

FDC³

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FDC3 Technical Members

Chair (OpenFin)	Nick Kolba, Chuck Danielsson
Algomi	Sharif Elborgi, Usman Khan
AllianceBernstein	Dinesha Vittaldas
Barclays	Nikhil Doshi
BGC Partners	Alexei Samonov
ChartIQ	Terry Thorsen
Citadel	Chris McGuire, Tim Kolecke
Cloud9	Zeno Lee
Factset	Alan Cenkus, Dan Riley
JPM	Gavin Lauchlan, Richard Roberts
Lord Abbett	Murugesan Kandasamy, Gurpreet Singh
Morgan Stanley	Peter Smulovics, Ian Alderson
RBCCM	Espen Skogen, Simon Carley
Thomson Reuters	Jorge Santos, Saori Fotenos
T Rowe Price	Mathieu Lorentz
TP ICAP	Adrian Brown, Reid Philpot
UBS	Tom Sudgen
Wellington	Ben McBride, David Carlson

Agenda

- Context Proposal v2
 - Changes to Context Structure
 - Chat Workflows
 - Intents

Context Structure Goals

- Address workflows between Chat clients and external applications
- Expand “envelope” approach to support non-FDC3 object definitions.
- Support compatibility between FDC3 and Symphony Software Foundation (SSF) defined Financial Objects.

New Envelope Structure

- Additional “meta-envelope”

```
{  
  object: (string) //object type  
  definition: (string) //url  
  version: (string) //version # (semver)  
  data: (array) //the context payload  
}
```

Object Types

- FDC3 Types
 - fd3-context
- External Types
 - org.symphonyoss

Chat Workflows

- Inbound
 - Click contact in an external app and invoke a chat session
 - Select a list of contacts and create a chat room
 - Start a conversation with context
- Outbound
 - Click into a chat in and send the context to an external app (e.g. Salesforce)
 - Send context from a chat to an external app

Start a Chat - Symphony

```
open( "Symphony", "startChat", {  
  object: "fdc3-context",  
  version: "0.0.1",  
  definition: "https://fdc3/schema/context/0.0.1",  
  data: [  
    {  
      type: "contact",  
      name: "Nick Kolba",  
      id: {  
        email: "nick@openfin.co"  
      }  
    }  
  ]  
});
```


Start a Chat - Slack

```
open("Slack", "startChat", {
  object: "fdc3-context",
  version: "0.0.1",
  definition: "https://fdc3/schema/context/0.0.1",
  data: [
    {
      type: "contact",
      name: "Nick Kolba",
      id: {
        email: "nick@openfin.co"
      }
    }
  ]
});
```

Start a Chat with Financial Context

```
open("Symphony", "startChat", {  
  object: "fdc3-context",  
  version: "0.0.1",  
  definition: "https://fdc3/schema/context/0.0.1",  
  data: [  
    {  
      type: "contact",  
      name: "Nick Kolba",  
      id: { email: "nick@openfin.co" }  
    },  
    {  
      type: "security",  
      name: "Apple",  
      id: { ticker: "aapl" }  
    }  
  ]  
});
```

Passing Non-FDC3 Objects

- Financial Objects can be wrapped directly with FDC3 context wrappers

```
{
  object:"org.symphonyoss",
  version:"0.2",
  url:"xyz",
  data:[
    {
      "type":          "org.symphonyoss.fin.security",
      "version":       "0.2",
      "shortname":     "AAPL",
      "longname":      "Apple Inc.",
      "localname":     "Apple Inc.",
      "country":       "US",
      "id":
      [
        {"type":       "org.symphonyoss.fin.security.id.isin",
         "value":       "US0378331005"},
        {"type":       "org.symphonyoss.fin.security.id.cusip",
         "value":       "037833100"},
        {"type":       "org.symphonyoss.fin.security.id.openfigi",
         "value":       "BBG000B9XRY4"},
        {"type":       "org.symphonyoss.fin.security.id.ticker",
         "value":       "APPL"},
      ],
      {"type":         "com.factset.symbology.regionalticker",
       "value":        "AAPL-US"}
    ]
  ]
}
```

Intents

- Indicates supported common verbs for an App
- Not full RPC
- Apps don't need to enumerate every function
- Defined at the App Registry level
- Intents require Resolver services that can route the message and resolve ambiguity

