TLJ access control
Part of the TLJ Group

# Qcloud

access managment

# it's time for cloud

Like many industries, the power of the cloud has offered a multitude of enhancements in both functionality and security, access control is no different. Traditional 'on premise' solutions are rapidly being migrated to the cloud.

Hosted database
We all know the importance of our data, and the catastrophic failures which would occur should the database corrupt. The ability to operate and secure a buiilding wihtout the structural components that make up an access control system, i.e. full building door ID's, is heavily reliant on a database. A local database would require regular maintenance and also would be required to be constantly turned on.

Always Secure
Qcloud boasts always-on security protection via anti-virus, firewall and malware defence. No local security software to regularly update. All data transferred to and from Qcloud is end to end encypted.

# "working together is working better"

### Integrations
Utilising the TLJ API, 3rd party software can integrate with Qcloud to issue, revoke and amend both RFID keys and Mobile Keys. Additional features include obtaining the status of a key, understanding whether a key has been used (where and when) or even if a key has been retrieved to a smartphone.
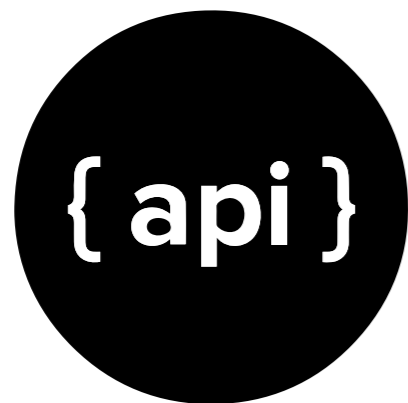
### Customisation
TLJ provide an SDK to app developers, allowing TLJ locks and hardware to be operated by your own app, or a 3rd party middleware application. TLJ can also offer a white-labelled version of the native TLJ app.
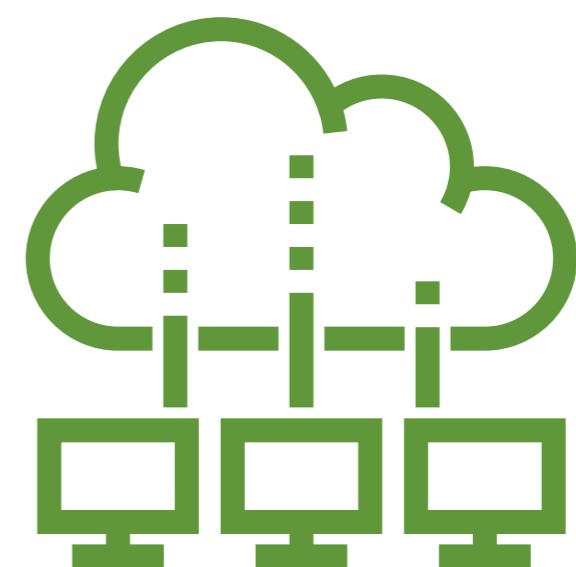
### Always up to date
Never worry about having the latest bug fixes or security patches. Stop fearing the "end of life" letter.

{ api }

Application Programming Interface (API) allows 3rd party software to communicate directly to Qcloud. This allows RFID credentials or Mobile Keys to be created and revoked in a different platform. A popular use case here is for a buildings' PMS (property management system) to create a key for a resident or guest, The PMS already stores the required date; name, email, arrival/start date/time, expiry/check out date/time and finally which room/apartment they will stay.

API integrations to Qcloud allow for quicker operations and avoid human error of mis-typing as being copied from PMS to Qcloud front end client. Key creation could also be performed as a batch or even totally automated. For example, a holiday resort which has a mixture of cottages/lodges/hotel rooms/apartments with guests turn overs every day of the week. Automation could enquire today's arrival from the PMS at 10am every day, collecting the aforementioned fields and create digital Mobile Keys in the background for all arriving guests. Guest would be informed of a self check-in, skip the ques procedure and as they use their Mobile Key to access their accommodation this time stamp is sent back to Qcloud, whom in tern updates the PMS, marking the guest as "arrived". Guests not arrived by 6pm for example could be sent a polite email or SMS asking if they needed some assitance with directions, again all automated.

The API generates multiple verticals & mass markets the flexibility to truely 'work smart not hard'. Other use cases:

- Issue all of tomorrows key cards
- Ammend a digital key if a guest upgrades
- Add car parking to an exist key as a resident has recently purchase a car
- Create a key for an ammenity door as the resident has booked the class
- Gymnasium insurance waiver signed, add gym door lock to digital key
- Delete all keys for apartment 101 as the resident has moved out
  & more & more & more.....

Software Development Kit (SDK) allows TLJ Mobile Keys™ to be used within your own app environment. TLJ door lccks and readers can essentially be locked or unlocked as well as their current status, i.e. current battery life & whether the privacy lock is applied or not via a 3rd party app, both Android & Apple.

