



Tagpilot

Silverstroke

- Identify objects automatically
- Software-based planning, monitoring and optimization
- For production and logistics processes

Silverstroke

Verlässlichkeit aus Überzeugung

Application range for Tagpilot

You want to automatically identify and track objects. Because when you do your planning, you need reliable data and hard facts – not guesswork. Especially when the processes being measured are highly dynamic.

We developed Tagpilot to deliver **real values that depict the actual situation:** The software serves as a key interface that can read and analyze all data formats – so you have the freedom to choose GPS, barcodes, RFID or other Auto-ID technologies to capture data. Regardless of your sector or industry, you can use Tagpilot to obtain a virtual image of the real world in all its changeability. Any time. So what you see in your IT systems is exactly what is happening in reality – in your warehouse or factory, for example. Tagpilot does this by capturing data from any number of heterogeneous Auto-ID sources, placing them in the right context, making them available for use in the appropriate process and providing persistent data storage in the designated databases. In addition, Tagpilot transfers information to ERP systems and makes it available to users.

Tagpilot offers pre-configured solutions for

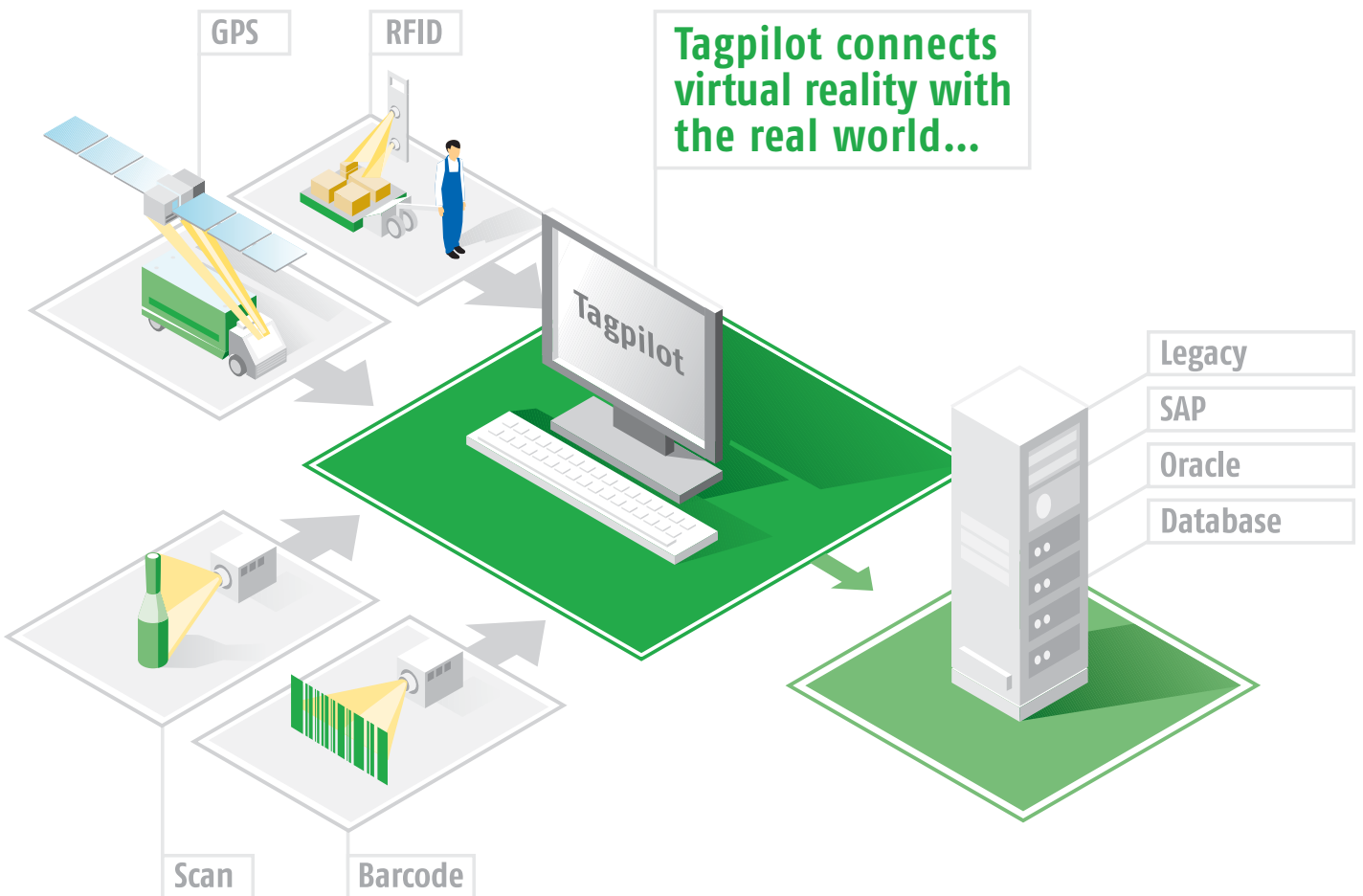
- Container management
- Vehicle management
- Asset management

