



LINC & LOOM

We developed the free-to-use software switch LINC and distributed controller framework LOOM to provide a standards-compliant passport that allows you to experiment with OpenFlow, which is central to Software Defined Networking (SDN). It is a SDN standard generated by the user community that gives you the ability to tailor your network to the applications you are running across the network. All can be accomplished with off-the-shelf hardware and minimal configuration.

A STANDARDS-COMPLIANT PASSPORT TO OPENFLOW

WHY LINC & LOOM FOR THE OPENFLOW?



OpenFlow is an answer if your network has high levels of churn (for example high levels of virtual server provisioning), or if your network is rapidly expanding or evolving. It is also a solution if you require programmatic control of your network services (such as: controlling VLANs, sub-network provisioning, service level differentiation). LINC & LOOM makes your roadmap to evolve to an OpenFlow network easier and cheaper than you think.

OUR EXPERTISE

We offer consultancy services around OpenFlow and can enhance LINC & LOOM to suit your requirements or application. With extensive experience of LINC configuration from a number of different test setups, we can help you get your own OpenFlow network up and running rapidly.

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The Software Defined Networking (SDN) approach is the next revolution in networking. It allows you to remove network control from the devices that forward the packets and centralise it on a server called a controller. Centralizing intelligence makes it possible to set the network end-to-end and make big picture decisions, rather than having each network device principally worrying about adjacent devices and forwarding traffic based on that knowledge. So when you need to make network changes, you can touch the network once instead of having to update each link in the chain.

LINC

LINC is a free, open source, software-based OpenFlow switch implemented in Erlang. We developed LINC by leveraging on our vast experience with enterprise customers.

- LINC is the first free switch to support all the latest OpenFlow protocols and ONF standards.
- LINC runs on commodity Unix hardware: from RaspberryPi, x86 to virtualised environments like Amazon S3. We currently have it running on the Raspberry Pi through to high-end networking cards such as Tiler or Intel SeaCliff architecture.
- LINC interworks with standards compliant Openflow controllers such as Open Daylight.
- LINC is free to download and use. It is available under the commercially-friendly Apache 2 licence, so it can be used in commercial products.
- Carrier-grade features are available from the Erlang/OTP platform and we provide commercial software support and development for LINC.

LOOM

LOOM is a free OpenFlow distributed controller framework that provides a framework for building large distributed Openflow networks.

- It addresses the scalability and robustness of such controllers on a scale much larger than typically considered: hundreds of thousands of endpoints; tens of thousands of switches.
- Its current functionality is best suited to provide automated control of an Openflow network. As an example, programmatic control allows to automatically deploy a network change, test whether the change was correct and roll-back or accept the planned change.
- LOOM employs a distributed architecture with a unique data management scheme to store switch configurations and the network topology to address the dual challenges of massive scale and enterprise-class robustness and reliability.
- As LOOM evolves it will increasingly provide a more GUI based network control environment.

OUR CLIENTS



ABOUT ERLANG SOLUTIONS

Founded in 1999 soon after Erlang was released as open source. We specialise in providing businesses with truly scalable solutions through the creation, integration, delivery and lifetime support of products and services based on the Erlang programming language. Our HQ are in London and our team has worked with over 300 clients from our offices in Stockholm, Krakow, Budapest, Berlin, San Francisco, Seattle and Buenos Aires.

OUR OFFERING

SERVICES End-To-En Solutions | Consulting | Support | Development | Mobile | Training

PRODUCTS MongooseIM | Riak KV | WombatOAM | Sardina | LSD | QuickCheck

MegaLOAD | Linc & Loom | Elvis | RabbitMQ

INDUSTRIES Online Gambling & Betting | Telecoms | Financial | Advertising & New Media | Gaming

EVENTS Erlang Factory | Erlang User Conference | Code Mesh | ElixirConf

COMMUNITY Development | Education | Support | Research | Recruitment



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