

# Software for the SAM RG Community

## IETF 83

Thomas Schmidt  
[schmidt@informatik.haw-hamburg.de](mailto:schmidt@informatik.haw-hamburg.de)

# 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>

# libcppa – A C++ Actor Library with Group Semantic

libcppa 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/libcppa>
- Documentation: <http://neverlord.github.com/libcppa/>
- Blog: <http://libcppa.blogspot.com/>