FRED

FRED NXT

INTEGRATIONS OVERVIEW FOR VENDORS

CONTENTS

1 WELCOME

Welcome to Fred NXT and Integrations. This document will give you an overview of Fred NXT and how vendors can integrate their solutions to provide a seamless solution and a great experience for our mutual customers.

The document outlines the high level technologies and concepts, how to get started and some links to reference documentation.

1.1 Agreements and Confidentiality

TBD: Note about confidentiality of this content

1.2 Intended audience

This document is intended for vendors integrating to Fred NXT.

The audience should include people responsible for the technical implementation of your integration but further direct engagement with Fred will be required providing technical documentation, sample code and direct workshops.

1.3 What is Fred NXT

Fred NXT is the next generation Pharmacy solution built for touch, designed for mobility and connected to the cloud. Fred NXT is a simple, integrated approach to managing all aspects of a pharmacy and includes:

- Dispensing
- Point of sale (POS)
- Retail management
- Professional services

Visit http://www.fred.com.au/what-we-do/fred-nxt/ for more information.

1.4 Integration Vision

Integration for Fred has come a long way from directly accessing the Fred Dispense Database. Although this way is often fast and flexible for a vendor, the experience, reliability and control for a customer was lacking.

Fred NXT Integrations are Cloud-first by design. The vision is for predominately Business-to-Business services in the background which won't rely on instore infrastructure (Servers or Internet) and will provide a reliable and manageable interface to Pharmacy.

2 ABOUT FRED NXT INTEGRATIONS

Fred NXT is hosted in the Cloud. Stores running Fred NXT will not have local data or servers for integration or data analytics.

2.1 Integration Methods

Fred provides three styles of integrations; each with their own strengths. As a vendor you may integrate to one or more methods as required.

2.1.1 Cloud API

Data, Events and Actions are presented in the Cloud via an Azure API App. An API App exposes a REST and an oData Service that you can query or retrieve data from.

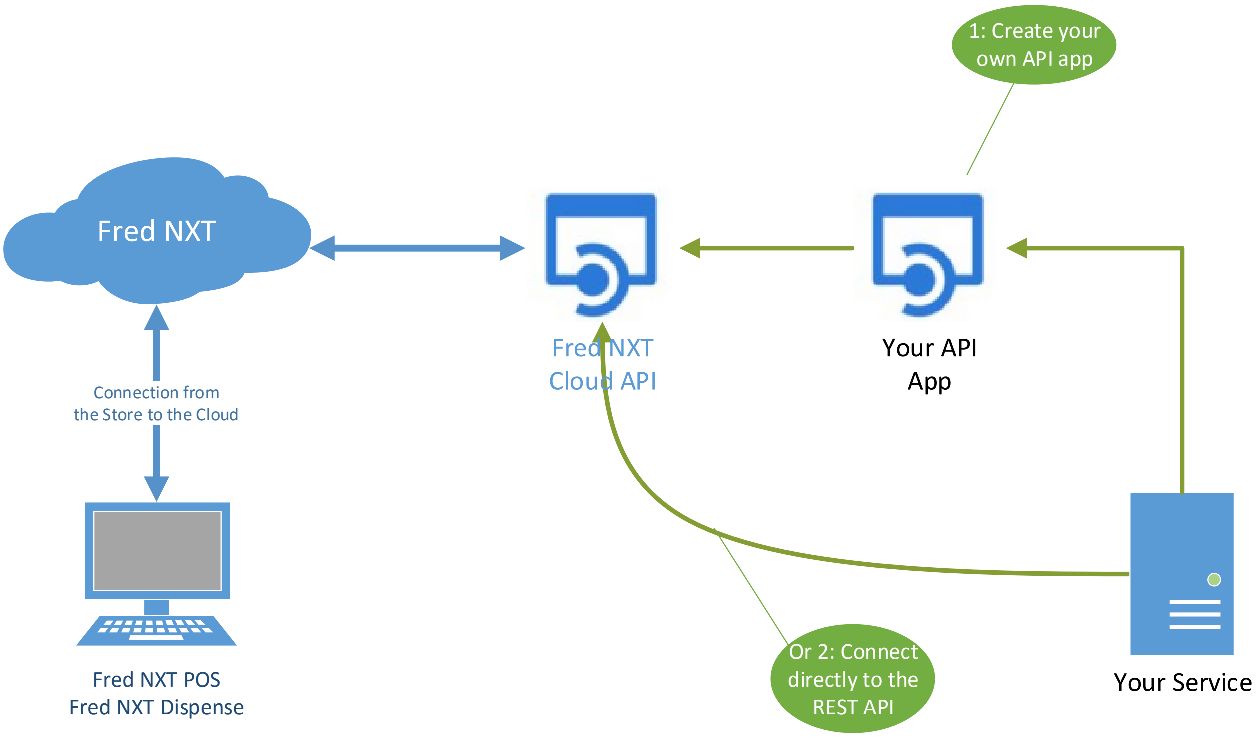
ⓘ More information on Azure API App including Samples are listed in references below.

