

DATA CENTER ENGINEERING

ACCELERATION | EFFICIENCY | INTEROPERABILITY



HCL ERS **DATA CENTER ENGINEERING SERVICES**

21 ST CENTURY
TECHNOLOGIES

HCL IN THE DATA CENTER INDUSTRY

Large resource base
with hands - on expertise
in **Storage technology**

Dedicated **CoEs** for VLSI,
System Engineering,
Mechanical Engineering and
Industrial Design

Strategic
relationship with
SNIA in contributing
industry standard
test suites

Competence in handling
multi-core processor
design for addressing the
design constraint issue of
power and
performance

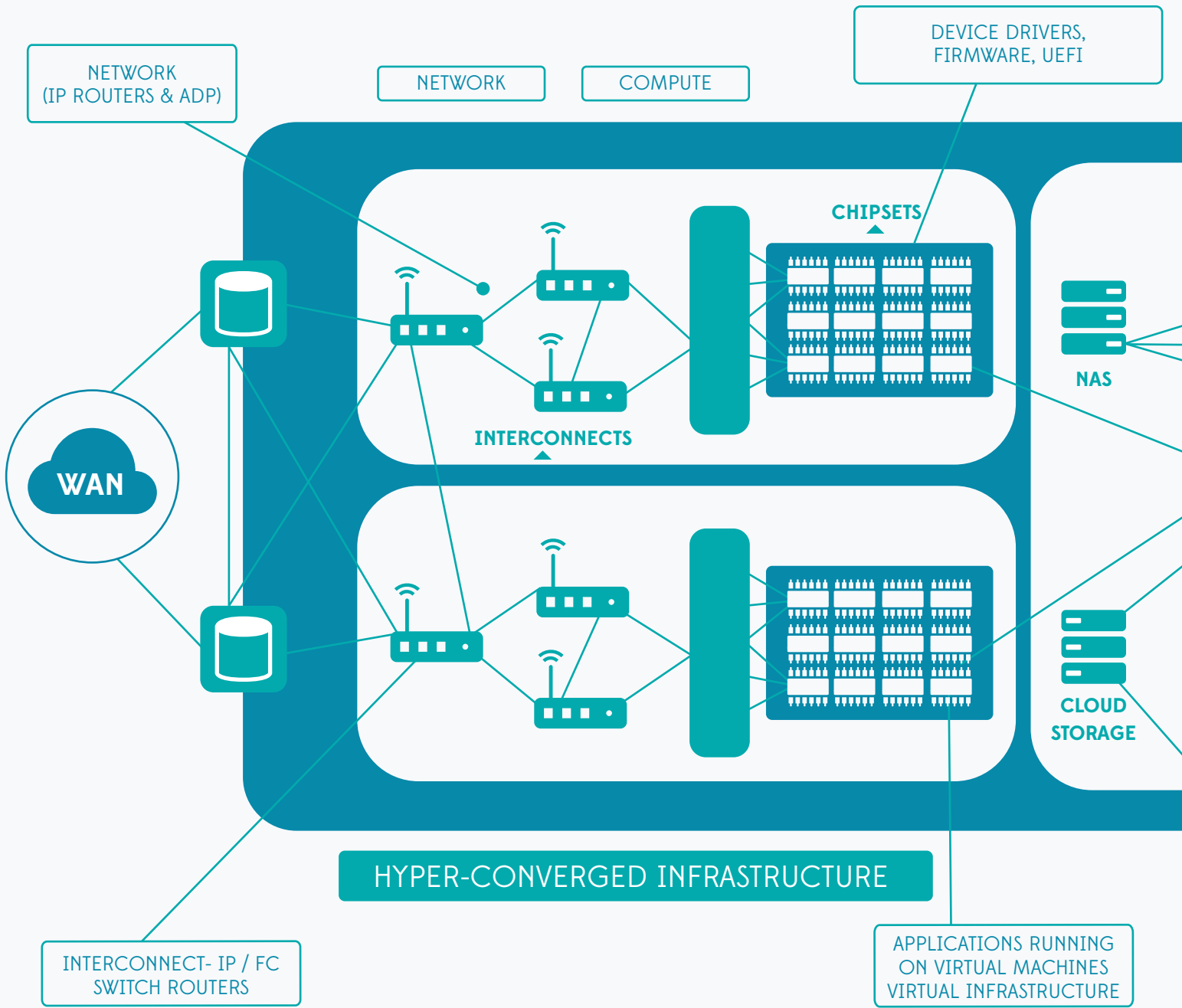
Over three decades of **R&D
and Product** Engineering in
Operating Systems including
SVR4Unix, **BSD, SUN Solaris,
HP-UX, Windows and Linux**

