Solbox

COMPANY PROFILE

CONTACT

Online

info@solbox.com
biz@solbox.com

http://www.solbox.com
http://cloud.solbox.com

Phone & Fax

Tel +82-2-2182-3600
Fax +82-2-2058-2651

Address

10th floor, 124 Teheran-ro, Gangnam-gu, Seoul
(Yeoksam-dong, Samwon Tower)

Table of Contents

01

About Us

Solbox provides CDN, multi-cloud services, and media solutions for serving different types of service content quickly and with high quality to online users in various environments.
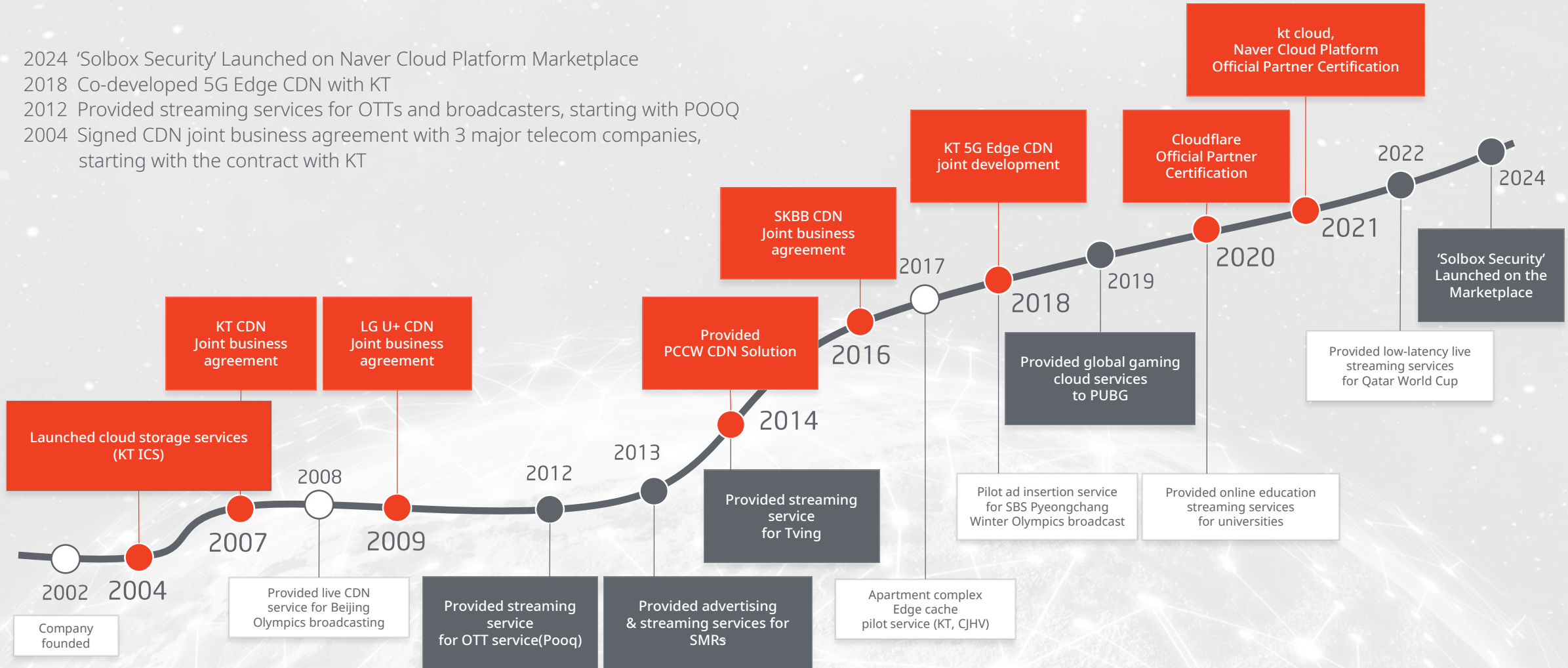
Company Overview

The choice for South Korea's top 3 telco companies!
Most of South Korea's OTT services run on the Solbox CDN platform.

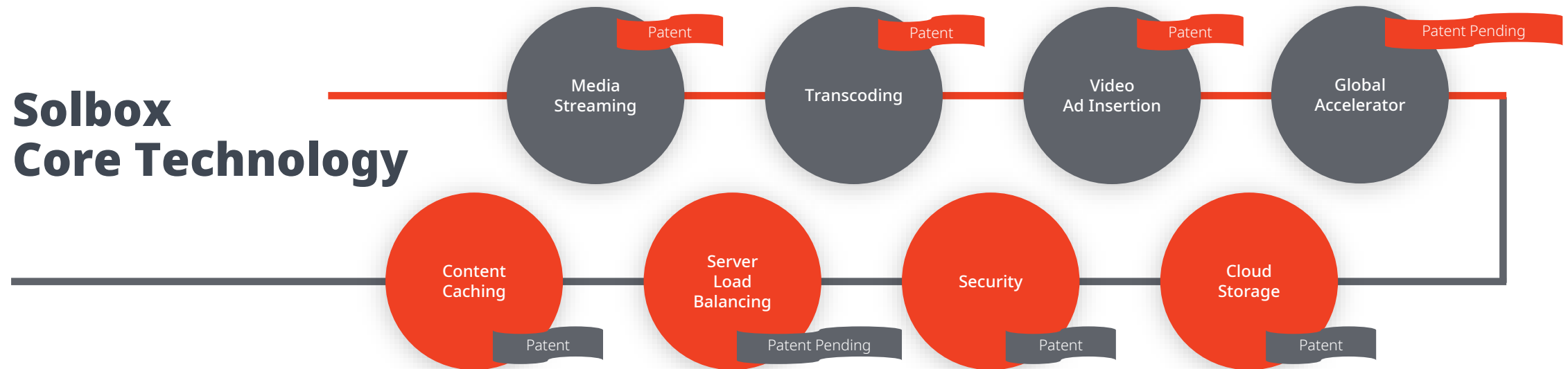|	
Company Name	Solbox Inc.
CEO	Park Taeha
Established:	October 16, 2002
Head Office	10th floor, 124 Teheran-ro, Gangnam-gu, Seoul (Yeoksam-dong, Samwon Tower)
Number of employees	70(30 developers, 43% of employees)
Business Areas	Providing CDN platform solutions for telco operators and broadcasting companies
Domestic Partner	KT, LG U+, SKBB
Overseas Partner	PCCW Global, SUHO Japan
Cloud Partner	kt cloud, Naver Cloud Platform, Cloudflare
Major Awards	Red Herring Global Top 100 company & Prime Minister's Award at the 20th Small and Medium Business Technology Innovation Challenge

Solbox

History

Our next-generation media CDN and cloud solution is ready for the future.

