

TeskaLabs FIWARE Case Study

March 2016

online visual analytics. Bluebox seem to have a strong presence in the US. Mocana has a strong background in security and are based in the US. Recently they switched their focus to application security. Similar to Bluebox, they secure mobile and IoT via app wrapping technology.

MDM (such as MobileIron, Airwatch, Good.com) providers offer security protection at the device level. MDM solutions monitor manage employees mobile devices. This type of solution is popular in big enterprises because they have a large number of employees, thus mobile devices to manage. As the Bring Your Own Device (BYOD) becomes popular, it is increasingly necessary for enterprises to control the devices brought by employees and monitor their mobile activities.

TeskaLabs' Unique Selling Proposition is that our solution is designed around making existing mobile and IoT applications FIPS 140-2 compliant. The solution can be deployed on premise or on the cloud.

Enabling Technology

TeskaLabs use Microsoft Azure and Amazon cloud platforms to leverage their around-the-world data centers and interact with standard enterprise software to ensure our platform is compatible and easy to integrate.

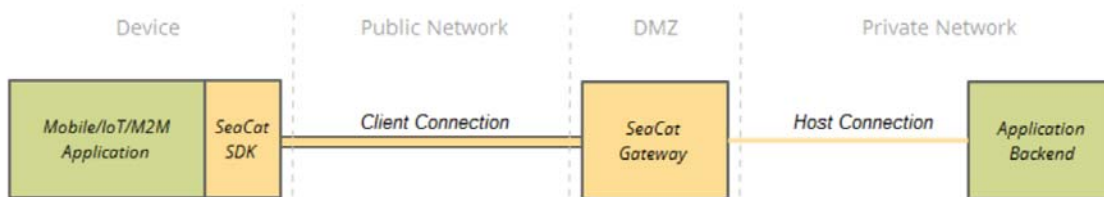


Diagram 1: SeaCat High-level Architecture

Leveraging FIWARE allowed TeskaLabs to focus on the core added value of SeaCat (implementation of security best practices for application developers). Combining SeaCat with services available through the FIWARE catalogue allows TeskaLabs to provide more comprehensive solutions tailored to customer needs. Key FIWARE functionality of particular value was Single Sign-on, and integration of User Management and Access Control to extend the scope of SeaCat.

FIWARE Enablers leveraged by TeskaLabs include the use of application runtime and KeyRock API to allow SeaCat-enabled mobile (and later IoT) applications to consume Identity Management services such as user authorisation and user management. This provides enterprise-grade protection for transmitted data, addressing e.g. challenges connected with transmission of user password over mobile network. TeskaLabs also leveraged application runtime and AuthZForce API to provide transport level security and connectivity. Mobile and IoT applications then use functions of Access Control that is exposed via a SeaCat connection.

SeaCat SDK is a software library, which is designed to be integrated with a protected mobile, IoT or M2M Application. SeaCat SDK secures the Client Connection between the Application to respective Application Backends.

```
#import "FooBarAppDelegate.h"
#import <SeaCatClientTrial/SeaCat.h> // <---- This line was added

- (BOOL)application:(UIApplication *)application didFinishLaunchingWithOptions:
{
    [SeaCatClient configure]; // <---- This line was added too

    return YES;
}
```

Diagram 2: SeaCat SDK is added to application code

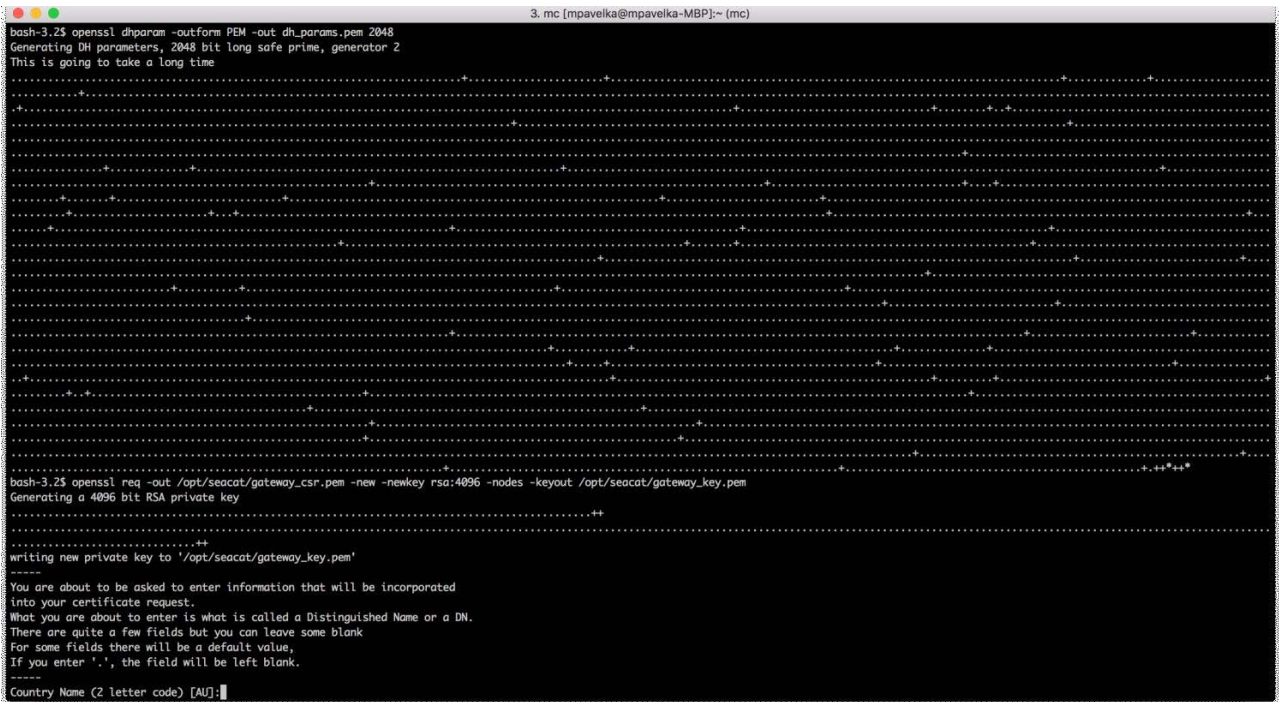


Diagram 3: Installation of SeaCat Gateway and generation of secure key



Diagram 4: Admin Panel Dashboard (beta version) to check activities of app secured by SeaCat and SeaCat Gateway



Progress to Date

Over the next six months as part of the IdeaLondon Programme, TeskaLab's focus is on integrating our solution with Cisco to achieve certification.

Milestones achieved to date include being accepted into StartupYard Czech accelerator (part of CEEDTech Consortium), quickly followed by being one of 11 companies from more than 1,000 startups selected for the Techstars London programme. TeskaLabs also won the GEW (Global Entrepreneur Week) on 19 Nov 2015. TeskaLabs were chosen as a top-4 finalist of the KPMG's Best British Mobile Startup 2016 competition.

TeskaLabs has two existing customers, one in the transportation sector, while the other is in the utility space. These clients offer TeskaLabs solution to their customers as part of their solution portfolio.

TeskaLabs secured a FIWARE Grant for SeaCat under the CEEDTech Accelerator as part of the FI-PPP Phase 3 Programme and invested this to develop the application (40%), develop sales channels (30%), customer support (20%) and validate the solution in the market (10%).

TeskaLabs also secured investment in the form of €337,000 in convertible notes from Techstars and Credo Ventures. TeskaLabs are looking for additional seed round investment over the next six months to fund further product enhancement and marketing and sales.