



DECoDE Solution (Dynamic Ecosystem of Connected Devices)

Smartly integrate, manage and maintain
diverse device ecosystems

The IoT devices market is growing

IoT is regarded as one of the top five game-changing technologies due to its ability to create new sources of data, provide real-time performance updates and create new value propositions. Today up to 81% of enterprises are adopting IoT devices to improve asset reliability tracking, predictive and preventive maintenance use cases, enhancing asset utilization – but more often than not, connected assets and equipment are sourced from multiple OEMs – creating extremely diverse and heterogeneous device environments

Today, enterprises must manage multiple type of assets:

Existing Operating System based devices which may or not be connected to Enterprise Network

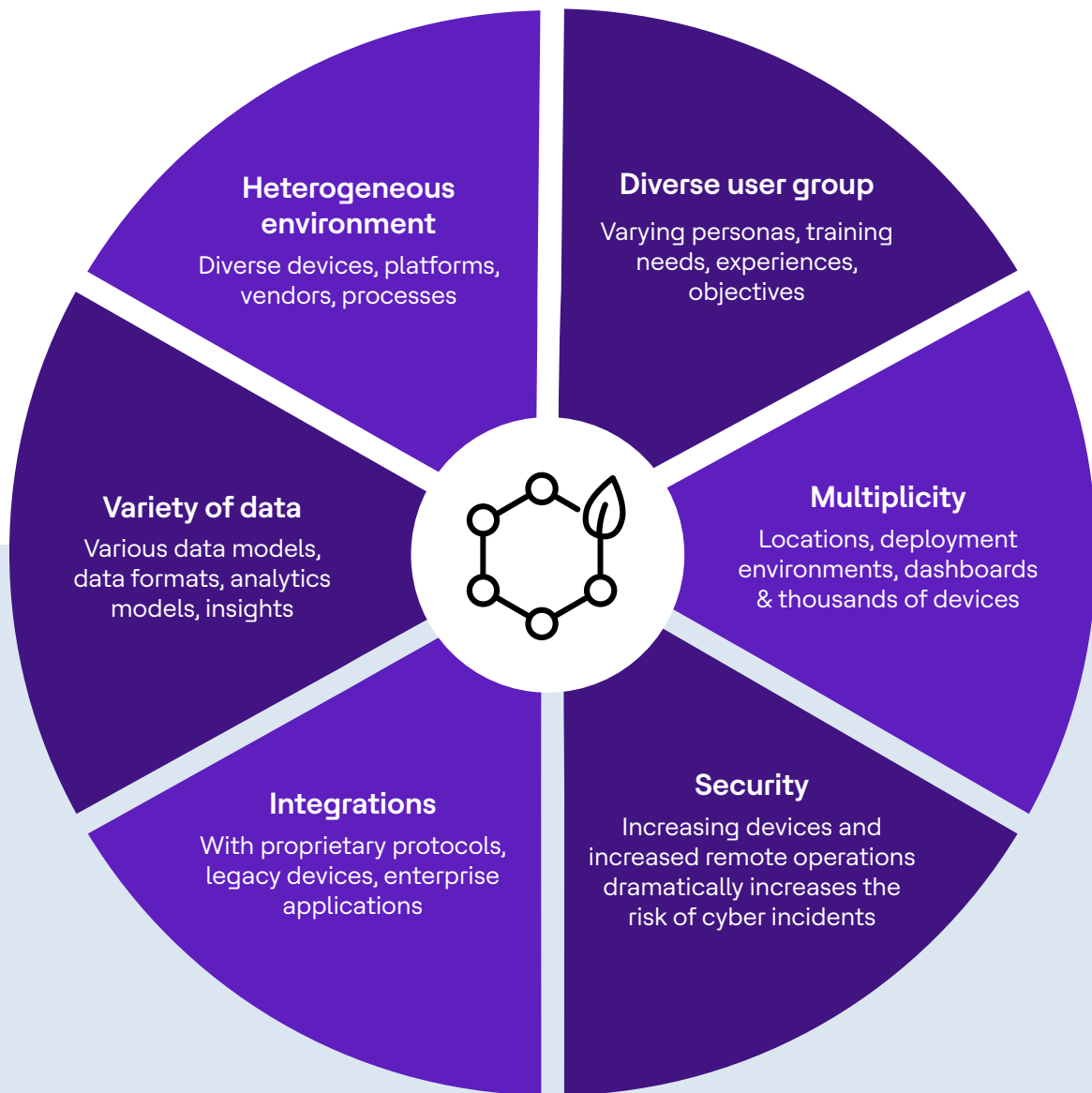
New generation of IoT Devices which are of heterogeneous software and hardware configuration

