE/PiPrivCond_RegaeP/displayedREGAE_KwLatchIsOn[displayState]
/REGAE/PiConditions/REGAE_kwSumEstop[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_kwSumEstop[labelDe]
/REGAE/PiConditions/Regae_gewarnt[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_gewarnt[displayState]
/REGAE/PiConditions/Regae_gewarnt[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_gewarnt[labelDe]
/REGAE/PiConditions/regae_keyBoxOnClearance[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_keyBoxOnClearance[labelDe]
/REGAE/PiConditions/Regae_startBeamWarning[ready] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_startBeamWarning[ready]
/REGAE/PiConditions/REGAE_eStop_3[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_3[labelDe]
/REGAE/PiConditions/displayedRegae_SFGerteilt[displayState] -> /REGAE/PiPrivCond_RegaeP/displayedREGAE_SFGerteilt[displayState]
/REGAE/PiControls/Regae_cancelBeaconTest[isConfirmRequired] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_cancelBeaconTest[isConfirmRequired]
/REGAE/PiConditions/REGAE_eStop_4[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_4[displayState]
/REGAE/PiControls/REGAE_resetEstop[ready] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_resetEstop[ready]
/REGAE/PiConditions/Regae_startBeamWarning[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_startBeamWarning[labelDe]
/REGAE/PiConditions/regae_radiationMonitors[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_radiationMonitors[displayState]
/REGAE/PiConditions/Regae_grantBeamPermiss[isConfirmRequired] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_grantBeamPermiss[isConfirmRequired]
/REGAE/PiConditions/REGAE_modulatorOff[PROPS] -> /REGAE/PiPrivCond_RegaeP/REGAE_modulatorOff[PROPS]
/REGAE/PiControls/Regae_AbrkIntrlk[ready] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_AbrkIntrlk[ready]
/REGAE/PiConditions/REGAE_eStop_4[labelDe] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_4[labelDe]
/REGAE/PiConditions/REGAE_eStop_1[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_eStop_1[displayState]
/REGAE/PiConditions/REGAE_modulatorOff[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_modulatorOff[displayState]
/REGAE/PiConditions/Regae_TI[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_TI[displayState]
/REGAE/PiControls/Regae_startBeamWarning[isConfirmRequired] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_startBeamWarning[isConfirmRequired]
/REGAE/PiConditions/displayedRegae_SFGerteilt[labelDe] -> /REGAE/PiPrivCond_RegaeP/displayedREGAE_SFGerteilt[labelDe]
/REGAE/PiConditions/REGAE_kwSumEstop[displayState] -> /REGAE/PiPrivCond_RegaeP/REGAE_kwSumEstop[displayState]
/REGAE/PiControls/Regae_grantBeamPermiss[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_grantBeamPermiss[labelDe]
/REGAE/PiControls/Regae_startBeaconTest[labelDe] -> /REGAE/PiPrivCtrls_RegaeP/REGAE_startBeaconTest[labelDe]
```

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- Java:
  - '**BoundToInactiveLink**' exception has been circumvented !
    - e.g.
      ```
      TLink lnk1 = new TLink(parameters);
      TLink lnk2 = new TLink(same parameters);
      lnk2.execute();
      ```
    - Before: *exception !*
    - Now: use lnk1 to '*peek*'
      - i.e. a hidden lnk1.execute().

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- C: tagged structure work space can grow!

```
int SealTaggedStruct ( char *  tag,
                       int      size,
                       int      number
                     )
```

provides a work space
for structures
now: initial capacity

Seals a tagged structure (registration finished!).

Call this routine to signal the structure registry that there are no more fields to be added to the tagged structure.
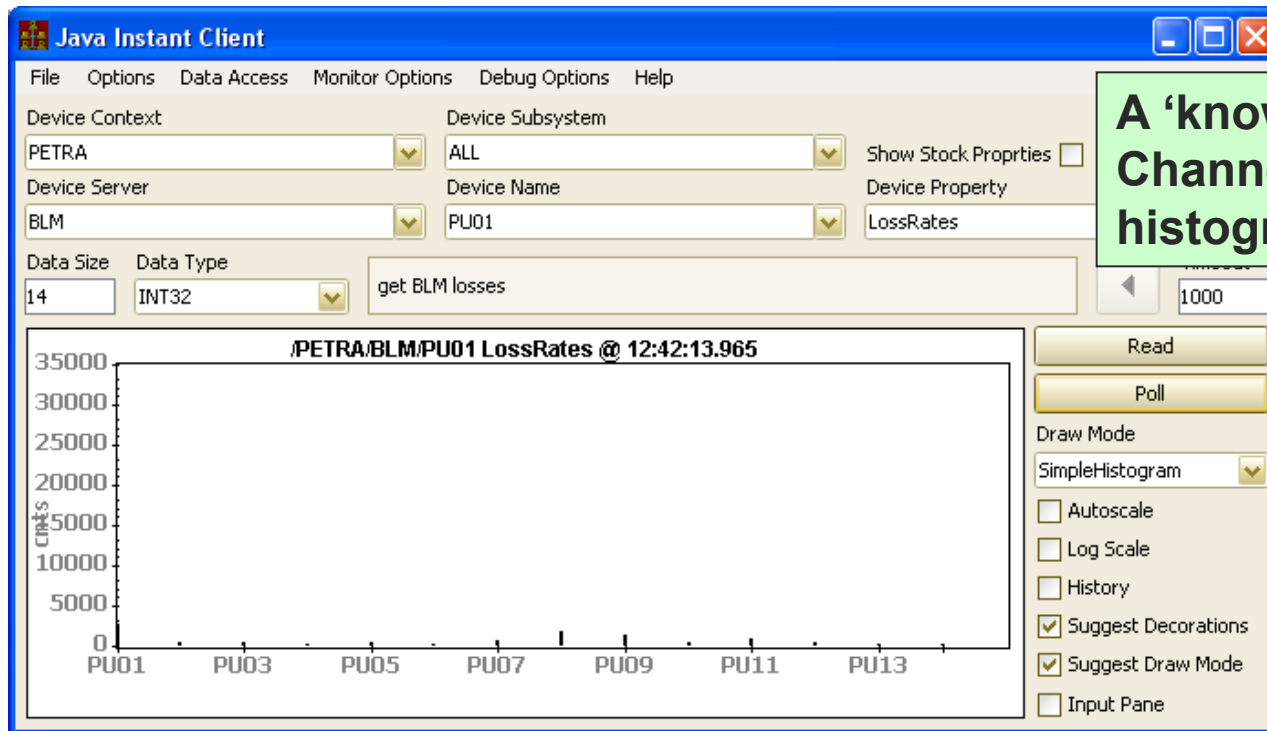
Parameters:
    tag   structure tag name
    size   total size of the structure in bytes
    number number of elements of this structure to allocate

Returns:
    0, un_allocated, out_of_local_memory

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- (java) Instant Client: new feature

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- But you want to see the values:

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- Uncheck 'Suggest Draw Mode'