

Disrupting the global airport capacity and slot management industry

In 2020, Australian-based newcomer, OneAlpha, launched its airport capacity management and insights platform, disrupting the global airport capacity and slot management industry.

10,000+ Capacity checks

Ability to easily manage high volumes of data.

2-4 hrs to 5 secs

Average slot request response time reduced from hours to seconds.

4-6 weeks to a just a few hours

Average slot request response time reduced from weeks to hours.

45+ International Airports

OneAlpha solution used in busy international airport.

100%

Customer satisfaction in the delivery of the bespoke Airport Capacity Management platform.

Opportunities uncovered through data.

With over 41,000 airports around the world and millions of flights weekly, Airport Capacity Management is critical to ensuring the safe and effective operation of any airport.

Airports are consistently under pressure to deliver more capacity at lower costs. Managing large volumes of real-time data is strategic, complex, and crucial. Data must be available, accurate, and reliable so that operators can carefully manage availability and scheduling.

In 2019, OneAlpha embarked on a plan to disrupt the Aviation industry. At the time, sophisticated software choices for airport capacity management were limited. Options were dated and lacked the ability to capture, track and measure key data points for a wider operational view.

The OneAlpha solution will provide airports with extended visibility and capability will allow them to fine-tune existing strategies and approaches, and find new opportunities to maximise capacity.

Accelerating disruption



kubernetes



mongoDB



Playtime Solutions was tasked by OneAlpha to design, build and deliver a bespoke airport capacity management and insights platform. A new-to-market solution that would disrupt the Aviation Industry. This new product would meet key gaps in the market, deliver a competitive advantage, and allow the OneAlpha team to continually improve and innovate, and rapidly scale up to meet global demands.

The insightful airport capacity management system provides cutting-edge, fully automated airport coordination and capacity management, which offers a holistic approach for airport planning and management.

OneAlpha enables airports to manage their runways, terminals, apron, gates, security, baggage, immigration, and check-in with high degrees of AI and automation for coordination and airport capacity decision making. Along with the core system, OneAlpha also provides an easy-to-use, Airline Portal that gives airlines and general aviation operators the ability to easily submit new slot requests, query airport availability and pending request status, and more.

The technical implementation involved, a multi-region, containerised microservice architecture, backed by Cloud-based infrastructure, managed by Kubernetes, all built upon the latest Open ID Connect security standards. Fully automated, one-click, DevOps build and deployment pipelines allow for fast, reliable global up-scaling and upgrade rollouts, without interruptions to daily business processes.

Playtime Solutions architected and built a cloud-native platform based on the latest best of breed container based/Kubernetes and DevOps technologies available, ensuring key measures such as:

- Performance
- Load
- Scalability
- Ease of use
- Automation
- Intelligent Insight

Competitive Outcomes & Results

Being able to leverage all the modern benefits of the cloud, such as unlimited scaling and processing power, allows One Alpha to fully benefit from leading-edge technology and achieve in seconds, what traditionally would take hours, days, or weeks to do by its competitors.

With this pioneering application on the market, airport planning teams now have a solution that will give them additional management tools and visibility. For example, teams now have the ability to fully manage airport aprons for the entire season, not possible in any other coordination system.

One Alpha's customers are also able to evaluate the success of upgrades and have the tools to effectively manage temporary closures. The forecasting tool allows business development teams to determine available capacity for additional airline services in future seasons.

The initial reaction by the Aviation Industry has far exceeded expectations, there has been a lot of excitement and interest by several of the world's busiest airports. OneAlpha has been rolled out to 45 airports and in various stages of commercial discussions.

Make it happen. Contact us today.

e: info@playtimesolutions.com.au

w: www.playtimesolutions.com.au



PlaytimeSolutions