

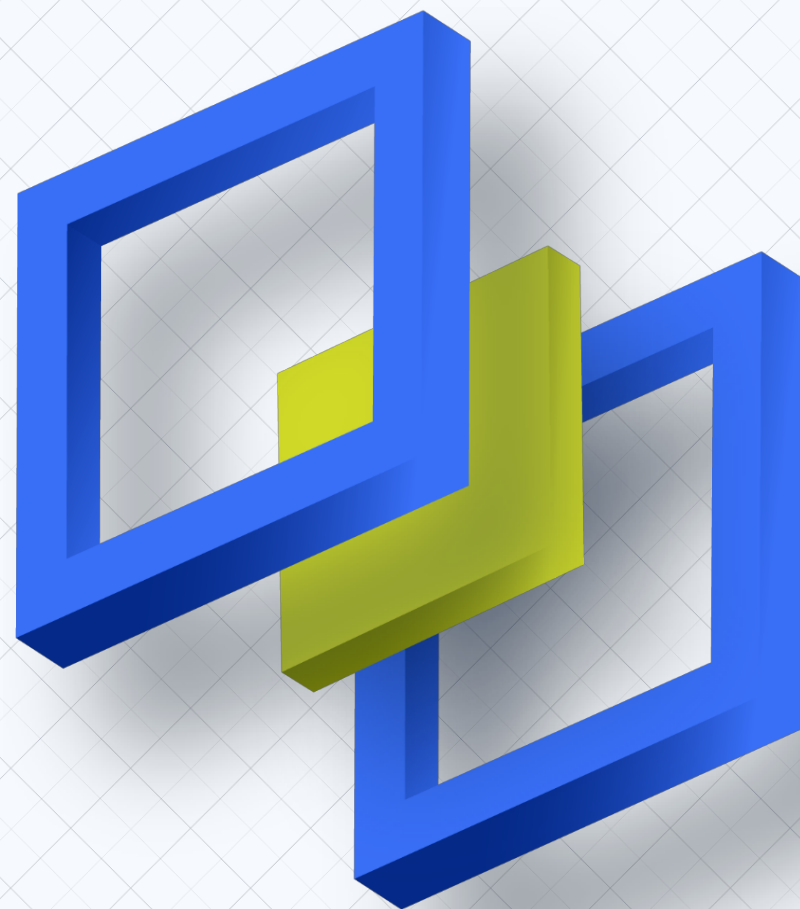


GLUE42  
CONNECTING APPLICATIONS

# FINOS FDC3 API

An open source implementation for everyone

For	FINOS Members Meeting
Disclosure	Members Meeting only
Status	Released
Date	1st May 2019
Author(s)	Leslie Spiro
Version	1.0



# FINOS FDC3 API - An open source implementation for everyone

Let's break that down a bit.

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FINOS



FDC3



API and Implementation



Open Source



Everyone

Intended to promote adoption of FDC3 and avoid vendor lock-in

# FDC3 API v1.0 – Scope

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FDC3 at V1.0 consists of :

- Application Directory REST API
- Standardized data context (e.g. Instrument or Client)
- API
  - Start applications (*open*)
  - Share a single Context (*broadcast, addContextListener*)
  - Intents based on a Context (*findIntent, raiseIntent, addIntentListener*)



# FINOS Desktop Services 'Interop API'

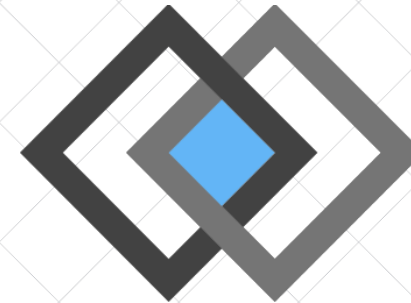
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Plexus -> Desktop Services (request pending).

Defined Bus/Broker agnostic Interop API.

Transport level API that defines :

- Pub/Sub;
- Request/Response;
- Streaming;
- Runtime discovery.



Glue42 open source contribution:

An FDC3 API implementation, that is written on top of the Desktop Services API.

