

MEDIA & ENTERTAINMENT

Engineering Possibilities for New Age Media





There has been a phenomenal growth in content consumption, owing to an increase in online content distribution mediums, a boom in the content library, and a massive surge in the usage of Smart TVs and second screen devices. While this comes as a boon for the consumers, the production houses, operators and media broadcasters have been saddled with an uphill task to retain customers and promote brand loyalty in a fiercely competitive market. Despite the challenge, the current content consumption trend has brought in a plethora of opportunities that could catapult ecosystem players ahead of their competition to reap greater benefits, arising out of next-gen services and their deployment.

L&T Technology Services supports the ecosystem players with a complete suite of engineering solutions, be it linear or over-the-top (OTT), to cater to the diverse requirements of the end consumers.

WHAT WE OFFER





- · Cable, Satellite & IPTV
- RDK Roll-out
- Android TV
- Head-End Integration
- CAS & DRM Integration
- Middleware Porting
- VOD Services Enablement
- App Store Development
- Cloud DVR



- Client App & User Experience
- CMS Content Management System
- Live TV & VOD Streaming
- AVOD, SVOD, TVOD, and FVOD Models
- Content Security
- Cloud Services
- Targeted Ads
- CDN Integration
- Content Monetization
- Analytics



- Smart TVs
- Smart Phones
- Tablets
- STBs
- Streaming Media Players (Apple TV, Roku, Amazon Fire TV & Google Chromecast)
- Game Consoles
- Smart Watches
- Fitness Bands



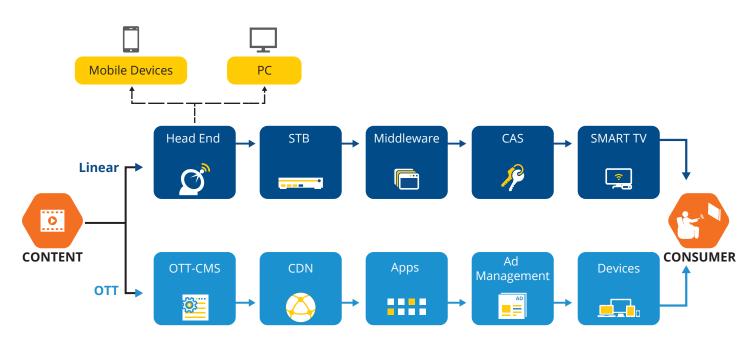












THE POSSIBILITIES WE CREATE

- Enhanced viewing experience
- Multi-platform and multi-device content delivery
- Scalable OTT with reliable adaptive streaming
- Longtail content monetization
- User personalization
- Reduced operational cost

- Minimized time to market
- Creation of new revenue streams
- Security on content, platform, and application levels
- Customer retention and loyalty
- Improved system efficiency



WHAT MAKES US DIFFERENT



SCALE

66+

Operators across the globe



A dedicated center in Israel with

1500

man-years of collective experience in offering specialized IoT security consultation & implementation



100+ STBs and gateways engineered and

200+
applications developed



A leading integrator of Pay TV across the world, with

100 Million deployments



1900 certified engineers across the globe

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SUCCESS STORIES

Enabled Next-Gen STB with Multi-tuner support for North American MSO

- 60% improvement in EPG (Electronic Program Guide) performance
- 85% offshore development
- 40% reduction in NRE costs
- Enabled production of 1.5 million STB units

Developed Mobile TV Application for a Leading DTH Operator

- 20% reduction in development cost through hybrid architecture for optimum code reuse across platforms
- 40% reduction in verification cost by adopting test strategy with main and derivative devices, thereby optimizing testing effort without compromising coverage
- Attainment of market leader position for the customer

Enabled On-Demand service with Content Personalization

- Instant access to a huge on-demand library of latest content with a wi-fi connected PVR
- Al-based personalization of video experiences powered by a third-party recommendation engine

Test Automation for Multiplatform Application Suite

- Automated 95% of the testing for the entire test suite
- Enabled cost savings of up to 30% due to improved efficiency
- Saved test execution time by 50% through automation

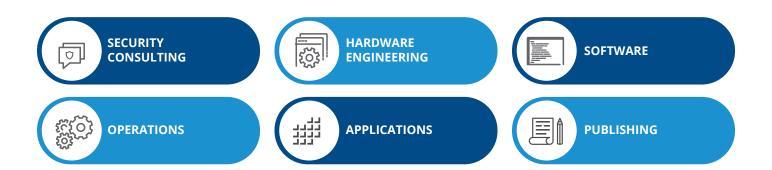
Launch of Catch-up and Restart TV for a Swedish **Satellite Broadcaster**

- STB enabled with Trick Play mode
- Catch-up TV Up to 7 days of broadcast content made available to watch on demand
- Enabled subscribers with long tail content to download and watch their favorite programs anytime, anywhere and on any device, in both offline and online modes





WHAT WE DO



WHAT WE ENABLE



WHAT MAKES US DIFFERENT







SUCCESS STORIES

Rollover of a Smart Card Clock for 100 Million+ STBs

- Prevented revenue loss of \$1 billion due to piracy
- Made all the server side and client side adjustments for over 100 million STBs without any downtime
- Helped the broadcaster avoid expensive smart card replacements

Security Audit & Vulnerability Assessment for RDK Middleware

- Discovered vulnerabilities in JTAG authorization that could lead to an insecure boot
- Identified security gaps in signing software images that could lead to cyberattacks and infiltration by rogue software
- Assisted in building a robust architecture that facilitated the design and deployment of a secure middleware

ASIC Design of Secure Chip Module for PayTV Smart Cards

- Provided protection against piracy to multiple operators, resulting in revenue savings of over \$1 billion
- Provided in-built security during all the phases, from design to post production
- Designed over 15 secure ASIC chips that are used in PayTV Smart Cards

Digital Rights Management for E-Books

- \$2 million of revenue protected against piracy threats
- Assisted in launch of a secure e-publishing platform
- Assisted the publisher in building new revenue models for digital publishing

Multi DRM Integration and Hardening

- Assisted TV operator in protecting content by using multiple DRM protocols
- Ensured license immunity against numerous hacks
- Added extra security points and verification to the DRM servers

For more information visit us at www.LntTechservices.com

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About L&T Technology Services

L&T Technology Services Limited is a publicly listed subsidiary of Larsen & Toubro Limited with a focus on the engineering services space, partnering with 52 Fortune 500 companies and 51 of the world's top ER&D companies. A leading pure-play Engineering, Research and Development services company, we offer design and development solutions through the entire product development chain, across various industries such as Industrial Products, Medical Devices, Transportation, Telecom & Hi-tech, and the Process Industry. We also offer solutions in the areas of Mechanical Engineering Services, Embedded Systems & Applications, Engineering Process Services, Product Lifecycle Management, Engineering Analytics, Power Electronics, Machine-to-Machine (M2M), and the Internet-of-Things (IoT).