

FOUNDRY PACKAGES

Develop and operate differentiated, high-performance IoT solutions with ease

What is Foundry?

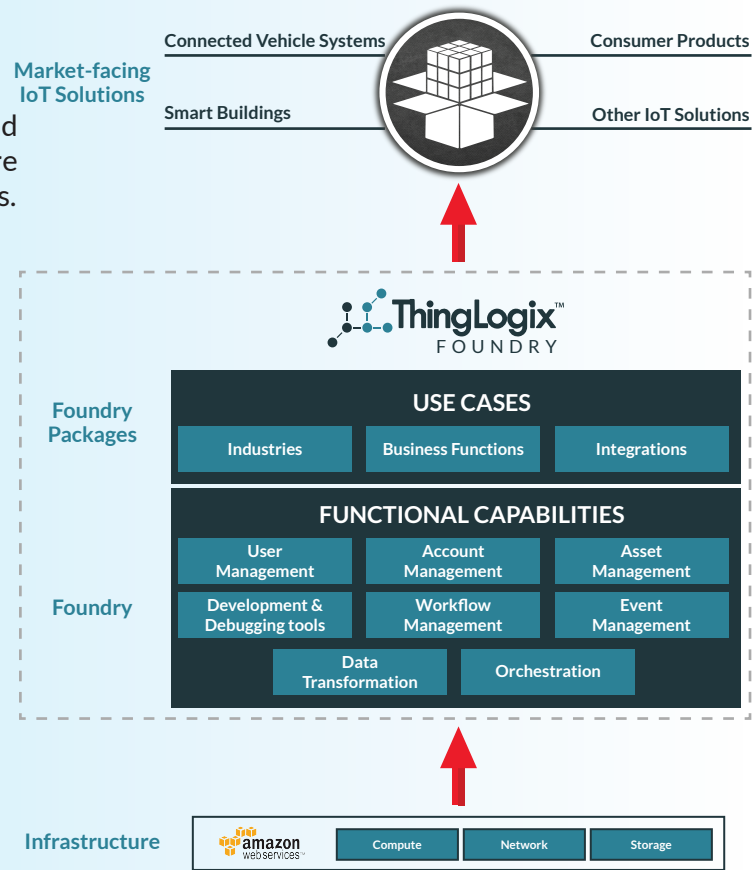
Foundry is a cloud-based solution development and management platform (PaaS) that offers critical core functionality for managing the entire lifecycle of IoT solutions.

- ✔ Create, deploy, manage, and evolve connected solutions, quickly and easily
- ✔ Access and utilize essential functionality for any market-facing IoT solution
- ✔ Incorporate specialized IoT functionality for specific use cases
- ✔ Optimize the serverless IT environment of Amazon Web Services (AWS)

What are Foundry Packages?

Foundry Packages are sets of composite IoT functionality packaged to enable specific use cases.

- ✔ Provide specialized technical capabilities to define and power a market-facing IoT solution
- ✔ Enable industry-specific IoT functionality
- ✔ Include business operations and application management functionality
- ✔ Support integration with key enterprise systems (CRM, ERP) and third-party IoT services



A Simpler Way to “Do IoT”

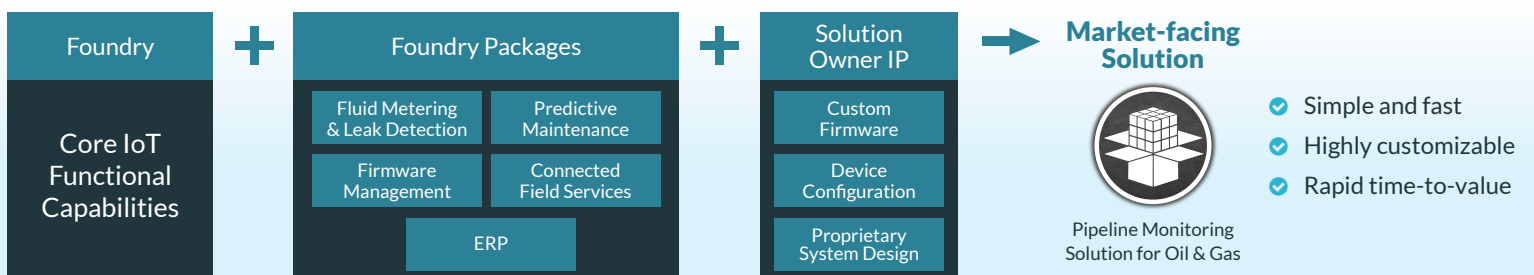
ThingLogix has developed a way to quickly and reliably bring enterprise-grade IoT solutions market, not just once, but on a sustainable basis, with full-lifecycle management as a standard feature. We call it Foundry.

Foundry is an IoT solution development and management platform optimized for rapid time-to-market, ease-of-use, limitless scalability and extensibility, and reliable, secure, sustainable operations over time. With its platform-as-a-service (PaaS) architecture and its tight integration with Amazon Web Services (AWS) infrastructure and services, it is a 100% serverless, cloud-based solution. Organizations using Foundry experience the full benefits of the AWS cloud – infinite scalability, simple and modular extensibility, high availability, high performance, security, and cost efficiency – while also accessing a dynamic platform purpose-built for the unique requirements of creating and managing IoT solutions.

