

# SAP LIQUID STUDIO FOR LEONARDO APPLICATION: ROBOT MAINTENANCE

Real-time maintenance visibility

Function: Asset Maintenance | Process: Asset Management | Industry: Cross-Industry

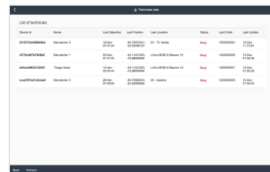
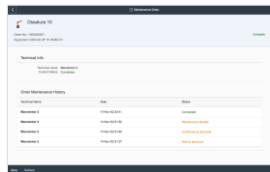
## Application Overview

Maintenance issues with robots along a production line can lead to costly shutdowns and issues with quality. Using SAP Leonardo technology, an organization can improve the performance and agility of its maintenance processes for these robots.

The Robot Maintenance application improves the speed and accuracy of issue notification for assembly line robots. The tool also helps manage service technicians based on geo-location of closest-available maintenance staff and centralized management and reallocation of work.

## Solution

The Robot Maintenance application uses SAP Leonardo IoT services to monitor and improve performance of maintenance processes of robots on an assembly line. Using data received from a partner regarding indoor localization, this application identifies the available service technician nearest to the equipment every time a maintenance order is created and sends data on needed tasks directly to the device.



## Business Value

- Real-time view of location of malfunctioning machines through beacons and geo-location.
- Real-time view of service technician location and availability.
- Integration with mobile devices for service data and work order updates.

## Technologies in Use

- SAP Cloud Platform
- SAP Leonardo IoT Services
- SAP Fiori
- Android SDK
- Bluetooth Beacons

## Features

- Reduces equipment downtime through real-time alerts.
- Easier management and identification of issues on a large maintenance floor through beacons.
- Streamlined management of service technicians.

