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Transaction Overview

On 12th January 2023, the Board of Directors & Audit Committee of L&T Technology Services Ltd. (LTTS) approved the acquisition of Smart World & Communication (SWC) business of Larsen & Toubro Limited subject to approval of shareholders



- Transaction consideration of INR 8 Bn
- LTTS to fund transaction using internal cash reserves
- Completion is subject to approval from shareholders
- Closing is expected to be achieved within 3 months



Strategic Rationale

- **Revenue:** INR 10.98 Bn (FY22)
- 700+ Employees across India
- SWC is a leading connected intelligence solution provider operating in 3 segments Communications (74%), Safe & Smart Solutions (25%), Cybersecurity (1%)
- Aligns with 3 of the 6 Big Bets of LTTS 5G, Sustainability & Digital Products & Al
- Acquisition will enhance LTTS' end-to-end offerings playbook across Next-Gen Communications,
 Sustainable Spaces & Cybersecurity

About SWC



COMMUNICATIONS



SAFE & SMART SOLUTIONS



CYBERSECURITY

- Solutions for Wired & Wireless networks (including OFC, GPON, Wi-Fi, 5G) covering design, implementation, monitoring, modernization & cloud-based network management
- Integrated NOC/SOC/DCO capability to implement converged solutions around Data Centre, Multi-Cloud and Virtualisation
- Solving challenges of rapid urbanization with tech platforms for citizen safety, crowd management, intelligent traffic and transit management
- Offerings across themes of Safety, Security, Integrated Operations, and Intelligent Automation
- Advisory, Implementation and Managed services for Threat Monitoring, Vulnerability Assessment, SOC design, implementation, management, and governance
- Full Life Cycle Cyber Security strategies

- Mega Communications Projects connecting 30k+ Gram Panchayats
- Manage, Support & Operate the countrywide Network of an Indian Govt. Entity
- Implemented 27 Smart Cities with Integrated Command Control Centers (ICCCs)
- Integrated 125K+ IoT Devices & 30+ Data Centers and a leader in the metro communication space in India
- Security Assessment, Network & Security Architecture for OT network monitoring & secure remote access solution for an Indian Bank

Assets

Overview

Business

Successes

650+ Solution Architects
Engineering Network Architects
Talent IoT Experts

Cybersecurity Experts
O-RAN, NMS Experts
DC & Cloud Experts

Solutions & Platforms

Fusion™ platform gEdge Data Centre

Labs & CoEs

5G Experience Centre, Chennai NOC/SOC, Chennai Software Foundry, Hyd.

Next-Gen Communications



Global Communications market:

5G Total Impact on worldwide GDP by 2030: US\$1.3 Tn (PWC)

- NOC
- NextGen Networks
- Data Centers & Pvt. Cloud
- Telecom & Pvt. 5G

Sustainable Spaces



Global Sustainable Spaces market:

ITES TAM for Sustainable spaces by 2025 – US\$241 Bn (Statista 2022)

- Infra & Spaces
- Public Safety & Traffic
- Smart Cities and Utilities
- Integrated Command and Control Center (IC3)

Cybersecure



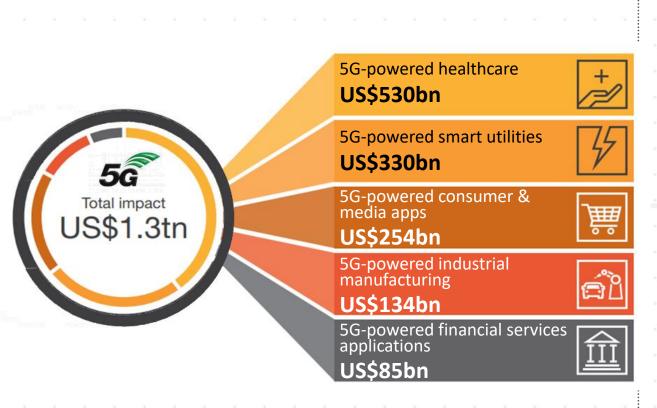
Global Cybersecurity market:

US\$376 Bn by 2029 growing at CAGR of 13.4% (Fortune Business Insights)

