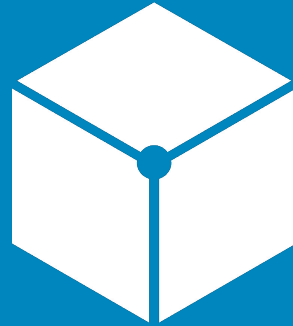


**FINOS**

Fintech  
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**FDC<sup>3</sup>**

Standards Working Group  
Meeting

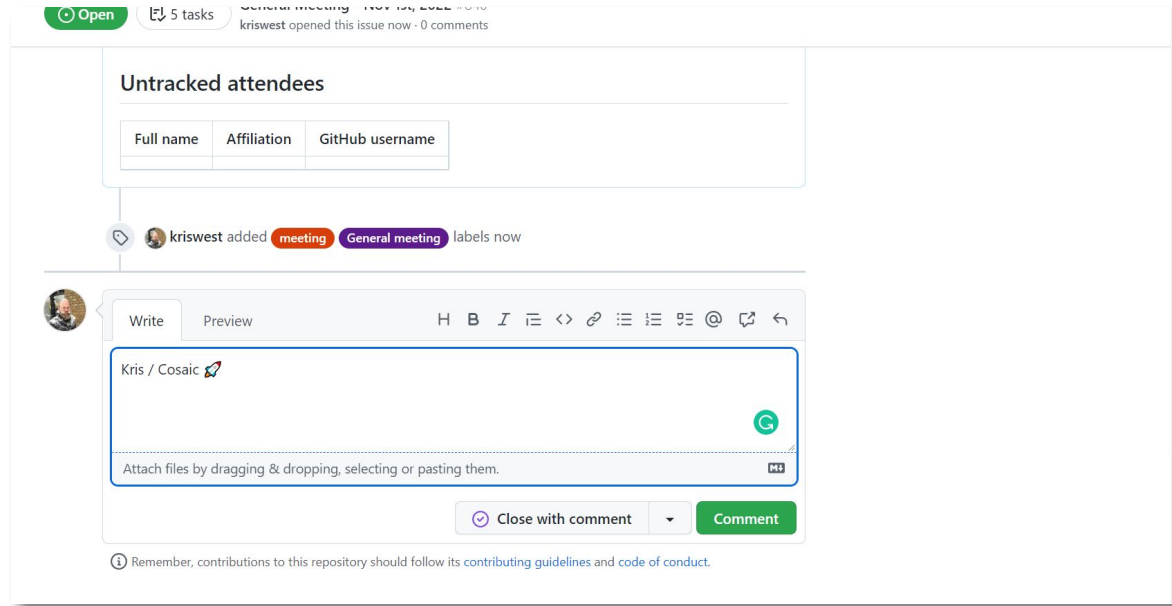
27th April 2023

# Meeting notices

- FINOS Project leads are responsible for observing the FINOS guidelines for [running project meetings](#). Project maintainers can find additional resources in the [FINOS Maintainers Cheatsheet](#).
- All participants in FINOS project meetings are subject to the [LF Antitrust Policy](#), the [FINOS Community Code of Conduct](#) and all other [FINOS policies](#).
- FINOS meetings involve participation by industry competitors, and it is the intention of FINOS and the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws. Please contact [legal@finos.org](mailto:legal@finos.org) with any questions.
- **FINOS project meetings may be recorded for use solely by the FINOS team for administration purposes. In very limited instances, and with explicit approval, recordings may be made more widely available.**
  - **The recording of today's presentation section (but not the Q&A session) may be published and shared. Please hold your questions until the end of the session**

# Please add your name and affiliation to agenda

Meeting agenda: <https://github.com/finos/FDC3/issues/970>



The screenshot shows a GitHub issue page for 'General meeting' (Issue #970). At the top, there are buttons for 'Open' and '5 tasks'. Below this is a table titled 'Untracked attendees' with columns for 'Full name', 'Affiliation', and 'GitHub username'. A notification indicates that 'kriswest' added 'meeting' and 'General meeting' labels. The main content area shows a comment box with the text 'Kris / Cosaic' and a green 'G' icon. Below the comment box is a 'Comment' button and a 'Close with comment' button. At the bottom, there is a note: 'Remember, contributions to this repository should follow its contributing guidelines and code of conduct.'

Full name	Affiliation	GitHub username
-----------	-------------	-----------------

Write Preview H B I @

Kris / Cosaic

Attach files by dragging & dropping, selecting or pasting them.

Close with comment Comment

Remember, contributions to this repository should follow its [contributing guidelines](#) and [code of conduct](#).

