Comparative analysis of technical stacks:

Technical Stack Combination	Communication Protocol	Cloud Platform	Edge Computing	Data Storage	Key Features and Benefits
LoRaWAN + MQTT + AWS IoT + Cloud Storage	LoRaWAN, MQTT	AWS IoT	Not applicable	Cloud storage	- Long-range, low-power communication, lightweight messaging protocol, device management, data processing, and analytics with AWS IoT, scalable and reliable cloud storage
Bluetooth Low Energy (BLE) + MQTT + Azure IoT + Edge Computing	BLE, MQTT	Azure IoT	Edge computing	Not applicable	- Short-range communication with low power consumption, efficient and reliable messaging protocol, device management, data processing, and edge computing with Azure IoT, real-time analytics and decision-making

Technical Stack Combination	Communication Protocol	Cloud Platform	Edge Computing	Data Storage	Key Features and Benefits
					at the network edge
Thread + CoAP + Google Cloud IoT + Cloud Functions	Thread, CoAP	Google Cloud IoT	Not applicable	Cloud storage	- Low-power, mesh networking protocol for IoT devices, efficient communication with resource-constrained devices, device management, integration with Google Cloud services, serverless functions for triggering actions based on IoT data
NB-IoT + MQTT + IBM Watson IoT Platform + Blockchain	NB-IoT, MQTT	IBM Watson IoT Platform	Not applicable	Blockchain	- Wide-area coverage and low-power communication, lightweight messaging protocol, device management, data visualization, and analytics with IBM

Technical Stack Combination	Communication Protocol	Cloud Platform	Edge Computing	Data Storage	Key Features and Benefits
					Watson IoT Platform, secure and transparent transaction recording with blockchain