



Tagpilot^{Silverstroke}



- Auto ID applications for Windows Mobile-based terminal devices
- Maximum flexibility: capture barcodes, data matrix, RFID tags and GPS positions

Silverstroke
Solutions you can rely on

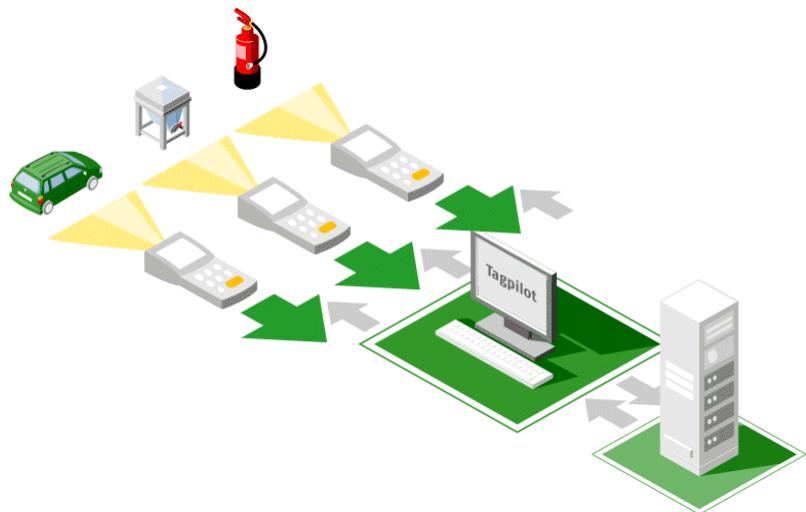
Mobile solutions which are mobile in every sense of the word

Tagpilot Mobile – preconfigured. And flexible. Just the way you want it.

Mobile solutions offer numerous advantages: The ability to capture data at any given location and transport it from there increases the degree of automation, avoids media discontinuity, prevents delays in transmitting results into back end systems and cuts down on sources of errors...

However, software for mobile solutions often leaves much to be desired in terms of mobility – because the software is not usually flexible. A specific type of MDE device will run with only one software in just one use case. But MDE devices are frequently used for asset management, where you have more than one use case, more than one type of device, more than one user, more than one language and more than one process. This means that a solution for mobile devices must be just as mobile – meaning flexible – as the device itself.

And this is why Silverstroke has enhanced our **Tagpilot** product with the **Tagpilot Mobile** module. Tagpilot Mobile is hardware independent in the sense that it can run on any Windows Mobile-compatible hardware. Preconfigured packages are available from Tagpilot Mobile for typical asset management processes. But even typical processes can change – and Tagpilot Mobile lets you stay flexible. It is based on a framework that strictly separates communication from application logic. This makes it easy for you to independently reconfigure your Tagpilot Mobile solution to suit your specific needs. As the same time, every solution can be operated on all Windows Mobile-compatible devices. Your solutions remain mobile in every sense of the word. You can even simulate use cases on the computer before you actually implement them. This protects your investments and gives you security in your planning.



Answering the right questions

Tagpilot Mobile gives you reliable answers to the typical questions involved in mobile processes:

- Identification: What is the (specific) object in question?
- Localization: Where is an object located?
- Collecting sensor data: What is the status of the object?
- Data acquisition: What additional information is available for this object?

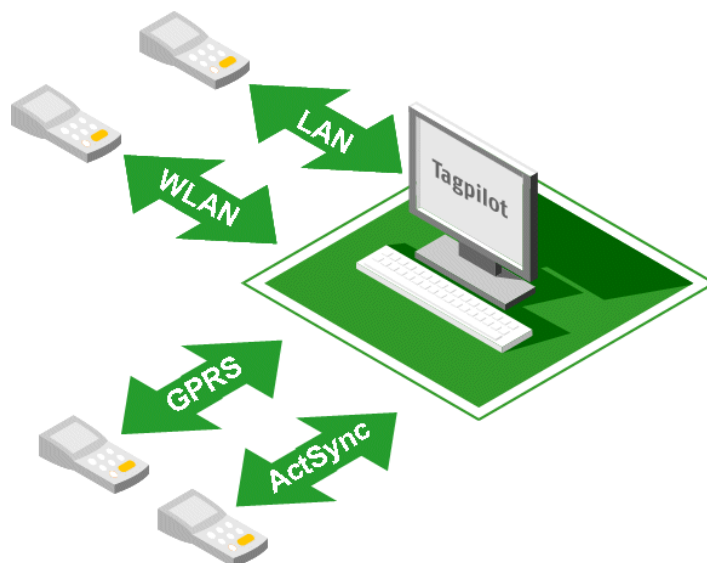
Auto ID technologies

Mobile hardware captures information on objects and positions using different Auto ID technologies. This is why Tagpilot Mobile supports:

- Barcode capture
- Dotcode capture
- Reading and writing of active or passive RFID tags
- Acquisition of GPS information
- Saving large amounts of data using the contact memory button
- Camera scan
- Recognition of biometric data

Communication between terminal device and middleware

The core application of Tagpilot Mobile is the detection of decentrally accruing information and the transfer of this data to Tagpilot, which serves as the central processing entity. Because the mobile terminals and the Tagpilot middleware communicate using the http or https standard protocols, this communication is universally applicable and transparent for firewalls. For the transport layer, LAN, WLAN, GPRS or ActiveSync can be used.



Online and offline capabilities

Sometimes it is not possible to operate mobile terminals online, i.e. with a direct link to the Tagpilot server, because high communications costs (e.g. GPRS connection) or complex installations (e.g. WLAN infrastructure) make it inexpedient. On the other hand, many use cases require an online connection to the server, for example when entries have to be communicated directly to the back end systems via the middleware with no time lag. Or when additional information is required that must be constantly up to date. Tagpilot Mobile makes both online and offline operation possible, each according to use case and infrastructure. And it goes a step further. Tagpilot Mobile is able to independently recognize whether or not the mobile device is capable of functioning online, for example automatically when entering a WLAN area, by scheduled automatic dial-up with GPRS or when the device is placed in the cradle. No special action is required on the part of the user.

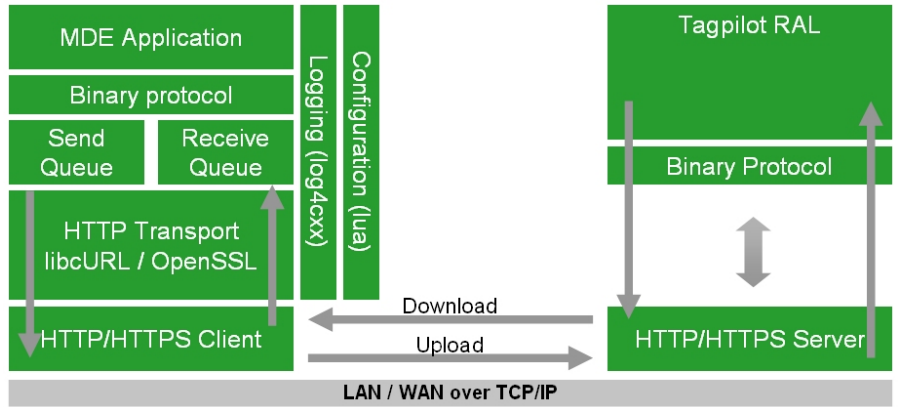
The keys to success: flexibility and time to market

To achieve maximum flexibility, Tagpilot Mobile is based on a framework with strict separation between communication and application logic. Applications are created using the LUA configuration language and the XML descriptive markup language. A variety of different preconfigured functional building blocks are available and can be freely combined.

- Tag capturing, e.g. with barcode, dotcode or RFID tag
- Location capturing, e.g. with GPS, dotcode, barcode or RFID tag
- Transmission of results to the server, e.g. delivery of location entries to the server
- Creation of forms for querying additional information, e.g. for recording maintenance data

Thanks to this flexible framework, implementation time is kept short and changes in processes are very inexpensive. Tagpilot Mobile is also highly suitable for rapid prototyping. You can document the findings that are established in workshops directly in mobile applications, allowing you to use them as a basis for project decisions.

Would you like to use new hardware to capture data? As you might think, Tagpilot Mobile makes it easy. New data acquisition hardware such as new RFID readers or GRP receivers are connected in plug-in form, i.e. they can be plugged into the mobile solution just like a printer driver.



Tagpilot asset management

Tagpilot asset management uses Tagpilot Mobile as a framework to implement the following use cases:

- Wedding of objects and tags
- Tag initialization
- Logging the location of tags
- Recording of maintenance intervals and information
- Indoor and outdoor mobile inventory
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All decentrally captured data and implemented actions are managed by Tagpilot asset management and transferred to back end systems when needed.

Tagpilot Mobile. Mobile in every sense of the word.

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