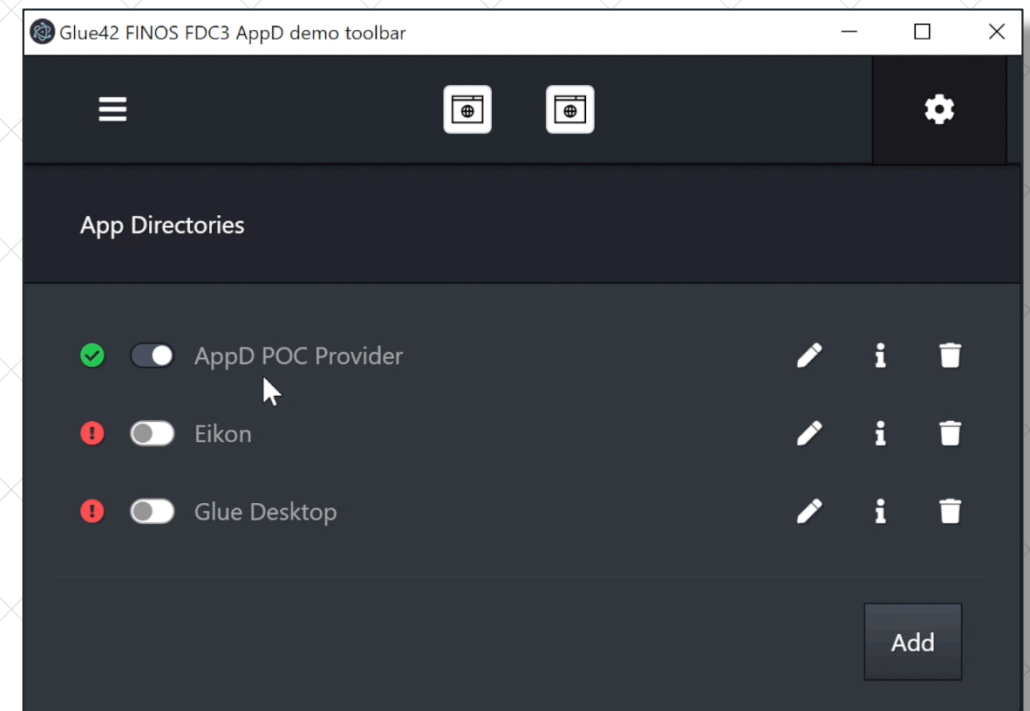
Hosts and Apps just need to publish helper methods onto the Bus to automatically be available to other FDC3 applications.

# What is being released to FINOS?

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Glue42 are releasing the following projects to FINOS, (location TBD)

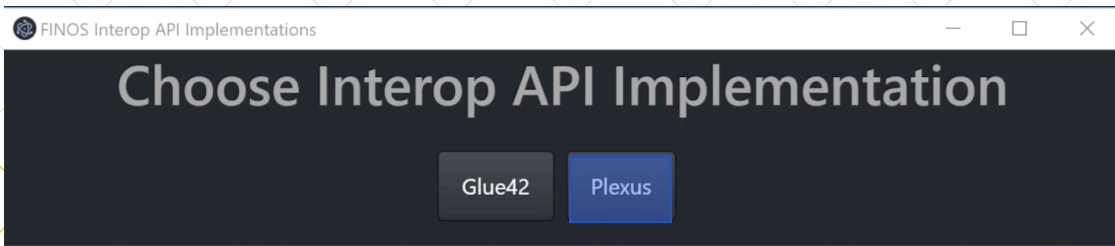
- FDC3 Application Directory Toolbar;
- FDC3 API Implementation;
- FDC3 API Demo applications;
- Eikon bridge.



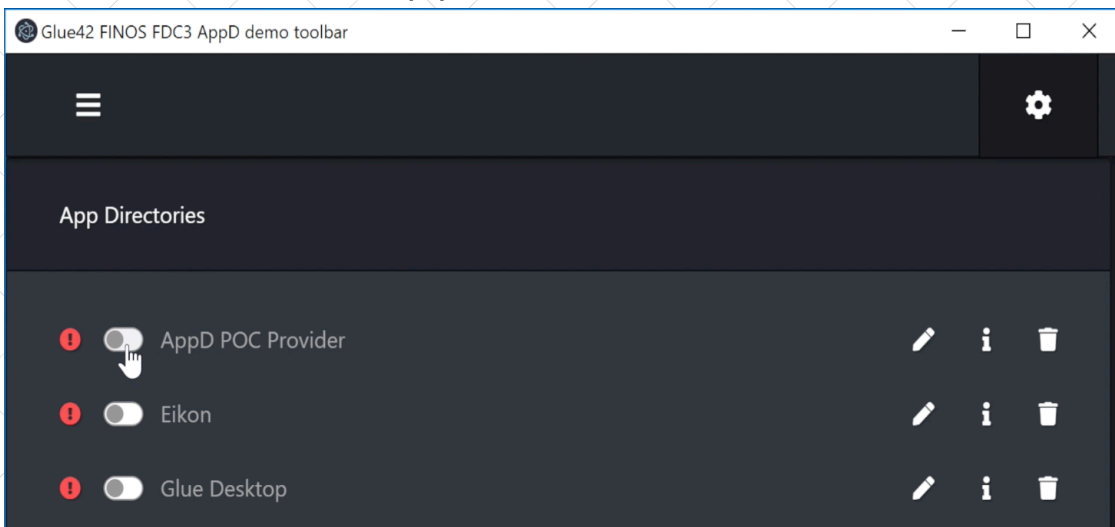
To be released today...

