HARMAN

Digital Transformation Solutions (DTS)

HARMAN Intelligent Healthcare Platform
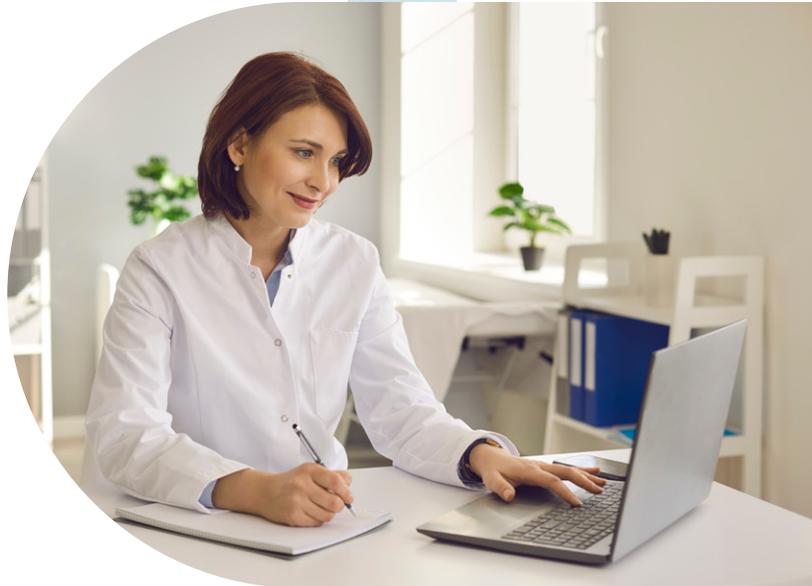
Place the customer at the heart of healthcare

Drive collaboration and customer-centric services across the care continuum with an intelligent platform

The Healthcare and Life Sciences industry is fragmented, complex, and highly regulated

With the value chain consisting of various stakeholders like insurers, providers, producers, and more, the data generated is at an exponential rate. Adapting cloud computing has become critical to make the best use of this data and staying relevant in the market. Moreover, without secure data collaboration, data exchange, and privacy-preserving analytics, it is impossible to unlock a new level of patient care that is driven by data insights.

By harnessing the power of **Big Data, Machine Learning, and Artificial Intelligence,** healthcare companies can benefit from a real-time care ecosystem that connects the dots across:
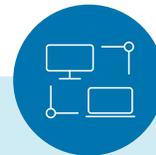
Insurers

- Customer 360 & Personalized Services
- Underwriting Efficiency
- Fraud Analytics
- Insights into Operations
- Speed to Quote
- Early Settlement
- Recommendation Engines

Providers

- Patient-Centric Services
- Data-driven Treatment
- Centralized Access to Health Records, Remote Diagnosis, Clinician Satisfaction
- Connected Healthcare
- Remote Care
- HIPAA/GDPR

Producers

- Remote Device Management
- Connected Devices
- Clinical Trials
- Drug Development Timelines
- Supply Chain Management
- Regulations
- Counterfeits
- Precision Medicine

Transform healthcare data into patient value

The **HARMAN Intelligent Healthcare Platform** helps Healthcare and Life Sciences companies reach their customer-centric goals through a seamless transformation of data, analytics, intelligence, and governance functions in a secure, cost-effective, and privacy-compliant manner.

Some of the key components of the Intelligent Healthcare Platform solution are

Data machine

- Scalable, reliable, and comprehensive engine to support various data types.
- Data Machine ingests, processes and securely stores data from devices, sensors, clinical, genomic, patients, claims, wellness etc.
- Process batch or real-time streaming data from various sources such as EMR, FHIR/HL7.
- Process structured, unstructured, semi-structured, and graph data with validation rules to ensure accuracy, quality, and logical consistency.

Analytics & Visualization machine

- The data lake stores various data types at scale and helps run exploratory and predictive analytics and visualizations to generate actionable insights.
- Centralized reporting and analytics portal to meet various requirements, including Self Service BI option for power users.

Intelligence machine

- It has Machine Learning and Deep Learning algorithms and models across Predictive Analytics, Computer Vision, NLP and Graph analytics.
- It also has pre-built software products such as the HARMAN Remote Care Platform and HARMAN Intelligent Device Management Platform.

Governance machine

- In partnership with AWS, we provide access to more than 130 HIPAA-eligible services and numerous certifications for industry-relevant global IT and compliance standards, including GDPR, HITRUST, ENS High, HDS, and C5.

Key pillars of the platform

Equipped to tackle the numerous complexities in the healthcare space, some of the key architecture principles include:

- HIPAA regulatory compliance and data convergence
- Adaptive cloud-native solutions
- Data security (encryption, RBAC, data anonymization, and more)
- Adherence to data privacy compliance (GDPR)
- Robust data governance
- Open standards and open-source software
- Agile data platformization

The platform aims at integrating all available data to encourage proactive action among patients and address data discrepancies. Here is an overview of the platform's uses:

Patient centricity

- Patient Centric Analysis
- Data-driven treatment management
- Proactive patient engagement
- Real-time monitoring
- Improved health conditions

Data-driven decisions

- Detect anomalies
- Predict future states
- Identify root causes to support rapid decision making
- Patient & Care Analytics
- AI-based risk profiling
- Improved Data Quality
- Streamlined data pipelines

Accelerate innovation

- Digital Experiences
- Mobility solutions for health and wellness
- Shorten the journey from Unstructured to Structured data
- Robust Platform capable of meeting current future business requirements

Business agility

- Transformation
- Flexibility in operations through simplified payment & claims
- Faster decisions from Unstructured data
- Improved collaboration
- Automation of IT architectures

Deliver value-based healthcare with HARMAN Intelligent Device Management Platform

Talk to us

About HARMAN Digital Transformation Solutions (DTS)

HARMAN's Digital Transformation Solutions (DTS) is a strategic business unit dedicated in blending the physical and digital to make technology more dynamic in order to serve the ever-changing human needs. Our team of over 7,000 employees, spread across 12 countries in 45+ locations, with their expertise across hardware, software, and industry domains are constantly delivering cutting edge technology solutions to over 200 clients globally. HARMAN DTS aims towards helping customers deliver a holistic experience to their customers – through the convergence of digital, cross channel user experience, cloud, mobility, insightful data, and internet-of-things backed by scalable underlying IT platforms. Healthcare, Communications, Industrial, Software, Retail and Hospitality being our key focus verticals, we have made significant investments into this space. Leveraging our global delivery approach, IPs, platforms and people, we deploy next generation technology platforms across industries, offer cost savings and deliver innovative solutions to help our clients on their digital journey. To know more, please visit https://services.harman.com

About HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In March 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.