![transACT Technology Solutions logo]

# Case Study:
## Pavement Management Services (PMS)

**The Customer**

Pavement Management Services Ltd (PMS) is a civil engineering consulting firm specialising in the testing, evaluating and managing of roads, airports, and ports worldwide.

**Our Relationship**

transACT are a trusted advisor to PMS, helping them define and implement their cloud strategy, including storage and cloud management.

**Business Challenges**

As part of their cloud strategy, PMS required centralised governance over employee user profiles to ensure they complied with data and security best-practice whilst reducing the time and resources needed to manage the end-to-end processes.

**Solutions**

Public Cloud – AWS

**Products**

transACT IAM (Identity Access Management) Control Service.

> " **transACT has been invaluable in building our AWS cloud strategy; by implementing their IAM Control Service, we gained immediate ROI in saving time and resources when onboarding and managing our user profiles, alongside governance and security of our data.** "

![PMS logo]

# PMS deliver data governance and security with transACT IAM Control

## About PMS

A civil engineering consulting company, Pavement Management Services Ltd (PMS) specialises in testing, evaluating, and managing highways, airports, and ports. The business was established in January 1992 with offices in Galway and Dublin.

## Business Challenges

PMS was expanding as a business and wanted to adopt AWS cloud to help support its growth strategy. Their cloud infrastructure was built to AWS's best practice framework, so PMS could ensure their environment was implemented and managed to the highest standards.

PMS knew it was critical to ensure centralised governance over employee user profiles from the day they were onboarded to the day-to-day management and finally off-boarding. From a data and compliance perspective, it was fundamental that user profiles were managed properly and securely.

The business wanted to implement a well-defined account structure that separated its workloads into Production, Development and Security. The goal was to ensure that there is a clear separation between the experimental & conceptual account, the staging environment and the live environment. It was vital to deliver consistent identity policies across their

organisation and ensure that any changes to access controls were implemented in a secure and compliant manner.

## Working Together

The Pavement Management Services team engaged cloud services partner transACT Technology Solutions to help define the scope of work, parameters, and services required to build a secure and well-thought-out foundational structure for their workloads in AWS. The cloud team at transACT worked closely with the technical team at PMS to provide a 360 review and project workshops to ensure all objectives were outlined.

transACT implemented transACT IAM Control using AWS native services. With the accounts set up, transACT helped the PMS technical team map their access patterns, create policies, provision roles, and user groups into respective permission categories.

Workload separation was carried out, and cross-account roles were implemented in order to navigate these accounts. This was done based on the access patterns and least-privilege permissions to the relevant users and user groups.

The principle of least-privilege permissions was an essential requirement for the project to provide the necessary guardrails to reduce PMS security blast radius, S limiting the necessary permissions required to perform their roles. Consistent identity policies across the organisation also help to ensure that any changes to access controls are implemented in a secure and compliant manner.

Finally, the Pavement Management Services team were trained on using and managing the solution moving forward.

## Outcomes

By implementing transACT IAM Control, Pavement Management Services can now manage access to AWS resources securely and efficiently. As a result, PMS has only authorised users to access sensitive information, thereby reducing the risk of data breaches. Additionally, the company can now respond quickly to any security incidents, further reducing the impact of any potential security breach.

In conclusion, transACT IAM Control is a valuable tool for companies using AWS to manage resource access. By implementing IAM policies and roles and separating AWS accounts, companies can ensure governance regarding the security of their data and reduce the risk of data breaches. This is crucial in protecting sensitive information, maintaining a secure environment and adhering to compliance standards.

PMS stated, "the IAM Control Service from transACT has helped us achieve our project objectives to have separate workloads across multiple AWS accounts, improving our security posture and providing a comprehensive view of security. In addition, transACT has helped us build our cloud strategy that immediately delivered significant ROI in saving time and resources when onboarding and managing our user profiles."