- SOC
- Cyber Defense
- Cyber Physical Security
- Platform Security

Next-Gen Communications has Innovative use cases across Segments

5G boost to global GDP by industry by 2030



Monetization opportunities for technology and telecom companies



telecom companies



Exponentially growing need for network capacity



Rapid increase in number of connected devices

10-20%

Overall revenue increase from developing 5Genabled premium connectivity and B2B use cases

20-25%

Annual rate of global data creation, which necessitates access to higherbandwidth network ~51.9 Billion

Total Number of connect devices expected in 2025, up from 43 billion in 2020

Source: PWC, McKinsey



Next-Gen Communications: Full Spectrum of Offerings, Together

LTTS SWC

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Services	Devices/ User Equipment	RAN (RU-DU-CU)	5G/LTE CORE (5GC/EPC)	Edge (incl MEC)	Datacenter/ Cloud	Apps	Orchestration/ Integration
Consulting	LTTS	LTTS	LTTS + SWC		SWC	SWC/LTTS	SWC/LTTS
Network Arch., Planning & Design			Network & Edge Services		SDN, DR, VMWare CoE		Survey, Design
Deployment	Field testing		OSS, Controllers, Orchestrators, Tools, EdgyNeer™		DC-Setup	Cloudification	Network Rollout
Managed Services & Testing	Devices, Lab-as- a-Service, Test & Automation	IntelliAgent™	E2E Lab as a Service, Tes	st & Automation	DC and Multi-cloud Ops	Industry Specific App Dev & Test, IntelliAgent™	
Automation / Orchestration	FOTA management		Service Assurance, Service Fulfilment, Analytics				
Applications/Use cases	Coverage & SLA Monitoring (IA)		MEC Apps Development			Auto, Mining, Agri, Medical, Safety, Industrial	App Dev, Platforms
Product Development	ASIC, New Product Dev. & Val.	RAN Dev & Validation	Core Dev & Validation		gEDGE	Domain specific apps./ App Store	-
NOC & SOC							

Next-Gen Communications: Case Studies

Private LTE Rollout



- Campus network for digital manufacturing
- Predictable coverage through LTE
- Machine vision for weld quality
- Partnership with Nokia and Vodafone Idea

State Wide Area Network (SWAN) Implementations



- TANFINET: End-to-end IP-MPLS network connectivity for 3,326 Gram Panchayats & 110 blocks across 9 districts of Tamil Nadu
- Telangana Fiber Grid: Establishment of T-NOC include complete IT & Non-IT infrastructure, NMS, EMS, BSS & related infrastructure for integration of EMS

5G Lab-as-a-Service



- 15 to 20% cost saving
- 3000 Sq. Feet LAB Space with AHU, 250KVA Power UPS Power
- 32 Radio Racks, 24 Server Racks
- Automation of 5G SA and NSA System Testing test cases

National Informatics Center DC



- Uptime Certified Data Center
- Private Cloud Infrastructure
- laaS Services
- Compute Services
- Storage as Services
- DR / BCP
- Backup
- Automation and Orchestration
- 24x7 Operations and Management

Connectivity for Mobility



Telecom systems implementation, including, CCTV, Public Address, Displays, Radio, Fiber Optics, Intrusion Detection, and SOC.

- Bengaluru Metro: IC3 2, 29 metro stations, and 4 depots in scope
- Gandhinagar (Ahmedabad) Metro: IC3 2, 33 metro stations, and 2 depots in scope
- Nagpur Metro: IC3 2, 37 metro stations, and 2 depots in scope

Proprietary: gEDGE Data Center

SWC

Revolutionary Software defined Edge DC powered by Immersion Cooling Technology.

