Access control
run by your software

How a scan becomes an open gate

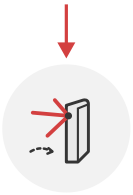
01
A member scans
Card, fob, QR code or wallet pass at any standard reader, including your own hardware.

02
DeltaQuest relays it
It sends the reader ID and credential string. It holds no member data.

03
Integration layer
Your own module or the Nortech DeltaQuest Hub, running on site.

04
Your platform
Your API or CRM checks the member and what they can enter here.

05
The gate opens
DeltaQuest fires the relay for the door, gate or turnstile.



The integration layer

DeltaQuest communicates locally over TCP/IP or USB with the integration layer. This can be a module built into your own software or the Nortech DeltaQuest Hub. With the Hub, the Hub calls your API and sends the resulting command back to DeltaQuest.

How DeltaQuest compares

	Traditional access control (Paxton, salto, GALLAGHER)	CRM-specific access control (ASHBOURNE, xplor resamania)	DeltaQuest
Member data	Synced into the access system's own database, so you keep two copies in step	Held in the vendor's own membership software	Stays only in your platform. No user database to push to or pull from
Decisions	Made by the access system from its copy of your data	Made by the vendor's software, for its own members only	Made live by your API on every scan, using your own rules
Software choice	Each platform builds and maintains an integration per brand	Tied to one vendor. Changing software usually means replacing access control	Around 30 platforms already integrated. Operators keep the hardware if they switch
Tap events	A separate listener or event feed to build and maintain	Built in, but only inside the vendor's own system	Every tap already reaches your API, so sign-in and sign-out need nothing extra

32
access points per host connection

30
software platforms already integrated

64
characters max via RS232 or RS485

TCP/IP
or USB serial to the host

1992
designed and built in Cwmbran since

Two ways to integrate

ROUTE 1

Build your own integration layer

You build the integration layer into your platform using the DeltaQuest command protocol.

built by you

Best for	Teams that want to own the access layer end to end
Who builds	Your team, with our protocol docs and engineering support
Runs on	Your software, on a site PC or your own on-site service
Cost	No integration charge. The operator buys the hardware once, with no licence.

ROUTE 2

Let Nortech provide the DeltaQuest Hub

Nortech builds and supports a Hub that speaks DeltaQuest on one side and your API on the other.

built by Nortech

Best for	Platforms with a membership API that would rather not write access control code
Who builds	Nortech, against your API and sandbox. We write, test and support it.
Runs on	Windows, Linux, an embedded PC or a Raspberry Pi, supplied pre-configured
Cost	Annual licence per controller, paid by the operator. No charge to you.

Switch routes later

Same controllers and readers on both. An operator can start on the Hub and move to a direct build without touching site hardware.

Sell it under your own brand (OEM)

We make it and you sell it as yours, with your brand on the box, as part of a complete package. Ask us about OEM supply.

HUB ROUTE

Getting your first site live

1. **Agree the API**
   One technical call. You share your endpoint and sandbox details, and we confirm the request and response shape.
2. **Build and test**
   Nortech builds the Hub against your sandbox and tests it with your team. Around a week of development once scheduled.
3. **Go live and roll out**
   The first site is set up remotely with the operator. Later sites follow the same process.

EXISTING SITES

Sites already running CRC400s

No new controllers
CRC400 uses the same host protocol as DeltaQuest, so the Hub connects to what is already installed.

No engineer visit
We configure the Hub over a remote session and test it with the operator, unless something physical needs changing.

Any site layout
One Hub runs several controllers over TCP/IP or USB serial. Separate buildings can run their own Hub into the same endpoint.

Off the reception PC
Runs on Windows, Linux, an embedded PC or a Raspberry Pi, so reboots and COM-port clashes stop breaking access.