2024 'Solbox Security' Launched on Naver Cloud Platform Marketplace
2018 Co-developed 5G Edge CDN with KT
2012 Provided streaming services for OTTs and broadcasters, starting with POOQ
2004 Signed CDN joint business agreement with 3 major telecom companies,
      starting with the contract with KT

kt cloud,
Naver Cloud Platform
Official Partner Certification

KT 5G Edge CDN
joint development

Cloudflare
Official Partner
Certification

SKBB CDN
Joint business
agreement

KT CDN
Joint business
agreement

LG U+ CDN
Joint business
agreement

Provided
PCCW CDN Solution

Launched cloud storage services
(KT ICS)

'Solbox Security'
Launched on the
Marketplace

Provided global gaming
cloud services
to PUBG

Provided streaming
service
for Tving

Provided low-latency live
streaming services
for Qatar World Cup

Pilot ad insertion service
for SBS Pyeongchang
Winter Olympics broadcast

Provided online education
streaming services
for universities

2002 2004 2007 2008 2009 2012 2013 2014 2016 2017 2018 2019 2020 2021 2022 2024

Company
founded

Provided live CDN
service for Beijing
Olympics broadcasting

Provided streaming
service
for OTT service(Pooq)

Provided advertising
& streaming services for
SMRs

Apartment complex
Edge cache
pilot service (KT, CJHV)

Patents and Awards

Solbox has been recognized for its technology not only domestically but also abroad through a number of patents and awards.

Solbox Core Technology

| Media Streaming — Patent | Transcoding — Patent | Video Ad Insertion — Patent | Global Accelerator — Patent Pending |

| Content Caching — Patent | Server Load Balancing — Patent Pending | Security — Patent | Cloud Storage — Patent |

Patent registration and patent pending(26 patent registrations, 4 patent pending)

Oct. 2024	Global Media Acceleration Transmission System & Method
Dec. 2022	Content Routing System & Method
Dec. 2021	Global Media Acceleration Delivery System & Method
Nov. 2020	Node Labeling & Devices
Dec. 2019	Method & Device for Server-based Advertising

16 Award Winning

Dec. 2023	Winning the prize at the '2023 Korea ICT Award in the Digital Talented Workforce' by Ministry of Science and ICT
June 2021	Selected as a 'Management Innovative Small and Medium Enterprise (MAIN-BIZ)' by the Ministry of SMEs and Startups
Aug. 2019	ITS 2019 20th SME Technology Innovation Competition Prime Minister's Award
Nov. 2018	Winning the silver prize at the '2018 ICT Patent Management Awards'
Jan. 2011	Red Herring Global Top 100 company

Key Customers

Solbox engages with major domestic and international telcos, OTT operators, broadcasting companies, online game companies, internet enterprises, E-learning business, public institutions, etc.

Domestic and Overseas Telco Operators
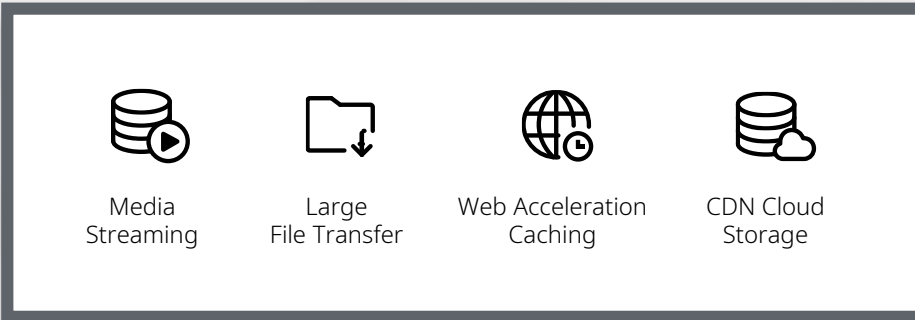

Cloud Operators

Solution Overview

Solbox provides innovative solutions and reliable service platforms for successful online business for telco operators and internet companies around the world.

Our Solutions

Solbox solutions help customers grow their businesses and improve service quality for online users based on stable infrastructure even in complex Internet service environments.
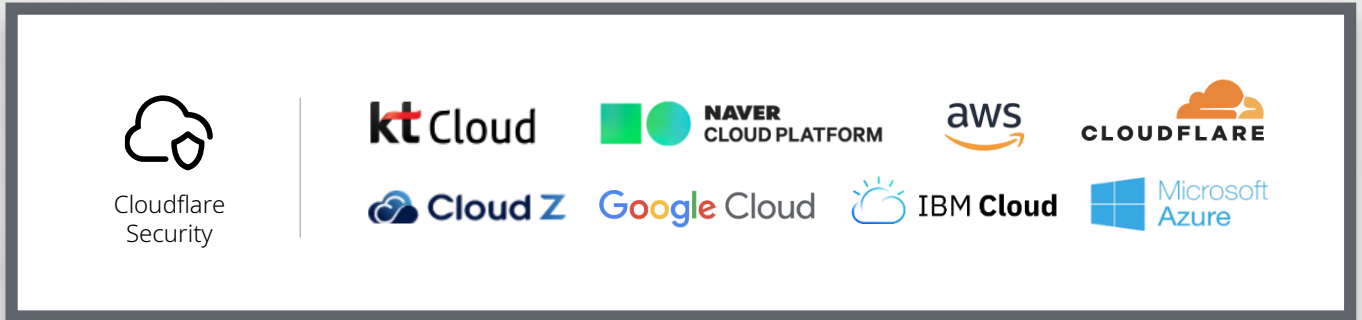
CDN Solutions