The TLJ native app is not always the best solution for building or park operators, residents may have some resistance to downloading an app from a B2B brand that frankley they have never heard of before. In addition the TLJ native app has only the functionality of using a Mobile Key, it is likely that operators would require other functionality in their app, such as park maps, parcel notifications, booking ammenities, checking & paying rent arrears etc.

All new app builds which use the TLJ SDK are subject to a TLJ approval process, with bare minimum requirements which would need to be upheld, e.g. checking if the TLJ Mobile Key is still valid and the operator hasn't revoked it, e.g. upload open records and low battery warnings to the TLJ server. TLJ takes pride in the technology foundations which props up the TLJ Mobile Keys™ eco-system, with almost zero downtime, and thus all 3rd party apps are certificated and checked in house to ensure they would provide the same reliability, security and convenience that end users have come to expect with TLJ Mobile Keys™.
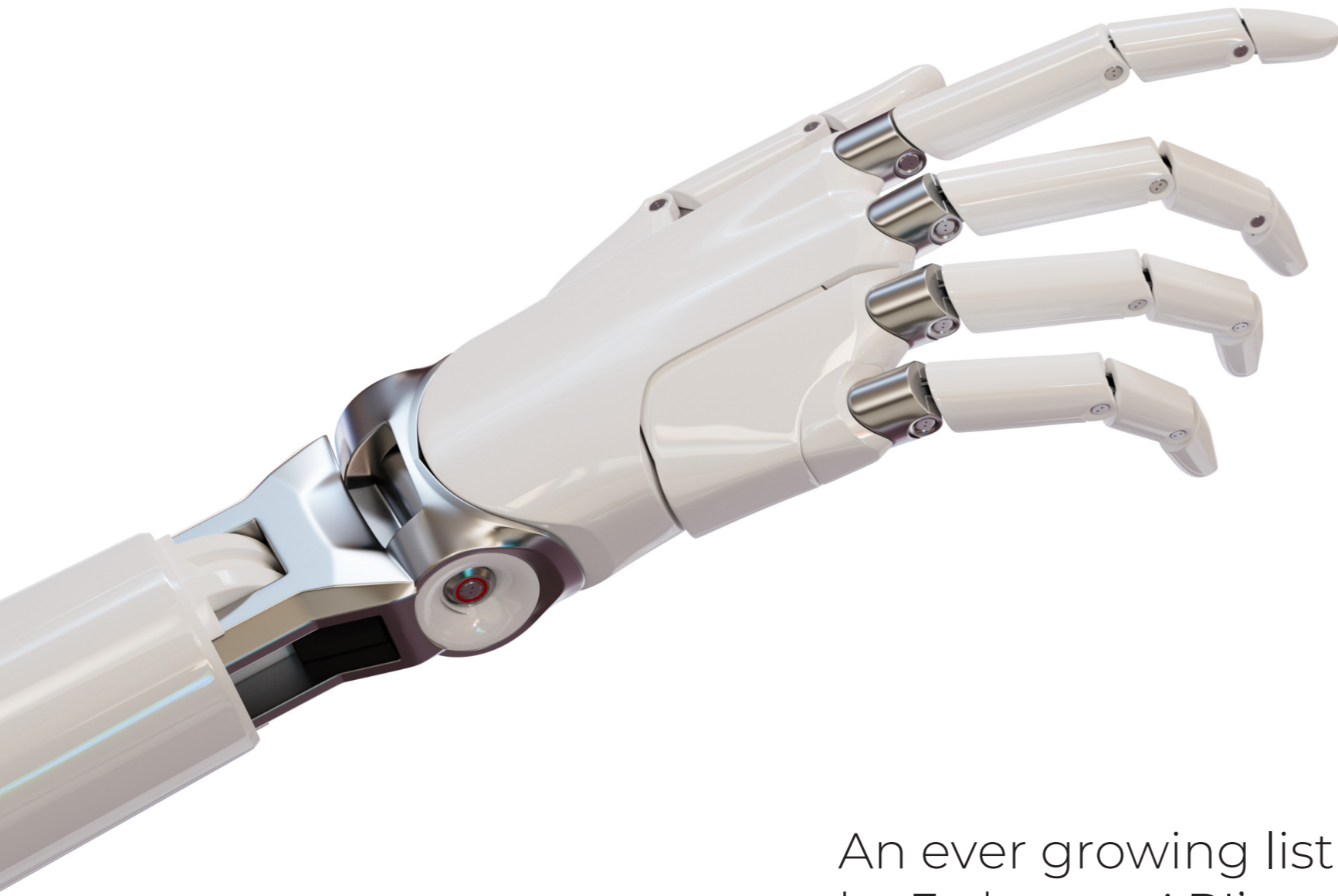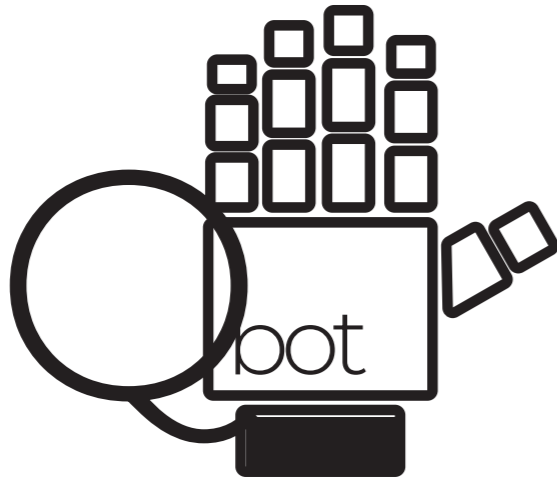
An ever growing list of 3rd party integrations, made possible by 3rd party API's and scheduled exports. Qbot by TLJ is your middleware servant in many ways, performing all the heavy lifting so you don't have to.

