Sending Messages in Your Application with IEventAggregator



Brian Lagunas
INFRAGISTICS - MICROSOFT MVP

@brianlagunas | https://brianlagunas.com

Agenda



What is the IEventAggregator?

Using the IEventAggregator

Filtering Events

Unsubscribing from an Event

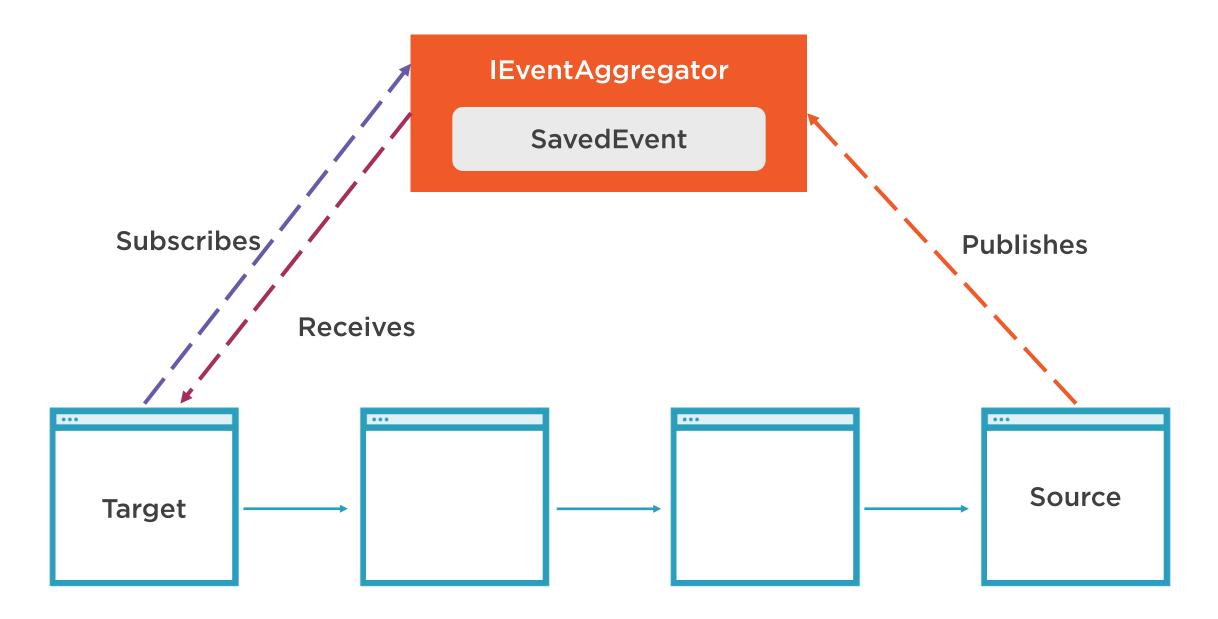


Loosely coupled event-based communication

Multiple Publishers and Subscribers

IEventAggregator





IEventAggregator

Loosely coupled event-based communication

Multiple Publishers and Subscribers

Pass parameters/payloads

Filter events

They're weak events

- keepSubscriberReferenceAlive creates a strong reference
- Unsubscribe from events



Using the IEventAggregator

```
//event
public class SavedEvent : PubSubEvent<string> { }
//publisher
IEventAggregator.GetEvent<SavedEvent>().Publish("some value");
//subscriber
IEventAggregator.GetEvent<SavedEvent>().Subscribe(SomethingSaved);
//delegate
void SomethingSaved(string parameter)
  //do something
```



Demo



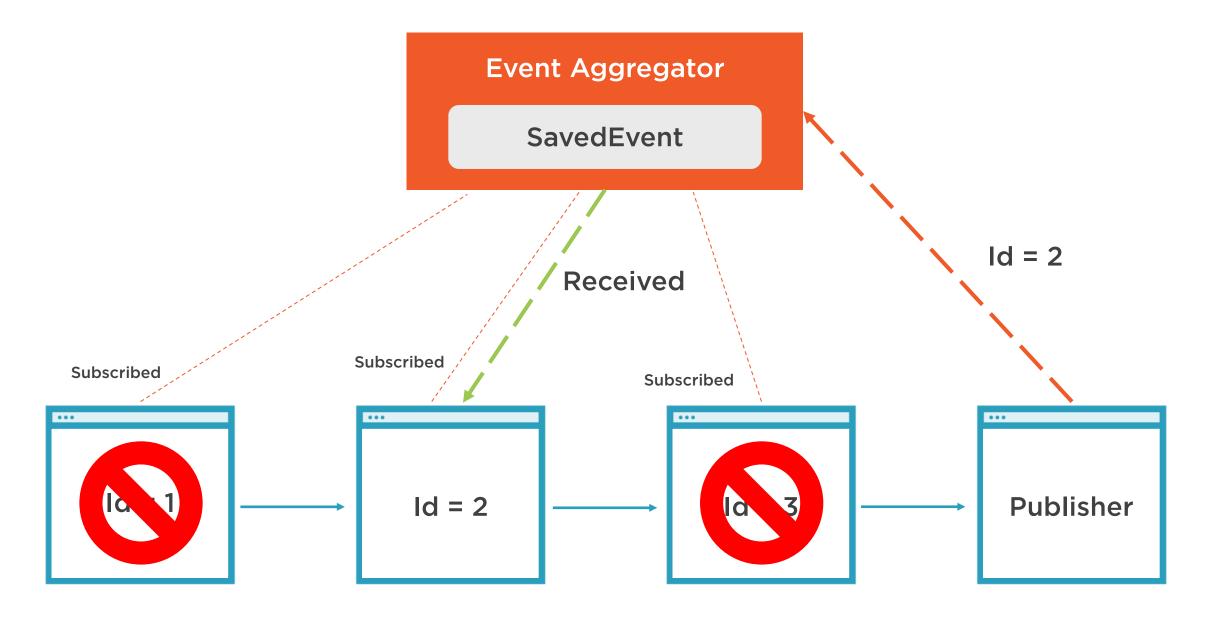
Using the IEventAggregator



Filtering Events

Subscribers may not need to handle every instance of a published event





Filtering Events

IEventAggregator.GetEvent<SavedEvent>().Subscribe(SomethingSaved,

```
void SomethingSaved(string parameter)
{
   //do something
}
```



Filtering Events

```
IEventAggregator.GetEvent<SavedEvent>().Subscribe(SomethingSaved,
    ThreadOption.Publisher, false,
    p => p == "Brian");
void SomethingSaved(string parameter)
  //do something
```



Demo



Filtering events



Unsubscribe

No longer receive events

keepSubscriberReferenceAlive = true

Unsubscribe

- Delegate method
- Subscription token



Unsubscribe with Delegate Method

```
var event = IEventAggregator.GetEvent<SavedEvent>();
event.Subscribe(SavedMethod);
```

//unsubscribe
event.Unsubscribe(SavedMethod);



Unsubscribe with Token

```
var event = IEventAggregator.GetEvent<SavedEvent>();
//get the token
var token = event.Subscribe(SavedEventHandler);
//unsubscribe
event.Unsubscribe(token);
```



Demo



Unsubscribing from events



Summary



What is the IEventAggregator?

Using the IEventAggregator

Filtering Events

Unsubscribing from an Event