# Announcements

*Confidential*

# Save The Dates

See full list of upcoming events at [finos.org/events](https://finos.org/events) and [FINOS Community Calendar](#)

## HACKATHON - DESKTOP INTEROPERABILITY

IN NYC - IN PERSON

May 3-4 at BMO Offices NYC  
[Register](#) your interest below:



## HACKATHON - GLOBAL ACCESSIBILITY AWARENESS DAY

Virtual

May 15-18 with Discover  
[Register](#) your interest below:



## MEMBER MEETING London

14-15 June  
London

Stay tuned for further details!

### More Information

- [FINOS Events](https://finos.org/hosted-events) ([finos.org/hosted-events](https://finos.org/hosted-events))
- [FINOS Community Events](https://finos.org/featured-events) ([finos.org/featured-events](https://finos.org/featured-events))
- [LF Events](https://events.linuxfoundation.org/) ([events.linuxfoundation.org/](https://events.linuxfoundation.org/))
- [LF Training](https://training.linuxfoundation.org/) ([training.linuxfoundation.org/](https://training.linuxfoundation.org/))



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Join us to discover how you can contribute to and reap the rewards of FINOS' strategic initiatives on open regulation, open source readiness, and **desktop interoperability (FDC3)**.

Register your interest  
below



# OS IN FINANCE MEETUP FINOS STRATEGIC INITIATIVES

---

1 May 2023  
NYC at SYNECHRON



Fintech  
Open Source  
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# Interoperability & Regtech Hackathon

---

3-4 May 2023  
NYC at BMO

[REGISTER »](#)



Fintech  
Open Source  
Foundation

# MEMBER MEETING & OPEN HOUSE

---

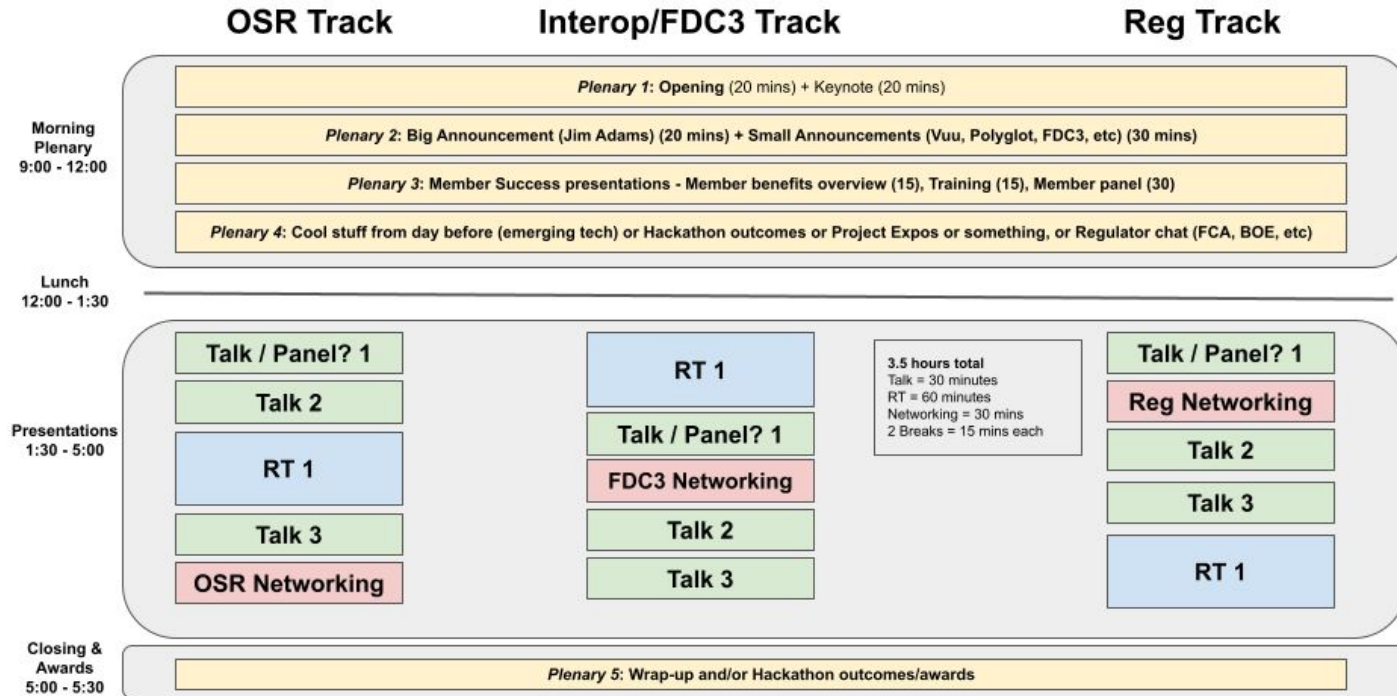
14-15 June 2023  
London at JP Morgan

[REGISTER >>](#)