You'd use the **Cloud API** if you want:

- A scalable integration and always on
- A service with large amounts of data
- You **do not** need Real-time information

You have two methods to connect to the Cloud API:

1. Create your own Azure API App and Logic App (BA Level activity)
2. Integrate directly to the Cloud API via REST services (Developer Level Activity)


1: Create your own API app
Fred NXT
Fred NXT Cloud API
Your API App
Connection from the Store to the Cloud
Fred NXT POS
Fred NXT Dispense
Or 2: Connect directly to the REST API
Your Service

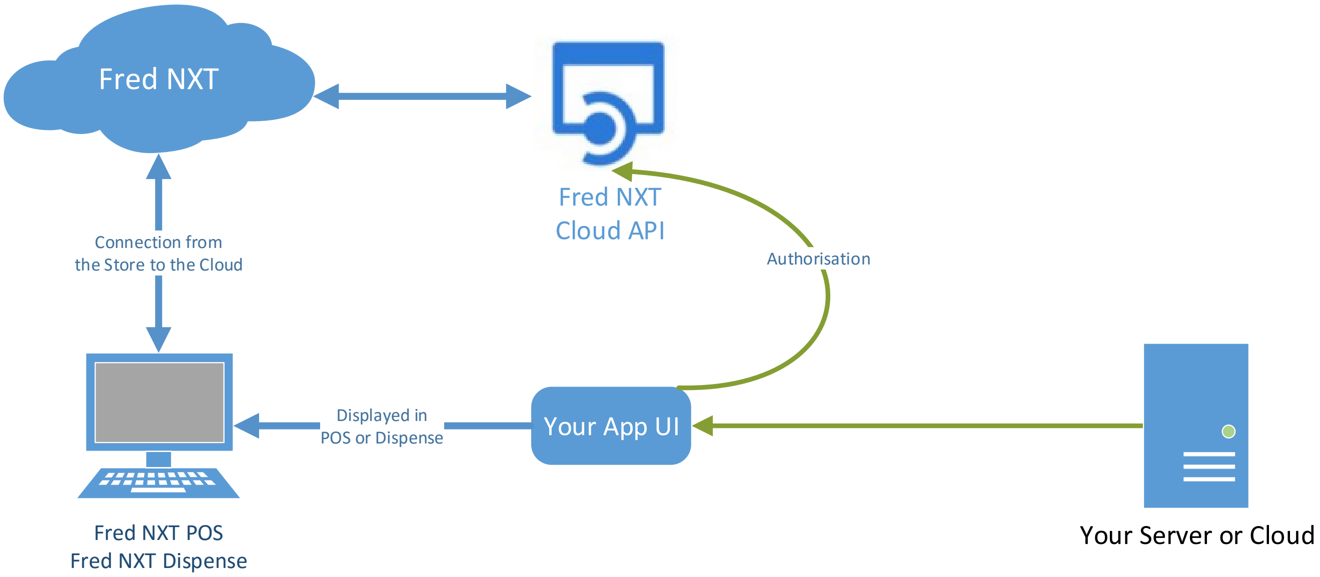
2.1.2 App UI

The App UI allows you to display your own application within the Fred NXT POS or Dispense application. The user would see a button (potentially with a status or a count depending on the application). If clicked or touched an expanded form or application can be shown.

ⓘ Note: initial releases of App UI integrations will required your code to be managed and deployed by Fred within Fred NXT. Consideration for dynamically loading plugins will be considered in future releases.

You'd use the **App UI** if you want:

- To Display information from your service, a document or a website
- Receive Real-Time events (Product selected, Customer Created)
- Information displayed is Real-time
- Events and Data you receive are based on instore workflow and activities

