

HH Data Management Plugin

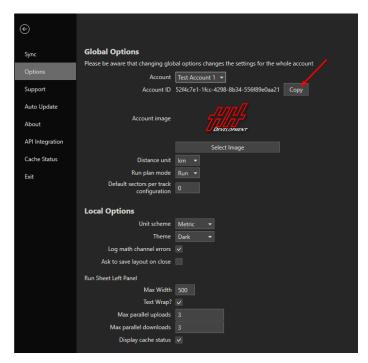
1. IHhDataManagementPlugin

```
#region IHhDataManagementPlugin
Orderences
public string Name => "HHDev Plugin";//plugin Name
Orderences
public string AutoUpdateKey => "HHDM-HHDev";// key used to get auto update in HH DM
Orderences
public Guid PluginId => Guid.Parse("{06B9280A-2343-447A-9F2E-D83C82467DC1}"); // Needs to be a unique Guid
Orderences
public Guid[] AccountIds => new Guid[] { Guid.Parse("52f4c7e1-1fcc-4298-8b34-556f89e0aa21") }; // Account Id accessible in HH DM from File => Option
#endregion
```

Need to change:

- Name
- AutoUpdateKey
- Plugin ID (unique Guid)
- AccountIds

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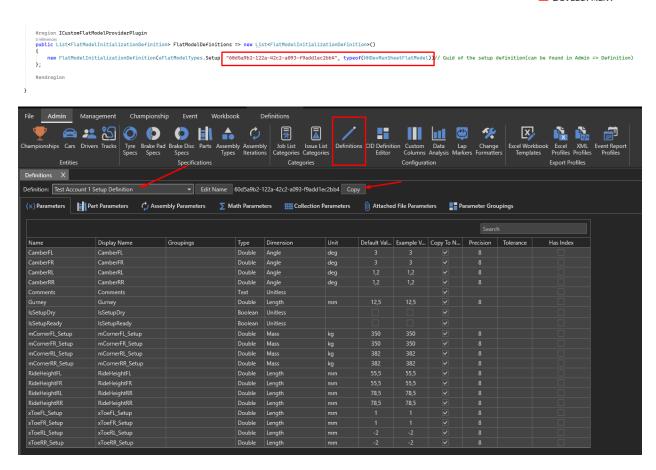


$2. \ \ ICustom Flat Model Provider Plugin$

Needs to change FlatModel Name and Definition Id.

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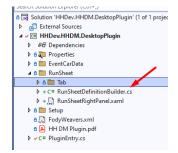




3. IRunSheetCustomizationPlugin

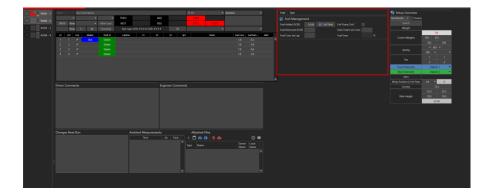
Need to change runsheet ID (can be found in HH DM in the runsheet definition)

Can manage the Runsheet design here.



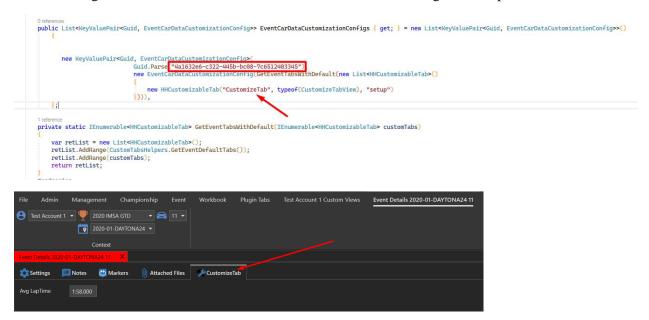
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4. IEventCarDataCustomizationPlugin

Need to change EventCarData definition Id. Can add new tabs following the example of CustomizeTab.



5. Simulation Graphs

This is a simple example to display setup array value on graphs and be able to compare setups. This can be used for simulation result or any setup calculation.

The graphs can be managed in SimulationResultsViewModel

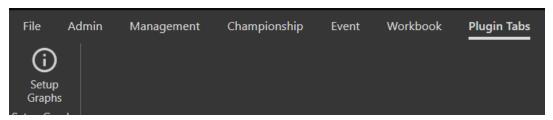
The array are created in the HHDevSetupFlatModel

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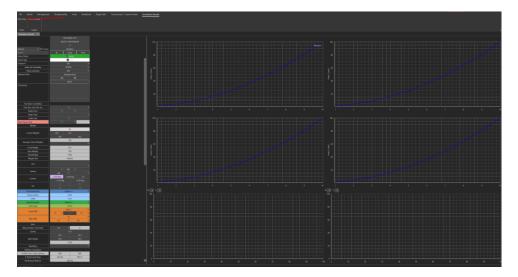


```
■
⊟namespace HHDev.HHDM.DesktopPlugin.Setup
11
12
            public class HHDevSetupFlatModel : SetupFlatModel
13
14
15
                 public HHDevSetupFlatModel(SetupFlatModelInitializationObject initializationObject, TypeWrapperInitializationContain
16
                     base.RegisterParameterAndFunction( // HH DM function with null checks. UpdateRakeCalculation will be called when
new string[] { "RideHeightFL", "RideHeightFR", "RideHeightRL", "RideHeightRR", "Chassis" },//input parameter:
17
18
19
                          UpdateRakeCalculation, //Function called
20
                          new string[] { nameof(RakeAngle) });// parameter updated
21
                     this.PropertyChanged += HHDevRunSheetFlatModel_PropertyChanged;
22
                     this.Maths.PropertyChanged += Maths_PropertyChanged;
23
                     InitializeSimulationValues();
24
                 private void InitializeSimulationValues()
25
26
27
28
                     var arrayl = new double[] { θ, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };
29
                     var array2 = new List<double>();
30
                     for (int i = \theta; i < arrayl.Length; i++)
31
32
33
                          array2.Add(Math.Pow(array1[i], 2));
34
35
                     _simulationResults = new SimulationArraysContainer(array1, array2.ToArray());
36
37
                 private void Maths_PropertyChanged(object sender, System.ComponentModel.PropertyChangedEventArgs e) //called when a !
38
39
40
                     if (e.PropertyName == "NameOfSetupMathsParameter")
41
                          //call function : Important to add null checks
```

A new tab is created in HH DM with a control named Setup Graphs



There is a button to add setup to compare results



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