For your technical lead

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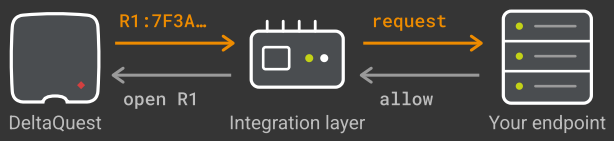
How the integration works

Deltaquest Integration Guide
For Software Partners
REF NTC-DQ-INT-2026

What gets sent



Request to your endpoint

`reader`	`R1`	which reader was scanned
`credential`	`7F3A…`	string read from the reader
`site`	`LOC-0042`	your ID for the venue
`timestamp`		when the scan happened

Response from your endpoint

`result` `allow or deny`

Optional extras can be agreed, such as a reason code. Nothing else opens the gate.

Credential rules

64 — **Up to 64 characters**
For readers connected via RS232 or RS485. In most integrations, credentials are 32 characters or fewer.

CRM — **Your platform sets QR expiry**
Your CRM or app generates dynamic QR codes and sets their expiry, such as 10, 30 or 60 seconds. DeltaQuest just reads the code and passes it on like any other credential.

QR+ — **QR prefix**
Let your platform identify QR credentials by generating codes as QR followed by the credential.

What we need to build your Hub

- **Base URL** — Of your access endpoint, per site or per customer instance
- **Location or site ID** — The one your platform uses, so each scan arrives tagged with the right venue
- **Client ID and secret** — Or your preferred auth, issued at venue level
- **Request and response format** — Usually a thin wrapper around your existing access logic. We review it together first.
- **A sandbox** — With test members, so every path is checked before the first site
- **Reader-to-door map** — For each site, which readers open which gate and whether each is entry or exit

Questions software teams ask

Do we host anything for Nortech?
No. Nortech runs no cloud. The Hub sits at the venue and calls your API, so your platform stays the system of record.

Where does the reader-to-gate mapping live?
In the Hub config for each site. Your platform answers allow or deny and the Hub fires the right relay. It can send you the map whenever it changes, so both systems stay in step.

Our platform has no entry or exit concept. Is that a problem?
No. The Hub can hold which readers are entry and which are exit for each site, so you don't need to add it first.

What happens if the connection drops?
DeltaQuest has an offline mode. By default members are let through while the link is down, and this is agreed per site at setup.

Which readers and turnstiles can we use?
Any reader with a Wiegand, Clock & Data, RS232 or RS485 output, including QR, face and ANPR readers and ones you make yourself. Any relay-driven door, turnstile or barrier works too.

Is this only for gyms and leisure?
No. The same setup runs behind sports club, spa, hotel and holiday-park platforms, and staff and visitor doors work the same way as gates.

TERMS WE USE

- **Reader (R1)** — The scanner a member used, sent as R1, R2 and so on
- **Relay** — The output DeltaQuest switches to open a door, gate or barrier
- **Integration layer** — The software between DeltaQuest and your API
- **DeltaQuest Hub** — Nortech's version of that layer, built for your API
- **OEM** — We make the controller and you sell it under your brand

Talk to an Engineer

Sign our NDA and we'll send the protocol pack and a test controller, or scope a Hub against your API docs. We can also help line up pilot sites for your beta.

Amer Hafiz, Technical Director
+44 (0) 1633 485533,
info@nortechcontrol.com,
nortechcontrol.com

