



Service: SAP HANA

Industry: Manufacturing

Company: Lumax Industries Ltd

Lumax Moves to SAP on HANA (SoH) on a Hosted Private Cloud Model

Progression helps the automotive parts major to migrate from Oracle DB to HANA. Lumax now sees real-time business decision making and huge productivity improvements

Lumax Industries Ltd, is the leading automobile lighting manufacturing company that offers a wide array of systems and solutions for two- and four-wheelers, trucks, buses, earth-movers, tractors and a variety of diverse applications. Its sister company, **Lumax Auto Technologies**, is a part of the DK Jain Group of companies and is a leader in the manufacturing of automotive parts like sheet metal parts, fabricated assemblies, tubular parts, for two wheelers and three wheelers. **Lumax DK**, a 100% subsidiary of Lumax Auto Technologies, specializes as a supplier of plastic moulded parts, sub assemblies, parking brakes, head lamp and tail lamp assemblies for two wheelers, precision components and plastic injection trim parts.

Progression has been supporting the Lumax IT team for the past two decades with IT strategy and roadmap, and managing Lumax's key IT infrastructure for high availability. The Lumax group of companies operate in a highly competitive industry that regularly sees technology changes, cost challenges, improvement leaps in quality and increased pace of innovation. Progression's recommendations and solutions have enabled Lumax to adopt the right IT solutions and stay ahead of their competition. Adoption of leading edge technologies and emerging IT delivery model has enabled Lumax's IT team to focus on high business-impact IT initiatives, instead of being stuck in day to day IT operation challenges and monitoring and management of infrastructure or data center issues.

Choosing HANA

The need for business to be real time: The automotive industry, as many other industries, is again in the throes of change. 'Real time' is now a business imperative, not merely a 'good to have' feature in the future. Companies have to embrace enterprise mobility to enable their people to be able to deliver their best, by delivering relevant data and insights to their fingertips. And to make that happen, enterprises have to look at in-memory database environments to significantly increase pace of action at each step, be it carrying out the financial, production or inventory transactions, or retrieving a real-time report for business decision making. This was a key reason for Lumax to consider moving to the HANA environment.

Productivity issues: Lumax has been facing productivity challenges for some time now. The SAP environment had seen a growing number of users and data, and processes had been slowing down over time. Each invoice would take several minutes to get committed, each report would take days to be processed. In fact, some of the key business reports on which inventory and finance decisions were based would take over 20 days to complete. The companies were effectively losing countless productive hours and agility in decision making. So the IT team was looking for a robust solution that would provide real-time insights into business and improve overall productivity.

Unprecedented data growth: The companies have been early adopters of the Managed Private Cloud model and have been running two instances of SAP ECC 6.0 with EHP6 on Progression's Managed Private Cloud platform for over five years now. Lumax has recorded tremendous growth during the last decade. In 2006, they had 12 plants, and today they have 25 plants across the country. This has also led to

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unprecedented data growth as well. Since 2011, when Lumax moved the SAP environment to Progression's Managed Private Cloud platform, their data size has tripled in volume as against the 2x planned growth. The backup window for the databases has stretched to 16-20 hours, which was hampering the performance of the SAP environment. Some of the hardware resources in the private cloud setup were also crossing threshold limits during peak hours. So it was clear to the IT team that an upgrade was in order.

Lumax decided to move their SAP ECC instances from Oracle DB to HANA in-memory database and continue to host it as a Managed Private cloud. They choose to move from EHP 6 to EHP 7 to leverage the new features to improve productivity in the various departments of the companies.

Lumax and Progression teams worked on the sizing and landscape architecture and chalked out a plan to implement various aspects of the project which involved migrating the Operating System from Solaris to Linux, upgrading ECC from EHP 6 to EHP 7 and migrating Oracle DB to HANA. Lumax worked out a 3-month plan to go live on SAP on HANA (SoH) for both the entities and placed the order for their complete project including Managed Private Cloud and Migration. The landscape included the production environment for SAP on HANA (SoH) in HA mode with a remote site DR in a different seismic zone.

Go Live in Less than Half the Planned Time!

Progression's significant investments in an On-Demand HANA Managed Private Cloud platform, helped Lumax in rapid deployment and provisioning of the HANA systems for starting the migration process. What generally takes 4-6 weeks for delivering and provisioning new HANA systems, Progression was able to provision and roll out the environment for starting the migration process in just two weeks. At the same time, all the subsequent systems required for testing, production and HA were provisioned and tested simultaneously to ensure quick and optimal rollout of each stage of the project ensuring minimal delays in the entire process.