- Media Streaming
- Large File Transfer
- Web Acceleration Caching
- CDN Cloud Storage

Cloudflare Security & Managed Multi-Cloud

- Cloudflare Security

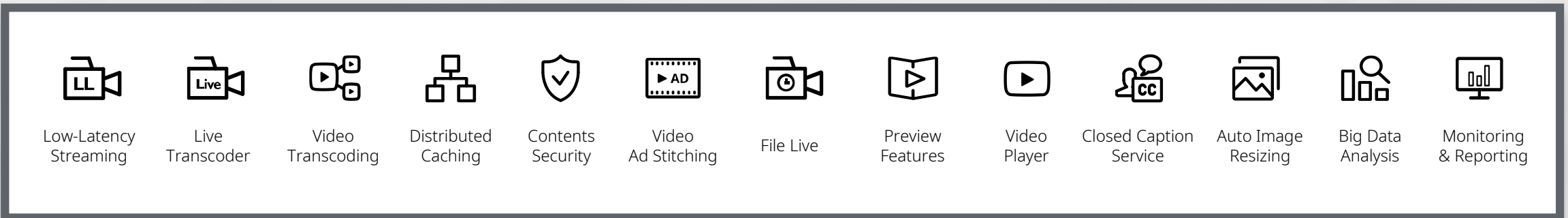kt Cloud | NAVER CLOUD PLATFORM | aws | CLOUDFLARE

Cloud Z | Google Cloud | IBM Cloud | Microsoft Azure

CDN Value Added Services

- Low-Latency Streaming
- Live Transcoder
- Video Transcoding
- Distributed Caching
- Contents Security
- Video Ad Stitching
- File Live
- Preview Features
- Video Player
- Closed Caption Service
- Auto Image Resizing
- Big Data Analysis
- Monitoring & Reporting

Strengths of Solbox Solutions

Solbox **has over 20 years of CDN experience and a customized operating environment for individual business.** We help our clients manage and deliver their content to online users through convenient, fast, and reliable solutions.

Reliable CDN technology

- High-performance through distributed caching solutions
- High capacity & uninterrupted service through server load balancing
- Fast and reliable content delivery through the optimal routing
- Integration with global multi-cloud services

Custom media & value-added services

- Supports HTTP-based low-latency streaming protocols
- Supports real-time ad signal tagging service and subtitling
- Session-based HLS encryption (AES-128)
- OTU(One-Time URL) Authentication System
- Distributed caching

A wide range of domestic and global
Operation know-how

- Operated and managed CDN services for top 3 domestic telecom operators
- and over 1,000 customers for 15 years
- Customized services for a wide range of clients
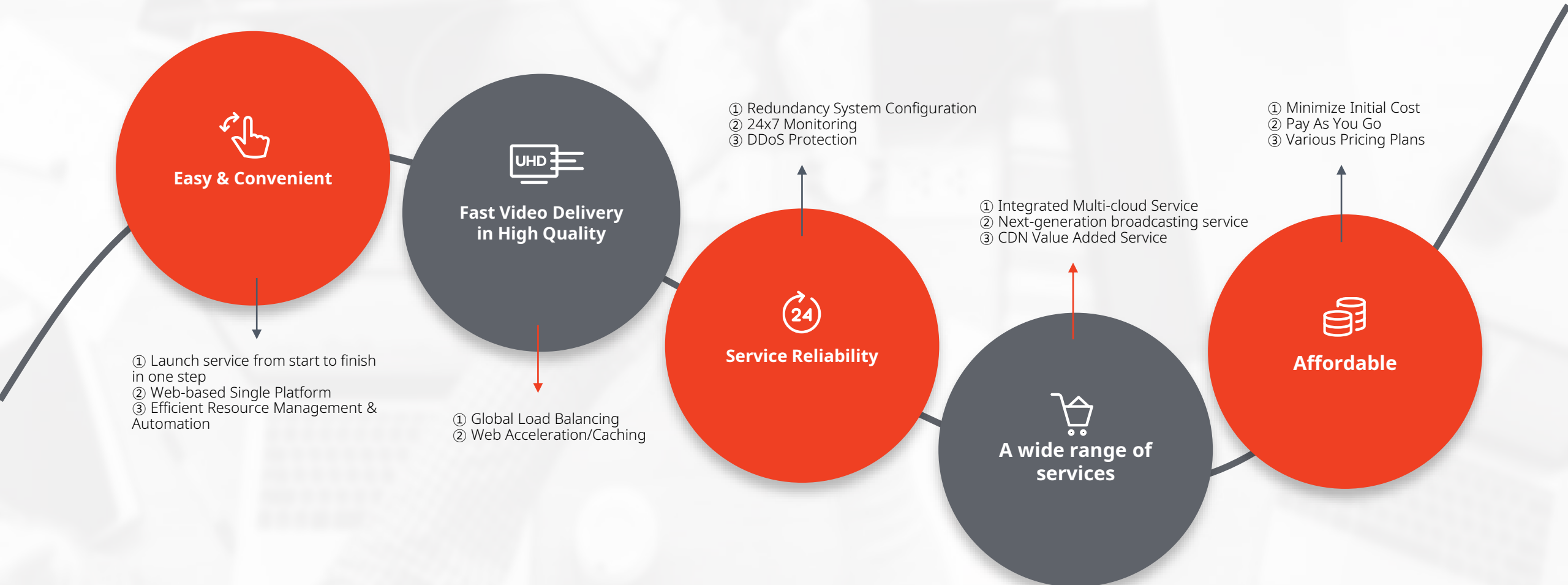
Integrated Platform & Automation

- Web-based Integrated Platform
- Automatic deployment, configuration update, and management for large-scale resources
- Service operation with minimal manpower

Intelligent Monitoring and Reporting

- Real-time service monitoring
- Detailed statistical data and data analysis
- Big data collection and analysis

Solution Benefits

Solbox delivers a high-performance user experience
to efficiently manage and deliver digital content anytime, anywhere.

