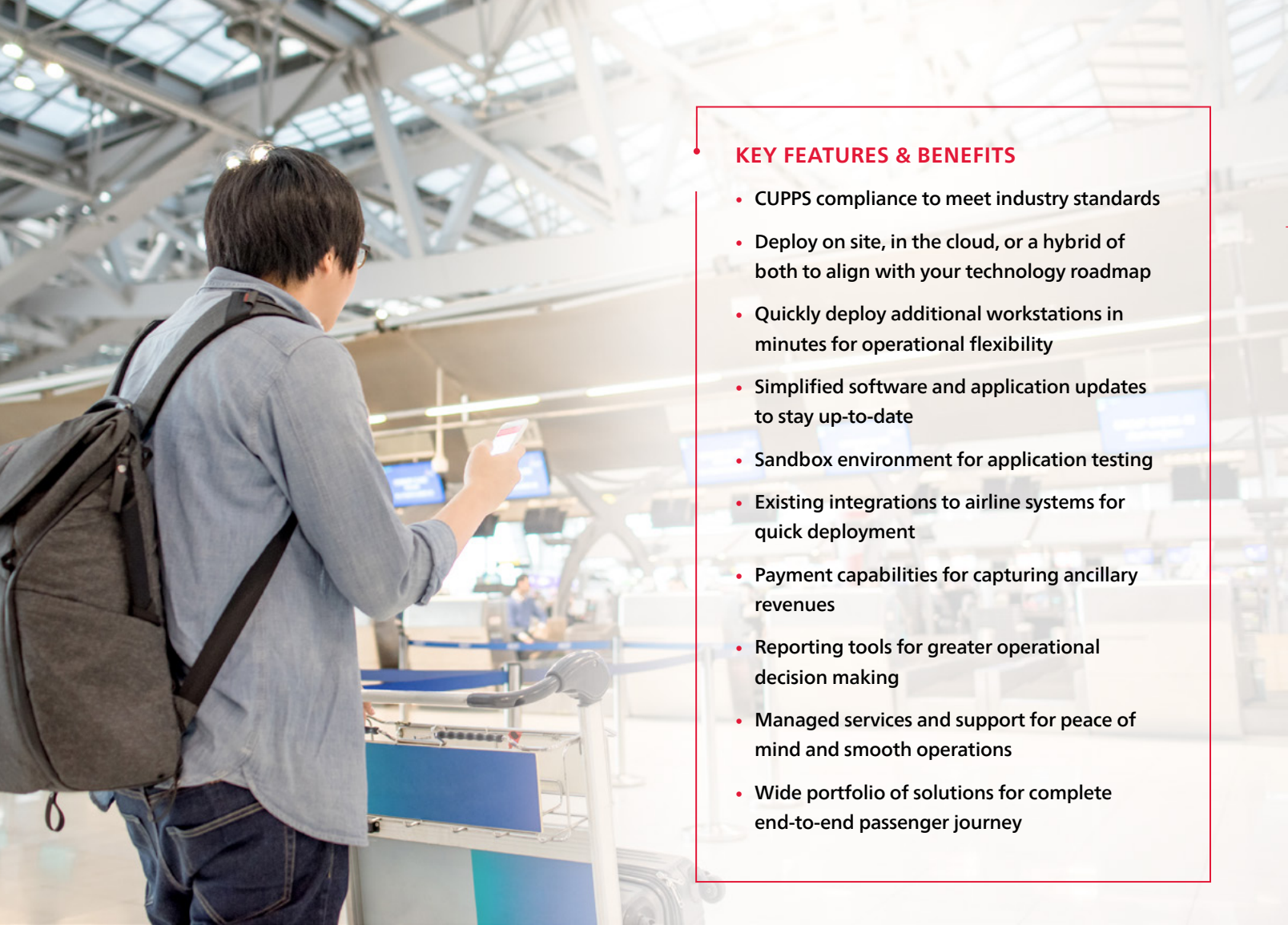


# THE NEXT GENERATION OF AIRPORT ARCHITECTURE

Common-use passenger processing  
– when, where and how you need it





### KEY FEATURES & BENEFITS

- CUPPS compliance to meet industry standards
- Deploy on site, in the cloud, or a hybrid of both to align with your technology roadmap
- Quickly deploy additional workstations in minutes for operational flexibility
- Simplified software and application updates to stay up-to-date
- Sandbox environment for application testing
- Existing integrations to airline systems for quick deployment
- Payment capabilities for capturing ancillary revenues
- Reporting tools for greater operational decision making
- Managed services and support for peace of mind and smooth operations
- Wide portfolio of solutions for complete end-to-end passenger journey

## Airlines and airports of any size can streamline operations with ARINC cMUSE technology.



### cMUSE for cloud-based or hybrid deployment

- Lower on-site infrastructure and facility costs
- Fewer on-site administration requirements
- Decreased deployment time, faster provisioning
- Greater scalability
- Increased resilience
- Simplified airline application updates and sandbox testing
- Reduced carbon footprint



### cMUSE for on-premise deployment

- Use existing infrastructure and support teams
- Greater control over administration of servers
- Local execution of end-user applications
- Less dependency on network connectivity
- On-premise solution with a mobile cloud-based client.