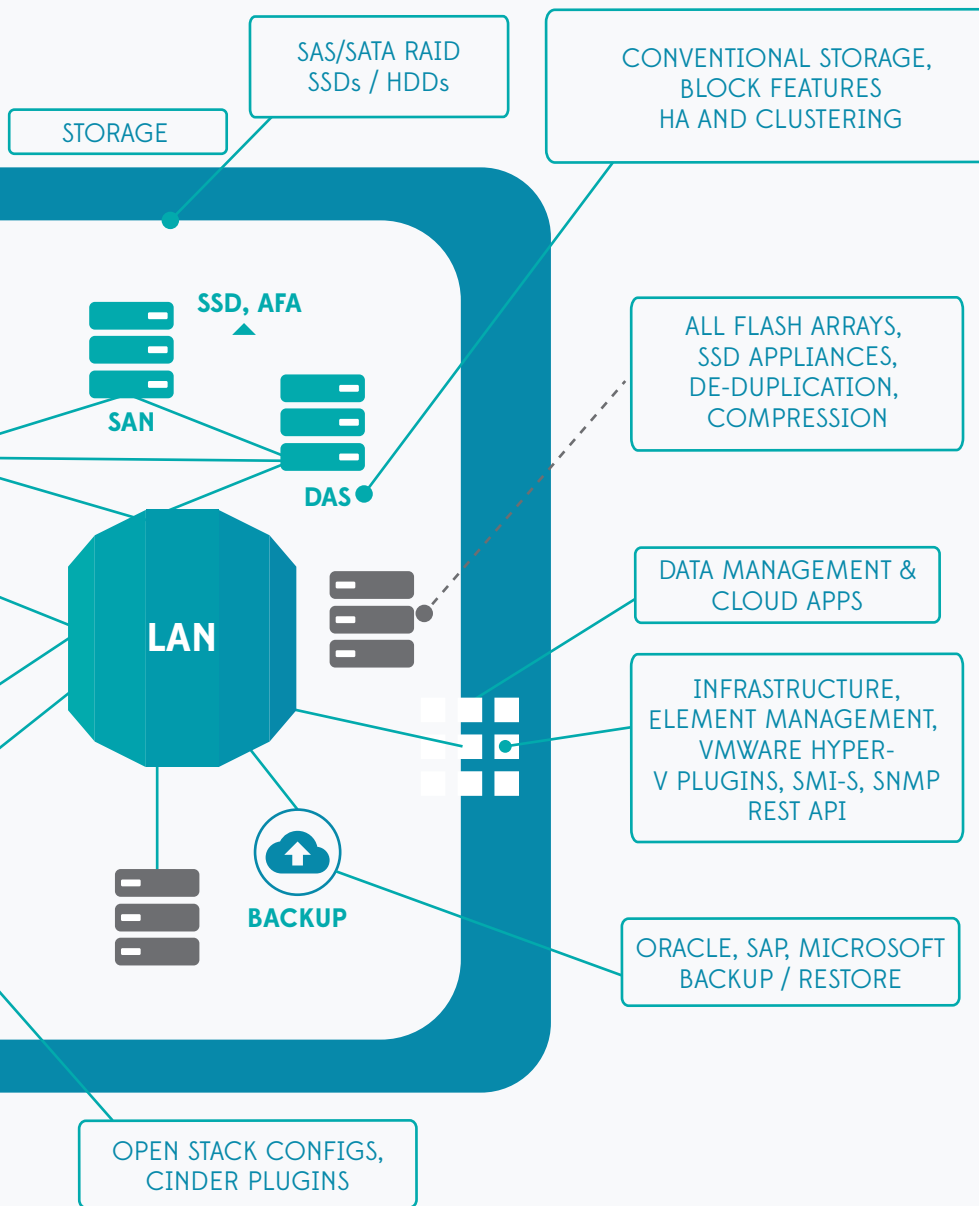
**Experience in
next generation** I/O
bus upgrade, higher
speed memory and
on-chip system
interconnect

THE DATA CENTER INDUSTRY **TODAY**

The storage space market is going through a period of unprecedented change. Just as disk drives were moving to solid state drives, we saw the advent of cloud – all data is now moving to the cloud or the hyper state. In this scenario, with the advent of new technologies such as hyper converged infrastructure and chipsets, what is required is an agile organization that can manage its data centers in totality and keep up to pace with the moving trends in the market.

