



# CONVERGENCE



Making the Internet Even Better

Step 1: Go to video distribution service

Getting Started with Handmade Large Scale Video Distribution Service 101

Video Distribution Service

Video Distribution Service

Hello Mr. Video Distribution Service. I would like to set up a large scale video distribution service.

Oh my, that might not be so easy. The current Internet is not made for this. So you will need a few things.

- deploy and orchestrate additional software.
- scalability issues... replicate video server.
- deploy caches... support content routing.
- you should study the book for DNS.
- read the manual for redirection.
- SyncML manual to sync video servers.
- SquidProxy manual for caching.

I have to read ALL of this??!

DRM Security Metadata MySQL

DNS SYNC ML Caching Routing

CONVERGENCE CONSULTING SERVICE

Out of nowhere a voice comes up, saying: "You don't have to worry little girl. I am sending you this flyer to help you"

Proxy Routing Cache DNS Fail Server Setup Scalability Error

Why, why, why? Why must it be so difficult?

What's that?

SERVER SETUP CACHE MYSQL METADATA ROUTING I ROUTING II DNS

**Convergence**

It's the solution to (almost) all your problems

- It uses a single self-protected container, named Versatile Digital Item (VDI), to transport and describe any content
- It is an open source technology, bringing together Information Centric Networking (ICN) and MPEG middleware
- Users can
  - publish, search and subscribe to any content
  - wrap content (e.g. video) and its description in a VDI, specify its name, set rights to it (e.g. who can see the video, where and for how much time), and publish it to the network
  - update or revoke (digital forgetting) content, even after it has been published, and monitor its use, and communicate with people using it
- Search engines can exploit VDI description and metadata for indexing
- The network knows the content name and makes sure you always access the copy closest to you, every node is a cache, handover is easy, multicast is natural, peer-to-peer is built-in, time/space-decoupling is possible
- Developers do not need to use proprietary/ad hoc solutions for common/supporting functionality as they can exploit CONVERGENCE's middleware and ICN
- Operators can use the network more efficiently, differentiate the quality of service as a function of content names, better control information transfer and related revenues flows, and simplify network design, operation and management by integrating in the network diverse functions, avoiding patches and stopgap solutions
- CONVERGENCE's modular architecture and interfaces allow for a smooth evolution from current networks, its design, together with recent initiatives such as Software Defined Networking and Network Functions Virtualisation, give hope that these ideas will not necessarily remain a dead letter just because "we cannot change the whole Internet"...

Hello Mr. Convergence. I would like to set up a large scale video distribution service.

Here you go, little girl!

Video Distribution in ICN

It works! It works!

It was so easy!

Play

The Website

The Consortium

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FSH fondation maison des sciences de l'homme

INESCTEC TECHNOLOGY & SCIENCE ASSOCIATE LABORATORY

ETIZEY ICGS

LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

SAFRAN Morpho

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www.ict-convergence.eu

Convergence made the little girl happy. Wanna know how it can make your life easier? Come to our booth and we'll show you.

