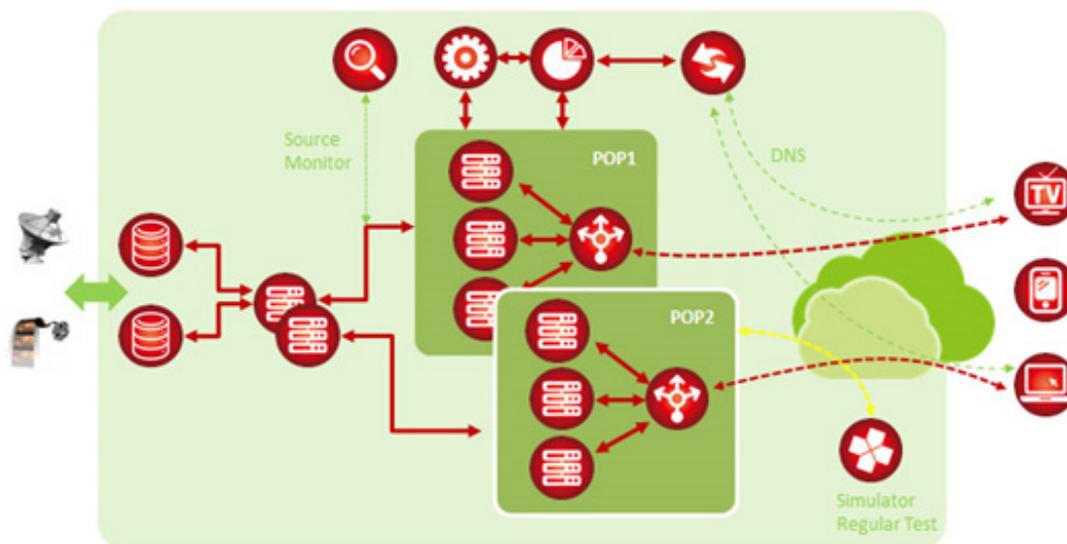# ConversionCDN

BROCHURE

Overview

ConversionCDN is a Content Delivery Solution built from the ground up for the Telco and Carrier market. It enables operators to build their own private Content Delivery Network (CDN). This allows them to develop their own content services or to resell this CDN service to their enterprise customers.

Against a backdrop of declining ARPU and massive CAPEX requirements for investment in next generation network infrastructure, many operators are increasingly focused on building new revenue streams. CDN is a natural path for an operator to extend their network capabilities and to allow them to monetize content.

CDN is the enabling service that allows operators to build out their own premium content services such as Internet TV. Where the operator already has an IPTV solution, it provides the ideal solution to enable the operator to reach a wider audience across any device.

Features of ConversionCDN

ConversionCDN is a fully featured CDN solution that supports all of the latest delivery formats, as well as providing security, management and reporting tools.

Hybrid Architecture

A unique feature of ConversionCDN is the combination of Public and Private infrastructure to provide an operator with the optimal solution. Operators can take full control of their CDN by deploying and managing their own ConversionCDN infrastructure.

However Conversion also supports full integration with the public Conversion CDN service. This enables operators to take advantage of the global capacity and reach of Conversion to deliver their content outside of their network. Alternatively if the operator is facing unexpected demand that exceeds the deployed ConversionCDN capacity they may take advantage of the Conversion delivery capacity to cope with peak traffic (served from off-net).

ConversionCDN Component

CS Manager
The Core the CS-CDN to provide management and multi-tenants

CS Balancer
To balancing the load of HyperEdge in Single POP

CS Director
Maps user requests to the best able CDN node

CS Origin
Packager and Stream server for multi-source

CS Analytics
Suite of analysis tools for traffic monitoring And Visualization

CS Monitoring
Service monitoring and error indicated

CS HyperEdge
Local Storage and delivery for diversity contents

CS Simulator
Client simulate for services testing

CS Manager

- Account Setting
- Customer Origin Setting (Source path)
- Purge function
- Token Authentication
- Cache Rule Setting (Cache duration)
- Country Filtering
- Provide dashboard or graph/chart for below information display
    - Total traffic volume and per server Traffic volume
    - Total throughput and per server throughput
    - Top URL by data volume
    - Top URL by visit count
    - User Agents statistic
    - OS Type statistic
    - Error Type Statistic(4xx, 5xx) per server
    - Cache hit/miss statistic per server
    - CPU/Disk/Memory monitoring per server

CS Director

- Support Http 307 redirect for content awareness services
- Support IP group redirect for traffic dispersion and geo load balancing
- Support to monitor each HyperEdge status(CPU, Memory, throughput) to avoid single point failure and overload

CS HyperEdge

- Support HLS, DASH, HDS and Microsoft Smooth Stream
- Support multi-layer architecture
- Support multi source Origin server
- Support connect with 3rd-party origin
- Support Token Authentication
- Support up to 5000 TCP Connection

- Support up to 8Gbps throughput

- Provide purge mechanism for difference group and content

- Support WAF which include SQL Injection, Black/Whitelist, Bad User-Agent, Cross site Scripting, Insecure Direct Object References, Failure to Restrict URL Access, Server Side Request Forgery, Upload Inspection, Referer Control

CS Analytics

- Total traffic volume and per server Traffic volume

- Total throughput and per server throughput

- Top URL by data volume

- Top URL by visit count

- User Agents statistic

- OS Type statistic

- Error Type Statistic(4xx, 5xx) per server

- Cache hit/miss statistic per server

- CPU/Disk/Memory monitoring per server

- Log receive and analytics

  1. Search per Key Word, http status, IP and time range
  2. Support export log data per time range

- Powerful customize report capability

  1. Member id
  2. Member apply record id
  3. Content id
  4. Start date time
  5. End date time
  6. Duration
  7. Data volume
  8. OS
  9. User Agent
  10. Client IP Address
  11. Content vod id
  12. Type
  13. Server IP Address

CS Monitor probe

- Support HLS, DASH, HDS and Microsoft Smooth Stream

- Support 7x24 real-time passive monitoring

- Support up to 10G monitoring capability

- Provide dashboard or graph/chart for below real-time information display
  - Throughput(Max/Avg/Min)
  - HTTP Request Number
  - HTTP Error Response Number
  - Stream Type Number
  - OS Type Number
  - User Agents Type Number

- Provide throughput report with error indicated per time line

- Provide response time analysis per URL

- Provide services availability KPI report

- Provide Stream type, OS, User Agent type statistic report per time line

- Provide worst services analysis report

CS Client Simulator

- Support HLS, DASH client Simulate

- Up to 200 client Simulate Simultaneously with all profile(Multi-bitrate)

- Provide Stream Type, Chunk Duration, Profile Bitrate, Download Time, Download size ,Manifest view and test result for each test stream