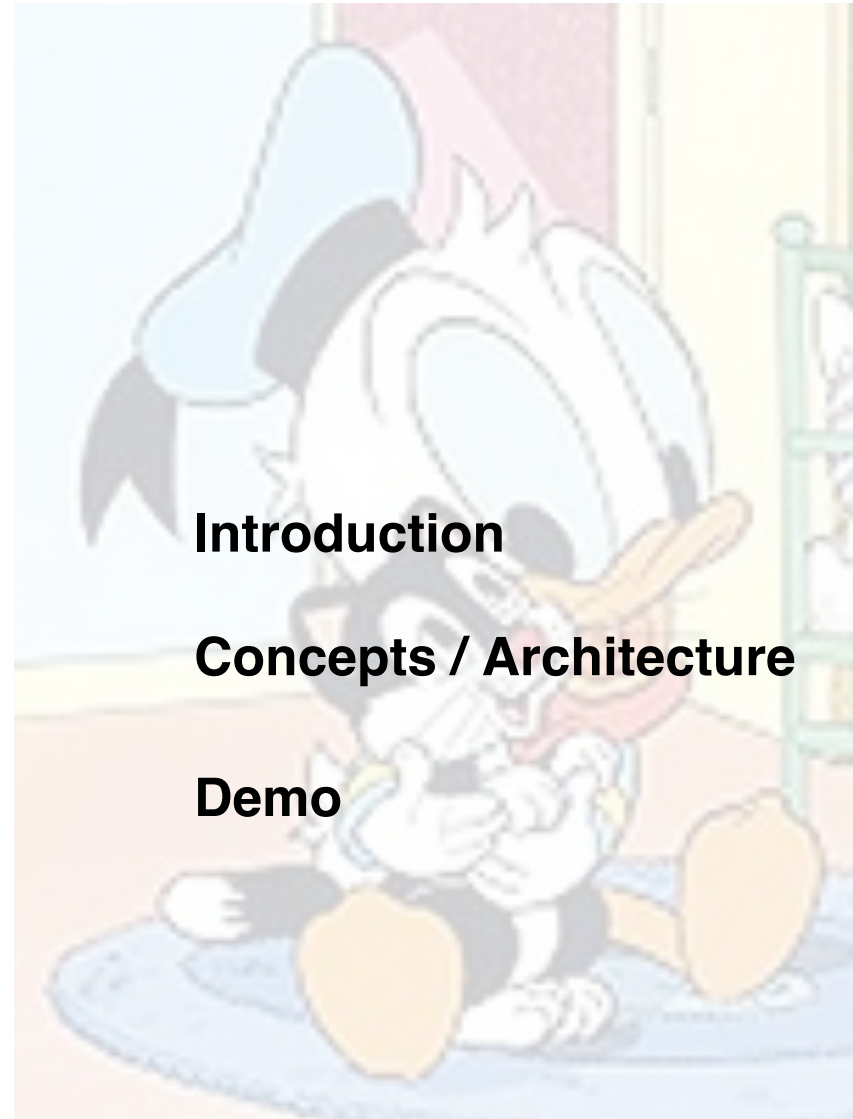


DAQ-CAD sneak preview





Introduction



- Deliverable:
 - DAQ-CAD is the tool to create the configuration for arbitrary XDAQ3 based DAQ systems
 - Configuration:
 - A set of xml configuration files for the XDAQ contexts
 - A configuration file for the RS2
- For who?
 - XDAQ users in the collaboration:
 - Test beam
 - Laboratories
 - Magnet test
 - Integration in bat 904
 - ...
 - TriDAS group
 - Cessy test systems
 - Bat32 test systems
 - Laboratory test systems (e.g. DAQKit evaluation platform in bat 40-3-01)



Cont'd: Introduction



- Design goals / constraints:
 - Human friendly instead of “human readable”: XML free configuration
 - Separate static configuration from dynamic configuration:
 - Static configuration:
 - Things which do not change
 - One day will be in some equipment database
 - Examples: hosts, physical networks, ...
 - Dynamic configuration:
 - The properties of the DAQ system to be run (e.g. 8x8, 16x16, with pseudoFED, FRL only, myrinet EVB or Ethernet EVB, software versions to be used, trigger source...)
 - Stripped XML configuration files:
 - Every context receives a minimal configuration file (less network traffic, easier debugging)
 - Get something working within 35 working days (13/1/2005 - today)



