Adding Custom Missions to Campaign

Introduction

This guide will outline some of the various ways to insert custom made scenarios into the game. In the example below, we will add a custom mission to the base Mechwarrior 5 campaign. It will demonstrate a basic usage of the editor's tools, but the methods and tools examined can be further leveraged to create large-scale campaigns and mission arcs, similar to the base campaign content in Mechwarrior 5.

In the example below, we will take a custom made mission and place it on a specific location in the starmap.

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Common Terms Quick Reference

There are multiple asset types involved in bringing content into a campaign. This is a quick reference for many of those terms.

- Campaign Arc: This is the equivalent of a "quest".
- Metagame Objective: An "incoming transmission" that contains text and reward data.
- Campaign Arc Action: An arc action is an event that happens in the campaign itself. These can be stringed together to offer missions, messages, and other campaign related events.
- Metagame Objective Header: A "category" which is applied to the quest, allowing it to be sorted and tracked in the Mission Log.

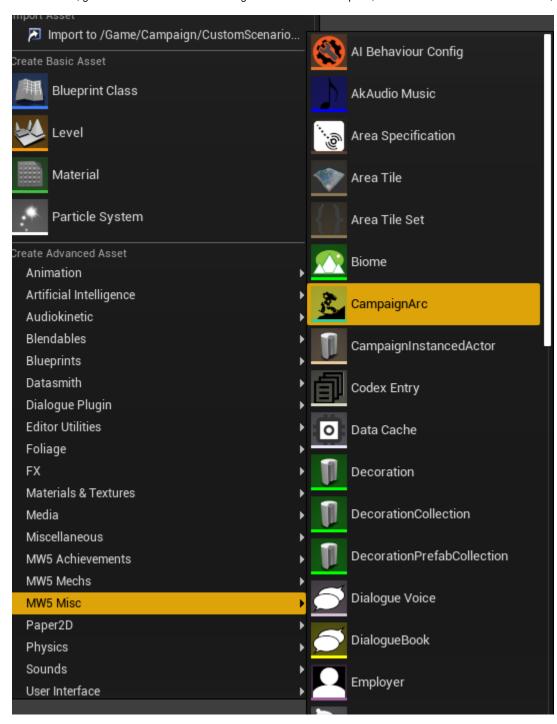
Step 1: Create the required assets

First, it's advisable to contain all the content in a single folder.

1.1 Campaign Arc

Start by creating a Campaign Arc, which will contain all of the mission content and trigger conditions.

To create one, go into the content browser and right click on the blank space, then under the MW5 Misc sub menu, select CampaignArc.



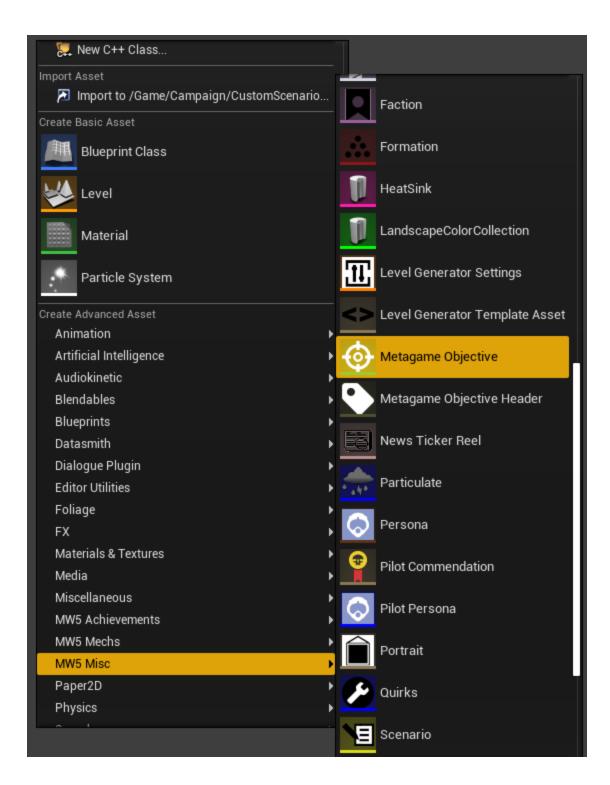
We will call it CustomMission_Arc.

1.2 Metagame Objective

Next, create a Metagame Objective, which is an objective that can be used to track progress, provide rewards, and sends a transmission that will appear to the player. This contains any story details and rewards, and essentially acts as the "quest giver".

To create one, go into the content browser and right click on the blank space, then under the MW5 Misc sub menu, select MetagameObjective.

