

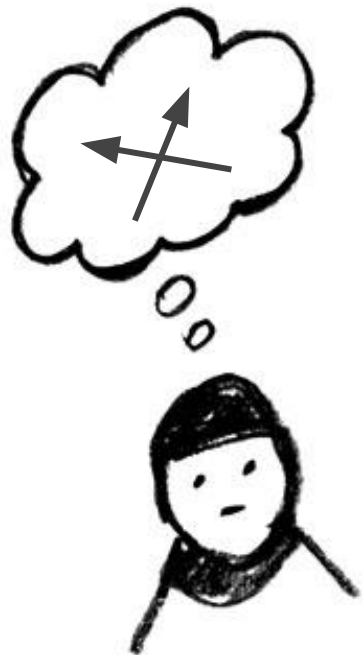
SWISS TXT CDN-Manager

MPC Tech Event



January 12th 2017

Nik Wolfgramm, SWISS TXT

What if we could combine multiple CDN providers dynamically?



CDN Characteristics

SWISS TXT CDN 	
<ul style="list-style-type: none">+ Simple and cost efficient+ Peering with the biggest ISP's in CH+ Next to the origin servers– Only present in Switzerland– Scaling limited to SRG/STXT Internet Gateway (2 x 31 Gbps)	<ul style="list-style-type: none">+ Marketleader+ Global presence+ Handles massiv loads– Hard to negotiate– Expensive



Dynect GLB

Dynect Traffic Manager - “RR-DNS on steroids”

- Adapt priorities of hosts via API
- Background health checks and failover

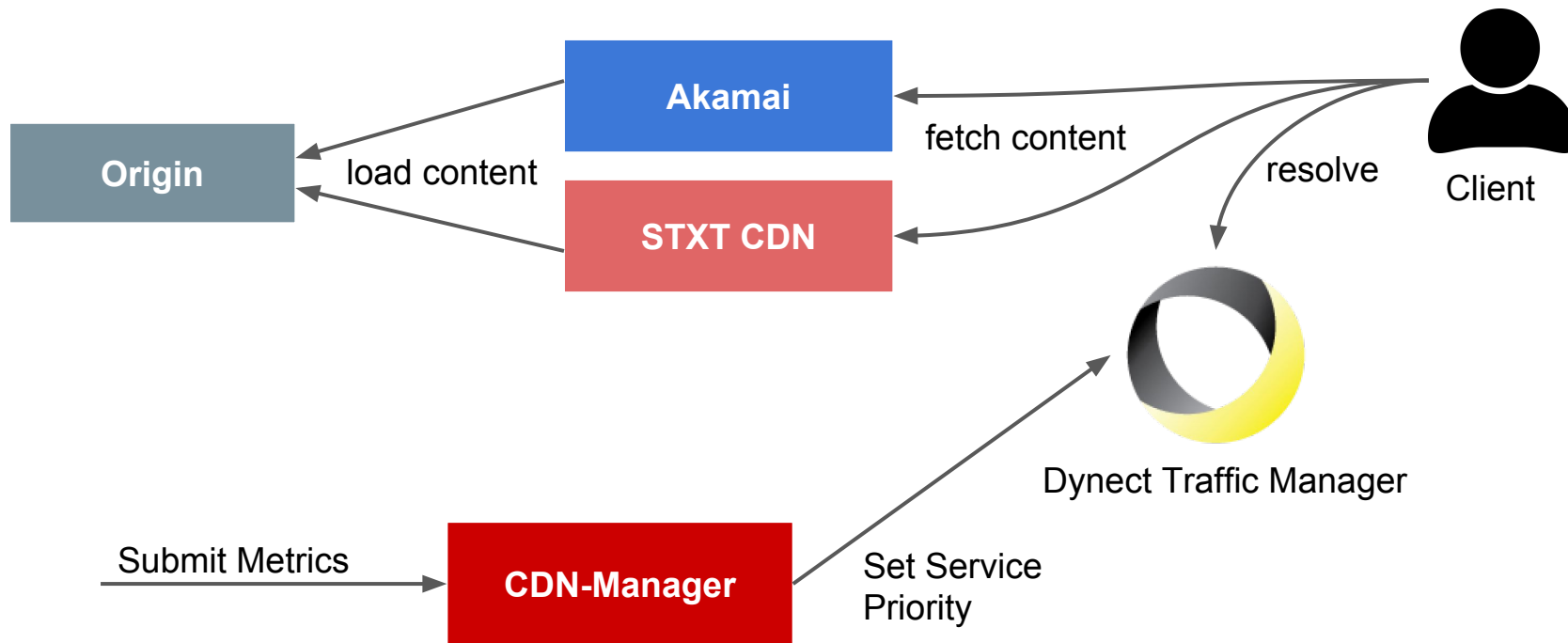
Dynect Traffic Director - “... more steroids”

- adds Geolocation based prioritization

CDN Load Balancing with CDN-Manager

- ✓ Distribute Traffic between multiple CDN providers
- ✓ Low costs for serving base load
- ✓ Handle massiv peaks
- ✓ Automatic Failover between CDN services
- ✓ Dynamically adapt priority according to:
 - SRG/STXT Internet Gateway usage
or any custom external metric
 - Country of client