Concepts / Architecture



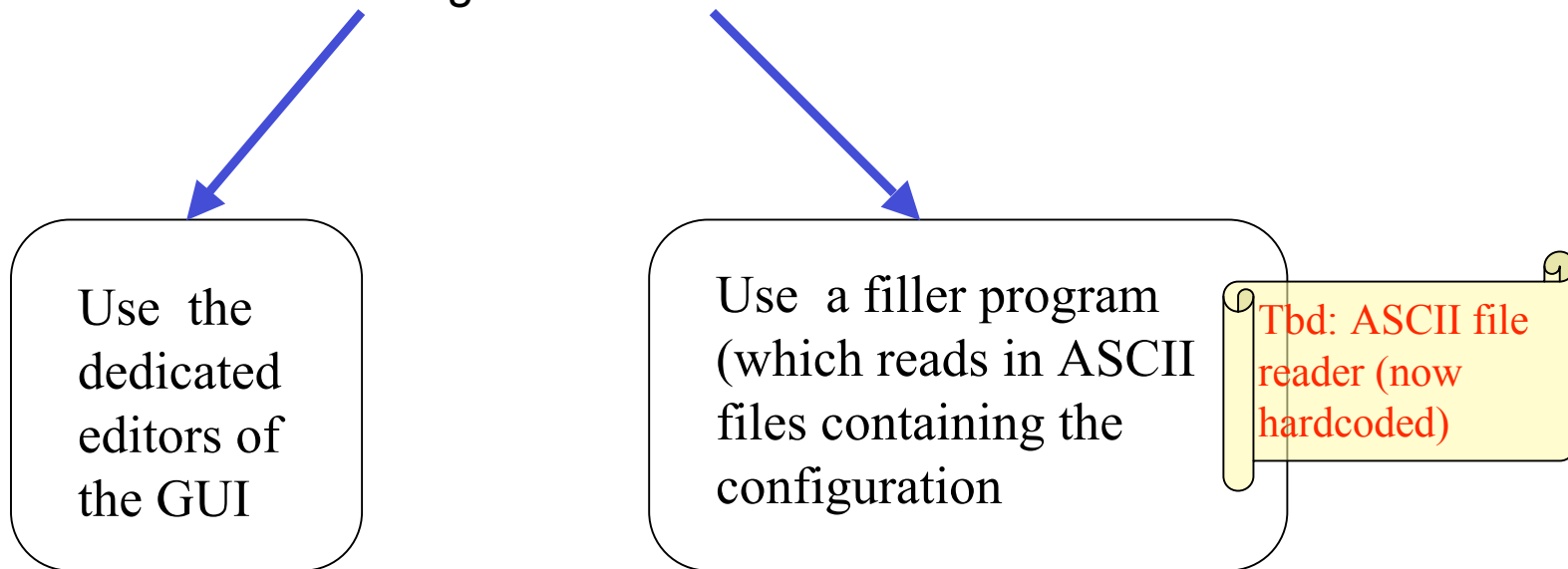
- Concepts
 - Storage
 - Everything is stored directly in a Database.
(exception: access parameters to the database (4) are in a file)
 - Tables for the static and the dynamic configuration are held strictly separate.
 - The dynamic configuration tables refer to the static configuration tables
BUT NOT VICE VERSA.
 - No XML is stored in the database.
(--> easy debugging, flexibility)
 - ==> hopefully easy integration with equipment database.



Concepts



- Usage and “DAQ-Design flow”
 - To be done once:
 - Install the software (tar ball or cvs)
 - Run an initialization script
 - Fill the static configuration tables

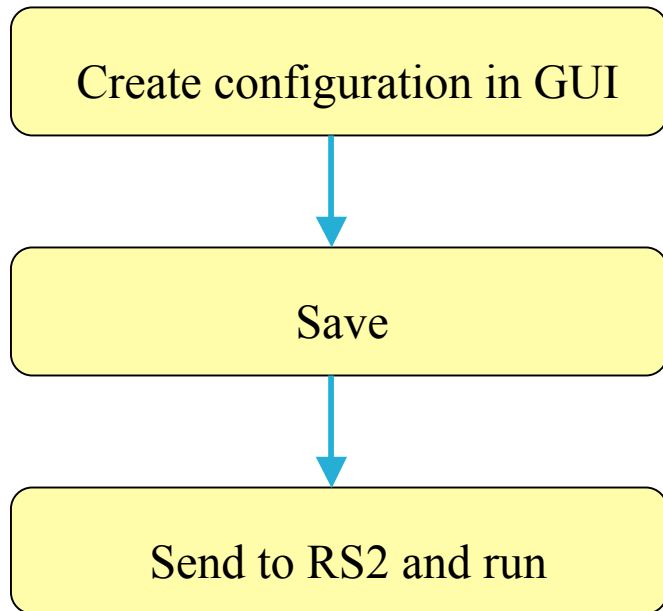




Concepts



- Design flow
 - To be done for every configuration:



OR