Tagpilot can be utilized in a wide spectrum of industries, such as

- ◆ Automotive
- ◆ Aviation
- ◆ Chemistry and pharmaceuticals
- ◆ Transport and logistics
- ◆ All companies with discrete production sites

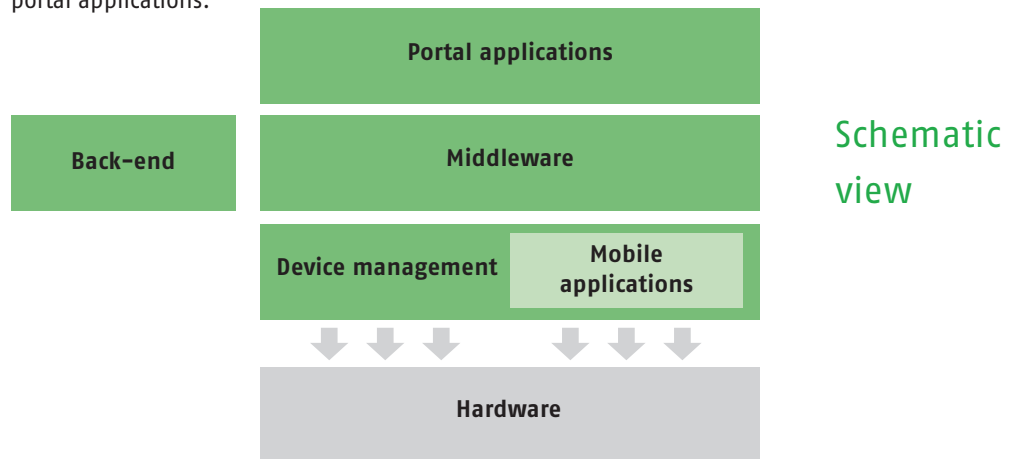
Benefits

Processes that are fast, run smoothly and generate high quality have one thing in common: they are transparent. And transparent processes are based on **measurable facts – which Tagpilot delivers.** Facts make the process plannable and controllable. This ability to plan makes automatization possible and prevents errors. And it saves you time and effort, not to mention money. You need less time, less space for materials and buffer stock, fewer reserve containers, vehicles, tools, etc. And there are other direct benefits. Tagpilot can be used to keep track of the history of each individual object, meaning that maintenance is carried out at precisely the required time – no earlier, no later. Every servicing, every inspection, every use is fully documented and verifiable. Production and other processes run with no delays, because all necessary production materials are in the right place at the right time. This is what we mean by transparency with Tagpilot. And this is what delivers the reliable quality that your customers will value as well.



The technology of Tagpilot

Thanks to its open plug-in concept, Tagpilot supports all Auto-ID technologies, and you can also operate a combination of different technologies. In terms of technology, Tagpilot is an Auto-ID solution that offers flexible device management, a workflow-oriented integration platform/middleware and portal applications.



