

Case Study

Automotive Production Readiness Accelerated by 5 months.

An automotive OEM had an immediate need to transfer manufacturing from a number of their facilities and consolidate production into one Sanmina facility. Their ambitious timeline required the transfer to be completed within 12 weeks. However, using the customer's existing legacy IT systems threatened to delay the project by five months. By using 42Q and leveraging its deep, lexible Layer 2 connectivity for legacy integration, production started on schedule.

The Goal: Ramp automotive production in only 3 months!

Sanmina needed to achieve an aggressive customer goal. To ensure continuity of supply, they had three months to rapidly transfer production of automotive drive-train systems from multiple customer manufacturing facilities and consolidate production into the Sanmina facility in Tatabanya, Hungary.

Challenge: Legacy IT system threatened to delay the project by 5 months

The external customer's manufacturing facilities were using legacy on-premise systems to collect data from over 60 machines and 30 different equipment types. Three hundred components were built into one million systems per year using a complex sixty-three step process. Adopting the existing on-premise systems would necessitate an extensive eight month project to understand the legacy software, the equipment protocols and replicate the same approach in Tatabanya. However, production had to begin in only three months!

Why 42Q?: Leverage 42Q's extensive connectivity experience, having connected 35,000+ devices.

Sanmina had already used 42Q to connect more than 35,000 pieces of equipment to the cloud and had developed significant expertise in developing APIs to consolidate the data from a diverse range of equipment.



Approach:

- A development team was assigned to ensure that the transfer of production would not be delayed because of the existing IT infrastructure in the customer's facilities.
- Since adopting the customer's legacy systems threatened to delay the project by 5 months, the team visited the customer's manufacturing facilities in a number of European countries to review the software interfaces between the customer's manufacturing equipment and their legacy IT system.
- Quickly, the team realized that adopting the existing legacy system or working with equipment suppliers to develop APIs would delay the project significantly.
- The development team created an innovative integration platform to emulate the existing legacy systems and interface the disparate range of equipment and protocols to 42Q.

The Results:

- An innovative, complex integration platform was developed in 3 weeks.
- 42Q was production ready in only 4 weeks.
- Production started on schedule in only 3 months.



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