SERVICES AND SOLUTIONS





Design, development and testing for web based management GUI software. Developed the web client, web server and designed the complete user interface. Under a complete ownership model, the first release was achieved in 5 months

For a leading supplier of storage management solutions, streamlined QA processes and performed regression testing. 50 critical issues were reported. The process increased coverage and reduced the cost of testing through test automation tools

For a storage and data management solutions provider, achieved a TTM advantage of 2 months by working on 2 releases in parallel. HCL streamlined the QA processes and significantly reduced the testing cost through automation. The resource ramp up time was also reduced to half.

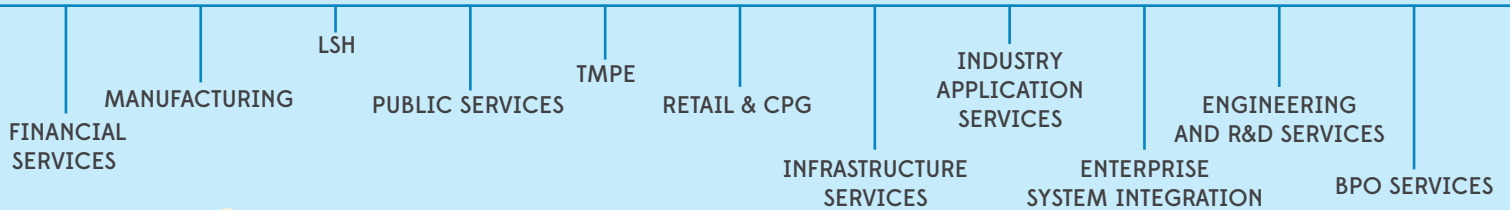
For a leading NAS vendor, provided L3 support, performance improvement and sustenance for the core module. HCL helped the client reduce the test cycle and identify defects not found otherwise. This led to an improvement in CSAT

For a storage interconnect vendor, HCL owns development and release of a software and majority of firmware. The sustenance cost was reduced by about 33% and the key product release was advanced by 2.5 months

▲
**EXPERIENCES
 WE ENGINEER
 FOR OUR CUSTOMERS**

HCL - A \$7 BILLION GLOBAL ENTERPRISE

HCL Technologies brings IT and engineering services expertise under one roof to solve complex business problems for its clients. Leveraging our extensive global offshore infrastructure, network of offices in 31 countries and 110,000 employee base, provide holistic, multi-service delivery in industries such as financial services, manufacturing, consumer services, public services and healthcare. HCL's 38 year journey has been truly transformational.



\$1 BILLION IN NET PROFIT

\$5 BILLION IN REVENUE

\$15 BILLION IN MARKET CAPITALIZATION

**WE ARE AMONGST THE ONLY EIGHT
21st CENTURY COMPANIES TO ACHIEVE ▲**

HCL ENGINEERING AND R&DSERVICES IS BUILDING 21ST CENTURY TECHNOLOGIES

Organizations today are experiencing an unprecedented phenomenon. In the previous century, a company would remain listed as a Fortune 500 company for about 60 years. Today, they stay in that list for less than 18 years! Corporate profits are shifting to asset-light idea-intensive sectors. Emerging-market giants are gaining global scale; with the share of US and Western European companies in the Fortune 500 falling. Asset light technologies are creating more incremental value creating the need to pivot to service R&D. Firms with large legacy product R&D organizations will have to transition in a non-disruptive way. Kick starting Service R&D organization will need extensive collaboration. Thus, engineering spend is going to change drastically in the coming decade.

HCL with its engineering heritage, global presence, cumulative revenue impact and being the largest and fastest growing engineering services provider from India is ideally placed to transform your enterprise.

