



# SAP ICC Integration Scenario- Integration with the SAP E-Mobility Solution

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# SAP E-Mobility

**SAP E-Mobility** is a cloud based application for operating a networked electric vehicle charging infrastructure at scale. It enables companies in multiple industries to build, run and manage charging infrastructure networks to drive the transition to sustainable and convenient electric individual mobility.

## How can SAP E-Mobility help you change the game?

With E-Mobility, SAP is not only offering charge point operation capabilities but also enabling diverse operating and business scenarios. It enables companies to become a charge point operator and to interact along the mobility value chain in the cloud, connecting business partners and stakeholders to enable collaborative business models and processes.

## What are the key features of SAP E-Mobility?

- Charge point device management
- Monitoring of charging infrastructure and charging sessions
- Authorization, authentication and badge management
- Bidirectional communication with vendor-independent charging infrastructure
- Electric vehicle supply equipment vendor-independent OCPP based standard
- Integration with SAP Concur for expense reimbursement

## What are the benefits?

SAP E-Mobility provides full transparency of the charging process, efficient incident management, energy costs, power grid utilization and expense management. Other benefits include:

- Efficient onboarding of new infrastructure (cost & time saving)
- Achieve business decarbonization objectives for sustainability KPIs and corporate fleet goals
- Reduced total cost of ownership due to the flexibility of utilizing various EVSE vendors
- Increased employee satisfaction with the convenience of charging at home or work

## Why SAP?

Based on SAP's long-standing experience, SAP E-Mobility helps companies to build and run charging infrastructures at scale. Along with the integration into business processes such as reimbursement, SAP combines the power of E-Mobility as an industry cloud solution and SAP Business Technology Platform (SAP BTP) with intelligent suite solutions to provide vertical capabilities that deliver real business value.

# Technical Details

The SAP E-Mobility Solution utilizes the globally established communication standard OCPP (Open Charge Point Protocol) to establish a bi-directional communication path with the charging equipment. As an open and vendor-independent charging solution our customers remain completely flexible in their choice of charging infrastructure. With our certification service, we guarantee smooth operation and perfect interaction between charging equipment from different manufacturers and our solution.

## **OCPP 1.6 compatibility testing by Charging Infrastructure Vendor and certification by SAP**

- In this scenario, the testing is carried out by the charging infrastructure vendor. For this purpose, the partner receives access to a test instance of the SAP E-Mobility solution and documentation to carry out these tests.
- After the Charging Equipment Vendor has confirmed the smooth operation and perfect interaction between charging equipment and the SAP E-Mobility solution, a joint meeting will be carried out by SAP and the Charging Equipment Vendor to confirm test results. If the results are confirmed, it concludes the testing process. If not, then both parties will analyze the errors or bugs found, determine the root cause and the party responsible will fix it.
- Successfully tested equipment will be listed in the online directory as being compatible with and supported by the SAP E-Mobility solution.

## **OCPP 1.6 certification by SAP**

- In this scenario, a certification will be carried out by SAP on behalf of the charging infrastructure vendor. For this purpose, the charging equipment vendor will provide SAP with the required charging infrastructure free of charge, documentation and a SPOC at the vendor to validate smooth operation and perfect interaction between charging equipment and the SAP E-Mobility solution.
- If the certification of the OCPP stack confirms a smooth operation and perfect interaction between charging equipment and the SAP E-Mobility solution, then it concludes the certification process. If not, SAP will contact the vendor with a description of the error and a request for a joint troubleshooting session. In that session, both parties will analyze the errors or bugs found, determine the root cause and the party responsible will fix it.
- Successfully tested equipment will be listed in the online directory as being compatible with and supported by the SAP E-Mobility solution.

# Benefits of SAP Certified Integration

## Opportunity for Growth and Participation

By supporting market-leading solutions from SAP and offering integrated solutions to its customer base. Enable efficient charging connection and guarantee feature compatibility with SAP E-Mobility Solution.

May experience faster sales cycles. Develop products to scale easily and quickly.

