



The Mobile Robot Company

Knowledge Center — VDA 5050 Documentation · 2026-08-04

<https://info.mobilerobot.com/documentation/technical-integration/vda-5050-documentation>

VDA 5050 Documentation

The J1600 has full VDA 5050 support. This page covers what that means in practice for a deployment: what the interface enables, what it requires, and how a VDA 5050 fleet setup is delivered. For the standard itself, see [VDA 5050 explained](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/) (<https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/>).

What VDA 5050 enables on the J1600

VDA 5050 is the interoperability interface that lets mobile robots from different vendors work together in the same space under a compatible fleet-management layer. With VDA 5050 enabled, the J1600 can:

- operate as part of a fleet coordinated by a VDA 5050 fleet manager;
- coexist with robots from other vendors under the same fleet layer;
- scale from a single teach-and-repeat unit into an orchestrated multi-robot deployment without changing hardware.

The Mobile Robot Company works with established VDA 5050 fleet-management providers.

Requirements

VDA 5050 support is part of the [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>) package (€14,500 end-user list), which also includes the [REST API](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>), [Fleet Manager](https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/) (<https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/>), and advanced mission planning. The upgrade is easiest to install at the factory when the robot is ordered; a partner can install it later, but customers cannot install it themselves.

Connected fleet operation requires a network. Basic standalone use of the J1600 does not — [Wi-Fi is optional out of the box](https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/) (<https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/>).

Planning a VDA 5050 deployment

1. Order the robots with Advanced software, or have a partner upgrade existing units.
2. Confirm interface specifics — including the supported VDA 5050 version and the fleet-management products validated for your project — with The Mobile Robot Company or your partner during scoping.
3. Include Fleet Management System setup in the commissioning scope. It is an add-on to the [installation and commissioning package](https://info.mobilerobot.com/documentation/technical-integration/system-integrator-technical-guide/#commissioning-services) (<https://info.mobilerobot.com/documentation/technical-integration/system-integrator-technical-guide/#commissioning-services>).
4. Validate tasks and safety on site as part of commissioning before handover.

When VDA 5050 is the wrong tool

A single J1600 serving one flow needs no fleet layer: [teach and repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) (<https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/>) on the [Standard software](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>) covers it. For direct point integrations with site software or equipment rather than fleet coordination, use the [REST API](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>).