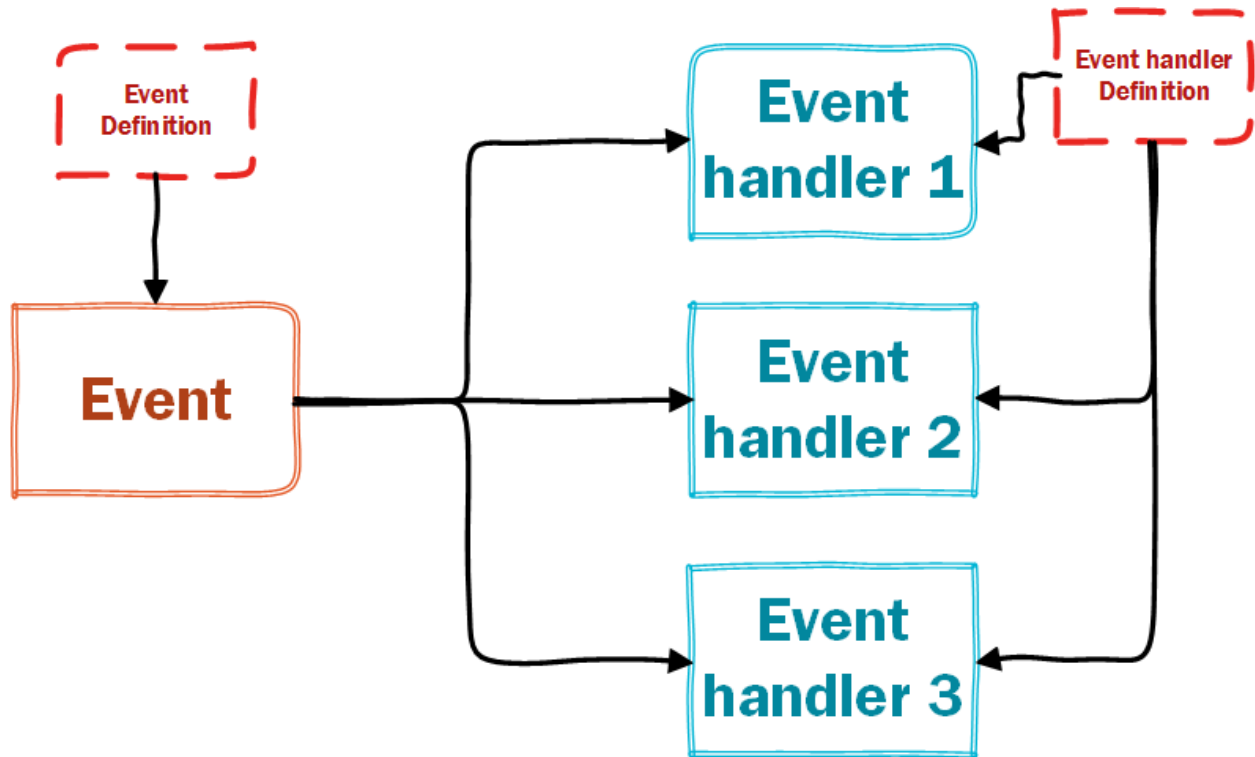


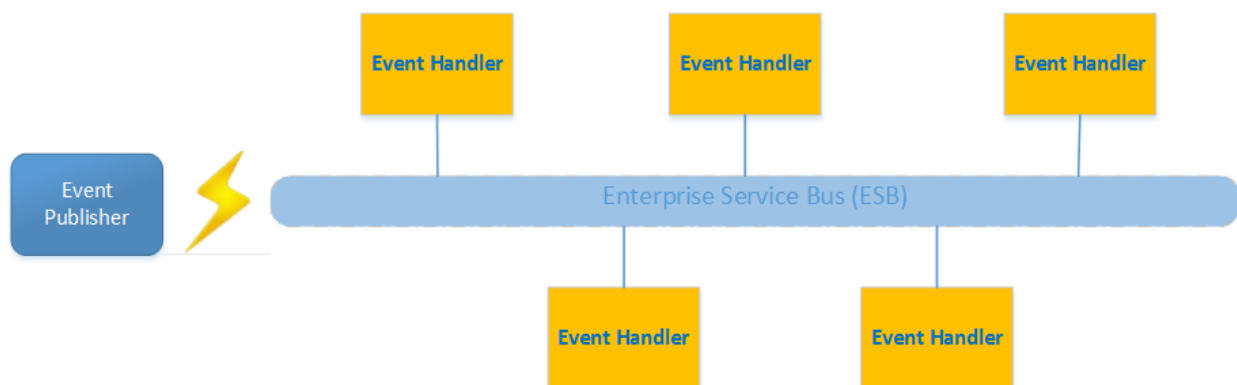
## FlowWright Enterprise Service Bus (ESB)