# STREAMLINED OPERATIONS, SHARED COSTS

With technology evolving as quickly as passenger traffic, airports and airlines must decide how best to deploy passenger solutions to meet fluctuating demand. Collins Aerospace ARINC cMUSE™ is a next-generation common-use passenger processing system (CUPPS) that can be deployed on site or in the cloud, offering the flexibility, scalability and efficiency that aviation now needs.

Decades of common-use experience has made ARINC cMUSE the most reliable and secure solution available. And now, with the power of Amazon Web Services (AWS), it is also the most advanced solution.

## SHARE INFRASTRUCTURE AND COSTS

Whether deployed locally or in the cloud, cMUSE supports airport and airline common-use applications that handle everything from passenger check-in and bag drop to security and boarding, providing a single platform that meets both airline and airport operational needs.

Airlines can share check-in and boarding gate resources and costs, seamlessly scaling up and down with passenger demand, while airports can better utilize resources and valuable terminal space.

## ONE PLATFORM FOR CLOUD OR ON-SITE DEPLOYMENT

ARINC cMUSE can be deployed locally or in the cloud, using the same platform for both. Not only does this provide a clear migration path for any future move to the cloud, but it also

allows for hybrid deployments, whereby a network of airports may choose to adopt different deployment models at different sites or supplement an on-premise solution with a mobile cloud-based client.

## SIMPLIFYING APPLICATION UPDATES AND MAINTENANCE

cMUSE also gives an airline the ability to deploy its latest applications to passengers independently from other airlines, enabling them to use their preferred technologies and software while running a single version of their application across all sites.

Workstations can be set up without prerequisite infrastructure or configuration to provide even greater flexibility as demand fluctuates or to manage irregular operations.



# DEPLOYING IN THE CLOUD WITH AMAZON WEB SERVICES



When combining the reliability and security of ARINC cMUSE with the strength and invention of Amazon Web Services, the result is the most secure and innovative common use solution available.

AWS is the world's leading cloud platform with the most extensive global cloud infrastructure. No other cloud provider offers as many regions with multiple availability zones connected by low latency, high throughput and highly redundant networking.

## **AGILE. FLEXIBLE. TRULY CLOUD-BASED.**

Unlike other solutions, cMUSE is truly cloud-based, offering the aviation industry the opportunity to reinvent the way airlines and airports operate – without the need for major application overhauls.

A fully scalable solution, cMUSE helps airports only pay for the resources they need. This enables smaller tier airports to provide the same type of services to passengers traditionally only found at larger airports.

Resources can be spun up and down as you need them, in-line with demand. Perfect for traffic fluctuations and times of irregular operations. This approach also enhances resilience, as there is no longer a dependency on a single core room.

cMUSE has been re-engineered to make life easier. Whether deployed locally or in the cloud, both options provide full application compatibility. Both support the same end user applications. And both support the same traditional PC-based edge devices, including peripheral firmware.

## **ENHANCED AIRLINE APPLICATION TESTING**

cMUSE provides a sandbox environment for airline application testing prior to pushing to a live environment. This prevents issues being discovered at a live site and allows airlines to freely experiment with new microservices and mobile applications.

## **DRAMATICALLY REDUCES DEPLOYMENT TIME AND COSTS**

As a cloud service, cMUSE significantly reduces the system deployment time normally required to get passenger processing systems up and running. Instead of individually configuring client workstations, it automatically provisions out-of-the-box PCs and tablets to be fully functional, common-use devices for authorized applications. It also eliminates the need for servers, core computing space and costly technical manpower, making deployment even simpler and more affordable.

And, more **sustainable**.

# DEPLOYING ON SITE WITH LOCAL INFRASTRUCTURE



Not all airports are ready to move to the cloud. Many have existing infrastructure or on-site support teams to leverage. Others have unreliable internet connectivity or restrictive data localization laws. Whatever the reason, ARINC cMUSE is also available as an on-site solution. This uses the same technology, simplified configuration and support tools as the cloud-delivered option, providing airports with automation tools to efficiently install and manage systems. On-premise test beds are also available for traditional testing and development.

With a clear migration path from on site to the cloud, common-use systems can be aligned with an airport's own technology roadmap, supporting any future move to the cloud occurring at the right time.

## ANALYTICS PROVIDE KEY INSIGHTS

ARINC cMUSE data mining and analytics provide critical insights into operational and historical data that enable airlines and airports to operate more efficiently. The reports and dashboards on activities, such as check-in desks, boarding gates and application usage time, help improve day-to-day decision making. Workstation reports support operational reviews and improve billing.

## EXPERIENCE AND SUPPORT

With decades of common-use experience, Collins has helped drive industry standards and delivered cost-effective passenger solutions around the world. Our global network of expert engineers and support teams provide a range of managed support and maintenance options to reduce pressure on local teams and keep operations running smoothly.

To learn more, go to

[collinsaerospace.com/airports](https://collinsaerospace.com/airports)

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