

Context Object Overview

- To interoperate, Apps need to exchange commonly recognized context structures that can indicate topic with any number of identifiers or mappings to different systems.
- Exchanging context is the most basic entry point to desktop interoperability. The barriers to adoption for this interaction must be kept as low as possible.
- Best approach is to transmit as many known identifiers as possible and recipients take what they can understand and ignore the rest.
- Rendering of context is best left to end points, and it should be left to end points to provide the reference data required for that rendering.
- Metadata provided with context identifiers should have the following goals:
 - Facilitate routing of the context to Apps that can accept it.
 - Allow providing for some basic, human readable cues for end-user lead ambiguity resolution.

Other Standards

FDC3 recognizes that there are other object definitions for providing context between applications. Most, if not all of these definitions though are platform specific. FDC3, as a rule, sets out to be platform agnostic and focused on creating bridges between the various walled gardens on the financial desktop.

The Context Envelope

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

Examples

FDC3 Context Object

```
{
  "object" : "fdc3-context",
  "definition" : "https://fdc3.org/context/1.0.0/",
  "version" : "1.0.0",
  "data" :
  [
    {
      "type" : "security",
      "name" : "Apple",
      "id" :
      {
        "ticker" : "aapl",
        "ISIN" : "US0378331005",
        "CUSIP" : "037833100",
        "FIGI" : "BBG000B9XRY4",
        "default" : "aapl"
      }
    }
  ]
}
```

Symphony Financial Object

```
{
  object:"org.symphonyoss",
  version:"0.2",
  url:"https://symphonyoss.atlassian.net/wiki/x/RgBnAQ",
  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"}
]
}
]
}

```

Context Data Payload

Properties

- **type** - A type for the context - used for resolution, filtering and matching an app context to the supported contexts of other Apps on the desktop.
- **name** - human readable name for the context (generally to be used for display)
- **id** - a dictionary of identifiers for the context item
- **primary** - (optional) indicates if a context item is the primary item in a multi-context list

For most context types, name plus an ID dictionary is sufficient. Some context types support additional qualifiers that provide value for selecting and disambiguating. The Security type supports a 'class' property for designating the asset class, Quote type supports the 'exchange' property for designating the exchange that the issue is traded on.

Common Types & Identifiers

- Organization
 - LEI
 - PermID
- Security
 - Ticker
 - Exchange
 - CUSIP
 - ISIN
 - SEDOL

- RIC
 - BBG
 - PermID
 - FIGI
- Industry
 - GICS
 - NAICS
- Geo
 - ISO-2
 - ISO-3
 - geocode
- Person
 - name
 - PermID
- Contact
 - name
 - email

Examples

IBM as Organization

```
[
  {
    name:"International Business Machines",
    type:"Organization",
    id:{
      "default" : "ibm",
      "PermID" : "4295904307",
      "LEI" : "VGRQXHF3J8VDLUA7XE92"
    }
  }
]
```

IBM Bond as a Security

```
[
  {
    name:"IBM 6.25% of '19",
    type:"Security",
```

```

        "id" : {
            "default" : "IBM 6.25% of '19",
            "CUSIP" : "090241201"
        }
    }
]

```

Person and Organization

```

{
    object:"fdc3-context",
    data:[
        {
            name:"Virginia (Ginni) M. Rometty",
            type:"Person",
            id:{
                "default" : "Virginia Rometty",
                "PermID" : "34415504516"
            }
        },
        {
            name:"International Business Machines",
            type:"Organization",
            id:{
                default:"ibm"
            }
        }
    ]
}

```

Industry

```

[
    {
        name:"Information Technology",
        type:"Industry",
        id:{
            default:"Information Technology",
            GICS:"45"
        }
    }
]

```

```
    }  
  ]
```

Geo

```
[  
  {  
    name:"United States of America",  
    type:"Geo",  
    id:{  
      default:"USA",  
      ISO ALPHA-2:"US",  
      ISO ALPHA-3:"USA",  
    }  
  }  
]
```

Contact

```
[  
  {  
    name:"Nick Kolba",  
    type:"Contact",  
    id:{  
      default:"Nick Kolba",  
      email:"nick@openfin.co",  
      twitter:"nkolba",  
      phone:"9171234567"  
    }  
  }  
]
```