FlowWright has a powerful ESB that is similar to a traditional publisher-subscriber model, but a one that improves that model to improve performance. FlowWright utilizes Event definition and Event handler definitions to create a bridge between Events and Event handlers.



Once Events and Event handlers are defined within FlowWright using the Configuration Manager, Event handlers can be assigned to Events. A single Event may have any number of Event handlers assigned to that Event. The same Event handler can be also attached to multiple events.

Events can be published using the .Net API or the Web service API.



Once an Event is published to the ESB, assigned event handlers will act on the Event.

Creating a new Event handler.

A new Event handler can be implemented using the interface *deEventHandler*. The interface has one simple method called "execute" that needs to be implemented. Below is code for a sample event handler:

```
public class clsWriteTextFileHandler : deIEventHandler
{
    public void execute(deEventContext oContext)
    {
        try
        {
            Hashtable oEventParms = oContext.getEventParameters();

            string sTempFileName = new FileInfo(Path.GetTempFileName()).Name;

            string sFilePath = Path.Combine("c:\\temp", sTempFileName);

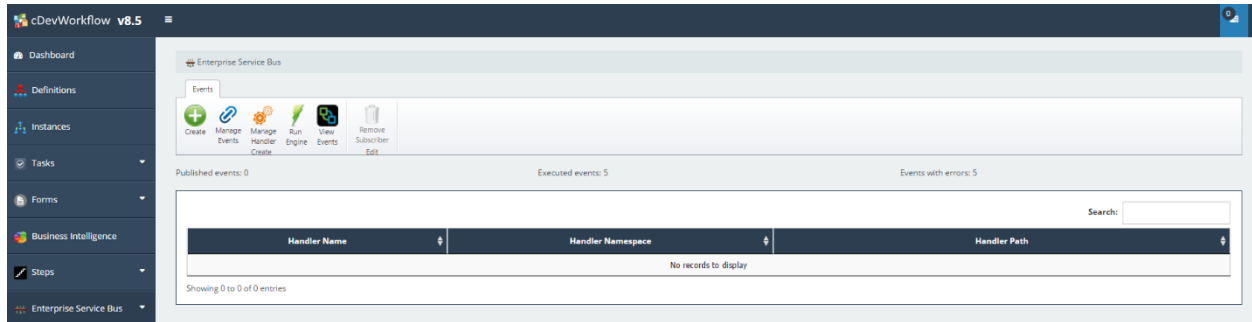
            foreach (DictionaryEntry oItem in oEventParms)
            {
                File.AppendAllText(sFilePath, string.Format("{0} - {1}", oItem
                .Key.ToString(), oItem.Value.ToString()));
            }

            oContext.markEventProcessed(deEventServiceBus.eventStatus.execute
            d, "");
        }
        catch (Exception ex)
        {
            oContext.markEventProcessed(deEventServiceBus.eventStatus.error,
            ex.Message);
        }
    }
}
```