Easy & Convenient

**Fast Video Delivery
in High Quality**

① Redundancy System Configuration
② 24x7 Monitoring
③ DDoS Protection

① Minimize Initial Cost
② Pay As You Go
③ Various Pricing Plans

① Integrated Multi-cloud Service
② Next-generation broadcasting service
③ CDN Value Added Service

Service Reliability

Affordable

① Launch service from start to finish
in one step
② Web-based Single Platform
③ Efficient Resource Management &
Automation

① Global Load Balancing
② Web Acceleration/Caching

**A wide range of
services**

03

Introduction to Major Service

Solbox offers managed CDN technology for telco operators
so that they can provide CDN services to their own customers.
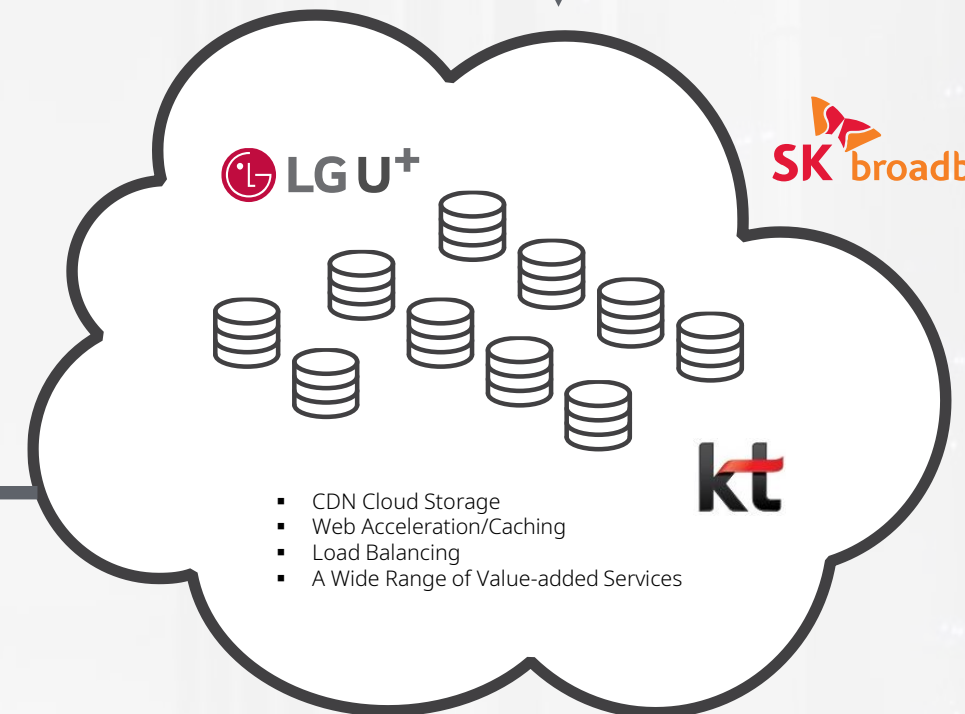
Solbox CDN

The key to the good CDN solution is **speed, reliability, scalability and convenience.** It also can deal with traffic load, bottlenecks, data loss, and ensures fast and reliable data transmission when delivering video, audio, and web content to online users across a variety of business verticals.

Customer Content

Benefits of Solbox CDN

① Provide large-scale downloads with unlimited storage and flexible scalability
② Deliver high-quality content in different formats to various types of devices
③ Faster response through multi-core, ultra-performance caching capabilities
④ Provide reliable service even under heavy traffic

LG U+

SK broadband

kt

- CDN Cloud Storage
- Web Acceleration/Caching
- Load Balancing
- A Wide Range of Value-added Services

Media Streaming
Large File Transfer

Content Viewer

Telco CDN platform

CDN Core Services

Our CDN technology has been accumulated over 20 years and ensures fast speed, stability, and high-performance service.

01 Media Streaming – Guarantees stable streaming in any environments

| OTT | E-learning | Broadcasting Company | Sports | Entertainment |

Solbox Media Streaming provides high-quality video image and high-quality streaming services for live/VOD content in various formats to all types of user devices.

Key Features
- Deliver reliable streaming anytime, anywhere, on any device
- Content security with robust encryption algorithm
- Uninterrupted playback over any network
- Reliable live streaming services

02 Large File Transfer – Reliably deliver large files without overloading client's system

| E-learning | Entertainment | Online Game | IT | Finance |

The large file transfer service quickly and reliably delivers content to online users, regardless of file size, even during peak internet traffic.

Key Features
- Supports reliable and diverse upload/download methods
- Supports streaming contents in various formats
- Access Control & OTU(One-Time URL) Authentication
- Per-session/per-service traffic control
- Statistics and Management

03 Web Acceleration/Caching – Supports websites with lots of image loading

Shopping Mall   Webcomic   Portal   Public Institutions

Our web acceleration/caching solutions dramatically improved the response time of the website without slowing down the web service providing the multi-core-based ultra-high performance caching features. This can lead to a competitive edge for your customers.

