



# OCI GRAILS CASE STUDY: **NXP**

## RELEVANT BACKGROUND

NXP Semiconductors, NV enables secure connections and infrastructure for a smarter world, advancing solutions that make lives easier, better, and safer. Built on over 60 years of combined experience and expertise, NXP has 44,000 employees in more than 35 countries, and posted revenue of \$9.5 billion in 2016.

NXP uses Grails for its manufacturing application development. When NXP needed a partner to build and enhance a suite of factory applications for optimizing capacity utilization, OCI was the obvious choice.

Since Grails is based on the Java platform and uses mainstream technologies, like Groovy, Spring, Hibernate, and Gradle, NXP felt confident that its requirements would be met with minimal risk.

## OPEN SOURCE & GRAILS APPROACH

NXP's manufacturing operates 24/7. At all times, factory information systems are expected to be available and performant to minimize productivity loss caused by outages or slow performance. Due to the highly distributed nature of NXP's manufacturing systems, application development tools and technology must be flexible and capable of supporting high transaction rates and low response times.

## PROJECT DETAILS

We supported NXP in creating and enhancing 2 Grails applications: CoPILOT and WIP Transport.

### CoPILOT

CoPILOT is an application used to manage production master data, like equipment, process flow, and process time data. Alongside other internal applications, CoPILOT enables NXP to optimize the utilization of its equipment to improve delivery and increase factory capacity.

### WIP Transport

WIP Transport is an application used to request material delivery from a central storage location. It provides a dashboard, displaying requests and material movement operations for various storage locations throughout a factory.

## OCI'S CONTRIBUTION

On-time and with high quality, we implemented these applications using the latest Grails 3.X release, along with front-end technologies, including React and AngularJS. We updated NXP's pre-existing Grails template with the latest releases of key enablers, and built a comprehensive suite of regression test cases to sustain NXP's applications for the long-term.

## BUSINESS WIN & OUTCOME

These Grails applications are built to optimize NXP's manufacturing capacity for increased throughput and delivery performance. By delivering these solutions on-time and with high quality, we enabled the NXP team to meet aggressive factory performance milestones and objectives.

## OCI ADVANTAGES

25+ years' experience with Open Source product development and building high-performance, real-time, mission critical systems

Experts in Open Source Solutions: partnering with clients to determine when and where Open Source can add value and reduce technical debt

Customizable library of training materials, delivered by practicing software engineers and subject matter experts

**We write some of the world's most powerful software solutions, are deeply committed to Open Source, and have trained over 50,000 developers. We proudly sponsor the Grails framework and stand ready to help you enhance your Grails journey.**

**Please contact us today to discuss your next Grails project.**