The legacy SAP and Oracle environment was running on Oracle Solaris which was migrated to SoH on SUSE platform. Progression used SUSE high-availability cluster software to enable automatic HANA database failover. HANA System Replication was enabled to ensure data sync between primary and secondary HANA systems.

With these optimizations and efficient coordination between the Lumax project team, Progression's Cloud team with deep skill sets on OS, Infra and DB, and DB Migration team of the ISV, the project was completed and successfully rolled out in a record time of 42 days.

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Minimal Business Downtime During Rollover

Before starting off, Progression's team created a sandbox to calculate the actual downtime required for the production instances to be migrated on HANA. The initial estimate for the downtime of the production instances was 36 hours. With the aim to reduce the downtime, Progression's team sought out to identify processes that could be sped up and where things could be handled more efficiently. One of the key processes in the migration that would consume a lot of time was the import and export of databases. To speed this up, Progression's team made use of Ultra high-performance systems and Ultra Perf I/O Storage System for simultaneous rapid import and export of databases for both the instances. With this process and system optimization, the actual system downtime was reduced to under 20 hours. Since it happened on a weekend, the real business impact was very minimal during the scheduled downtime for the roll over process.

What are the benefits?

Going live on the SoH environment in **42 days** instead of the planned 3 months time has enabled Lumax to move faster on their IT initiatives. Lumax is now turning into a real time business. “Moving to HANA from Oracle Database is by no means a simple exercise. With Progression team’s expert solutioning and support, and the access to on-demand infrastructure during the migration, we were able to go live in record time!” says Mr Lalit Madan, GM-IT, Lumax Industries.

- **Real-time decision making:** Gone are the days when the Lumax management team had to wait for weeks to source a key report. The monthly balance sheet is now available to the management on the 3rd of every month; earlier it would be generated only by the 3rd week of the month!

Six monthly reports that would take 24 hours to collate are now available in 20 minutes! HANA has also helped in integrating cost and profitability analyses in a single sheet. Earlier, it had to be tallied manually using separate sheets. All these transformations have enabled rapid decision making in the companies.
- **Huge productivity improvements:** Intra-company billing happens in a few hours now. Earlier it would take days. This helps in quicker debtor clearance as well. Earlier, gate entries would take a long time, but now this is noticeably faster. Overall, Lumax is seeing big savings in manpower time and production time due to faster execution.
- **The right base for analytics:** With the HANA environment, Lumax has set the stage to get deeper and faster analytics for business. For example, just-in-time inventory is now far simpler and easier to manage and execute, and this immediately impacts the bottomline favourably.
- **Future ready platform:** With the move to the new database, Lumax is now ready to leverage new enterprise features such as FIORI apps, BI improvements, etc. These are now available only on HANA. Being on a traditional database would have denied Lumax the utility of such enhancements.
- **Better user experience:** With the new environment there is a visible and significant improvement in the online load transaction processing time. Employees no longer have to keep waiting for data commits as they work.
- **Faster backups:** With the new HANA database, the data size is down from 2.2 TB to just 400 GB, that is half the size of the data when Lumax move to the private cloud back on 2011. As a result backup windows are now much smaller, down from 16+ hours to 1.5 hours!

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– **Lalit Madan**
GM-IT
Lumax Industries

About Progression

Ever since its inception in 1995, Progression has been at the forefront of technology delivering outstanding IT infrastructure services to create significant business value for its customers. Today, Progression is a leading IT infrastructure service provider and Managed Cloud company. Progression delivers a comprehensive range of cloud offerings, SAP ECC & SAP HANA infrastructure implementations, remote management services, managed hosting and disaster recovery for business critical applications to its valued customers across the world. With a Tier 3+ data center in Gurgaon, Progression helps companies run their business critical applications on its Managed Cloud.

With a team strength of 150 and growing, Progression has engineers trained and certified in designing, architecting, selling, servicing and optimizing computing infrastructure based on products from market leaders such as VMware, HP, Oracle and Microsoft.

Progression is ISO 27001:2013 certified and adheres to ITIL v3 standards in service delivery. The company has been recognized for its commitment to deliver the right solutions to customers through awards instituted by Hewlett Packard, VMware, CRN, SME Channels, and ITPV.

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