

Motherson Technology Services Helped **Crystal Crop** Attain Business Agility and Flexibility with an Optimized SAP Environment and Migration to AWS

Client Overview

Crystal Crop Protection Limited (CCPL) is an R&D based crop protection manufacturing and marketing company. It is an Agro-Chemical MNC and was established with the noble cause of serving Indian Agriculture with headquarters in New Delhi and overseas presence in Singapore, Australia, and South Africa. CCPL is a 34-year-old company engaged with eight facilities in the manufacturing, formulation, and marketing of agrichemical products – Insecticides, Fungicides, Herbicides, Plant Growth Regulators/Micronutrients and two R&D facilities for Crops and Seeds.

Over the years, CCPL has evolved as a market leader in the growing agro-chemical industry segment.



Business Challenges

CCPL was using SAP ECC 6 and faced the below challenges that impacted their business functions and the efficiency of their resources.

- 1 Lack of IT Hardware capacity planning, including Capex investment and multilevel approvals
- 2 Lack of support and an inappropriate cloud pricing
- 3 Frequent downtime due to storage issues, further impacting the business operations
- 4 Time-consuming and expensive QA refresh
- 5 Unsupported and outdated DB/OS version
- 6 Increased business risk due to lack of proper backup and recovery policy

Our Solution

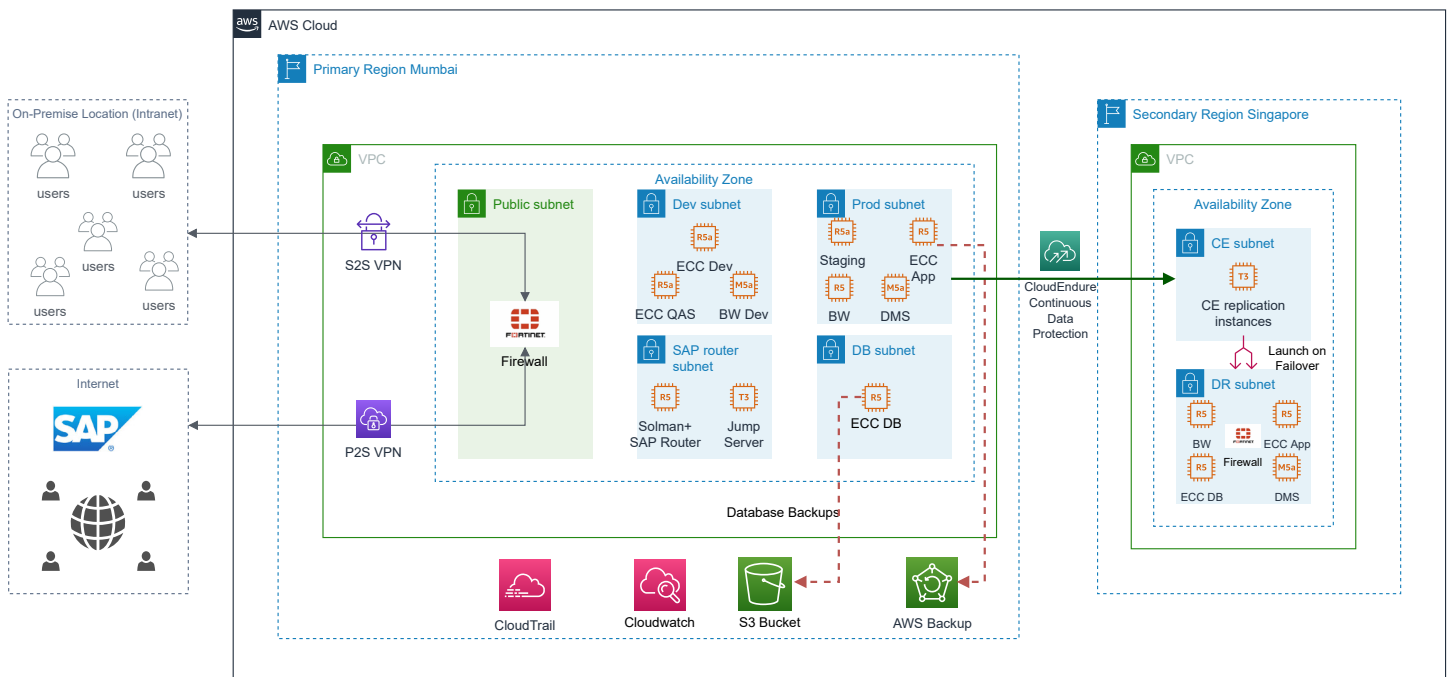
CCPL partnered with us to address the challenges they were facing. Thereafter, Our SAP team studied and discussed the customer's business processes, aligned the SAP modules accordingly, and took a three-phased transformation approach. Based on the findings, our paradigm for the SAP implementation on AWS included the following alterations in their existing architecture: The complete flow of the solution's functioning consisted of the below steps:

- We proposed migrating workloads on AWS to get options for Saving Plan, RI's and Spot instances pricing
- Recommended professionally managed service support and monthly billing option to gain client's confidence
- We suggested the option of dynamically adding storage as per the requirement to resolve the downtime issue.
- Initiated customizable QA instances on AWS
- We recommended an updated DB/OS version to meet the compliance requirement
- AWS Backup for EC2 and RDS Instances as per RPO and RTO was proposed along with periodic backup and DR approach as per defined policy

AWS services used

- | | | |
|-------------------------|-----------------|--------------|
| • Amazon CloudWatch | • Amazon S3 | • Amazon SNS |
| • Amazon GuardDuty | • Amazon Lambda | • Amazon SES |
| • Amazon System Manager | • Amazon Backup | • Amazon EFS |

Solution Architecture



A Quick View of how AWS Services helped build the Solution:

- **AWS Systems Manager to schedule server activities**

With AWS Systems Manager, the CCPL team was able to view operational data from multiple AWS services and schedule operational tasks across AWS resources, i.e., stopping and restarting an EC2 instance and SAP-based services.

- **AWS GuardDuty to Monitor & Alert for malicious activities**

We implemented the AWS security service- GuardDuty to help CCPL monitor and receive alerts for any malicious activity and make informed decisions proactively.

- **AWS CloudWatch to Monitor & alert for the health of the workload**

We implemented the AWS monitoring service- CloudWatch to help CCPL monitor and receive alerts for CPU, RAM, and DISK utilization and get an overview of the workload health.

- **Reduced manual intervention and user-friendly AWS cloud environment**

AWS provided an easy and user-friendly environment that enabled quick switching to a development instance in AWS. Also, no manual intervention is required, which otherwise is a tedious task.

- **Maintaining backup and DR approach as per defined policy**

With AWS backup service, CCPL was able to centralize and automate the backup of their application and database as per the defined policy.

- **AWS Autoscaling and Systems Manager Automation to build scaling plans and manage instance states**

With AWS systems manager automation and Autoscaling, We helped CPPL automate the responses to demand fluctuations and build automation to configure and manage instances and AWS resources.

Benefits



Seamless application functioning without emphasizing immediate Capex investment



Higher uptime and enhanced performance due to optimized cost and SLA based support



Increased scalability and flexibility, leading to higher uptime with optimized cost



Minimized time, effort & cost with QA on the cloud



Performance improvement and compliance due to DB/ OS version upgrades, which ensured the security patches and bug fixes



Time and effort-saving with Backup and Restore

About The Partner

Founded in 1975, Motherson Group is an industry leader and one of the world's largest manufacturers of components for the automotive and transport industries. The group's diversified portfolio makes it a complete solutions provider across the globe. Motherson Group serves its customers with a wide array of products and services through multiple business divisions including wiring harness, vision systems, modules and polymer, technology & software, aerospace, health & medical, logistics, retail and metal products. Motherson Technology Services is a global technology company that offers a consulting-led approach with an integrated portfolio of industry leading solutions that encompass the entire enterprise value chain. Our technology-driven products and services are built on two decades of innovation, with a future focused management philosophy, a strong culture of invention and co-innovation, and a relentless focus on customer-centricity. A CMMI Level 5 company, we have delivered best-in-class services to 430+ clients in 41+ global locations across all continents. We are a business division of Motherson Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 150,000 employees across the globe.