Call this one CustomMission_Objective.



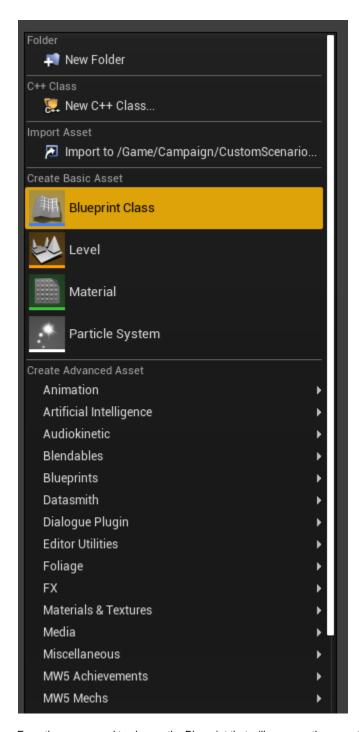
1.3 Campaign Arc Action

A Campaign Arc Action is an "event" that occurs during your quest. We need four for this simple questline. They will do the following:

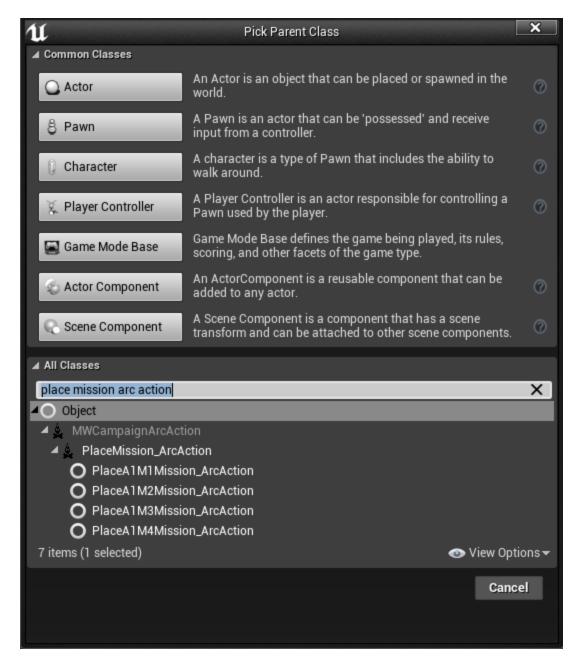
- 1. Offer the quest
- 2. Place the mission on the starmap
- 3. Mark the quest as done when the mission is successful
- 4. Create another action that resets the mission if failed.

To create one, go into the content browser and right click on the blank space, and select Blueprint Class.

Create PlaceMission_ArcAction



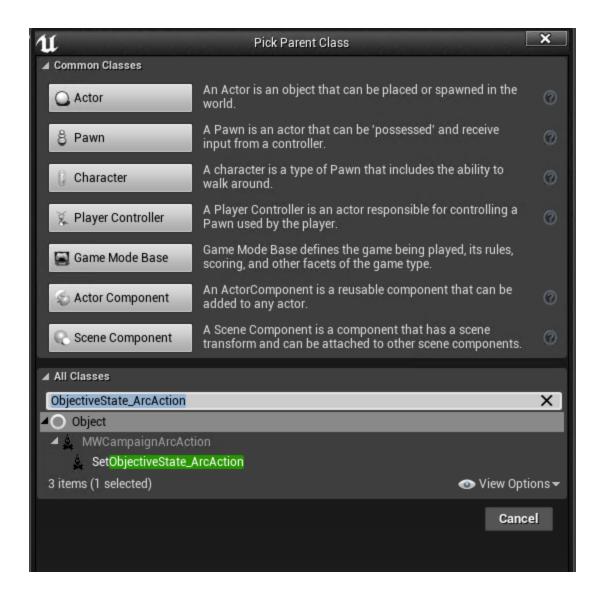
From there, we need to choose the Blueprint that will serve as the parent class. Under All Classes, type Place Mission Arc Action to filter the selection, and choose PlaceMission_ArcAction to select it.



Let's call this PlaceQuest_ArcAction.

Create OfferQuest_ArcAction

Create another one called OfferQuest_ArcAction, and use ObjectiveState_ArcAction as its base.