Key Features

- High-Performance Distributed Caching
- Media Caching
- Multi-file system optimized for web caching
- Multiple origin server and fail-over support

- Pre-loading for popular content
- Offline Mode
- No service interruption in case of changing caching configuration

04 CDN Cloud Storage - Ideal for websites with large-scale content uploads/downloads
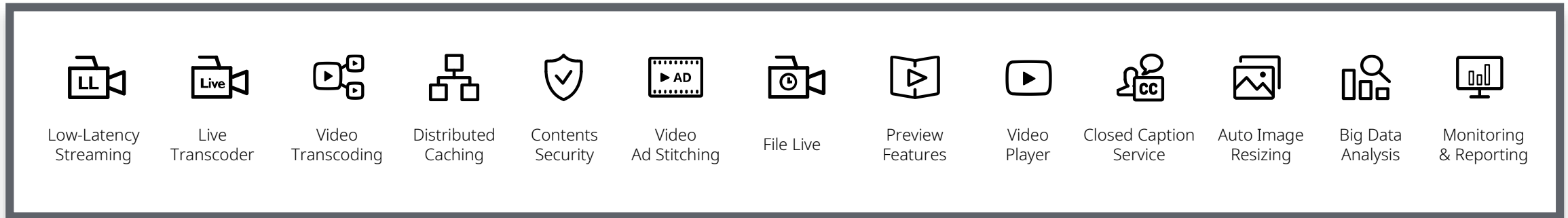
IT   Press   Portal

Solbox CDN Cloud Storage is a large file system that applies virtualization technology to multiple physically separate storages so that they can be used as a single storage.
It provides unlimited storage space and can be used with CDN services to provide the storage required for services, significantly reducing investment costs.
In addition, the physical storage can be expanded in real time without service interruption, and Its reliability and performance have been proven by delivering 20 petabytes of storage to domestic telecommunication service operators.

Key Features

- Unlimited Content Storage
- Real-time Storage Allocation
- Virtualizing Physical Storage
- Replicating and distributing content

- Automatic Failure Detection and Reporting
- Intelligent load balancing with storage health analytics
- Prevent content leakage by security authentication
- Fast response performance through system optimization

15

CDN Value Added Services

In addition to the core services of a CDN, we offer value-added services with a wide range of features.

| Low-Latency Streaming | Live Transcoder | Video Transcoding | Distributed Caching | Contents Security | Video Ad Stitching | File Live | Preview Features | Video Player | Closed Caption Service | Auto Image Resizing | Big Data Analysis | Monitoring & Reporting |

CDN Value Added Services - Service Category & Key Features

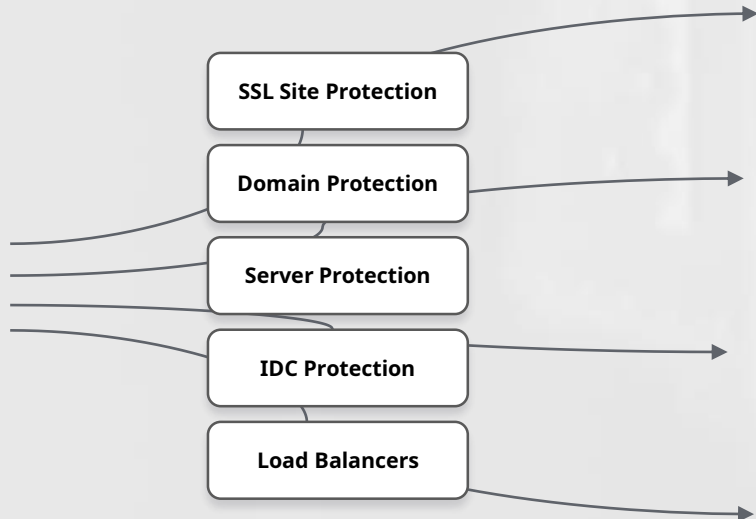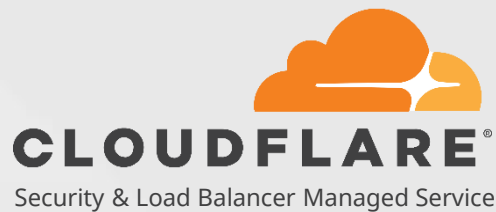| Service	Key Features	Expectations
Low-latency Streaming	Supports HTTP-based low-latency streaming protocol - Supports DASH-CMAF - Low-latency HLS(LL-HLS)	- Sub-second latency
Live Transcoder	Provides a dedicated transcoder for live streaming services - Adaptive (Multi track) Transcoding - Adaptive (Multi track) Streaming - HLS, DASH, RTMP Streaming - Contents Recording	- Optimized for live streaming
Video Transcoding	Convert, optimize, and deliver a variety of media content to online users. - Convert properties of original media content - Extract thumbnail and meta data - Monitoring and User Management - Provided API - Multi-bitrate transcoding for adaptive Streaming	- Ensure optimal video quality for user environment - Converting video content conveniently and quickly - Online shopping malls, portals, E-learning, and entertainment business

16

Service	Key Features	Expectations
Distributed Caching	Caching different content by different server	- Maximize Server Efficiency - Reduce Costs - Increase Cache Hits
Content Security	Protect the copyright of your content by preventing content tampering and duplication, as well as preventing fraudulent use of livestreaming or VOD media. - Session-based content encryption (AES-128) - JWT-based OTU(One-Time URL) Authentication System - Multi-DRM integration with Widevine, PlayReady, FairPlay, and more	- Ensure content security and safety - Get more viewers - No need for video playback plugins
Video Ad Stitching	Combine video contents and ads into a single video segment to provide high quality video experience to online viewer without any interruption (buffering time) between streaming video contents and embedded video ads. - Combining VOD and ad content - Combine live stream ads - Provides custom ads for individual client - Integrated with VAST(Video Ad Serving Template)	- Generate more revenue from ads - Prevent ads from being blocked by adblockers
File Live	This service allows broadcast scheduling by date/time for VOD content. - Channel programming and live broadcasting for VOD service - Insert advertising signals(e.g. SCTE-35, HLS CUE tag) at specific time periods by time scheduling - Provides closed captioning (EIA-708, WEBVTT)	- Quick and easy on-air programming - Maximize content management efficiency - Significant savings in workforce and time
Video Player	Provide an HTML5-based player for media content playback. - Supports different web browsers	- Reach a wider audience - Provide optimal image quality for user experience
Closed Captioning Services	Provide WebVTT(Web Video Text Tracks Format)-based subtitling	