Up to 30% saving in Capex



- 55% reduction on physical space
- ~40% reduction in power consumption Opex
- 91% reduction in water consumption



Plan to Expand and Grow: Next-Gen Communications

NextGen Networks



Data Center & Private Cloud



Telecom & Private 5G

Proposed Market Expansion

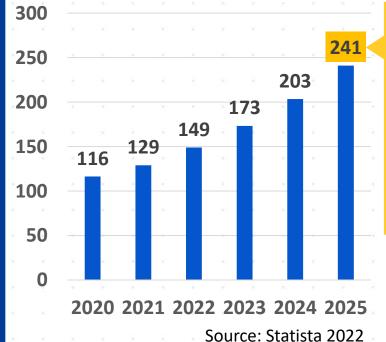
- Expand in US | Europe | Apac | Middle East
- Architect, Rollout and manage Private 5G for Enterprise Clients
- Connect Labs globally for client experience
- GTM with OEM's and Hyperscalers

Sustainable Spaces Market is Growing

With Rapid Urbanization, The World is moving towards Sustainable Spaces

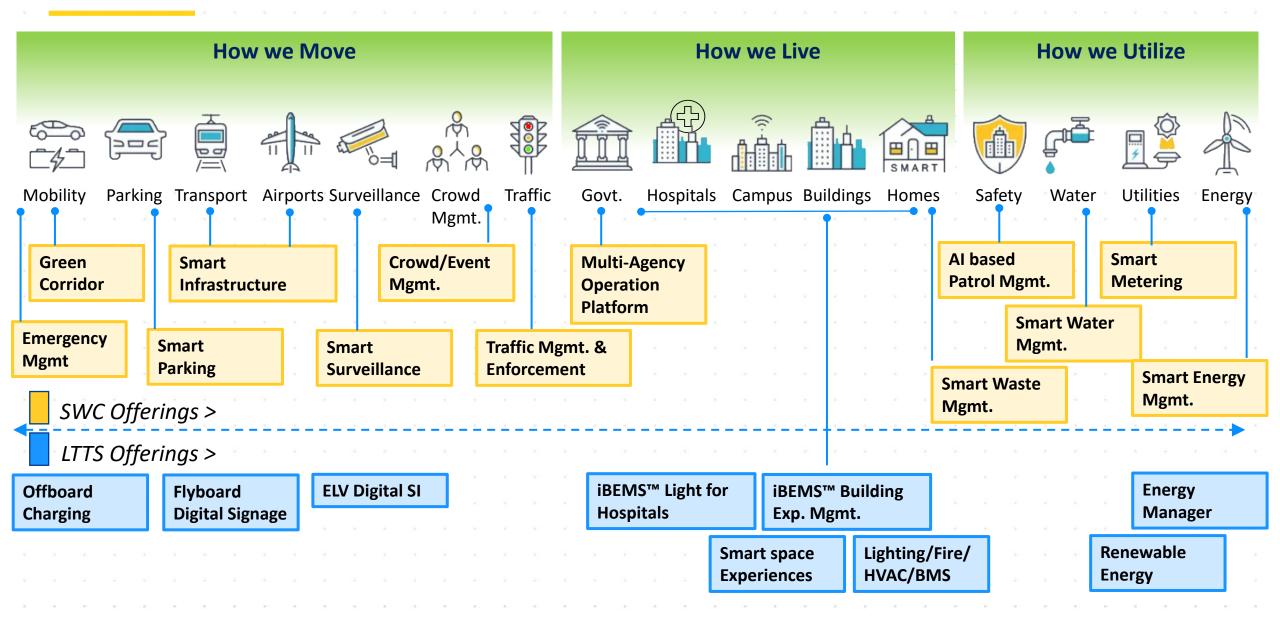


ITES SERVICES: Sustainable Spaces Revenue worldwide 2020-2025 in \$Bn



Smart Infra 103.6 **Smart Buildings** 35.1 **Smart Utilities** 30.1 **Mobility** 27.7 **Public Safety and security** 19.7 **Environmental Solutions** 16.6 Other 8.3 241.0 **Total**

Sustainable Spaces: Complementary Offerings



Sustainable Spaces: Case Studies

Hyderabad: City Surveillance



- AI based insights -Crime Prev. & Response
- 12K cameras, 100K community cameras
- Improved Multi-Agency operations
- **Public Information** Dissemination
- Improved Situational Awareness
- Efficient City Ops. & **Public Service Delivery**

Prayagraj: Crowd Management & Security



- Crowd Management of more than 250 million
- 1 Data Center
- Unified Smart City Platform
- City-wide Surveillance
- Crowd Management
- Al Based Video Analytics
- Unified IP Communication

