

VTAP

VTAP Cloud Integration User Guide

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DOT ORIGIN

If you need help to set up or use a VTAP Cloud Integration, beyond what is contained in this User Guide, then please contact our support team.

Email: vtap-support@dotorigin.com

Download the latest documentation and firmware from <https://vtapnfc.com>

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If you have any feedback on setting up or using a VTAP Cloud Integration or this documentation, then please contact our support team. The product is constantly being reviewed and improved and we value feedback about your experience.

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1 Integration options

VTAP Cloud is an Internet-of-Things (IoT) style platform, that enables **VTAP readers** to be integrated into many different network and server architectures.

Any IP-connected VTAP NFC reader can be linked to and managed by VTAP Cloud, typically via Wi-Fi or Ethernet. USB-connected readers can also be linked to VTAP Cloud using **VTAP Agent**, a background service that runs on a Windows computer. VTAP Cloud can also link to and manage any **VTAP Controller**, a physical access control gateway that supports OSDP/RS-485 readers (available soon).

1.1 Device monitoring and management

VTAP Cloud provides a convenient web-based user interface that enables customers to view and manage fleets of readers, and to create and apply reader configurations. These configurations are pushed out to devices automatically, over the network. The user interface is built on the VTAP Cloud API, which is available to any customer or partner who wants to integrate directly with the platform and perform tasks via their own code.

1.2 Tap processing application

Readers can also have a tap processing application, associated either with an individual reader or a fleet. In this case, card, tag or wallet reading events are routed through the VTAP Cloud gateway and sent to a target system. VTAP Cloud does not process or store events itself, other than for test/demo purposes using a simple autoresponder. It is designed to send tap data to a third-party system or platform, via tap processing applications.

Some standard applications are available. These integrate with popular third-party platforms or provide a generic outbound API call, that can be easily implemented at the receiving end as a new endpoint. In addition, custom applications can be developed to send tap data directly into existing third-party APIs, sometimes with additional logic.

The tap data available includes key fields such as the reader serial number and the card/NFC payload. And in all cases, the response from target application can be routed back to the reader to cause various actions including (if suitable hardware is present):

- flashing the LED;
- beeping;
- outputting some data over a local interface; and/or
- firing a relay.

This enables all kinds of solutions to be developed – anything from an intelligent retail loyalty scheme to a fully-functional physical access control system.

Additional facilities are available within VTAP Cloud for controlling reader offline behaviour and local decision-making processes – please **contact us** for more details.

2 VTAP Cloud API

Documentation for the VTAP Cloud API is available via the link below:

<https://vtap.dotorigin.cloud/developers>

You must be logged in to your VTAP Cloud account to be able to view this documentation. From here you can create an API key and access the various API calls directly from your own system.

This API enables you to:

- list and query the status of your readers,
- group readers into fleets,
- create and assign configurations to readers and fleets, and
- select/manage the applications that are assigned to each reader.

If you need any help or support, please contact our support team via **vtap-support@dotorigin.com**

3 Standard applications

There are several standard applications, created for customers to use on VTAP Cloud, which can aid integration and solution development. Some of these are freely available as soon as your VTAP Cloud account is created, and some are available on request, because they may need minor configuration changes for each customer/scenario. The list of standard applications includes:

Application name	Availability
Demo autoresponder	Freely available
Standard JSON POST	Freely available
Braze	Available on request
Jeri Commerce	Available on request
Klaviyo	Available on request
PassEntry	Available on request
Passkit	Available on request
Pronto	Available on request
Salesforce	Available on request
Zapier	Available on request

If you need a specific application to be enabled in your account, or if you have suggestions for other standard applications that would aid your integration, please contact our VTAP Cloud support team via vtap-support@dotorigin.com.

Detailed documentation on each application is also available, either on the [VTAP NFC website](#) or on request from our [support team](#).

Note: Certain pass provider partners, such as PassEntry and Jeri Commerce, have taken advantage of the VTAP Cloud API to provide facilities via their own platform, for managing both VTAP reader configuration and tap processing. In this case you may only need to use your VTAP Cloud account once, to generate an API key that you would then give to your chosen pass provider, for them to link everything up.

4 Custom applications

To integrate VTAP Cloud with a specific platform, which is not already available as a standard application, the Dot Origin support team can create and maintain a custom application for you. This application might contain additional business logic, to implement your requirements. For example, the application might make more than one API call to first look up a user based on their NFC pass payload, and then register their attendance at a location, or to trigger other events, logs or actions.

Creating new applications is relatively quick and easy, because of the modular 'plug-in' design of the VTAP Cloud platform. We typically work with a customer to identify the exact requirements, gain appropriate access to the target platform and its APIs, and then provide details of the costs and timescales involved. We are used to working with all kinds of different platforms, security requirements and API call formats – please simply contact our VTAP Cloud support team via [**vtap-support@dotorigin.com**](mailto:vtap-support@dotorigin.com) for an initial discussion about the feasibility of developing a custom application to suit your requirements.