Foundry interfaces seamlessly with component applications that provide specialized functionality. These component applications are called Foundry Packages.

The composite architecture of Foundry Packages allows engineering and product teams to select the functionality that they need to power specific industry use cases, enable differentiating features, and integrate with critical internal and third-party systems. Some IoT solutions have singular purposes, while others perform a variety of functions that require an amalgamation of enablers. Foundry Packages support the development, deployment, and lifetime operation of the most basic or the most complex types of IoT solutions. Organizations can build solutions to fit any use case they can imagine, as well as build out a diverse portfolio of solutions. This technical flexibility creates strategic flexibility for the business, strengthening its competitive edge.

Example: IoT Solution for Oil & Gas



Take Only What You Need, But Don't Be Shy

As an IoT PaaS, Foundry is designed to provide core functionality for any IoT solution architected on AWS. Foundry Packages sit on top of Foundry, and are designed to shape specific technology enablers into market-facing IoT solutions. If we think about a market-facing IoT solution as a "finished good", then Foundry Packages are the "precursor products" necessary to build that finished good.

Why separate the platform elements from the elements that deliver specific use case functionality? The answer is simple... or rather, simplicity.

A core tenet of DevOps is agility, and it is far easier to maintain agile solution development when the process is kept lean. Compartmentalizing the functionality that drives market-facing IoT solutions means that engineering and product management teams work with only the architectural components that they need, and nothing else. This simplifies and accelerates the development process, while also making ongoing operations more straightforward and easier to troubleshoot. Less is more.

Foundry Packages		
Industries	Business Functions	Integrations
Automotive & Logistics	Augmented Reality	Connected Field Services
Construction & Real Estate	Auto Replenishment	CRM
Consumer Products	Firmware Management	ERP
Healthcare	Fluid Metering & Leak Detection	
Manufacturing	Licensing	
Oil & Gas	Predictive Maintenance	
Utilities	Usage & Billing	
Other	Vehicle Monitoring	
	Voice Capabilities	
	Other IoT Functionality	

But agile, lean DevOps doesn't imply forgoing functionality that enhances technical performance or drives competitive differentiation. Foundry Packages let organizations mix and match technical functionality to create game-changing IoT solutions. Develop, test, assess, and modify as much as necessary before proceeding towards launch. Continue to modify after launch. Agility also means being able to rapidly innovate.

Foundry Packages also ensure tight integration with the back-end systems that exchange information with IoT solutions. This integration - with ERP, CRM, and legacy systems, as well as third-party IoT services - enables a rich feature set for the market-facing solution, while also improving operational efficiency, performance, reliability, and security.

Fast, Differentiated, and Sustainable IoT

After architecting the framework of an IoT solution with Foundry and Foundry packages, engineering and product management teams infuse their own intellectual property into the architecture to finish the job. At this moment, a fully functional, differentiated, enterprise-grade IoT solution is born. But the role of Foundry and Foundry Packages isn't over yet, because Foundry and Foundry Packages aren't just designed to bring the solution from concept to launch.

Foundry Packages continue to operate seamlessly with Foundry, which continues to tap and orchestrate the core infrastructure and services functionality of the AWS cloud throughout the life of the market-facing IoT solution. Meanwhile, the organization fielding the IoT solution can focus on how that solution is performing in the marketplace, and not on how the underlying cloud infrastructure is operating. In this way, ThingLogix delivers a powerful division of labor between the IoT solution owner, Foundry as the IoT platform, and AWS as the provider of core cloud infrastructure and services.

A Complete IoT Solution for the Long Term

The component architecture of Foundry Packages, coupled with the standardized PaaS architecture and simple user interface of Foundry, dramatically compress the cycle time for developing market-facing IoT solutions. Foundry Packages also provide organizations a broad range of choice in how they define and manage their IoT strategies.

What makes sense for your organization?

- ✔ A healthcare industry solution combining augmented reality, fluid monitoring, and live webcam streaming?
- ✔ A connected vehicle solution combining natural language processing, vehicle monitoring, and predictive maintenance?

Together, Foundry and Foundry Packages allow an organization to develop every IoT solution as if it was going to become a new line item on the P&L statement. In effect, that is exactly what organizations are doing when they bring an IoT solution to market. It just makes sense to start thinking that way from the outset, before the ink on the white board is even dry.

About ThingLogix



ThingLogix is a provider of Internet of Things (IoT) solutions, solution components, and advisory services. We offer Foundry, a proprietary cloud platform architected on Amazon Web Services (AWS), and Foundry Packages, a series of related component applications, to enable IoT solutions for multiple industries and use cases. Our technology enables sophisticated functionality, rapid time-to-market, simplified solution evolution over time, and extreme cost efficiency.

ThingLogix is a certified AWS Advanced Technology Partner. We operate globally from our offices in San Francisco, The Hague, and Dubai. For more information, visit us at: www.thinglogix.com