# Demo – Part 1

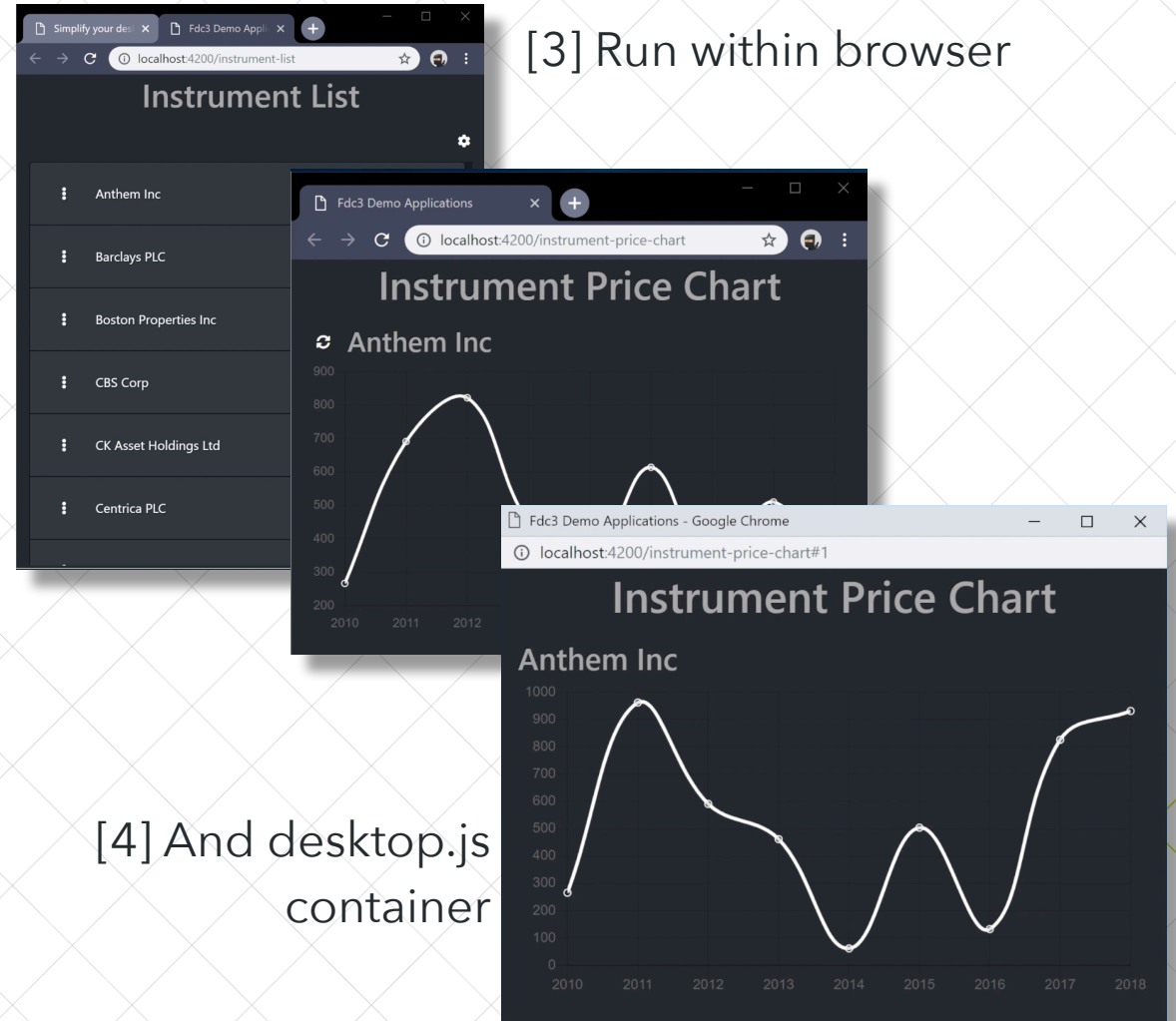
[1] Select Plexus bus



[2] Browse demo applications

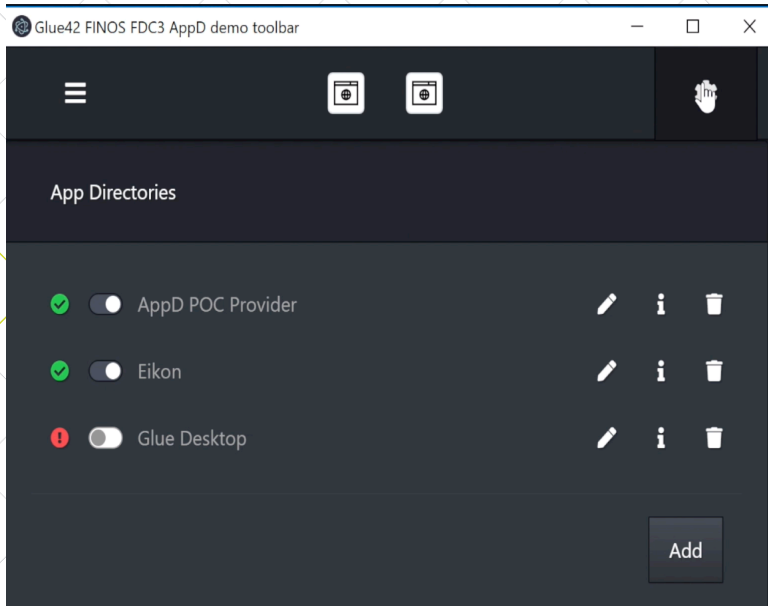


[3] Run within browser



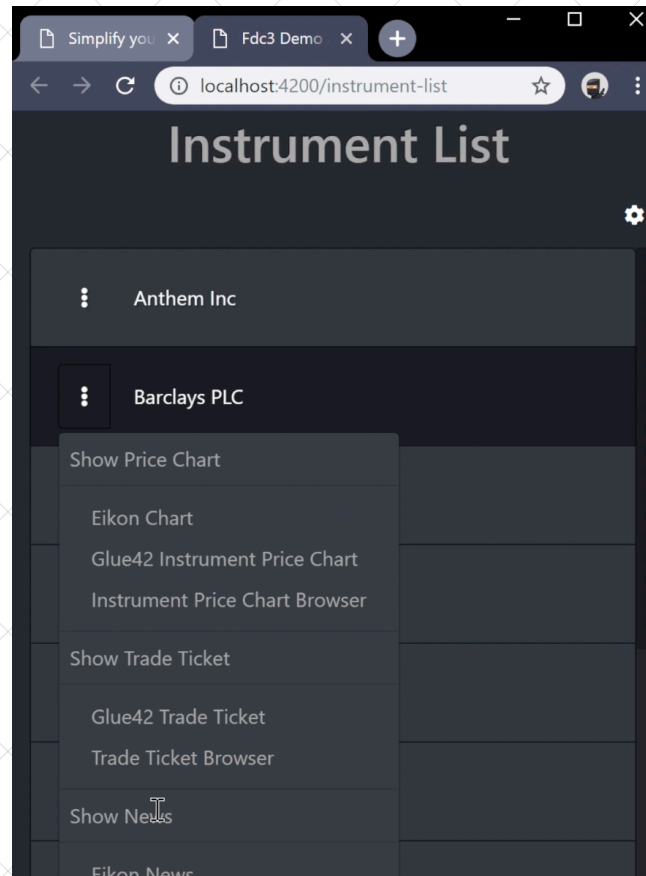
[4] And desktop.js container

# Demo – Part 2

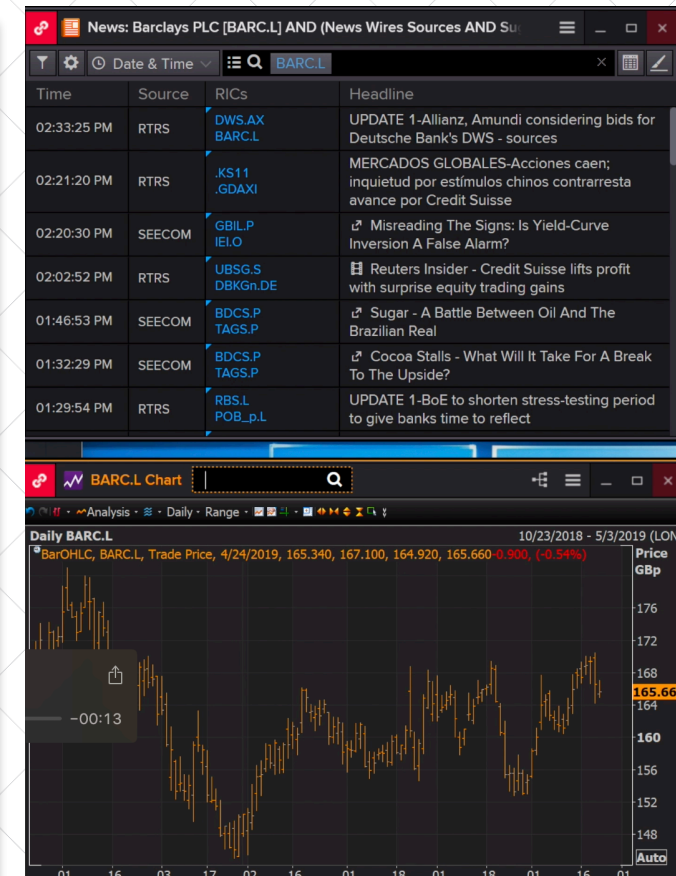


[1] Automatically discover Eikon applications

[2] Select Context



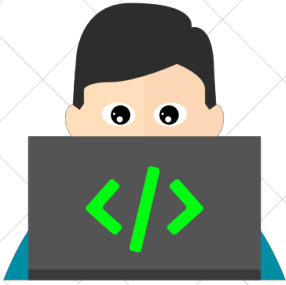
[3] Eikon apps updated



[4] Run same demo over Glue42. Both Eikon and Glue42 Host apps are available

# Why this is important

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Application Developer

“I can commit to using FDC3, knowing my app can run with no code changes on multiple hosts, buses and containers. I don’t need to know about the deployment environment or duplicate effort for different scenarios”



In-house Platform  
Developer

“I can easily add FDC3 API’s for my in-house developers to use, and I can more easily offer support for 3<sup>rd</sup> party app integrations including Eikon and other hosts. It also provides an avenue for migration to pre-packaged infrastructure”

Makes it much easier to use, test and support FDC3



# Next Steps...

## Webinar Registration



May 14<sup>th</sup> 2pm London

<b>Topic</b>	A multi-bus / multi-host implementation of FINOS/FDC3