Service	Key Features	Expectations
Preview feature	Supports preview (Pre-listening) function. - Partially cut media content and stream it	- Preview content for customers using the service for free
Automatic Image Resizing	Automatically convert original images to various formats in real time - Convert Images - Insert Watermarks - Format Conversion - Animated GIFs	- Optimize images for user environment - Make image conversion simple & fast
Big Data Analysis	Collect, analyze, and deliver hundreds of billions of requests from the edge. - Log Search - Provide and analyze service-related statistical data	- Troubleshoot Efficiently - Accurate Root Cause Analysis - Excellent Data Insight Sharing
Monitoring & Reporting	Real-time, detailed monitoring thousands of servers to ensure reliable service for 24x7. - Collect real-time traffic information 24x7 - Provide & Analyze Detailed Statistical Data - System Failure Detection & Alert Notifications - Intuitive Monitoring System	- Fast Response to Failure - Reliable Service Operation

Cloudflare Security & Managed Multi-Cloud

As an official Cloudflare partner and authorized distributor of global cloud services in South Korea and abroad, **Solbox provides Cloudflare security, load balancer-based multi-cloud managed services.**

① Professional DDoS defense service provided by a group of Cloudflare certified engineers

② Providing various cloud services through domestic and international partnerships

③ Service consulting to optimize for customer's environment and requirements

④ Operation of a 24x7 control and DDoS protection security center

04

Case Study

The best content providers rely on Solbox CDN.

OTT Operators

Providing high-quality OTT services **with the best video quality and uninterrupted online connection**

TVING – No. 1 in South Korea's OTT, CJ ENM's Official Digital Platform

CJ ENM's official digital platform TVING is an online service to provide live television & VOD contents from popular cable channels such as tvN, Mnet, and Tooniverse. It also allows online viewers to find broadcast program information at a glance.

OVERVIEW	Tving, the first N-screen OTT service in South Korea, is an online entertainment service that allows viewers to watch live and VOD content from synthetic broadcasting & cable channels on different user devices(e.g. PCs, smartphones, and tablet PCs). As the market competition from domestic OTT services ('Wave', 'Watcha', 'Season') and global OTT services ('Netflix', 'Apple TV+', 'Disney+') is increasing, it became essential to provide a stable CDN service that is perfectly suited to the user's device and communication environment. In particular, this service have become more important for the company to differentiate itself with high-speed, high-quality image, and high-quality media services to reach a larger number of audiences in South Korea.
APPLICATION	• Cloud Storage • Media Streaming • VOD Streaming • Image Caching • Image Resizing • Authentication tokens to stop unauthorized access
RESULTS	• Uninterrupted service for unexpected traffic spikes • Guaranteed uninterrupted high-quality live and VOD streaming services • Deliver high-quality services to a wide range of user devices

LL(Low Latency)-HLS Service

10-second faster, low-latency live streaming for SBS World Cup coverage

SBS i - Live Broadcasting for Qatar World Cup 2022 with Low-latency Streaming Technology

SBSi is a content distributor that manages the content distribution business of SBS Media Group.

OVERVIEW	SBS i, South Korea's leading broadcast content distributor, has teamed up with SBS to introduce low-latency streaming technology to deliver the 2022 FIFA Qatar World Cup matches to online viewers faster with an immersive experience through the official SBS mobile app.
APPLICATION	• Cloud Storage-based CDN Platform • Media Streaming • VOD Streaming • Image Caching • Video Ad Insertion • Distributed Upload of Contents • Archiving Live Stream
RESULTS	During 2022 FIFA World Cup in Qatar, SBS adopted Solbox CDN solution and became the first broadcaster to broadcast live World Cup matches using LL-HLS (Low Latency-HLS) low-latency streaming technology. With low-latency streaming technology, they significantly reduced the broadcasting relay rate by over 10 seconds compared to before and delivered it in real time with minimal delay to bring the lively action contents to viewers.

FAST(Free Ad-Supported Streaming TV) Service

Deliver ad-supported free streaming services to smart TVs (devices) **in high quality**

Pluto TV & CJ ENM – Provides ad-based global internet TV services.

Pluto TV is a subsidiary of (Viacom) CBS and provides ad-based free OTT services through various smart TVs.

OVERVIEW	Pluto TV, a subsidiary of (Viacom) CBS, which owns channel brands such as CBS, Showtime, and Paramount Pictures, and has the largest paid subscribers in the US, provides a free, ad-supported Internet TV streaming service. To expand content coverage, Pluto TV partnered with CJ ENM to launch new Korean content channels, which required an OTT video streaming platform to organize CJ ENM content channels within Pluto TV and stream large-scale broadcast content to smart TVs.
APPLICATION	• Cloud Storage-based Streaming Platform • Virtual linear Channel Programming • Live OTT Streaming • Video Ad Insertion • Subtitling Service
RESULTS	With Solbox's cloud storage-based OTT streaming solution, Pluto TV and CJ ENM provided streaming channel programming, ad insertion services, and subtitle services for storing and streaming large-scale virtual linear channel content. It allows these service to reliably provide ad-based free OTT streaming services with subtitles to users through smart TVs connected to the Internet.

OTT Video Ads

Generating over 100 billion won(KRW) in annual online video ad revenue and achieving the most outreach

	Number of Broadcasting Company		Number of Channels		Number of Programs		Average Monthly Clips
	10		**68**		**3,000+**		**30,000+**

SMR – Combining Content & Digital Ads

SMR, a joint venture between MBC and SBS in 2014, is an online advertising business based on content provided by 10 broadcasting companies including terrestrial broadcasters, CJ E&M, and synthetic broadcasting operators.

