

# Message Brokers

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## BowDataSchema.CodeGenerator

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### Data Schema Request-Response Events

*Event is **GetDataCodeObject()***

*\_Approved Requestors are **BowDataAdmin.{services}***

#### Listen

- Request\_CreateSaskanDataObject()

#### Send

- Response\_CreateSaskanDataObject()
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### CodeGenerator --> SaskanConcept Pub-Sub

*Topic Manager is **BowDataSchema.SaskanConcept***

- Topics
  - SaskanConcept

#### Listen

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- Notify\_SaskanConceptListChange()
- Publish\_SaskanConceptList()
- Notify\_SaskanConceptObjectChange()
- Publish\_SaskanConceptObject()

#### Send

- Subscribe\_SaskanConceptList()
  - Subscribe\_SaskanConceptObject()
- 

### CodeGenerator --> SQLite Pub-Sub

*Topic Manager is **BowDataSchema.CodeGenerator.SQLiteCode***

- Topics
  - SQLiteCode

#### Listen

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- Notify\_SQLiteCodeChange()
- Publish\_SQLiteCode()

#### Send

- Subscribe\_SQLiteCode()
- 

### CodeGenerator --> Postgres Pub-Sub

*Topic Manager is **BowDataSchema.CodeGenerator.PostgresCode***

- Topics
  - PostgresCode

#### Listen

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- Notify\_PostgresCodeChange()
- Publish\_PostgresCode()

#### Send

- Subscribe\_PostgresCode()
- 

### CodeGenerator --> DataAPI Pub-Sub

*Topic Manager is **BowDataSchema.CodeGenerator.DataAPICode***

- Topics
  - DataAPICode

#### Listen

- Generic

- AcknowledgeRequest()
- DenyRequest()
- AcceptRequest()
- Notify\_DataAPICodeChange()
- Publish\_DataAPICode()

Send

- Subscribe\_DataAPICode()

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## BowDataSchema.CodeGenerator.SQLite

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SQLite --> CodeGenerator Pub-Sub

*Topic Manager is* **BowDataSchema.SaskanConcept.SQLiteCode**

- Topics
  - SQLiteCode

Listen

- Subscribe\_SQLiteCode()

Send

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- Notify\_SQLiteCodeChange()
- Publish\_SQLiteCode()

Manage

- MonitorSQLiteCodeChanges()
  - ListSQLiteCodeChanges()
- NotifySubscribers\_SQLiteCodeChange()
- HandleSubscriptions\_SQLiteCode()

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## BowDataSchema.CodeGenerator.Postgres

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Postgres --> CodeGenerator Pub-Sub

*Topic Manager is* **BowDataSchema.SaskanConcept.PostgresCode**

- Topics
  - PostgresCode

Listen

- Subscribe\_PostgresCode()

Send

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- Notify\_PostgresCodeChange()
- Publish\_PostgresCode()

Manage

- MonitorPostgresCodeChanges()
  - ListPostgresCodeChanges()
- NotifySubscribers\_PostgresCodeChange()
- HandleSubscriptions\_PostgresCode()

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## BowDataSchema.CodeGenerator.DataAPI

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DataAPI --> CodeGenerator Pub-Sub

*Topic Manager is* **BowDataSchema.SaskanConcept.DataAPICode**

- Topics
  - DataAPICode

Listen

- Subscribe\_DataAPICode()

Send

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()

- Notify\_DataAPICodeChange()
- Publish\_DataAPICode()

#### Manage

- MonitorDataAPICodeChanges()
    - ListDataAPICodeChanges()
  - NotifySubscribers\_DataAPICodeChange()
  - HandleSubscriptions\_DataAPICode()
- 

## BowDataSchema.SaskanConcept

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SaskanConcept --> Code Generator Pub-Sub

*Topic Manager is **BowDataSchema.SaskanConcept***

- Topics
  - SaskanConcept

#### Listen

- Subscribe\_SaskanConceptList()
- Subscribe\_SaskanConceptObject()

#### Send

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- Notify\_SaskanConceptListChange()
- Publish\_SaskanConceptList()
- Notify\_SaskanConceptObjectChange()
- Publish\_SaskanConceptObject()

#### Manage

- MonitorSaskanConceptChanges()
  - ListSaskanConcepts()
  - DescribeSaskanConcept()
- NotifySubscribers\_SaskanConceptChange()

- HandleSubscriptions\_SaskanConceptObject()
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SaskanConcept --> SubClass, Properties Pub-Sub

*Topic Manager is **BowDataSchema.SaskanConcept.SubClass***

*Topic Manager is **BowDataSchema.SaskanConcept.Properties***

- Topics
  - SaskanConceptSubClass
  - SaskanConceptProperties

Listen

- Generic
  - AcknowledgeRequest()
  - DenyRequest()
  - AcceptRequest()
- SubClass
  - Notify\_SaskanConceptSubClassChange()
  - Publish\_SaskanConceptSubClass()
- Properties
  - Notify\_SaskanConceptPropertiesChange()
  - Publish\_SaskanConceptProperties()

Send

- SubClass
    - Subscribe\_SaskanConceptSubClassList()
  - Properties
    - Subscribe\_SaskanConceptProperties()
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## BowDataSchema.SaskanConcept.SubClass

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Saskan SubClass --> SaskanConcept Pub-Sub

*Topic Manager is **BowDataSchema.SaskanConcept.SubClass***

- Topics
  - SaskanConceptSubClass

Listen

- `Subscribe_SaskanConceptSubClassList()`

#### Send

- Generic
  - `AcknowledgeRequest()`
  - `DenyRequest()`
  - `AcceptRequest()`
- `Notify_SaskanConceptSubClassListChange()`
- `Publish_SaskanConceptSubClassList()`

#### Manage

- `MonitorSaskanConceptSubClassListChanges()`
  - `ListSaskanConceptSubClasses()`
- `NotifySubscribers_SaskanConceptSubClassList()`
- `HandleSubscriptions_SaskanConceptSubClassList()`

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## BowDataSchema.SaskanConcept.Properties

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### Properties --> SaskanConcept Pub-Sub

*Topic Manager is **BowDataSchema.SaskanConcept.Properties***

- Topics
  - `SaskanConceptProperties`

#### Listen

- `Subscribe_SaskanConceptProperties()`

#### Send

- Generic
  - `AcknowledgeRequest()`
  - `DenyRequest()`
  - `AcceptRequest()`
- `Notify_SaskanConceptPropertiesChange()`
- `Publish_SaskanConceptProperties()`

#### Manage

- `MonitorSaskanConceptPropertiesChanges()`

- DescribeSaskanConceptProperties()
- NotifySubscribers\_SaskanConceptProperties()
- HandleSubscriptions\_SaskanConceptProperties()