



# Bringing Advanced Encryption Management to the World's Most Powerful IT Services

The Orchestration Gateway and corresponding suite of plugins extend the groundbreaking capabilities of Key Orchestration by connecting and translating leading data services such as AWS, Azure, F5, and more — plus custom solutions for proprietary systems.

## The Challenge? Staying Agile.

Technology grows and transforms itself every day. With a wider array of terms defining *what* infrastructure is and *where* the edge of an IT system is located, the challenge of keeping data secure from breaches is constantly evolving and expanding. Protecting data by means of encryption requires management tools that adapt quickly to these new architectures and technologies.

To combat this constantly shifting landscape, technology companies must remain nimble and agile. There can be no assumption that new innovations will fit into existing security paradigms. Security companies must be able to quickly solve the problem of protecting what is new and different. More than that, the modern enterprise needs a way to manage the security for transformative technology such as IoT, containers, and the ever-changing cloud offerings. Given these challenges, Fernetix has created the Orchestration Gateway, a product designed specifically to adapt tried-and-true encryption key management to the unknown.

## How We Make it Work

The Orchestration Gateway is a framework that accepts Key Management Interoperability Protocol (KMIP) commands issued by the Fernetix Key Orchestration appliance and converts them to any API as needed. Fernetix has developed a library of plugins for a variety of systems that do not conform to a standard protocol for key management including Amazon Web Services (AWS) and Microsoft Azure. In this way, a customer is able to use their Key Orchestration appliance as a single-pane-of-glass for full key lifecycle management throughout their enterprise.

Installing an Orchestration Gateway is an investment whose value only increases over time. Customers are able to install one Orchestration Gateway and keep adding plugins as they are released for the most popular technologies. Because Fernetix took the time to create a *framework* and not just another KMIP client, plugins can be developed quickly and added as needed by customers. Now, full lifecycle key management can be achieved for nearly any technology on any platform, including proprietary systems.

Installing the Orchestration Gateway is simple and requires very few computing resources. Based on the .NET framework, the Orchestration Gateway is able to run on nearly any Windows Server or Linux system with Mono. Plugins to the Gateway are able to be added at any time. Further, Fernetix allows for the configuration of multiple endpoints and credentials for every plugin as needed. Having a light footprint means that the Orchestration Gateway can meet the needs of small businesses as well as large global enterprises. The Key Orchestration appliance provides a logical and graphical representation for each plugin installed on the Orchestration Gateway. This means that even if a customer has many plugins on a single orchestrator, keys are still organized automatically as if the customer had a different client for each one.

## Orchestration in the Real World

As an example of this multi-tiered configuration, let's look at an enterprise Azure configuration. A single customer can setup multiple Azure AD directories for different divisions, each one with many different accounts. Within each directory, there can be multiple resource groups. Each resource group can have multiple vaults. The Orchestration Gateway allows a customer to configure even the most complex Azure setup with any number of variations. From there a customer is able to leverage standard key lifecycle commands easily without having to re-code or change configurations.

## Architecture



### New to Key Orchestration?

Visit our website or search "Fernetix" on Facebook, Twitter, and LinkedIn for more information about our powerful encryption key management solution.