OVERVIEW	SMR(Smart Media Rep) provides a digital advertising platform that connects broadcasters and advertisers as the online ad revenue business increases as the number of video viewers through online and mobile continues to grow. For its business, SMR was in great need of building a large-scale video advertising platform that could embed advertisers' video ads into broadcasting company's clips, ensuring maximum ad revenue for broadcasters and maximum Ad publicity for advertisers.
APPLICATION	• Video Ad Insertion • Media Streaming • Cloud Storage • Authentication Tokens to Block Unauthorized Access
RESULTS	Generate ad revenue and new business through ad-based clip videos Through Solbox's video ad insertion platform, SMR provides broadcasting company's AVOD(Advertising-based Video On Demand) to portal sites such as Naver, Kakao, and GOM TV to generate advertising revenue and find new business chances. Monthly Views: 300 million views / Monthly Transmission Volume: Over 8 petabytes / Annual Ad Revenue: Over 100 billion won

Online Game

Keeping gaming service up and running, **even with high volume of concurrency**

Nexon – A place where game players come together to have greater fun

Founded in 1994, Nexon is a global gaming company that has led the South Korea's online game industry with its solid development level and creativity that always pursues to be 'the first'.

OVERVIEW	Nexon, the world's first online game service, was faced with the challenge of delivering large, real-time game patch files to users quickly and reliably for many popular online games such as Maple Story, Sudden Attack, FIFA Online, and Dungeon & Fighter. They were looking for a solution that would effectively address the problem of rapidly slowing down download speeds when a large number of users were online at the same time.
APPLICATION	• Telco CDN platform • Image Caching • VOD Data Transfer • Game File Transfer • Multi-CDN Integration
RESULTS	Handles up to 500 Gbps of service traffic per day Nexon, Korea's No. 1 online game development and service provider, stably supported and operated user services through the Solbox CDN platform based on telecommunication infrastructure.

Broadcasting Company

Delivering high-quality, **a variety of media contents to all online audiences**

SBS i – Online platform to access a wide range of content beyond TV broadcasting

SBSi is a content distributor that manages the content distribution business of SBS Media Group.

OVERVIEW	As South Korea's leading broadcast content distributor, SBS i provides a reliable service that seamlessly delivers live broadcast and VOD content, including news, dramas, sports, and entertainment, to an ever-increasing number of online audience, which is key to its business success. They needed a large-scale infrastructure that could quickly distribute large volumes of traffic to avoid bottlenecks and improve network efficiency when popular media content attracted large numbers of online viewers at certain times of day.
APPLICATION	• Cloud Storage-based CDN Platform • Media Streaming • VOD Streaming • Image Caching • Video Ad Insertion • Distributed Upload of Contents • Archiving Live Stream
RESULTS	To solve the capacity limitations of the existing physical storage environment, SBSi used Solbox's cloud storage-based CDN solution to provide online users with large volume of media services without the storage capacity and performance limitation. Also, it guarantees stable, uninterrupted services even during traffic spikes.

Entertainment

Providing a complete service package of audio content platform, **including MP3 downloads, live audio streaming, AOD services, and ad insertion.**

Podbbang Inc. – South Korea's largest podcast streaming company

Podbbang Inc. operates 'Podbbang' service, an audio content platform that provides the largest audio download and streaming service in South Korea. It provides audio contents in different categories through streaming or downloading services to PC, iOS or Android mobile app users.

OVERVIEW	Podbbang Inc. started as the first podcast portal service in South Korea, had more than 10,000 streaming services and 200 new audio service per month. They were in great need of a media platform that could provide real-time listening and AOD services to a large number of listeners for its rapidly growing audio content. They were also looking for monetization opportunities to maximize advertising revenue from their ever-growing audience.
APPLICATION	• Live Audio Streaming • Upload/Download Audio Contents • Media Caching • Audio Ad Insertion
RESULTS	For seamless audio streaming services to a large number of domestic listeners, Podbbang adopted Solbox's cache service and ad bundling solution, which supports seamless streaming or AOD services when popular audio content attracts a large number of listeners in real-time or non-real-time, and maximize ad revenue by inserting audio ads on popular broadcasts.

E-learning

Building a complete service platform for online education content delivery

	Number of Affiliated Publishers	Number of Contents	Number of Subscribers
	150+	10,000+	400,000+

Woongjin Book Club – The largest digital library in the world

Woongjin Book Club is a personalized reading and learning service that provides a variety of interesting contents based on the child's growth stage, age and reading habits.

웅진북클럽

OVERVIEW	Woongjin Book Club, which provides educational content for infants, toddlers, and elementary school students, needed to build a service with large storage capacity and fast transmission speed to provide uninterrupted service in a heavy traffic environment where customer and online users frequently upload and download various types of media content such as e-books, audio books, video content, and animations during certain hours.
APPLICATION	• Telco CDN platform • Cloud Storage • Media Streaming • Image Caching • Upload/Download
RESULTS	Woongjin Book Club, a leading provider of digital educational content for toddlers and elementary school students, was able to quickly and efficiently deliver age-appropriate reading content to its online users through SKBB(Solbox CDN platform's telco operator) service. to deliver age-appropriate reading content to online users quickly and reliably. Maximum monthly transfer volume: 205 TB+ / Peak traffic per day: 35 Gbps / Highest number of concurrent users per day: 10,000+

Online Shopping Mall

Web acceleration and caching services **to speed up page loading time and manage network traffic**

NS Home Shopping – Pursuing customer satisfaction in easy and convenient way of shopping opportunity

NS Home Shopping, founded in 2001, is the world's first grocery shopping mall company that provides information on its products through V-commerce videos on shopping mall sites and TV broadcasts.
They are operating as a retail commerce channel where viewers actually purchase items through Facebook Shop and Instagram Buy.

OVERVIEW	NS Home Shopping, one of largest home shopping sites in South Korea, has a large number of small-sized images, such as product images, that account for the majority of the site's content. This made it difficult to ensure fast page response time when many online shoppers were accessing popular products. NS Home Shopping needed to find a way to speed up the loading time of its site, as it was directly related to their sale revenue.
APPLICATION	Web Acceleration Caching Image & Video Contents Operating and Managing Cache Servers
RESULTS	By applying optimized cache settings for numerous product image files, they improved a single page response time to an average of 0.04 seconds. Even when traffic peaks during sales promotion period, caching images and VOD videos greatly reduced the load on the original server, ensuring a constant and stable service speed. In addition, even when deleting or changing previous product images, caching optimization through purge processing allows efficient site operation.