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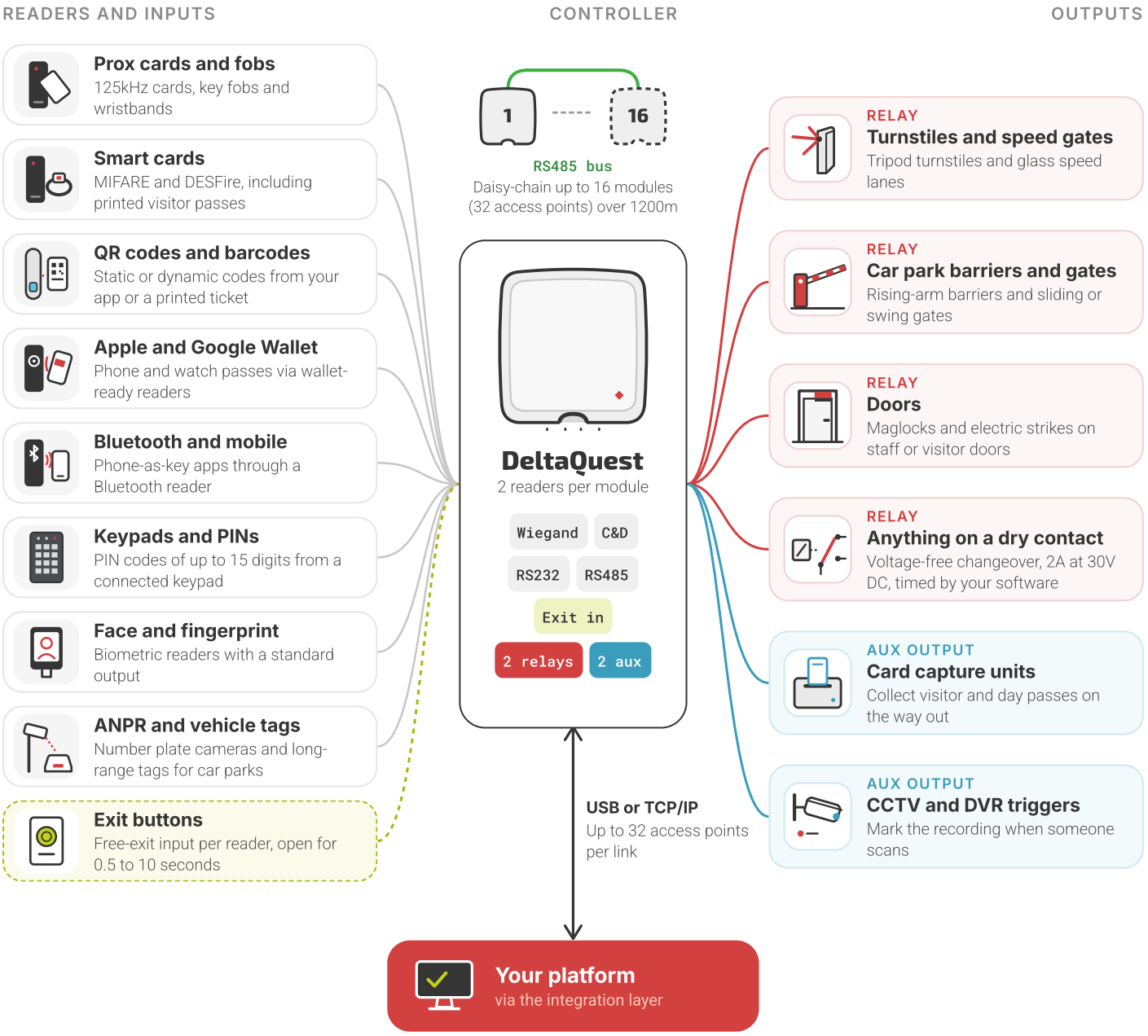
What connects to DeltaQuest

If a reader outputs Wiegand, Clock & Data, RS232 or RS485, it connects. Each output is a relay your software fires, so the same API call can open a turnstile on one site and a car park barrier on the next.



One site, mixed hardware

An example leisure site on a single controller network

Main entrance
QR and wallet readers
on glass speed gates

Staff areas
Keypads and cards
on maglocked doors

Pool and spa
Smart wristbands
on a tripod turnstile

Car park
ANPR camera
on a rising-arm barrier

100m
Wiegand or Clock & Data reader cable

25m
RS232 reader cable

1200m
RS485 run between modules

12V / 5V
Reader power supplied by the module

Nortech supplies its own readers and Nedap readers, and many third-party readers with these outputs also connect. Specifications from DeltaQuest data sheet DS0905-03.