CUSTOMER CENTRIC
Design Centric, Accessible,
Innovative

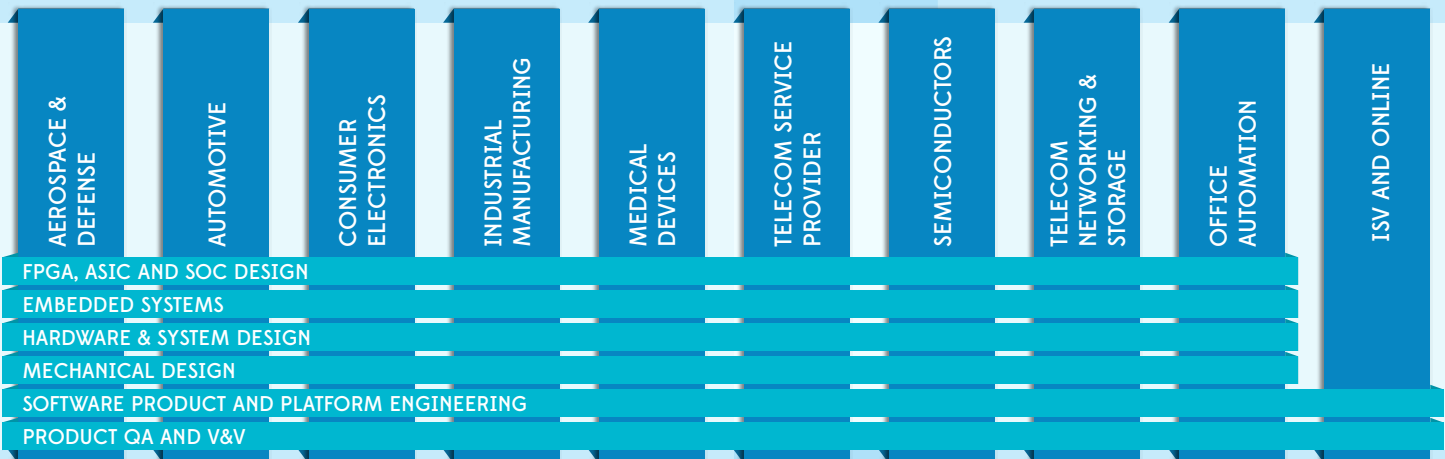


AGILE
Platformized, Continuously Released,
Data Driven

The face of 21st century technologies will be **Customer Centric** - in terms of design centrality for industrial and UX design, accessibility & innovation as a service ; **Agile** - in terms of e-business platforms, DevOps framework and engineering analytics; **And Efficient** - in terms of Support & test automation, Value engineering and intelligent sustenance.

EFFICIENT
Automated, Frugal,
Sustained

HCL ERS has been instrumental in engineering multiple products for 300+ customers across 10 industry verticals. Our engineering services straddle the entire product development lifecycle from new product introduction to end of lifecycle.



~\$ 50 Billion product revenue enabled over last ten years for our customers

Industry leading recognition by Gartner, Forrester, IDC, TBR and Frost & Sullivan

1250+ patents filed, \$20M invested in own labs, 35+ customer labs

Work with 55 of the top 100 R&D spenders globally

#1 ESO provider from India, fastest growing, 600+ basis point market share gain in 4 years

Relationship™ BEYOND THE CONTRACT

Gartner

Endo selected HCL as one of its partners not only for its technical depth and expertise, but more importantly because it was able to secure HCL's commitment to a long term R&D partnership.



The HCL-Rockwell Collins relationship is a model case study in technology services outsourcing best practices.



Meggitt sees HCL's role not only in executing to statements of work but also in contributing and adding value such as suggesting ideas for design improvements.



FROST & SULLIVAN

We have used HCL all the way from testing, specification engineering, software engineering and areas in media as well.



FROST & SULLIVAN

We have given HCL not only development responsibilities, but product management responsibilities and technical engineering responsibilities.



Hello, I'm from HCL's Engineering and R&D Services. We enable technology led organizations to go to market with innovative products and solutions. We partner with our customers in building world class products and creating associated solution delivery ecosystems to help bring market leadership. We develop engineering products, solutions and platforms across Aerospace and Defense, Automotive, Consumer Electronics, Software, Online, Industrial Manufacturing, Medical Devices, Networking & Telecom, Office Automation, Semiconductor and Servers & Storage for our customers.

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