

# Stefan Broddesson | Integrator/Developer

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## In brief

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My common theme have been voice and data communication systems. Early on as a developer, but have also had a role as project manager, product manager and have been providing consulting services in the field. A creative mind makes me naturally “disruptive”. I enjoy moving the boundaries of what can be done or how things are done.

I thrive in a team of professionals.

## Professionell Bakgrund

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### Cellip AB 2015 - 2018

*SIP systems* [ Asterisk, Kamailio, Lua, RAM DB's, ZeroMQ, MySQL, HaProxy, Perl/Mason, SOAP API ]  
Rebuild of SIP platform enabling dynamic execution business logic. Customer solutions.

*Platform security* [ Cisco firewalls, switches and Cent-OS servers ]  
Review of all systems. Establish a changeplan. Guide and review actions by responsible staff.

### R&D 2014

*Bitcoin och payment solutions* [ Lua, Redis, ZeroMQ, RESTful APIs ]  
Orientation in tech area and test of some implemetations like buy/sell transaction profiles.

*OpenBTS* [ GSM, GPRS, Asterisk, MySQL, ZeroMQ ]  
Open source system using 1800MHz-band.

### Rebtel Networks AB 2006 - 2013

*VoIP system integrations* [ Kamailio/OpenSER, Asterisk, F5, Juniper, Lua, C, BASH, git, Linux & kernel-modules, Memcached, MySQL, SIP, SIPp, ISDN ]

**SIP Routing - Proxy topologi.** Establish “Trust zone” and peering towards international orgination/termination-partners and “unTrust zone” serving SIP clients, iNUM and SIP-to-Skype gateways. SMS peering using Kamailio/TCP/SIP towards Syniverse. Rebuild BigIP UDP loadbalancing together with F5 staff.

**SIP SBC.** Establish security policies in Juniper firewall and SIP proxies.

**SIP B2Bua.** Cluster of Asterisk servers interfacing businesslogic.

**SIP referencelab.** Referenceplatform for load/degradation-simulations.

**Operations.** Is part of operationsteam and have on-call duties every 6<sup>th</sup> week.

*Support systems* [ AWS, RTP-Proxy, RTCP, Lua, libpcap, pf\_ring, Redis, ZeroMQ, BASH, APT, SSH, TFS ]

**Distributed call-quality reporting system.** Distributed RTCP (rfc3550) decoders stream data from core router and RTP-Proxies. Current situation is displayed on a world map. Alarm levels for jitter, packet loss and delay is established.

**Amazon AWS.** System enabling dynamic start/stop and software profiling of Linux servers.

### Kerfi AB 2003 - 2005

*Consulting, systems Integration* [ [Interactive Intelligence Inc](#) in Sweden, Norway and Denmark ]

**CallCenters.** Consultservices and systemsintegrations at Bilia, Banverket och BredbandsBolaget.

**Telemarketing.** Consultservices and systemsintegrations at Exit Marketing.

### Communicator Interactive AB 2000 - 2003

*Interactive systems* [ [Netspeak Inc.](#), [Interactive Intelligence Inc.](#) ]

#### Interactive systems

Established a new business area. Negotiated and contracted best in class technology suppliers.

Netspeak Inc. delivering SIP-to-ISDN gateway's and VoIP clients. Interactive Intelligence Inc. supply systems for UnifiedCommunication, CallCenters and Telemarketing..

Provide VoIP consulting services to operators and larger organisations.

## Tools of my trade

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**In my laptop** : [ Qubes OS, Debian, Incus/Ansible/OpenTofu, Lua, Kamailio, Asterisk, RAM DB's, MySQL, ZeroMQ ]  
Have been part of Asterisk community since 2005. Started using SER (OpenSER ~OpenSIPS), now Kamailio, for SIP routing during 2006.

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**Programming** : Lua, Perl, C

**Scripting** : Bash, Lua, Javascript

**Firewalls** : Juniper, Cisco, Mikrotik, pfSense

**Linux** : Qubes OS, Debian, CentOS

**Networking** : TCP/IP, ZeroMQ, STUN/TURN, libpcap, PF\_Ring, DHCP, DNS, NTP, OpenSSH, OpenSSL

**VoIP** : Kamailio, Asterisk, FreeSwitch, SIP, WebRTC, SIPp, RTP/RTCP, SDP, rtp-proxy, ISDN, SMS

**IDE** : ZeroBrane, Eclipse, vi, VisualStudio

**SQL/noSQL** : MySQL, Redis, Memcached

**HA/Loadbalancers** : F5, Kamailio, HAProxy

**Virtualizing** : Incus/LXC, Ansible, OpenTofu, VMWare, Xen

**Networking tools** : Wireshark, Nmap

**Sourcecode** : GIT, Subversion, TFS

**Methods** : Agile-Scrum, Kanban, TDD

**Speak fluent** : Swedish, Danish och English.

**Write fluently** : Swedish and English

Schooled in German but never used it.

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## Education

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**Uppsala University**

1987 - 1988

*ADB*

**4-years Technology highschool**

1984 - 1987

*Electrical engineering*

## Briefly private..

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Privately I live a reasonably ecological life. Switched my car for a larryvsharry.com/Bullitt bike. Spend time Kayaking, or with an F18, in the archipelago. Have an outside gym. Been involved in some form of contact sport all my life. So, never heard of Lua? It is a preference of mine. Executes well in class with C/C++. Integrates well with i.e. Asterisk/Kamailio/HAProxy and db's. It is lightweight, fast and an efficient development/prototyping tool. You will not find me in/on Facebook/Instagram, LinkedIn or even Github for reasons of corporate or personal privacy.

Contact me for references.