# ITAGSYS – Intelligent Tag System

## – a reseller-system for the handling of unique and dynamic codes and tags

**ITAGSYS supports optimising BIG DATA and processing via expanded digital and mobile flows in management, maintenance, service and quality management**

**For example**

- Service and maintenance (Urgent and planned)
- Operating overview including status-, time- and resource-management
- Error messages
- Instruction and training
- Certification / calibration of instruments and installations
- Conditional access and other activation
- Shipping Management and Logistics
- Serialisation and aggregation

**For integrators and programmers**
On https://qr3.dk features and APIs are documented.
Use "Sign up" for a free account to evaluate the system

### Brief description of requirements and features

- API for integrating ITAGSYS in CAFM, ERP, CMS, CRM and similar.
- By scanning, ITAGSYS is queried and from there redirected to URL
- Via ITAGSYS, the redirect url can be dynamically changed
- Via ITAGSYS, a scan can trigger "webhook" to activate systems and installations (alarm, door)
- Tags contain domain name and a 'Global Unique IDentifier' (GUID)
- Tags can still be used after replacing a backend-system. This results in a good exit strategy.
- "Unused" tags can be activated with the desired link / data call and replace defective QR code or only later be activated with the associated URL
- "Unused" tags can be packaged as a png file and transferred to labels
- Possibility to host the solution on your own server

ITAGSYS is a good solution when it is required that a tag should be scanned in an offline app and via the scanner in a smartphone / tablet (http / https-call).
It is a necessary option, where operating employees have apps, while ordinary users report errors without downloading an app.

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**ITAGSYS**
INTELLIGENT TAG SYSTEM

# Recommendations for professional usage of QR codes and tags

| Functional requirements for professional usage of QR codes and tags | Advantages | Consequences of ignoring |
|---|---|---|
| **The customers focus on the level of difficulty when switching systems** | It's possible to switch to a new system without changing codes or tags | If QR codes and tags are created with static content, it requires a great effort to replace them |
| **The possibility to dynamically change the function of a QR code or tag** | The option of changing the functionality of a QR code or tag based on external events | If a QR code or tag contains static information, it must be replaced for any changes to take effect |
| **Possibility to link the same tag to different independent systems** | When a tag links to ITAGSYS, it will direct the person to one of several systems, depending on the persons role and rights | If tags contain absolute and static information (URL), there will have to be a tag for each purpose |
| **Performance: Speed and usage under poor light conditions** (Compare codes further down this page) | Because of the reduced amount of characters in dynamic tags, they are faster and more easily read | If tags have to many characters, you have to make them bigger in size |
| **A tag should be read from native apps and from default scanner in the smartphone** | Tags with an URL and a GUID can be read off- and online | Without both an URL and a GUID a tag will be less flexible |
| **Possibility to create flexible amounts of "active" or "unused" tags** | You can choose to place the tag on an object before or after it is entered into the system | There will no longer be a need for a label-printer |
| **"Unused" tags can on location be activated and get a link attached** | It is easier to administrate and control if you can choose a default tag label and activate it on location | |
| **"Unused" tag can be downloaded as png-files and transferred to labels** | Sub-delivers/contractors can receive png-file and tag products before delivery  It's easy to replace a defect tag  "Unused" tags can be produced in higher quality and therefore easier to scan | |
| **Possibility to log activity** | You have access to usage data in regards to when a QR code tag was used | |
| **Possibility for realtime action (webhooks)** | By use of webhooks it is possible to activate a camera, doors, turn on installations etc. | |
| **Possibility to ensure unique tags** | By use of GUID (Global Unique Identifier) it is ensured, that a tag is unique | In some apps only the ID is read. If different URLs but identical ID's occur, it will be critical |
| **Attachment of metadata and notes for each tag** | Access to metadata and notes optimises search and administration | |

**Test the readability of a static versus a dynamic QR code**