# FINOS Members meeting

## Day 2: Member Meeting



# Recent FDC3 maintenance work

- Upgrade FDC3 website to docusaurus 2 + move hosting to netlify  
#762, #925, #938, #944, #945, #957
- Improved accessibility of FDC3 website homepage  
#921, #942, #943
- Updated project dependencies (quicktype, Node 18 etc.)  
#951, #965
  - Adjusted definition of Context object schema to better support extension
  - FDC3 2.0 npm module released
- Set up FINOS security scanning (CVE scanning & Semgrep + resolving vulnerable dependencies in website, project tooling, FDC3 workbench & FDC3 Explained)  
#808

# FDC3 Workbench update to 2.0 (in review)

Preview: <https://deploy-preview-947--fdc3.netlify.app/toolbox/fdc3-workbench/>

## PR #947

### New features (2.0 version):

- Switch between 1.2 and 2.0
- Additional app metadata
- Tightened up overall layout
- Target raised intents (options gathered via `fdc3.findIntentsByContext()`)
- More details on `originatingAppMetadata` & `IntentResolutions`
- Send & receive intent results: Context, Channel & PrivateChannel + set-up responses over the channel

Select Target RAISE INTENT FOR CONTEXT

### Add intent listener

INTENT LISTENER  
ViewChart

ADD LISTENER

Send intent result

Context result

Channel result

APP CHANNEL PRIVATE CHANNEL

Context streaming will start AFTER a context listener is added to the channel

Send context result over channel

Delay (ms) 3500

Delay (ms) 5000

Delay (ms) 5000

CONTEXT Instrument example

CONTEXT Instrument example-2

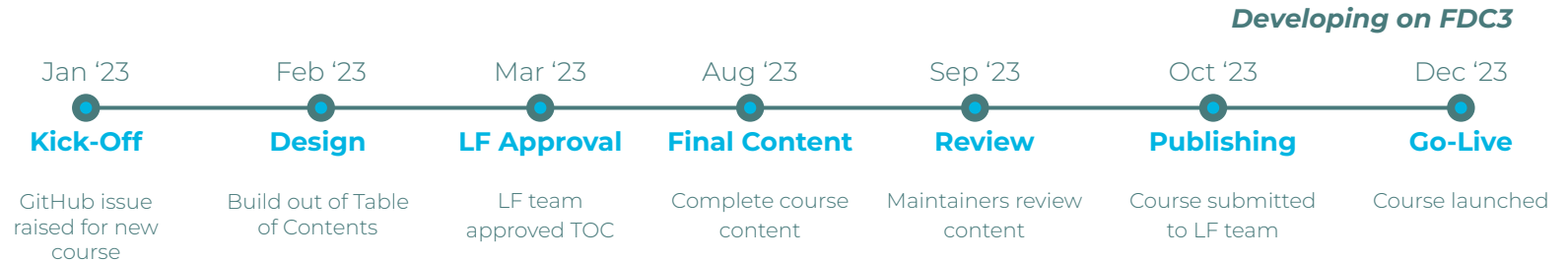
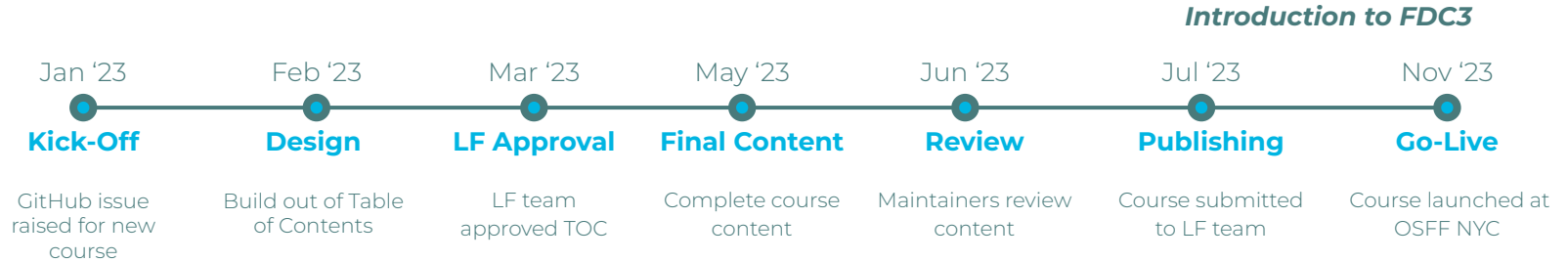
CONTEXT Instrument example-3