Key functionality:

- Automated processing of TLJ Mobile Keys™
- Utilising property management system single data source
- Executed on 1000's of different schedule options
- 2 Modes - 'Batch Issue' or 'Differences from Previous'
- TLJ Hands Free compatible
- Cloud hosted & FTP import
- CSV & XLSX import file formats
- Post run reporting via email (all or only erroneous)

Completely included with a Qcloud subscription, no additional costs to utlise Qbot. It runs from your Qcloud environment and thus limits the outbound external traffic making it extremely secure.
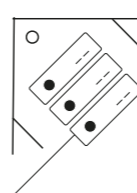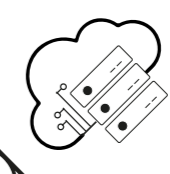
# Technology Platforms

TLJ hardware can be controlled via two different operating platforms in Qlite & Qcloud. The fundamental differences between them is the fact Qlite is an on premise solution compared to Qcloud which is a hosted database from a high security data centre.

A corrupt local database or a randsomware attack have been a growing part of disaster recovery strategies for years, but due to the increasingly vast internet speeds and global demand, hosted databases are the 'new normal', boasting enterprise grade security & automated incremental backups.

# Compare

| | Qlite | Qcloud |
|---|---|---|
| TLJ Mobile Keys™ | ● | ● |
| HandsFree TLJ Mobile Keys™ | ● | ● |
| RFID credentials | ● | ● |
| Batch key issuing | ● | ● |
| Local on-premise database | ● | |
| In-house IT dep required to maintain | ● | |
| Physical IT infrastructure required | ● | |
| Unlimited doors | ● | |
| Fixed monthly payment plan | ● | ● |
| Inclusive Prime Service Plan* | ● | ● |
| Inclusive software updates | | ● |
| Cloud Hosted database | | ● |
| API for 3rd party integrations | | ● |
| Automatically backed up | | ● |
| SDK for own app development | | ● |
| Qbot included | | ● |
| Mobile Keys hosting included | | ● |
| Option to enable "Share mobile key"* | | ● |
| Virtual Intercom | | ● |
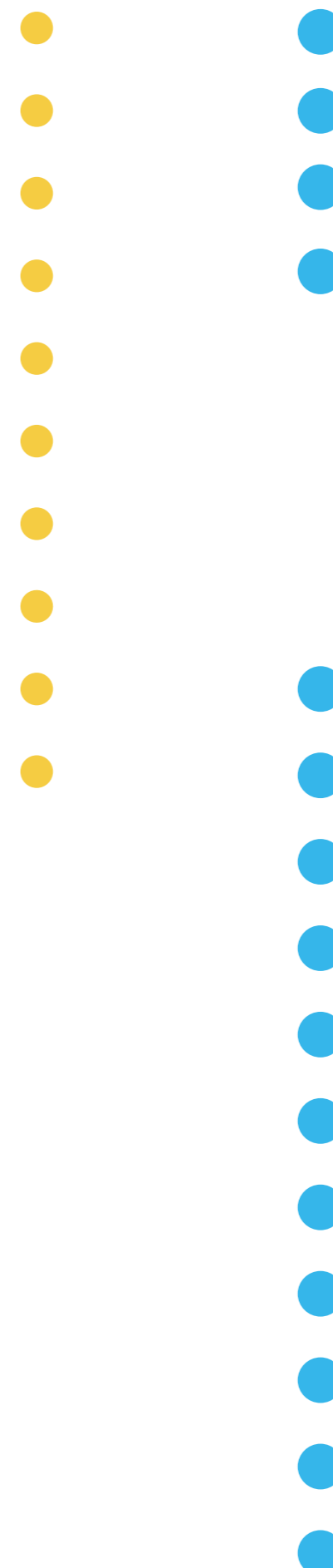
*Where operator allows

more than a lock.

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