

Tango To Tine Gateway

Outline

- Why do we need gateways?
- The mapping schema
- Implementation
- Example : Archive



Why do we need gateways

- Tine To Tango
 - Petra3 experiments need to access machine data
 - Undulator gap and taper, interlocks, beam current, beam position,
- Tango To Tine
 - Petra3 experiments want to use the machine archiving system
 - Motor positions, temperatures,



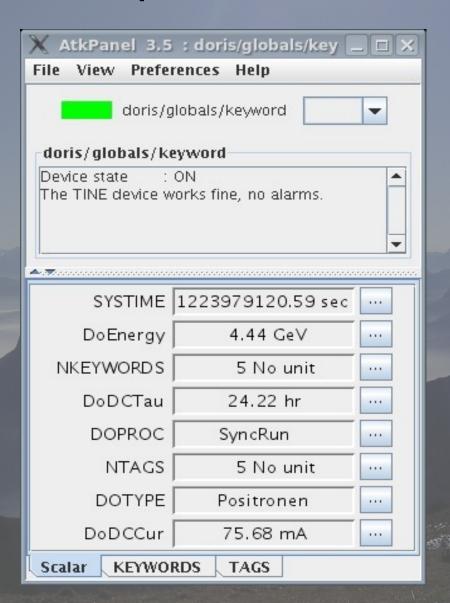
The Mapping Schema

- → Tine server <-> Tango class
 - All devices have the same interface
- → Tine device <-> Tango device
 - Addressable on the network with a three field naming schema (x/y/z)
- Tine properties <-> Tango attributes and commands
 - Mapping is possible for all standard data types



- Tine To Tango
 - The full Tine device name is mapped as Tango device
 - + context/server_name/device_name
 - Properties are mapped to Tango attributes
 - +The same names are used
 - Properties with different input and output data types are mapped as Tango commands
 - The same names are used







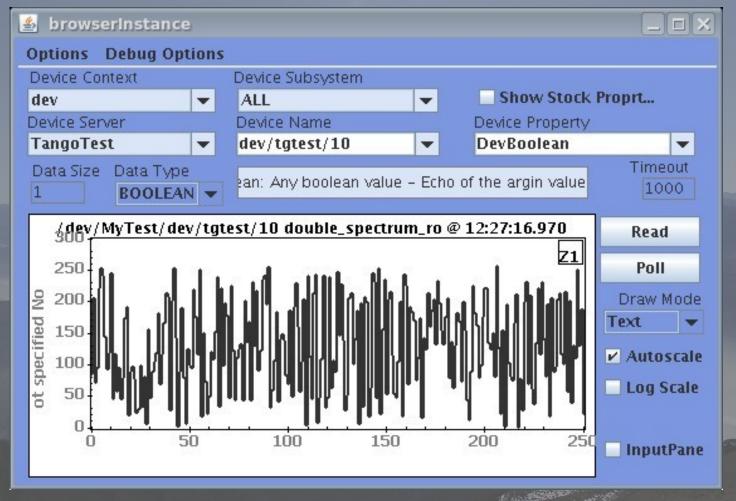
- → Tango To Tine
 - Tango class name is used as Tine server name
 - A list of Tango devices (or all) of the same class can be mapped into one gateway server
 - The Tine device name field shows the full Tango device name
 - domain/family/member



- → Tango To Tine
 - Tango commands and attributes are mapped to Tine properties
 - +The same names are used
 - Tine context and subsystem can be chosen for the gateway

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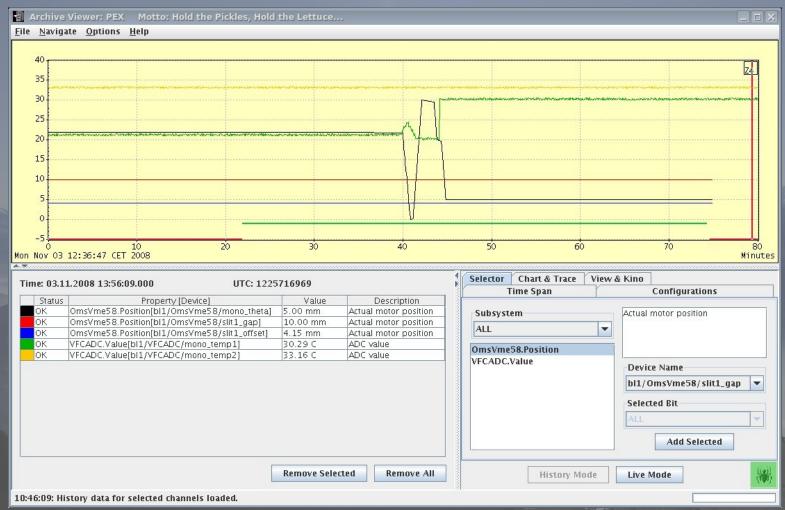




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Example: Archive



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