About QR2id®

Enhancing Safety and Security

QR2id provides a low cost, convenient, flexible and context sensitive method of credential verification, property marking, location identification, and much more.

At its core, the QR2id service generates globally unique QR2id Codes that can be applied to almost anything. When one of these QR2id Codes is scanned with any of the standard QR Code Scanning applications available for Smart Phones, iPads and similar devices, a secure connection to the QR2id servers is initiated and the applicable handling protocols initiated.

There are several options for the way credential verification can be handled by QR2id:

- QR2id simply redirects the call with applicable parameters to servers maintained by the client or a third party, which then display appropriate information in accordance with requirements;

- All applicable data is stored on the QR2id Servers and the QR2id Service presents a 'mobile-friendly' web-page on which the required information is displayed in accordance with client requirements;

- QR2id initiates a dynamic call to external servers to retrieve data applicable to the scanned QR2id Code and the QR2id Service then presents a 'mobile-friendly' web-page on which the required information is displayed in accordance with client requirements;

- or a combination of the above methods.

It is reasonable to ask why anyone would use QR2id for a fully redirected call... the answer is quite simply convenience and flexibility. If anything changes in the future or there is a disruption to the 3rd party servers, the way QR2id handles those codes can be quickly changed at any time.

Amtac has developed several 'connectors' that facilitate electronic data interchange with external systems. In the case of USQ, connectors from both the HR and Student systems update data on a scheduled basis. Amtac's SecWeb application is used to take/upload staff and student photos and manage Cardholder records. Connectors to the university's Cardax/Gallagher access control system and Card Exchange ID card printing software provide these otherwise disparate applications access to data, photos and QR2id Codes generated for each ID Card produced.

QR2id is not intended to replace existing systems. It leverages data to extend risk management options.
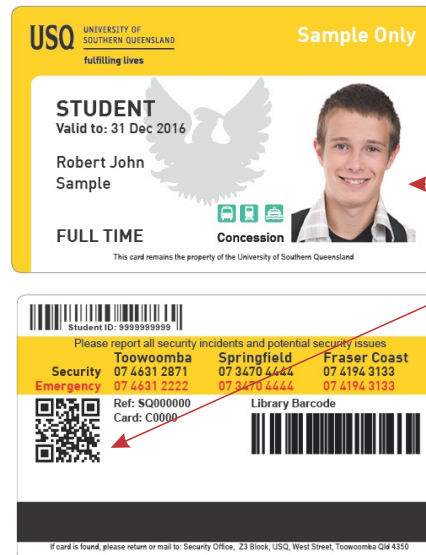
ID Card Examples

Original Card

Photo as printed on the card and current status of the student are displayed when the QR2id Code is scanned
(i.e. it is immediately possible to determine if the photo has been substituted or if the student is no longer enrolled)
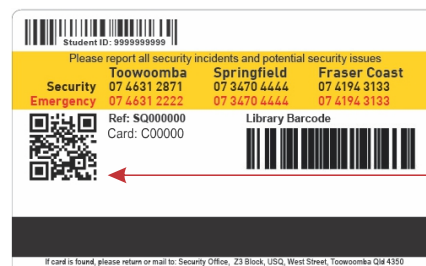
Scan QR2id Code or see https://QR2id.net/?X@HMYL86VHM4EE

Forged Card

Photo substituted

Original printed elements retained

Scan QR2id Code or see https://QR2id.net/?X@HMYL86VHM4EE

Lost Card

Unique QR2id Code per card

Scan QR2id Code or see https://QR2id.net/?X@KPP3AYA7CBFF

"USQ's core values of 'excellence, innovation and creativity' are reflected in the new ID Cards, which quite simply make life easier for staff, students and security personnel."

KEY POINTS

Requirement
New photo identification card for Staff, Students and Contractors, capable of working with existing systems and future applications.