Launching By Intent

```
fdc.open(null, "StartChat", [  
    {  
        name: "Nick Kolba",  
        type: "Contact",  
        id: {  
            default: "Nick Kolba",  
            email: "nick@openfin.co",  
            twitter: "nkolba",  
            phone: "9171234567"  
        }  
    }  
]);
```

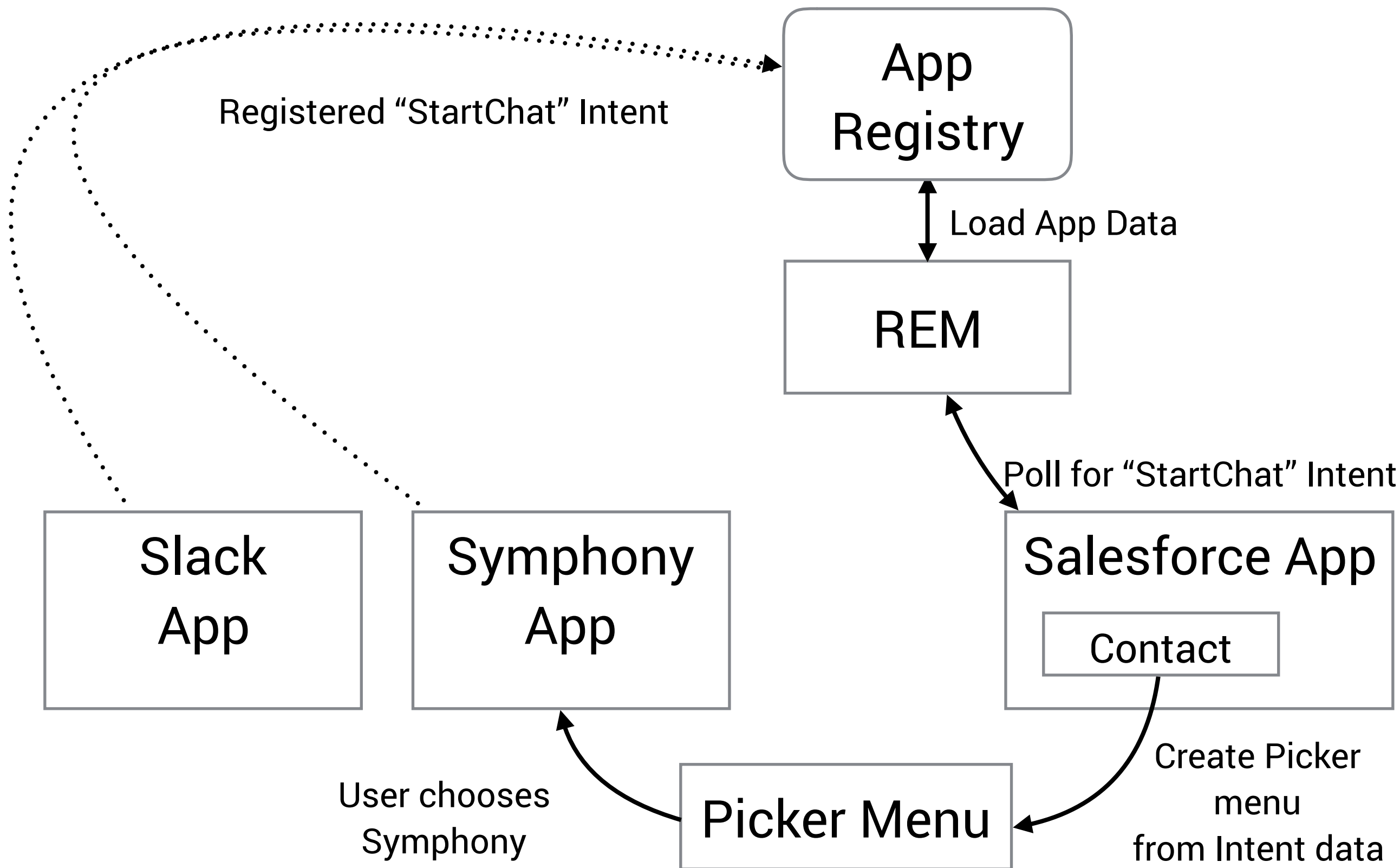
or...

```
fdc.startIntent("StartChat", [...
```

