

# SEEGRID | VISION

the power to transform

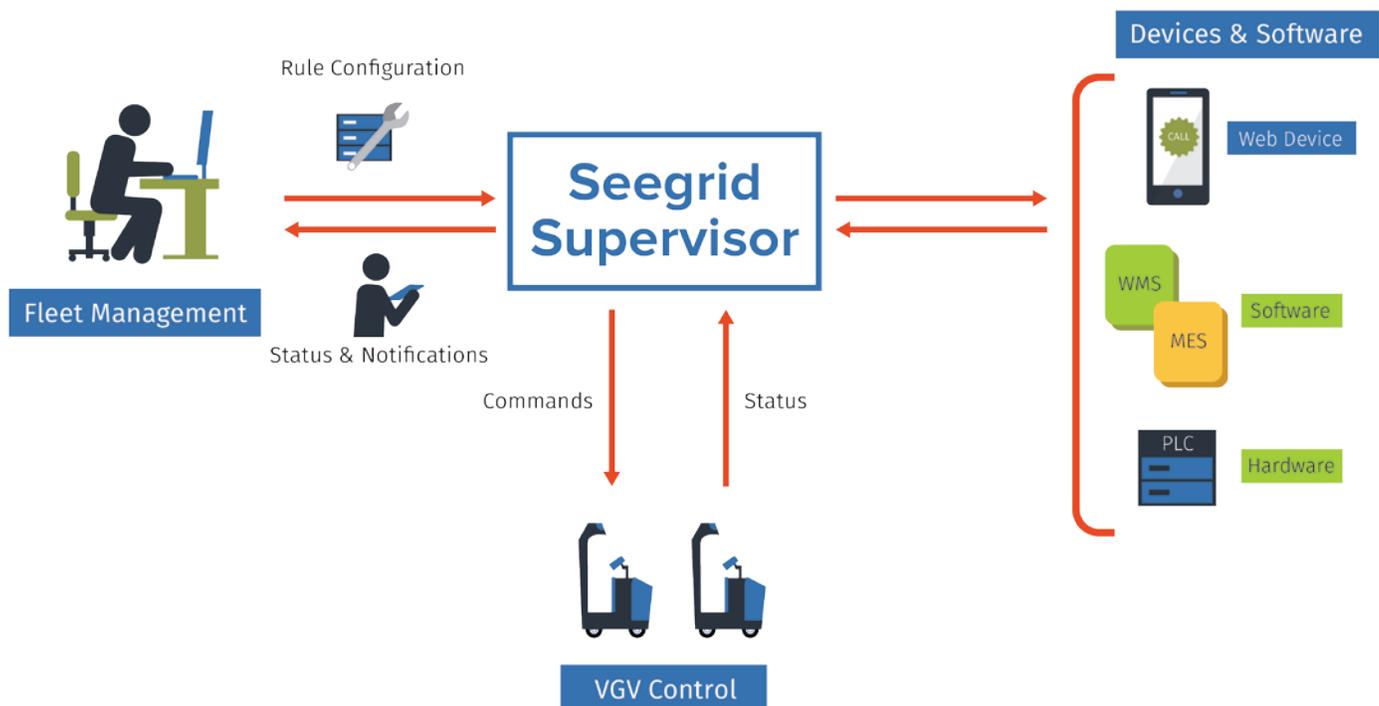
## Seegrid Supervisor Connect. Monitor. Control.

Guided by our philosophy of simplicity, affordability, and flexibility, Seegrid Supervisor connects, monitors, and controls vision guided vehicles (VGVs) within your operation. Seegrid Supervisor is a web application installed as a virtual machine, which communicates with VGVs over WiFi, and is configured through a local web browser. Three components provide visibility, control, and automation: Fleet Status, Intersection Manager, and Switchboard.

**Fleet Status** delivers real-time monitoring of your Seegrid VGVs, providing live status and vehicle locations so you always know exactly where they are transporting goods within your operation.

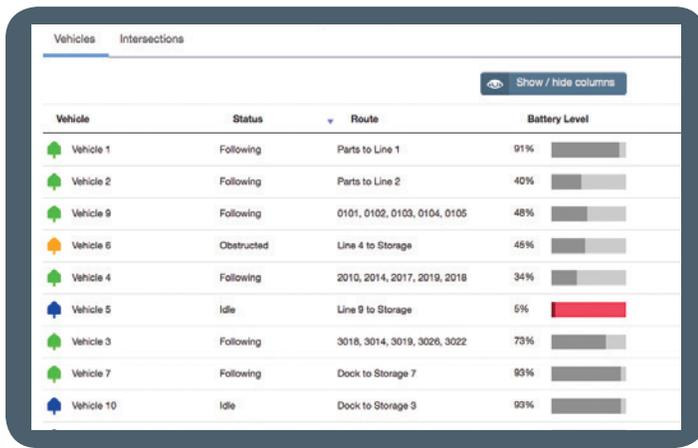
**Intersection Manager** acts as an automatic traffic cop for a fleet of Seegrid VGVs by receiving requests for access into common areas and granting or withholding access as traffic dictates, optimizing material flow and throughput.

**Switchboard** provides a powerful and simple set of configurable rules to customize notification policies and commands, integrate with external control devices or software systems (WMS/MES), and dispatch VGVs for material transport.