CDN Manager - Workflow



CDN-Manager - Service Definition

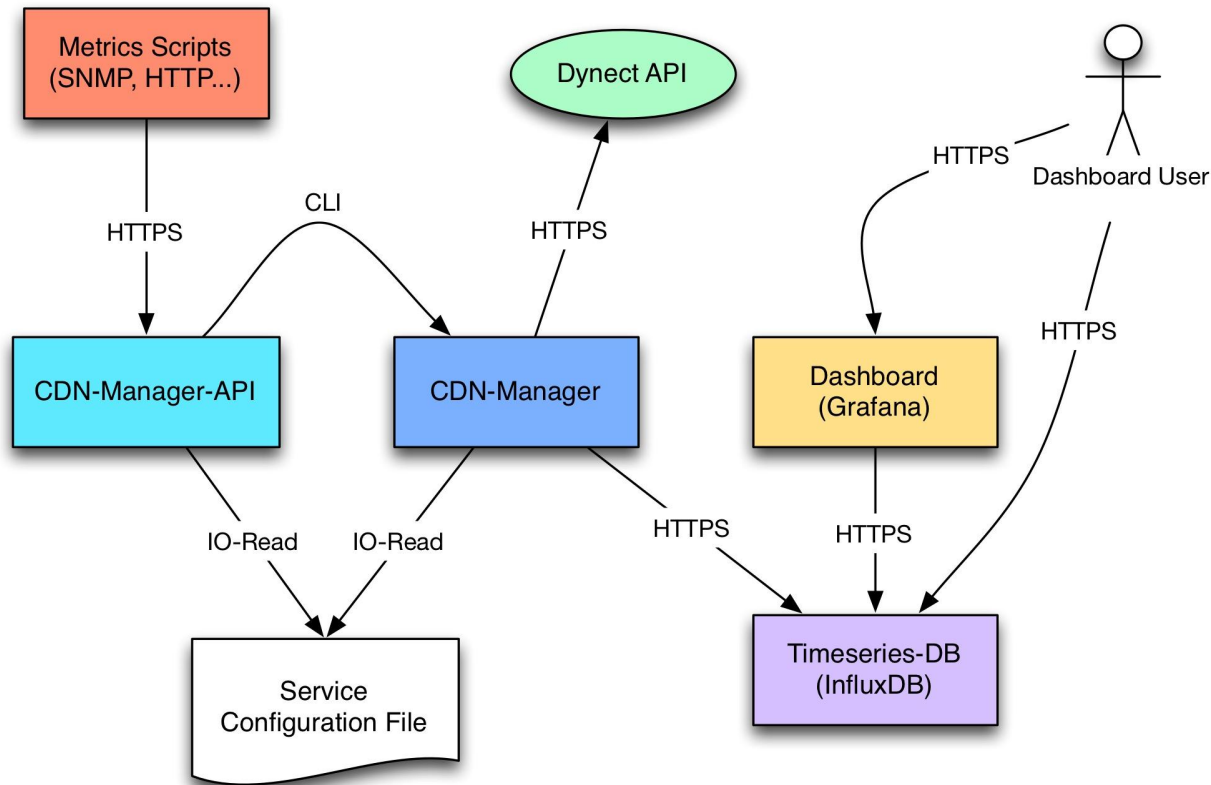
```
name: lsv
fqdn: lsvdyn.swisstxt.ch
zone: swisstxt.ch
dyn_customer: SWISSTXT
dyn_username: cdn-manager
dyn_password: <%= ENV['DYN_PASSWORD'] %>
```

hosts:

- label: Akamai
group: akamai
default_weight: 1
- label: SWISSTXT CDN
group: swisstxt
default_weight: 15

```
primary_host_group: swisstxt
max_load: 12000.0
load_unit: Mbps
```

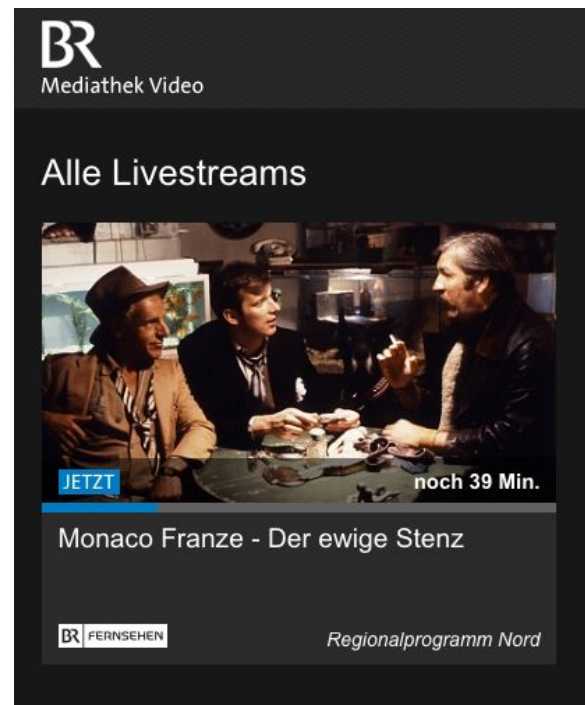
CDN-Manager - System Overview



Current Users



SRF Radio Studio Cam (LSV)



POC with Bayerischer Rundfunk

Demo



What's Next?

SHINE



*SHifting content delivery NEtworks towards
a flexible, open and interoperable solution*



Peak

Scale more things:

CloudStack Autoscaling