Release 4.0 News

(That was the week that was)

Preliminary Download Packages

- Platforms
  - Windows
  - Linux, FreeBsd, MAC
  - Solaris, VxWorks soon to follow
  - DOS (huge memory model necessary)
- Last minute bug-fixes and features
  - More supported formats for local histories
  - New Format type CF_DBLDBLDBL for data retrieval (value, status, timestamp)
  - Modification to the Alarm Message Structure

Central Services

- Central Archive System
  - Lots of code refactoring !
  - MARCH FEC (Data Acquisition)
    - Registers as "ARCHIVER" in designated context
    - Local equipment module "DAQEQM"
  - ARCSRV FEC (Archive readout)
    - Registers as "HISTORY" in designated context
    - Local equipment module "HSTEQM"
    - Manages archive configurations !!!
  - Archive Viewers :
    - Avoid local configuration files
    - Query ENS for contexts
    - Query ENS for servers called "HISTORY" in each context
    - Query the HISTORY server for configurations
  - TODO:
    - Allow millisecond timestamp data storage and faster access
    - Complex data types

Central Services

- Globals Server
  - Is a "MARCH" Server with
    - A globals list
    - Multicasting enabled
    - Registered as "GLOBALS" in designated context
  - "Site" globals server in "SERVICE"
    - Reference to the Time Server (also sent on the Site Globals multicast group)
  - "Context" globals
    - Each context can have a globals server with its own multicast group

Central Services

- State Server
  - No major changes
- Statistics Server
  - No major changes

Central Services

- Event Archive (Post-Mortem)
  - Lots of code refactoring
  - FEC "PMARCH" has 3 equipment modules
    - "EVENTSTORE" ("STREQM")
    - "EVENTAPC" ("APCEQM")
    - "EVENTS" ("ARCEQM")
  - Respects Context information
  - Longer names supported
    - Data Tags (structure tags) supported
    - New browsing, querying (+ backward compatibility)
    - New Information storage (+ backward compatibility)
  - TODO:
    - New Information Header

Central Services

- Central Alarm Server (CAS)
  - Uses the New Alarm Message Structure
    - Higher resolution timestamps
    - Alarm Start time information
    - Larger Alarm data buffer
    - Backward compatible
  - Archive as per PMARCH (long name support, etc.)

Central Services

- **Central Logging Server**
  - To be commissioned soon!
  - C API:

    int clslog(context, tag, logger, priority, status, text)

    Context = "PETRA" (32 char)

    Tag = "RF" (32 char)

    Logger = "Operator" or "Bacher", etc. (32 char)

    Priority = 1

    Status = 0

    Text = "bla bla"