About device management:

- ◆ Plug-ins are used to integrate a broad spectrum of Auto-ID data sources
- ◆ Many plug-ins are available for common Auto-ID hardware
- ◆ ALE interface
- ◆ Integration of MDE devices in Tagpilot data capture, including application logic on the MDE device
- ◆ Integration of Java-enabled mobile telephones in Tagpilot data capture, including application logic on the telephone

About middleware:

- ◆ Workflow-based processing of Auto-ID events
- ◆ Web-based, graphic drag-and-drop editor for creating workflows in UML format
- ◆ Integration of back-end systems with multiple pre-built adapters
- ◆ Open concept for creating workflow building blocks in Java
- ◆ Definition of rules for monitoring the sequence of object movements using the Tagpilot rule engine
- ◆ Definition of geofences and monitoring the GPS position of objects
- ◆ Object model that allows separate tag and object data, use of multiple tags per object and use of reusable tags

About portal applications:

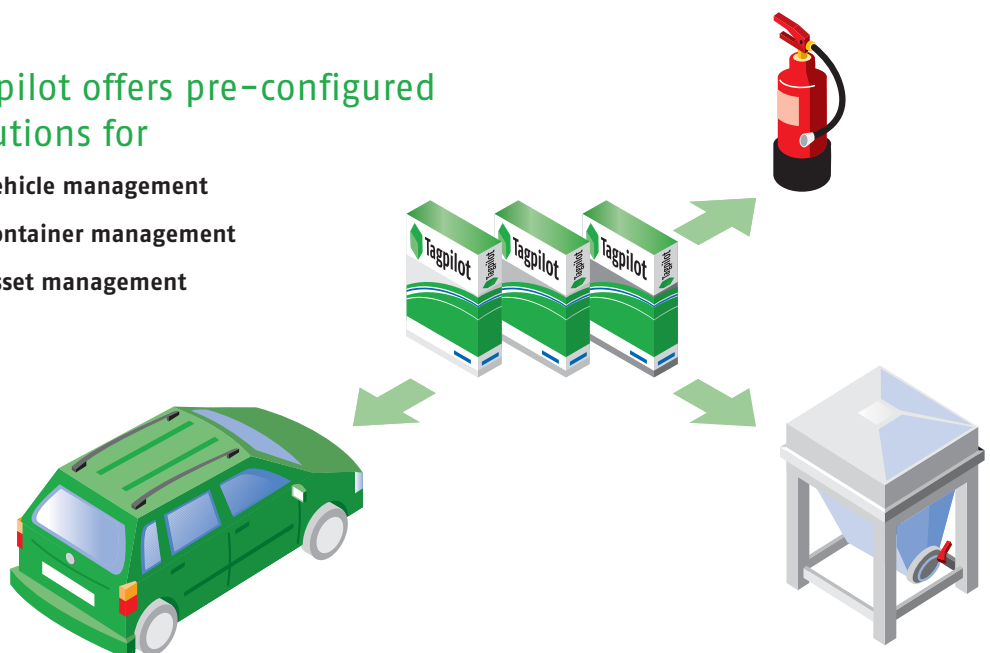
- ◆ Browser-based user interface for the visualization of object position within a certain area or in terms of coordinates
- ◆ System configuration
- ◆ Administration of users, groups and authorizations with extremely refined definition of user rights including connection to existing LDAP systems
- ◆ Preparation, visualization and analysis of indicators from the KPI module
- ◆ Monitoring and alerting components for processes and objects
- ◆ Simulation tool to simulate object movements
- ◆ System monitoring and analysis options
- ◆ Integration of Google Earth*
- ◆ (*For licensing information, please see <http://earth.google.com/>)
- ◆ Map editor
- ◆ Search function for objects

Partnerships with hardware manufactures, system integrators and consulting firms

Silverstroke AG maintains partnerships with hardware manufacturers, system integrators and consulting firms in order to offer the best system solution for each individual project.