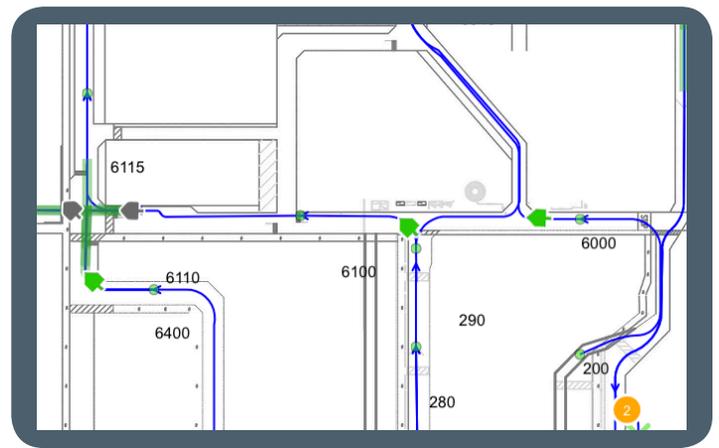


## Fleet Status

Fleet Status may be displayed in a grid view or graphically on an uploaded facility map. Management staff can monitor the fleet from their office, while facility team members watch status and locations on the manufacturing or distribution center floor. Fleet Status is accessible via a web browser on multiple devices, such as a desktop computer, laptop, tablet, or smart phone.



Vehicle	Status	Route	Battery Level
Vehicle 1	Following	Parts to Line 1	91%
Vehicle 2	Following	Parts to Line 2	40%
Vehicle 9	Following	0101, 0102, 0103, 0104, 0105	48%
Vehicle 6	Obstructed	Line 4 to Storage	45%
Vehicle 4	Following	2010, 2014, 2017, 2019, 2018	34%
Vehicle 5	Idle	Line 9 to Storage	5%
Vehicle 3	Following	3018, 3014, 3019, 3026, 3022	73%
Vehicle 7	Following	Dock to Storage 7	93%
Vehicle 10	Idle	Dock to Storage 3	93%



## Intersection Manager

Intersection Manager oversees VGV traffic for routes that are congested or restricted, such as intersections or areas that are too narrow for two-way traffic.

Intersection Manager grants access for VGVs to travel through the intersection based upon request order. If permission is granted, the VGV travels through the intersection. If permission is withheld, the VGV will pause until the intersection is clear and then will be granted permission to enter.

Policy rules can be programmed to allow efficient conveying of multiple VGVs through the same intersection traveling in the same direction.

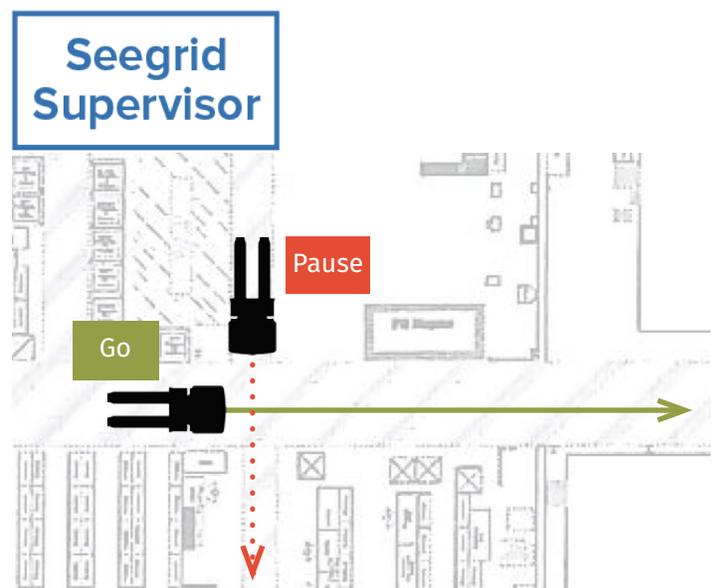


Diagram conceptually depicts the capability of Intersection Manager.

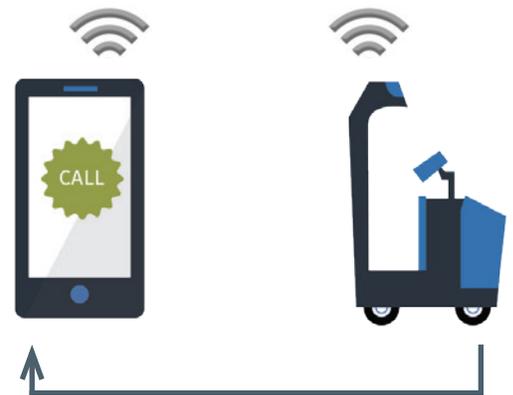
## Switchboard

Switchboard rules are simple and can be created with a web browser by your authorized personnel without engineering support.

### Rule Examples

- Notify** Send an email when the VGV completes its route.
- React** Send VGV to charging station when battery level is less than 20%.
- Integrate** Dispatch VGV to a specific station when a message is received from the WMS/MES.

Switchboard will require customization services to integrate with your WMS or MES system. Speak with your account representative for details.



**Call** Press a button to summon a VGV when work is ready.

## Requirements

- AC power for network appliance. 1U rack space.
- Internet access for remote support. The network appliance is equipped with VPN capability.
- WLAN network connectivity between the appliance and Seegrid VGVs.
- Network connectivity between the appliance and your systems or devices.
- Users will need a modern web browser connected to the same network as the appliance (Internet Explorer 9+, Chrome, Safari, Firefox).

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