Private Channels  
No Private Channel Listeners

Learn more about the FDC3 Standard and APIs | Proud member of the Fintech Open Source Foundation | Copyright © 2021-2023 Finsemble, inc. & Contributors to the FDC3 standards project

# FDC3 Training & Certification update

## Course Timeline(s)



# FDC3 2.1

# FDC3 2.1 PRs ready and/or merged

- Ensuring FDC3 API types use string rather than String #924
- Deprecating IntentMetadata.displayname #926
- Deprecating AppD name field and promoting title to required #928
- Context data and intents consolidated update branch 2.1 #936
- Desktop Agent Bridging #968

# FDC3 2.1 PRs outstanding



- Actionable Notifications #387, #828
- Add vendor agnostic default window size and position settings to the App Directory app definition format #564
- Order/Trade/Position context types #644, #655, #656
- Allow an AppD application record to reference other apps that are \*required\* for it to run #674
- Add /intents and /contexts endpoints to the AppD API #719
- Upgrade exposure of originating app identity to a requirement (MUST) from recommended (SHOULD) #735

# FDC3 2.1 PRs outstanding



- AppD v2 routes don't define error response samples #827
- App-specific context metadata #829
- Tighter definition for "otherConfig" in fdc3.chart context type #856
- Are you ready yet? Adding defined (or at least bounded) timeouts to the FDC3 Desktop Agent API #866
- Clarify differences between App and User Channel behaviour (in docs for FDC3 versions 1.1, 1.2, 2.0 and next) #871
- Clarify handling of malformed context objects by Desktop Agents #872
- Deprecate customConfig in appD records #900



# Post-FDC3 2.1

- Proposal to add .NET interfaces and context declarations #931
- FDC3 for Web Browsers #896

# FDC3 2.1: Desktop Agent Bridging

Proposed addition to the  
FDC3 Standard

# Discussion Group: Desktop Agent Bridging

**Purpose:** To create bridges between FDC3 Desktop Agents (DAs), allowing apps running in different DAs to interoperate with each other:

## Status:

- Protocol drafting complete
- Check out the PR @ <https://github.com/finos/FDC3/pull/968>
- Implementation work started: <https://backplane.finos.org/>

## Next steps:

- Propose inclusion in the Standard in FDC3 2.1
- Arrange a vote on inclusion

# Discussion Group: Desktop Agent Bridging

Desktop Agent Bridging

Documentation added to the website ([see the preview](#))

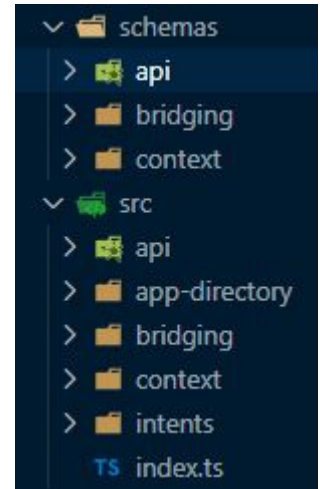
Marked as @experimental

Created JSON Schemas for:

- All Bridging connect and interop messages
- API types

Reorganized schemas into a more maintainable structure

Generated TS types for Bridging



[Getting Started](#)[FDC3 Standard](#)[Abstract](#)[Compliance](#)[Glossary](#)[References](#)[Supported Platforms](#)[API Part](#)[API Bridging Part](#)[Overview](#)[broadcast](#)[findIntent](#)[findIntentsByContext](#)[raiseIntent](#)[open](#)[findInstances](#)[getAppMetadata](#)[PC.broadcast](#)[PC.eventListenerAdded](#)[PC.eventListenerRemoved](#)

## Request format

### Schema

<https://fdc3.finos.org/schemas/next/bridging/findIntentRequest.schema.json>

### Example

Outward message to the DAB:

```
// agent-A -> DAB
{
  "type": "findIntentRequest",
  "payload": {
    "intent": "StartChat",
    "context": { /*contextObj*/ }
  },
  "meta": {
    "requestGuid": "<requestGuid>",
    "timestamp": "2020-03-...",
    "source": [{
      "appId": "agentA-app1",
      "instanceId": "c6ad5174-6f78-4582-8e96-728d93a4d7d7"
    }]
  }
}
```