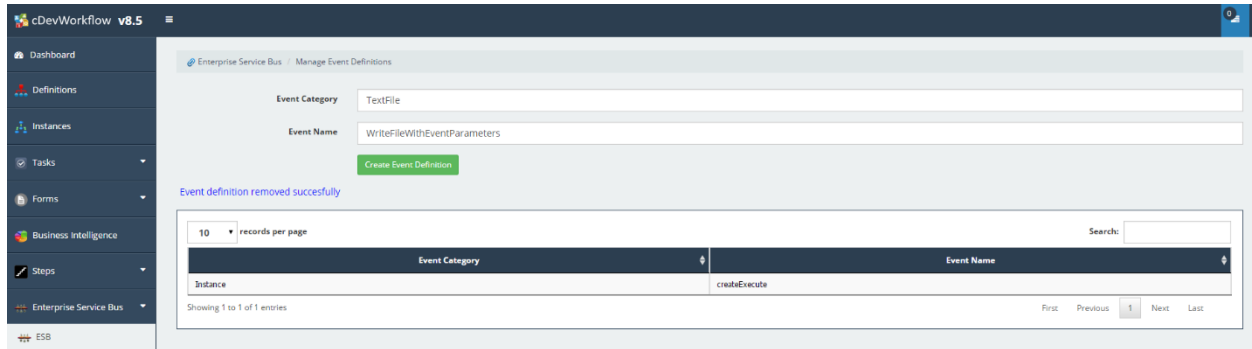
The above code writes all parameters of the event to a text file, it's a simple event handler that demonstrates the configuration and execution of the event. After compiling the event handler to a DLL. Let's configure the event and the event handler using the Configuration Manager.

## Configuring the Event Definition

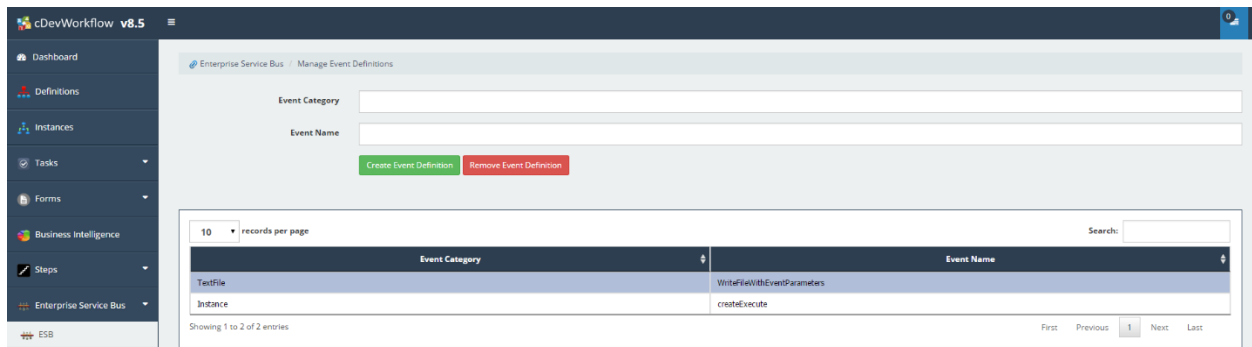
Open FlowWright Configuration Manager and click the “**Enterprise Service Bus**” tab.



Click the “**Manage Event Definitions**” button to define the event.

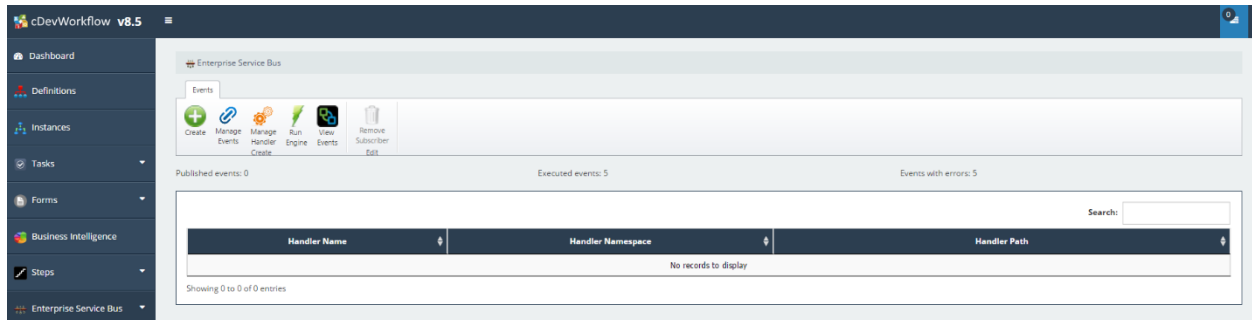


Enter values for Event category and event name and click the “**Create Event Definition**” button to define the event. The defined Event should be rendered in the below table.

