

Application specific data

There are times when attaching additional information to an order is useful. For example:

- An integration partner might want to track the volume they bring to the protocol
- A user might want to include a referral address in their order
- A user might want to specify additional order options, such as [CoW Hooks](#)

CoW Protocol facilitates the inclusion of this additional information to any order through a special data field known as [appData](#). This field is a bytes32 that points to an IPFS document that is a JSON file containing this information. Utilizing only on-chain data and IPFS, the content of this document can be retrieved and parsed.

AppData Document

The AppData document is a JSON file that follows a specific JSON [schema](#). It is versioned and the version is specified in the document itself. Versioning follows [Semantic Versioning](#).

An example of an AppData document is:

```
{ "version" :
```

```
"0.10.0" , "appCode" :
```

```
"MyAwesomeUi" , "metadata" :
```

```
{ "referral" :
```

```
"0x1234567890123456789012345678901234567890" } }
```

 tip Avoid all the pain of creating and parsing appData by using either the:

- [CoW Explorer appData utility](#)
- ; or
- [app-data](#)
- SDK caution If not using the CoW Explorer appData utility or the app-data SDK, make sure to follow the [appData schema](#) and upload your file to IPFS before placing orders using the resulting digest.

Schema

The schema for the AppData document is defined in [JSON schema](#). The schema is available in the [app-data](#) SDK. The schema is shown below:

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