The DAB fills in the `source.desktopAgent` field and forwards the request to the other Desktop Agents (agent-B AND agent-C):

[Message exchange](#)[Request format](#)[Schema](#)[Example](#)[Response format](#)[Schema](#)[Example](#)

## Desktop Agent Bridging

```
    "$id": "https://fdc3.finos.org/schemas/next/bridging/bro-  
    "title": "broadcastRequest",  
    "type": "object",  
    "allof": [  
      {  
        "$ref": "bridgeRequest.schema.json"  
      },  
      {  
        "type": "object",  
        "properties": {  
          "type": {  
            "const": "broadcastRequest"  
          },  
          "payload": {  
            "type": "object",  
            "properties": {  
              "channel": {  
                "$ref": "../api/channel.schema.json"  
              },  
              "context": {  
                "$ref": "../context/context.schema.json"  
              }  
            },  
            "additionalProperties": false,  
            "required": ["channel", "context"]  
          },  
          "meta": {  
            "properties": {  
              "requestGuid": true,  
              "timestamp": true,  
              "source": {  
                "$ref": "../api/appIdentifier.schema.json"  
              }  
            },  
            "additionalProperties": false
```

```
export interface BroadcastRequest {  
  meta: BroadcastRequestMeta;  
  /**  
   * The message payload typically contains  
   */  
  payload: BroadcastRequestPayload;  
  /**  
   * Identifies the type of the message and  
   * the message relates to, e.g. 'findInte  
   */  
  type: string;  
}  
  
Tiago Pina, yesterday | 1 author (Tiago Pina)  
export interface BroadcastRequestMeta {  
  /**  
   * Unique GUID for the request  
   */  
  requestGuid: string;  
  /**  
   * Field that represents the source appli  
   */  
  source: PurpleIdentifier;  
  /**  
   * Timestamp at which request or response  
   */  
  timestamp: Date;  
}  
  
/**  
 * The message payload typically contains t  
 */  
You, 4 minutes ago | 1 author (You)  
export interface BroadcastRequestPayload {  
  channel: ChannelClass;  
  context: ContextElement;  
}  
You, 1 second ago * Uncommitted cha
```

JSONSchema & generated  
TypeScript sources to  
simplify (conformant)  
implementation

# Discussion Group: Desktop Agent Bridging

Added generated code for bridging to NPM module

```
import { BridgingTypes } from "@finos/fdc3";  
const aMessage: BridgingTypes.BroadcastRequest  
  
// or  
  
import { BroadcastRequest } from "@finos/fdc3/dist/bridging/BridgingTypes";  
const aMessage: BroadcastRequest
```

# FDC3 2.1: Context Data & Intents

Additions proposed for 2.1



# Discussion Group: Context Data & Intents

- Defining a simplified Order object ([#904](#))
  - Contributors are welcomed and encouraged
  - Ready to be turned into a PR
- Should we split Context and Intents outside of the Standard? ([#940](#))
  - Remove reliance on a release schedule which is aligned to main APIs
  - Improve frequency of when new Context and Intents could be made available
- 2.1 Milestone PR's ([#936](#))
  - Collection of Symphony chat capabilities
  - New contexts for Interaction and Transaction result

# Context & Intents

Refining our approach to  
governance

Thurs 4th May @ 9am **EST** / 2pm **BST**

*Confidential*

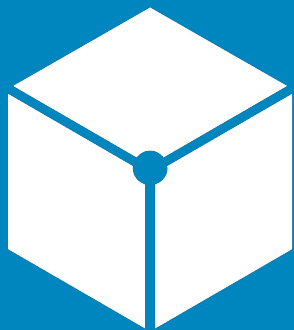
# Upcoming FDC3 meetings

- Tuesday 2nd May @ 10am **EST** / 3pm **BST**  
**FDC3 General Meeting**
- Thurs 4th May @ 9am **EST** / 2pm **BST**  
**Context Data & Intents**
- Thurs 4th May @ 11am **EST** / 4pm **BST**  
**FDC3 for the Web**
- Thu 18th May @ 11am **EST** / 4pm **BST**  
**FDC3 for the Web**
- Wed 24th May @ 9am **EST** / 2pm **BST**  
**Desktop Agent Bridging**
- Thu 25th May @ 10am **EST** / 3pm **BST**  
**Standard WG Meeting**
- Wed 3rd / Thur 4th May  
**FDC3 Hackathon in NY**
- 14/15th June  
**FINOS Members Meeting & Open House**
- For all meeting details see the [FINOS Community Calendar](#) or email [help@finos.org](mailto:help@finos.org) to be added to future meeting invites



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Thank you!

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