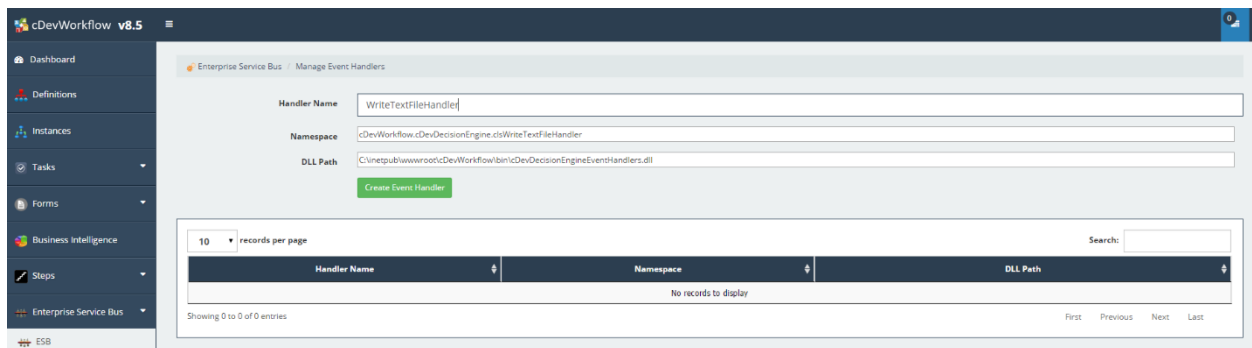


## Configuring the Event handler definition

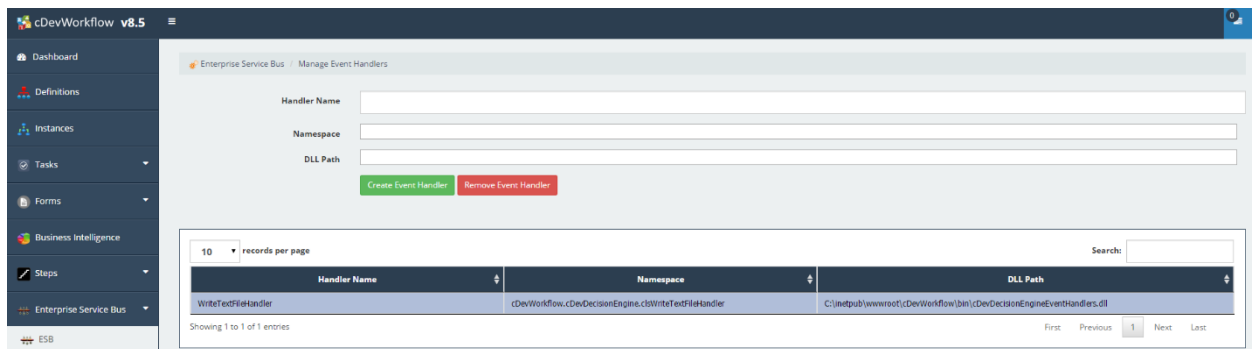
Navigate to the ESB screen and select the “Manage Event Handler Definitions” button to define an Event handler.



Enter the following information to define the new Event handler:



Once the Event handler definition is created, it should render as follows:



## Publishing events

The following code shows how to publish an Event to the FlowWright ESB.

```
//create the Event service bus object
deEventServiceBus oEvt = new deEventServiceBus(sConnStr, "admin");

//get the ID of the event definition
string sEventID = oEvt.getEventDefinitionID("WriteFileWithEventParameters"
);

//create a list of event parameters to pass in
Hashtable oInParms = new Hashtable();
oInParms["data1"] = "Data Elements";
oInParms["verified"] = "yes";

//publish the event
bool bFlag = oEvt.publishEvent(sEventID, "TestApp", oInParms, deEventServi
ceBus.eventPriority.high);
```