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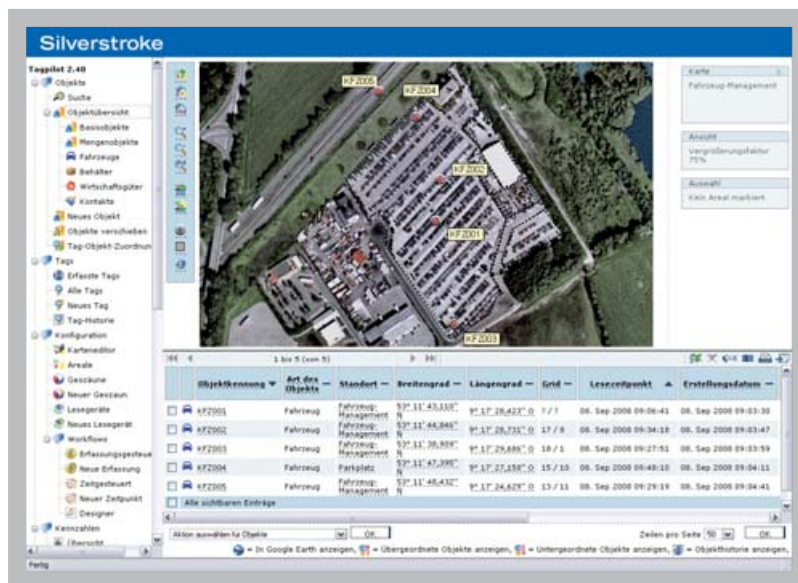
- ◆ **Vehicle management**
- ◆ **Container management**
- ◆ **Asset management**



Tagpilot features

Visualization of object positions with Tagpilot

Tagpilot has a web-based user interface that lets you search for objects. For visual representation, the software uses maps that are hierarchically organized and have a drill-down function. Tagpilot features a map editor to integrate such areal or regional maps into the system.



The searched-for position is displayed by Tagpilot in two ways: as a specific area ("The object is located in hall A") or as GPS coordinates ("The object is located at 48° 56' 58.00" N, 8° 24' 25.00" E") or a GPS position in Google Earth*.

*For licensing information, please see <http://earth.google.com/>

Key Performance Indicators

The indicators in the Tagpilot Cockpit give you a quick overview of all the relevant processes. Tagpilot makes it possible to configure indicators based on inventories ("Number of objects of category X in area A") and lead times ("Average lead time for objects of category X from area A to area B"). The integrated indicator assistant allows users to customize their indicators.

Tagpilot alerts

The user can set threshold values for every area defined in Tagpilot; these are automatically monitored. For details, please see "About portal applications".

Focus on processes with Tagpilot workflows

The cornerstone of the entire Tagpilot system is providing a precise image of customer-specific processes. Tagpilot makes it possible to graphically define existing business processes that consist of individual building blocks in Tagpilot Workflow Designer. The interface of the building blocks is open – which means there are almost no limits to the ways you can expand the function. Processes can be scheduled or event driven. For example, processes can be specially defined for object management use cases which are restricted to processing events captured by specific recording devices, to specific categories of objects or to individual objects.

Furthermore, Tagpilot simplifies the complex integration of existing back-office systems

Interfaces to these systems are easy to integrate into workflows, making an efficient interchange of data possible.

Tagpilot at a glance

Advantages of Tagpilot

- ◆ Platform and database independent
- ◆ The front end is completely web-based
- ◆ Alerts are delivered by e-mail and/or text message when threshold values are violated or there are hardware errors
- ◆ Open for all Auto-ID and positioning technologies
- ◆ Complete integration into existing back-end systems
- ◆ Flexible imaging of processes using integrated workflow engine
- ◆ Available software (install – configure – go)



- Can be used with all Auto-ID and positioning technologies
- Platform and database independent
- Front end is completely web-based
- Complete integration in existing back-end systems
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