<b>Description</b>	<p>The use of FINOS-based interoperability standards are critical to minimising integration effort and avoiding vendor lock-in. By attending this webinar, you will understand the capabilities of the Glue42 open source implementation, specifically:</p> <ul style="list-style-type: none"><li>- the implementation architecture;</li><li>- How to support a new Bus on which the implementation can run;</li><li>- How to add a new Host;</li><li>- How to build the demo system yourself;</li><li>- Run demo of FDC3 app (using Morgan Stanley's Desktop.JS), connecting to Glue42 and Refinitiv's Eikon;</li><li>- Exploring the code and with time for detailed questions.</li></ul>



<http://bit.ly/2IO8EAX>

# Thank you for your time...

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And thanks to everyone who has worked on FDC3 and the Interop API.

Especially to Riko for his work on the documentation site.

A journey of a thousand miles....

# Terminology

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Client Apps. Our focus is on the client applications and the needs of the developers, creating applications that work together with other in-house apps and key 3rd parties such as Eikon. The FDC3 API allows basic interop functionality. Our demo apps use Desktop.JS from Morgan Stanley to work unchanged in containers and desktop browsers.

Host. System that can launch multiple applications. Typically a host allows some kind of co-operation and co-ordination but only for applications running on that Host e.g. Eikon, Autobahn, OpenFin and Glue42

Interop. A mechanism that allows applications to communicate in a standard way. There are many types of interaction that qualify as interop (from user driven copy/paste onwards).

Interop API. The FINOS Desktop Services (name pending) Interop API, an open source API, that supports one or more of the following services; Pub/Sub, Request/Response, Streaming and/or run-time discovery.

NB In this context FDC3 Intents is a 'restricted form' of Request/Response and not a full Interop API.

Bus aka Interop Bus aka Broker. A system that provides inter application communication, typically a software implementation although Solace offers hardware.

Platform. A catch all term for a system deployed in an organisation that can run multiple applications, which have some interop capability via a Bus and may or may not include a Container. Glue42, OpenFin and Eikon would all constitute Platforms (since they include their own Bus, Host and Containers). In-house Platforms may include any mix of the three components.