Food Delivery Service Platform

Building an All-Cloud Deliver Service Platform **with Cloudflare and Multi-Cloud**

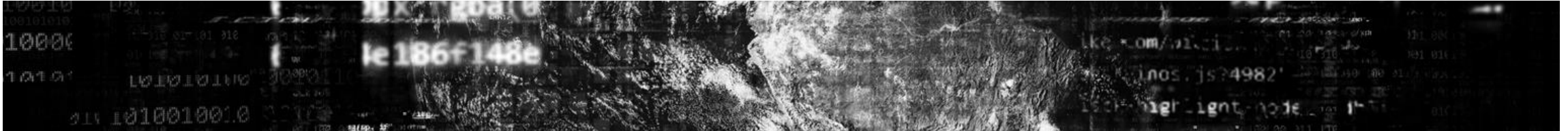## Connect 9 Inc. Yum Yum Box, the future of delivery platforms

Yum Yum Box is an innovative food delivery platform launched in December 2020, with an average of 30,000 calls per day and over 1 million calls cumulatively and is expanding its platform and network.

OVERVIEW	Yum Yum Box, a fast-growing new food delivery platform in South Korea where delivery culture has become a way of life, needed to deliver call information as quickly as delivery and provide uninterrupted service. They also needed an all-cloud integrated solution for building infrastructure and managing service without adding physical equipment solution for efficient platform expansion.
APPLICATION	All-Cloud Integrated Solution Multi Cloud • Naver Cloud Platform / AWS / Cloudflare Cloudflare Enterprise Plan • DNS / Load Balancing • DDoS Protection / WAF & Rate Limiting • Analytics & Logs
RESULTS	Based on the Solbox solution, Yum Yum Box has successfully built an all-cloud integrated solution and is now operating and expanding their business on the efficient platform. With the Cloudflare Enterprise plan, the Yum Yum Box were able to offer services without worrying about DDoS and name server attacks, manage traffic by load balancing the core MAP API, and operate the services reliably by establishing multi-cloud redundancy. The company also uses Analytics & Logs to run its services efficiently, including blocking abnormal API calls, tracking and blocking access by malicious users, and controlling speeds for certain domains and routes.

Overseas Telco Operator

Building a CDN Platform for Overseas OTT Services **for Hong Kong's Largest Global Telco**

PCCW Global – Largest global telco operator in Hong Kong

PCCW Global, one of the largest telecommunications operators in Asia, provides CDN services to content providers ar ound the world.

OVERVIEW	PCCW Global, the parent company of Hong Kong Telecom, wanted to significantly expand its media services business across Africa, the Middle East, and Asia , where demand for video services is growing significantly. To achieve this goal, the company needed a market proven telco-grade CDN platform in order to launch new OTT services in South Africa. Most importantly, they needed to find a cloud-base managed CDN with high performance, security, and scalability for their high-volume content delivery service business, as well as an OTT CDN platform for their video services.
APPLICATION	• Cloud Storage • Media Streaming • VOD Streaming • Image Caching • Image Resizing • Authentication Tokens to Block Unauthorized Access
RESULTS	Launched 'OnTap TV', an OTT service for South Africa region

MSP(Managed Service Provider) Specializing in Public Cloud

Service and Platform Build & Operation **based on Domestic Public Clouds**

Ulsan Institute of Science and Technology	UNIST Homepage Cloud Operation Agency	Jan. 2022 ~ Dec. 2023
Korea Tourism Organization	Integrated operation and maintenance of VisitKorea foreign language tourism marketing platform (plus 4 other cases)	Jan. 2023 ~ Dec. 2023
National Museum of Korea	Building indoor AR navigation content	Aug. 2023 ~ Dec. 2023
Gyeonggi Environmental Energy Agency	IoT-Based Smart Air Purification System Development Project	June 2024 ~ Aug. 2027
Korea Industry Association	Intranet groupware system build project	Jan. 2019 ~ Apr. 2024
Korea Electronics Association	Electronic Industry Online Exhibition Center Project	Sept. 2020 ~ Apr. 2024
KOCCA(Korea Creative Content Agency)	International Broadcasting Video Market Service (plus 14 other projects)	July 2020 ~ Dec. 2023
Seoul Education Research & Information Institute	Building and Operating Online Education Platform for Remote Learning Class in Seoul	Aug. 2020 ~ Dec. 2023
Ministry of Environment	Building and Operating an Ecotourism Website in the Cloud for Ministry of Environment	July 2023 ~ Dec. 2023
National Rehabilitation Center	Empirical Research IoT-Cloud Project for Care Robot	Sept. 2023 ~ Dec. 2023
Daegu Arts & Culture Promotion Agency	Smart Tourism City Project in Daegu	Aug. 2022 ~ Dec. 2023
Mapo-gu Office	Commercial District Analysis Big Data Integration Platform(Mapo-gu, Seoul)	Nov. 2020 ~ Nov. 2023
Gyeonggi Provincial Office of Education	Higher Learning Managed Operation Project in Gyeonggi-do	Nov. 2020 ~ Nov. 2023
Korea Institute for Gender Equality Education	Gender Equality and Violence Prevention Knowledge Platform	Oct. 2019 ~ June 2022
Korea Data Agency	Korea Data Agency Business Management	Oct. 2019 ~ Feb. 2022
Korea Institute of Civil Engineering and Building Technology	Building Official Website for the Korean Peninsula Infrastructure Forum	Nov. 2020 ~ June 2021
Korea Educational Development Institute	Education Website(edu.classon.kr) Project for Cross-Curricular Courses	Jan. 2018 ~ Mar. 2020

NAVER CLOUD PLATFORM

kt cloud

Thank you.