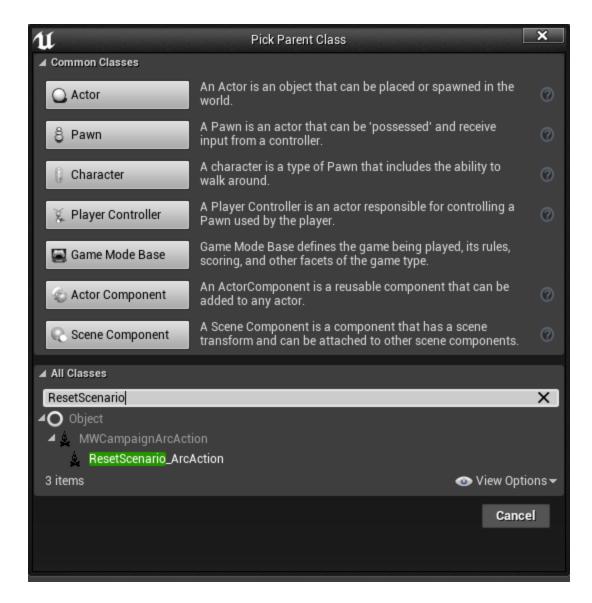
Create Complete_ArcAction

We need another Arc Action. Duplicate OfferQuest_ArcAction, and name it CompleteQuest_ArcAction.

Create ResetMission_ArcAction

Finally, we need one final Arc Action, that re-places the mission of the player fails it.

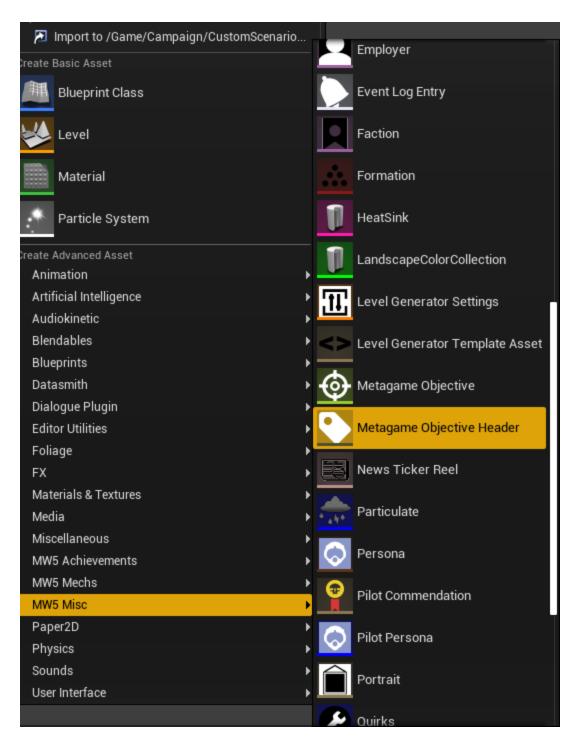
Use ${\tt ResetScenario_ArcAction}$, and name it ${\tt ResetMission_ArcAction}$.



1.4 Metagame Objective Header

The header is a "category" which is applied to the quest, allowing it to be sorted and tracked in the Mission Log.

To create one, go into the content browser and right click on the blank space, then under the MW5 Misc sub menu, select Metagame Objective Header.



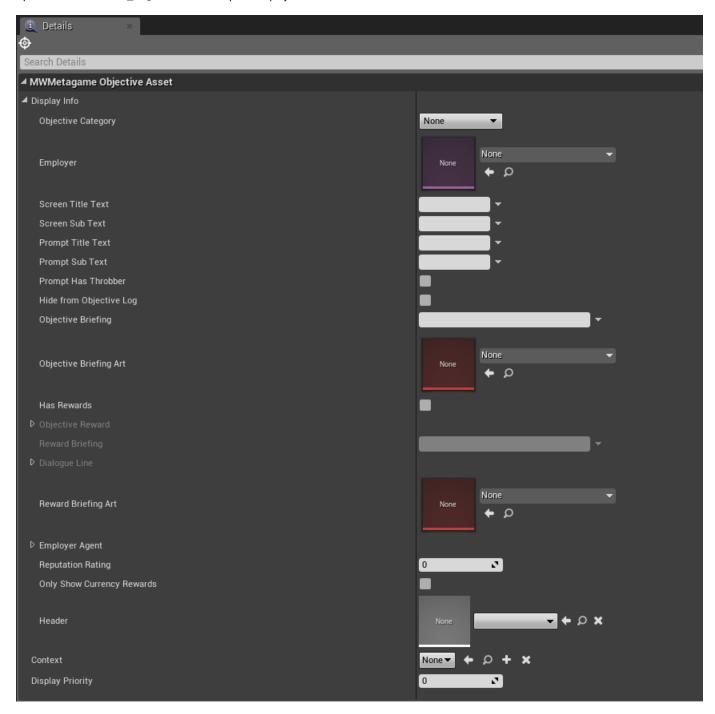
Name this one CustomMission_Header.