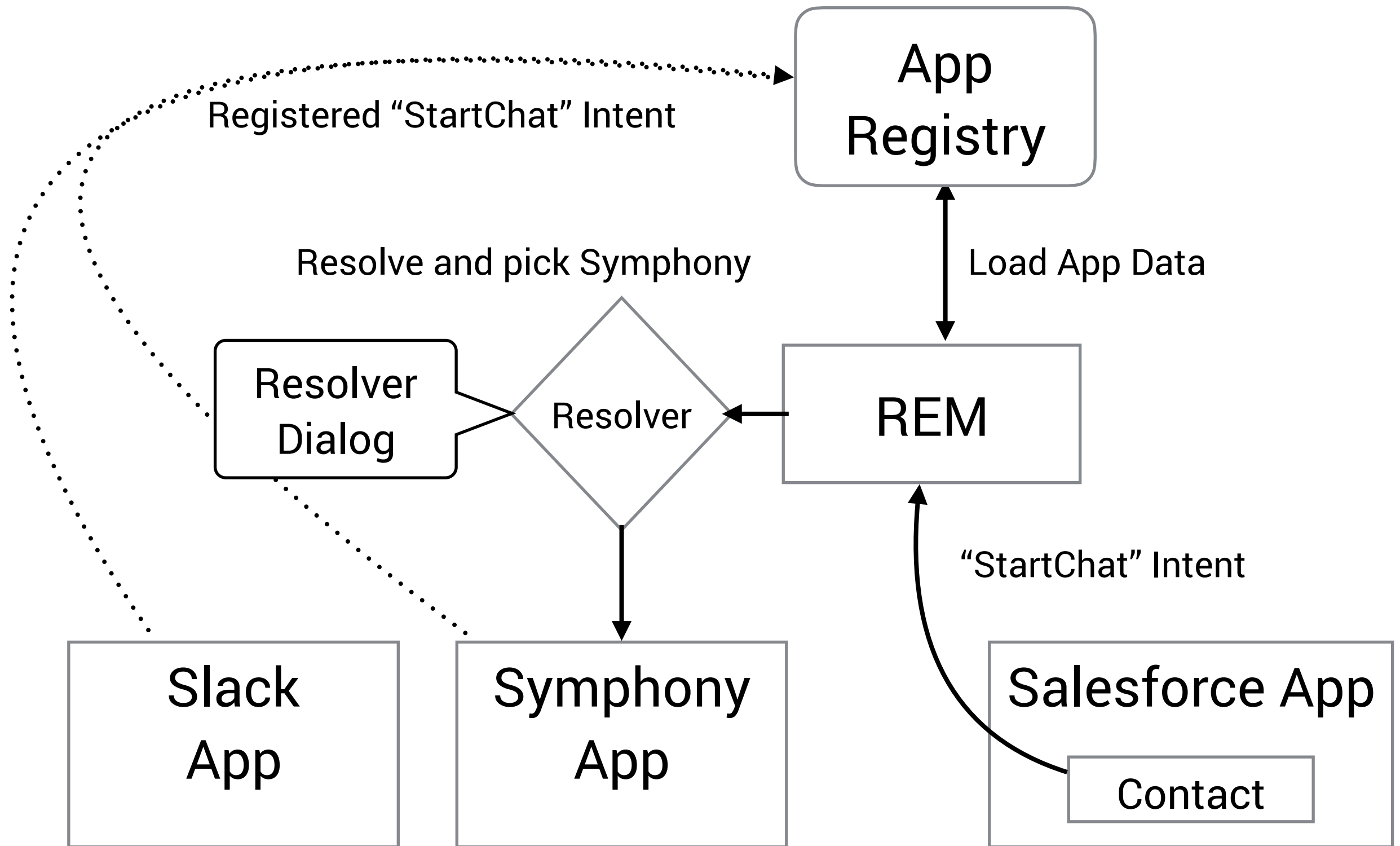
Proposed Resolution Workflows

- Intents can map to multiple Apps on a desktop
- Apps can query REM to get mappings of available Apps and build their own workflows
- Or, a desktop platform can provide its own resolver that works across an number of Apps

Intent Resolution



Intent Resolution



Some Proposed Intents

- GetPrice
- GetChart
- GetNews
- StartChat
- GetContact
- CreateRFQ

Next Steps

- Deeper dive into Intents and App Types
- MVP of “StartChat” workflow (in progress)

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