An integrated data visualization platform with pre-built domain-specific

GPS based for SWM Collection

Israel: Smart Building



- 14,000 sensors generating over 50 TB of data per day across 800,000 square feet of physical floor space and nearly 3,000 employees
- Digital twin of the building's physical space and operations with Microsoft Azure and LTTS i-BEMSTM



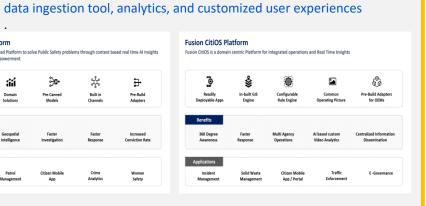
Mumbai: City Safety & Surveillance



- 10K Surveillance Cameras
- 2 Data Centers
- Improved Situational awareness
- Faster incident response
- Disaster preparedness
- Public Information Dissemination
- Real-time insights to field officer

Proprietary: L&T Fusion platform

SWC



Proprietary: Smart Metering



- UP Smart Meter Installation of 4 million meters with data management, billing systems and mobile Citizen app
- Harvana 1 million meters
- New Delhi 68.000 meters including energy analytics

Advanced Metering Infrastructure (AMI) solutions regulating power consumption pattern & analytics dashboards, promoting online billing, infusing transparency and reducing line losses.

Plan to Expand and Grow: Sustainable Spaces

Proposed Market Expansion



Smart Spaces & Critical Infra



Public Safety & Traffic



Smart Utilities



L&T Fusion™: CityOS & SafeOS Platform

- #Additional Markets:
 - Middle East: KSA | Qatar | UAE
 - # Europe: UK | France | Nordics | DACh
 - **"US**
 - **"** APAC
- Extend to Spaces (buildings/campus), Airports & Communities
- LTTS Enterprise Customers including Oil & Gas and CPG customers Globally

Joint Solutioning

- ✓ Leverage Fusion™ + iBEMS + UBIQWeise
- GTM with LTTS Enterprise Customers
- Build-out own connectors & Apps

Cybersecurity will continue to be a critical investment area

Cyberattacks and cyber regulations are accelerating...



Increasing complexity and frequency of cyberattacks



Rising costs and losses from cyberattacks



Growing regulation in the **US** and globally



New national cyber policies in the US in the past 5 years, with greater number globally



~\$376.3 Billion Global Cybersecurity Market by 2029

...so technology must keep up



Predicted economic benefit of digital identity by 2030 expresses as a share of GDP



experienced a cyberattack in **2019** (+36% vs

1 out of 3

prior year)

Global

220x

2022 due to

COVID-19

outbreak

~\$10.5 Trillion

Increase in spam from Feb-Mar vulnerabilities

Forecast costs and losses related to cybercrime by 2025, representing a 15% annual increase



85%

Share of small and midsize enterprises that intend to increase IT security spending until 2023



~85%

3-13%

Share of companies that are victims of digital-identityrelated fraud each year

Cybersecure: Comprehensive Offerings

SWC Offerings

LTTS Offerings

Device Security

- Device Security Assessment
- Threat Modeling
- Standard Compliance (IEC-62443, GB/T30976,32919 NIST)
- Secure Boot

OT Security

- OT Security
 Architecture & Process
 Definition
- Standard Compliance (IEC-62443, NIST)
- Automated Inventory Management and Visibility

IoT & App Security

- Security assessment of IoT landscape
- Penetration testing
- Security Standards Compliance
- Dev Sec Ops
- Web and Mobile app threat modeling

Full Life Cycle Security

- Security Strategy and Roadmap
- Maturity Assessment
- Security Architecture & Blueprint
- Third Party Risk Assessment
- Endpoint Security (EDR, CWPP)
- 24x7 Security & Threat Monitoring
- Automation Engineering

Security Operations Centre (SOC)



Cybersecure: Case Studies

Tyre manufacturer in India



- Security assessment of Plant environment including the processes and the related components.
- Detailed discovery of all the assets in process networks, machine networks and MES network
- Gap Assessment Report
- Network and Security Architecture for OT network monitoring and secure remote access solution.

