Software for the SAM RG Community
IETF 83

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Open Implementations of RELOAD

- JAVA RELOAD Stack by Marc Petit-Huguenin
  - Software: http://blog.marc.petit-huguenin.org/p/debianubuntu-repository.html
  - Blog: http://blog.marc.petit-huguenin.org/search/label/RELOAD

- RELOAD.NET: C# implementation of RELOAD – joint project of T-Systems/Labs, HAW Hamburg, FH Mannheim
  - Software (access to be opened soon): https://github.com/RELOAD-NET/RELOAD.NET

- Interop testing here at Paris
MC-Proxy - Multicast Proxy for IGMP/MLD

MC-Proxy is a C++ implementation of the IGMP/MLD proxy function (see RFC 4605) for Linux systems

• The initial release supports:
  – IGMPv2/MLDv1 (IGMPv3/MLDv2 under way)
  – multiple proxy instances
  – dynamic management of downstream interfaces
  – forwarding based on kernel routing tables

• Software & documentation:
  http://mcproxy.realmv6.org
HAMcast – Hybrid Adaptive Multicast

HAMcast provides a system architecture for a universal multicast service: Abstract naming based on the common API, a system-centric service-middleware, and gateways (IMGs) to cross technological and administrative network borders.

• The current release 0.4.1 includes
  – Java client library with common multicast API
  – New software tools for Multicast Tree Management
  – New programming examples
  – Minor bug fixing
  – Updated documentation

• Software & documentation:
  http://hamcast.realmv6.org/developers
libcoppa – A C++ Actor Library with Group Semantic

libcoppa is an actor library for C++11 that extends the actor model with transparent group semantics to ease development of distributed systems based on multicast technologies.

• The initial release supports:
  – Mailbox-based message processing
  – Context-switching, event- and thread-based actors
  – Publish/subscribe oriented group communication
  – Network transparent messaging

• Software: [https://github.com/Neverlord/libcoppa](https://github.com/Neverlord/libcoppa)
• Documentation: [http://neverlord.github.com/libcoppa/](http://neverlord.github.com/libcoppa/)
• Blog: [http://libcoppa.blogspot.com/](http://libcoppa.blogspot.com/)