Considerations
- 'One-Card' solution
- Convenient validation of card/cardholder status by authorised personnel
- On- and off-line applications
- Legacy system compatibility
- Anti-fraud/cloning features

Printed Elements
- Cardholder designation
- Name (preferences allowed)
- Photo (Cardholder's choice)
- 1-D Barcodes (IDs/Library)
- Card/Cardholder identifiers
- QR2id® 2-D Barcode photo & status validation)

Encoded Elements
- Legacy access control systems *(Magnetic Stripe)*
- Security/Card management *(Mifare/Card integrity validation)*
- Cardax/Gallagher proximity access control *(Mifare enhanced security)*
- Netcard printing management *(Mifare encrypted)*
- Library check-out *(Mifare/Card integrity validation)*
- Misc. unique identifiers *(future Mifare applications)*

CLIENT PROFILE

University of Southern Queensland

Campuses: Toowoomba, Springfield, Fraser Coast, Stanthorpe
Students: 24,000+
Staff: 2,000+
Website: www.usq.edu.au

University of Southern Queensland Staff and Student ID Cards

Following a comprehensive review of security and infrastructure, USQ initiated a new, organisation wide, photo identity card for staff and students.

The primary purpose of the new ID Card was to enable positive identification of USQ staff and students, as required to support the University's daily business. In addition, the new ID Cards needed to:

- Promote a positive perception of USQ through a high-quality ID Card that is consistent across all USQ campuses;
- Facilitate access to authorised areas and use of existing facilities;
- Validate the status/designation of the Cardholder, including concession entitlements (as applicable); and
- Support future functionality through printed elements and encoded technology.

Enhanced Security

Like many other staff and student cards, the new USQ ID Card includes a printed photo of the Cardholder, Staff/Student ID numbers, and an expiry date.

However, the USQ ID Cards also include a number of anti-fraud/forgery features that increase the likelihood that a "cloned" or forged card will be reliably identified, and which also support routine operational requirements to confirm the current standing of the bearer of the card.

One of these features is a QR2id Code printed on the back of the card. QR (or "Quick Response") Codes are being used in many applications, but in essence they are a 2-D barcode that contains data that can be decoded by 'Apps' that are readily available for iPhones, iPads and most Smart Phones and tablet computers. QR2id is a registered trademark associated with Amtac's specialised application of QR2id Codes for ID verification, context sensitive property marking and location identification (QR2id.com).
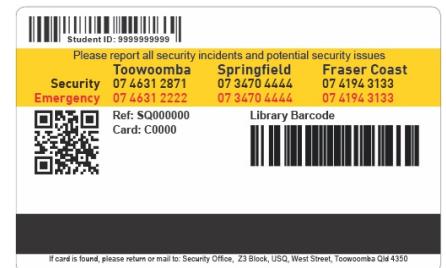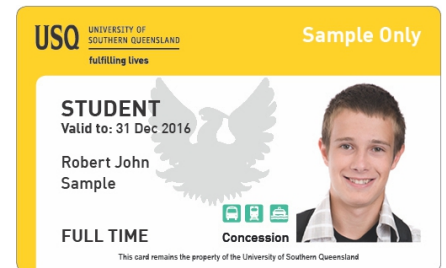
When the QR2id Code on a USQ ID Card is scanned, the photo of the Cardholder (as it was originally printed on the Card) is displayed in a 'mobile friendly' web page, along with other applicable details relating to the Cardholder (scan the QR2id Code on the card above or visit the following link: https://QR2id.net/?X@HMYL86VHM4EE).

With QR2id, authorised personnel can easily validate an ID Card in almost any location. For example, USQ ID Cards are validated with QR2id when students attend examinations. Forged ID Cards bearing the photo of a 'paid exam taker' can be quickly identified. Because QR2id works on mobile devices, scanning can be done during the examination in a quick, non-invasive, and non-disruptive manner.

Contactless Smart Card features in the USQ ID cards also make it possible to detect electronically cloned cards, and to prevent those cards being used for electronic access or library purposes.

To discuss specific ID Card security options, email amtac@amtac.net.