Security Solution :Freight rail network



- Developed a Security Control Framework based on global Standards
- Designed and implemented cyber security requirements for IT and OT Network
- Network Visibility & Monitoring Solution, Firewall, Remote Access Solution, Domain Controller, Industrial DMZ, patch management, Workstations with Antivirus, End point, etc.

Security for 5G network in Mfg. plant



- Developed security test cases for each component of 5G network (Core, RAN, 5G Client, NMS and User Management)
- Review overall architecture inline with Cyber security requirements
- Review firewall requirements for a manufacturing setup & Independent review of maintenance and service contract
- Recommended End to End threat monitoring solution

Plan to Expand and Grow: Cybersecure

Proposed Market Expansion







- Treat Cybersecure as a Horizontal with Digital Products & Al
- Leverage existing relationships to expand
- Create SOC's as a service
- Cyber advisory
- Partnerships and Alliances

LTTS + SWC Synergies

Business Segments:



Communications

Global Communications market: 5G Total Impact on worldwide GDP by 2030: US\$1.3 Tn (PWC)



Safe & Smart Cities

Global Sustainable Spaces market:

ITES TAM for Sustainable spaces by 2025 – US\$241 Bn (Statista 2022)



Cybersecurity

Global cyber security market:

\$155.8 Bn in 2022; \$376.32 Bn by 2029 CAGR of 13.4% (Fortune Business Insights)

SWC Offerings

- Network Operations Center (NOC)
- OSS, Network Architecture, Planning & Roll Out
- Datacenter, Private 5G & Cloud
- Revenue: ~\$100M
- Safety & Surveillance
- Traffic Management
- Waste Management
- Smart Metering
- Fusion™ Platform & IC3
- Revenue: ~\$30M
- Security Operating Centers (SOC)
- Full Lifecycle Threat Management
- Revenue: ~\$1M

LTTS Offerings

- Operator Network mgmt. and assurance, RAN
- 5G Lab-as-a-Service
- OEM NPD/Sustainance
- Revenue: ~\$60M
- Building Automation
- Energy & Sustainability
- iBEMS™ | UBIQWeise™
- Revenue: ~\$10M
- OT Cybersecurity
- Product security
- Revenue: ~\$9M

Synergies to Expand & Grow



Next-Gen Communications

Full stack offerings with added capabilities in 5G for Operators, **OEMs** and enterprises Revenue: ~\$160M



Sustainable Spaces

End to End solutions across

Efficient Campuses and Cities, Utilities, Mobility, Public Safety and Environment; Revenue: ~\$40M



Cybersecure

Cybersecurity playbook for Endto-end Security Lifecycle **Management**;

Revenue: ~\$10M

Opportunities in: NA | Europe | Middle East | APAC | India

Aligns with 3 of LTTS' 6 Big Bets

LTTS Big Bets



5G



Sustainability



Digital Products

LTTS + SWC

- Telecom Operator play strengthened with full stack offering and NOC
- Global Enterprise Private 5G market can be addressed better
- Lab-as-a-Service across products and telecom equipment
- 5G capability to enhance overall offerings in V2X, Edge computing and Vehicle analytics
- Current offerings directly addresses multiple aspects sustainability for Safety & Surveillance | Traffic Mgmt. | Waste Management | Smart Metering
- Integrated Control and Command Center
- Extend cyber security to Products, OT, IT and Cloud
- Extend Apps for Safe OS and City OS across domains
- Enhanced IIOT capabilities
- SOC



ABOUT L&T TECHNOLOGY SERVICES

L&T Technology Services Limited (LTTS) is a listed subsidiary of Larsen & Toubro Limited focused on Engineering and R&D (ER&D) services. We offer consultancy, design, development and testing services across the product and process development life cycle.

Our customer base includes 69 Fortune 500 companies and 57 of the world's top ER&D companies, across industrial products, medical devices, transportation, telecom & hi-tech, and the process industries. Headquartered in India, we have over 21,600 employees spread across 22 global design centers, 28 global sales offices and 91 innovation labs as of December 31, 2022.

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For additional information about L&T Technology Services log on to https://www.LTTS.com/