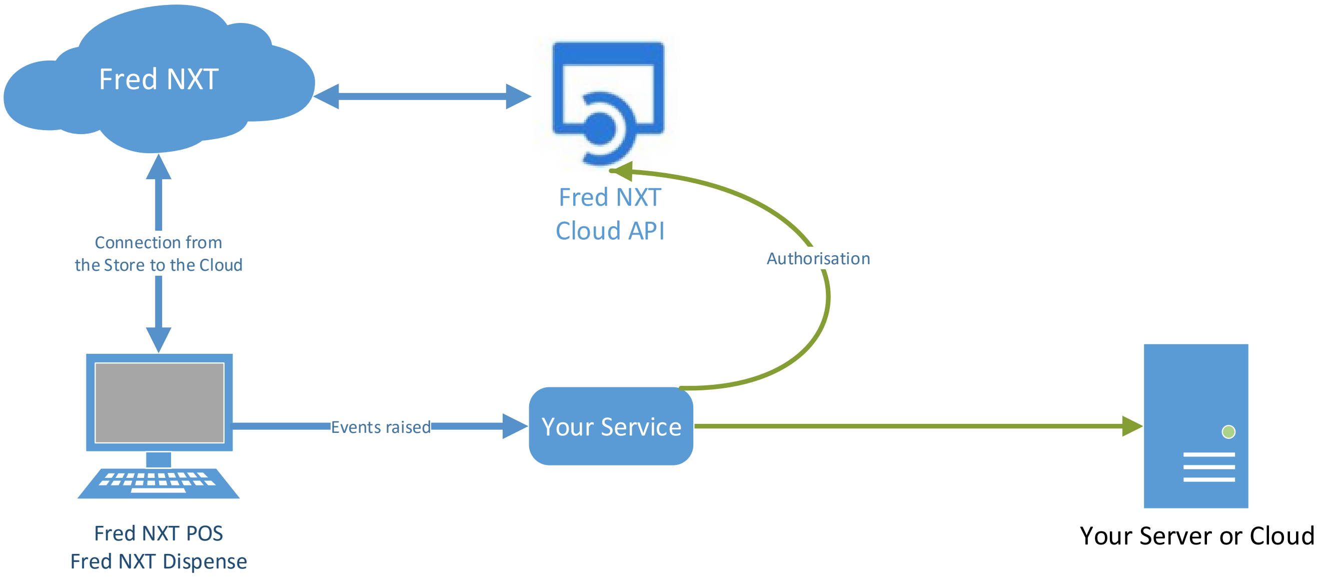


2.1.3 App Events

The App Event are an interface to send data and events from the Fred NXT POS or Dispense directly to your service in the background.

You'd use the **App Event** if you want:

- Receive Real-Time events in the background (Script Dispensed, Product selected, Customer Created)
- Do not want to display a UI
- Events and Data you receive are based on instore workflow and activities



2.2 Which integration to use?

Each integration has its own strength. Use the following criteria to determine which is suitable for your solution. Depending on your requirements you may want to utilize one or more of the integrations.

	Is the integration suitable?		
Criteria	**Cloud API**	**App UI**	**App Events**
Query Data on Demand	Yes		
Real-time events		Yes	Yes
Scalable (Large Data sets)	Yes		
Display an interface at the POS or Dispense		Yes	

3 GETTING STARTED

3.1 Who to Contact

Your Integration Manager	Darren Stephens
Contact Email	
Contact Phone Number	

3.2 Test environment and accounts

Server Remote Desktop	**url:port**
Cloud API Url	url:port

3.3 Authorisation

You are authorised for the following Test Store data and integrations

Integrations	Cloud API, App UI, App Events
Data	Test Store A

Using the following Credentials

Username	
Password	

4 TECHNOLOGIES

Fred NXT integrations will be compatible with a wide range of platforms and programming languages. The integrations will primarily leverage the Microsoft stack of technologies while allowing connections from any type of app or device.

ⓘ The integration technologies list are modern (HTML5, REST, oData services). If you have requirements for a more traditional approach an intermediate service (proxy) made be required. E.g. a service that connects to an oData service but then sends the data onwards as a file via FTP. Our sample code will help you do this.

Integration	User based technologies	Development based technologies
Cloud API	Azure API Apps and LogicApps, Microsoft Excel	REST, oData, JSON
App UI	n/a	HTML, REST, oData
App Events	n/a	SignalR, REST, oData

4.1 Sample Apps

Sample apps will be provided in the near future. Speak to your account manager if you'd like to discuss specific technologies and compatibility.

4.2 References

4.2.1 What is Azure App Service?

Azure App Service is the only cloud service that integrates everything you need to quickly and easily build web and mobile apps for any platform and any device. Built for developers, App Service is a fully managed platform with powerful capabilities such as built-in DevOps, continuous integration with Visual Studio Online and GitHub, staging and production support, and automatic patching.

https://azure.microsoft.com/en-us/documentation/articles/app-service-value-prop-what-is/

4.2.2 What are API Apps?

API Apps provides a rich platform and ecosystem for building, hosting, consuming, and distributing APIs in the cloud and on-premises. Deploy your API as an API app and benefit from enterprise grade security, simple access control, hybrid and SaaS connectivity. automatic SDK generation, and seamless integration with Logic Apps.

https://azure.microsoft.com/en-us/documentation/articles/app-service-api-apps-why-best-platform/

4.2.3 Create an ASP.NET API app in Azure App Service

This tutorial shows how to create an ASP.NET Web API project that is configured for deployment to the cloud as an API app in Azure App Service.

https://azure.microsoft.com/en-us/documentation/articles/app-service-dotnet-create-api-app/

5 FREQUENTLY ASKED QUESTIONS

Can Vendors access data directly from the Dispense database instore?

No. Access to Store data is only via the defined APIs as often the data is only store in the cloud.

6 GLOSSARY

UI	User Interface or Applications form and window