New generation Smart Devices like 3D Printers, Smart Cameras used for different purposes

With the new set of asset categories coming in, tools which were traditionally used by IT Assets management cannot be extended to all functions of new array of devices. The new requirements in managing and maintaining the assets creates piecemeal adoption of process in the enterprises. This poses challenges in applying the standard enterprise workflow and policies across network, locations and roles.



Challenges in monitoring and managing the heterogeneous IoT ecosystem



The operational inefficiencies created in monitoring and managing such a heterogeneous environment directly impacts the time-to-market, quality, and profitability of enterprises.

Sources: PRNewswire, VXchange, Vodafone IoT Spotlight Report

About DECoDe

Dynamic Ecosystem of Connected Devices (DECoDe) is a device management solution to manage, monitor, configure, and troubleshoot IoT Devices remotely from a consolidated dashboard – offering a seamless and integrated view of the IoT ecosystem of the enterprise from a single pane of glass. The DECoDe platform dynamically aggregates the PaaS,

OEM Platforms, and Protocols, to bridge the data silos and creates a unique Enterprise Device Ecosystem.

With DECoDe's quick onboarding leveraging device templating capabilities, the solution can be deployed in a multi-vendor and heterogeneous device environment to introduce a standardized and

unified workflow to manage thousands of diverse connected devices. DECoDe solution also offers a set of value-added device services like configuration and control, firmware management and deployment, location-based device management, and role-based administrator access management.

Features



Device lifecycle & asset family management

Supports definition of devices such as gateway, and edge device. Helps integrate devices and sets up devices per site with consolidated family management and role-based custom dashboards



Monitoring

Generates product-based usage reports, including remote condition monitoring of devices & sensors, both at individual and aggregate levels, including alert management - threshold configuration including notifications via email, messages, and apps



Role-based access & security

Device and gateway access basis roles, including security – secure connection and onboarding of IoT devices with authentication and authorization services



Device services

Offers remote monitoring, configuration, control, remote firmware management, and updates. Eliminates the need for a technician's presence by sending over-the-air (OTA) commands to a device



Consolidated dashboard

Manages devices in heterogeneous device environment using a single consolidated dashboard



Unified workflow & integration

Defines standardized workflow to onboard and manage all devices in the environment, including Service Now integration CMDB/ITSM

Benefits



Consolidate device management

Cloud agnostic single point of device configuration and control, firmware management and rollout including unified process to monitor & manage device globally – ensure secure and rapid IoT ecosystem scalability



Utilize predictive maintenance

Predict failures, remotely manage devices, monitor and preempt downtimes in real-time – resolve service problems



Enhance user experience

Role and facility-based access, customizable reports, and alerts that enable better management of IoT ecosystem



Optimize efficiency

Optimize manpower and cost, reduce downtimes, spare parts inventory and improve first-time fix rates

DECoDe enables enterprises to achieve:

~100%	~25%	~95%
Software patches implemented within the defined time frame (~1, 2 & 3 business days)	Reduction in device downtimes	Device provisioning completed

To talk to HCLTech's IoT technology experts about DECoDe click [here](#) or write to us at iotworks@hcl.com





About Us

IoT WoRKs™ at HCLTech

IoT WoRKs™ is a dedicated IoT business unit of HCLTech. Our award winning, best-in-class, customer and industry specific, deployment ready solutions co-created with customers, enable them to maximize effectiveness and returns on their asset investments. Rated as a global leader in IoT consulting & services by top analysts, our solutions, enable IoT-led business transformation through creation of more efficient business processes, new revenue streams and business models that deliver measurable business outcomes. At HCLTech, we believe that the transformative impact of IoT is realized by IoTizing the 'things', connecting the assets to a data platform and then using the data to derive business insights and taking business decisions which ultimately lead to change in enterprise's processes and people practices.

To know more about our capabilities and solutions visit hcltech.com/iot

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