Certification serves as proof point for technical alignment with SAP solutions

## Increased Potential for Success

Faster implementations and deployments in SAP solution-based landscapes

Accelerated ramp-up on SAP knowledge for smaller ISVs

Take advantage of our expertise. Our team fully supports you during the certification process

## Marketing Benefits

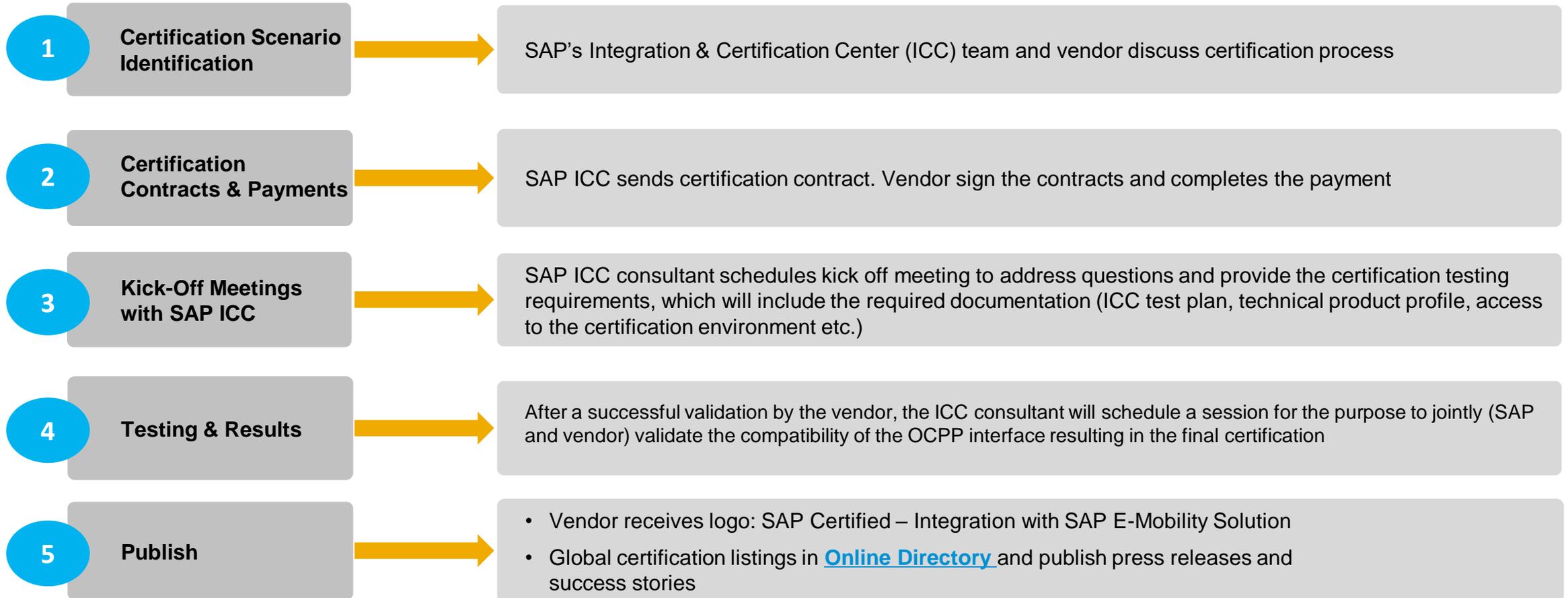
SAP Integration Certificate and an official “*SAP Certified*” solution logo:  SAP<sup>®</sup> Certified  
Integration with SAP E-Mobility Solution

With an SAP E-Mobility certified solution you will stand out from your competitors.

Listing in [Online Directory](#) and press release review

Promotion during events, positioning the product as “certified” to SAP customers and consulting partners

# Certification Process Overview



# Related Links:

## SAP ICC Application Form

- ❑ Please fill in [SAP ICC online application form](#) with information about your company and about the software application that you want to integrate in order to apply for an integration certification.

## Know More About Certification

- ❑ To learn more about certification please visit [Hardware Certification](#) page.
- ❑ SAP Training and Help: Please refer to [SAP Education](#).

**Thank you.**

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