

Smart Foundry – Solution Components

An intelligent, multi-functional, domain-centric DevTest environment management platform

Solution Overview

The Smart Foundry platform construct is domain focussed, tool agnostic and function centric. Following the vision, the key differentiator is “Intelligent Integration” based on Capgemini’s domain specific experience. The primary components of this solution are driven by Nutanix (Multi-Premise concept) and Plutora (Value Stream Management).

Smart Foundry will provision and build environments on-demand with the use of blueprints, containerisation and service virtualisation, which will have a direct impact on the total cost of ownership by reducing the need for physical environments all the time (reducing capital expenditure on infrastructure).

Smart Foundry will use the provisions of cloud-based (multi-premise) non-production environments coupled with an automated deployment train will

ensure consistency between the builds. We are introducing a demand management module in the solution which will give end-to-end transparency of the state of environments through the life cycle, which brings in predictability and repeatability.

Smart Foundry plugs into the automated CI/CD pipeline, which will address the promotion of code systematically through the various environments in the route to live. Smart Foundry can reuse the organisations tooling for monitoring at an application level if required and will be integrated into the overall solution.

Smart Foundry ensures that non-production and production environments and all components, be it virtual machines (as blueprints), containers or virtual instances, are provisioned and managed as separate entities through separate cloud instances (or in data centres) and regions as applicable.

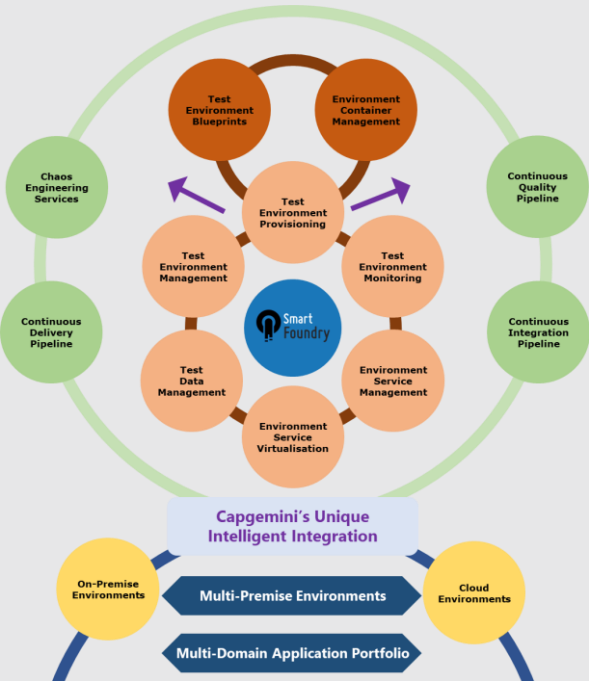
Smart Foundry is based on a lifecycle that aligns to the overall delivery stages of most customers. Along with the components related to demand management, estimation and the dashboard capabilities, this will provide end-to-end predictability of both test and environment-related activities.

Solution Components



“Capgemini’s intelligent integration framework is what brings Smart Foundry to life and differentiates its functioning with typical end to end tool integrations that currently exists in the market today”

- **Amin Momin, Solution Architect**
Capgemini’s Financial Services



In line with the vision, the key functional components that are available in the Smart Foundry platform are:

- Booking and scheduling of environments (demand management)
- Integrated on-demand environment provisioning (blueprints) and container solutions
- Integrated service virtualisation and CMDB
- Integrated service management, monitoring, dashboards and reports.
- Chaos Engineering and Continuous Delivery Pipeline
- Test Data Management and Lifecycle Management
- Continuous Integration and Continuous Quality Pipeline
- Provision of Multi-premise compute & workload deployment

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