While we're at it, open it up and give it some text. This will be the category name that the quest will fall under in the log. Usually it's best to give it the name of the quest you'd like to create.



Step 2: Fill out Metagame Objective Data

Open CustomMission_Objective and expand display info:

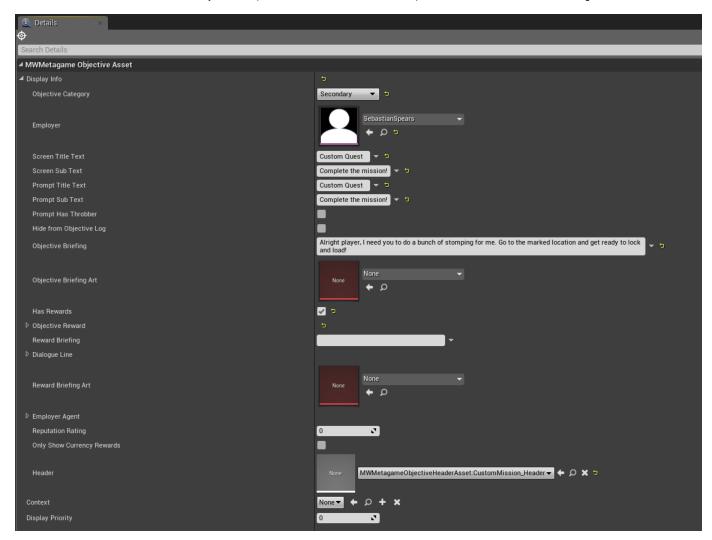


For our purposes, only the following fields are relevant:

- Employer: Metagame data for the employer faction, can largely be ignored for our purposes.
- Screen Title Text: The quest name that appears in the transmission.
- Screen Sub Text: The sub-objective that appears in the transmission.
- Prompt Title Text: The quest name that appears in the starmap UI. This can be shortened if the title is quite long.
- Prompt Sub Text: The sub-objective that appears in the starmap UI.
- Objective Briefing: The body text of the transmission. This is where the good flavor is added!

- Has Rewards: If you want to give the player a reward for completing the quest, mark this as true.
- Objective Reward: The rewards to give to the player upon completion.
- Reward Briefing: The text to show the player when the quest is complete.
- Employer Agent: The name and image of the speaker who appears in the prompt.
- Only Show Currency Rewards: If checked, the rewards (other than chills and reputation) will be presented as question marks. This is used for when we want to hide rewards from players.

Fill it out the fields with whatever content you'd like (we'll look at rewards in a moment), which should look like the following:



Employer Agent

Expand the Employer agent, and then further expand the Persona Data dropdown.

These are the fields you can fill out to assign a character to the transmission.



You have two options- you can create a new character, by filling out the Full Name field, and selecting a Portrait Asset ID from the list of available assets presented in the dropdown.

Additionally, a large number of premade Persona assets are available for your use. A persona asset contains the name, portrait, and other character data. You can manually add one by selecting it from the Persona Asset ID dropdown.

For our use, let's select the pre-existing Sebastian Spears persona.



NOTE: You can also create your own Persona Assets and even Portrait Assets if desired.

Header

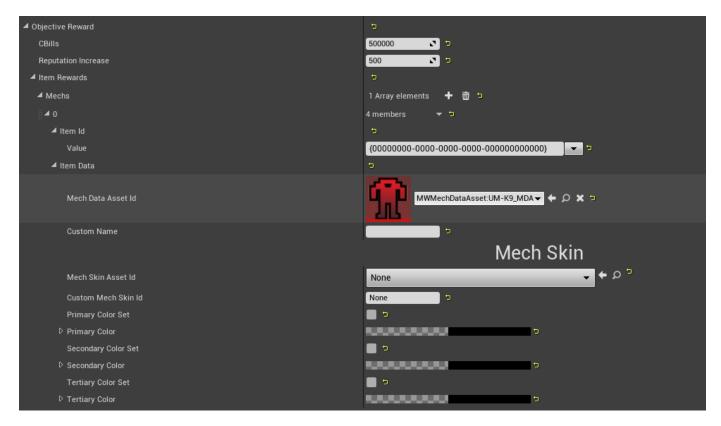
Under Header, be sure to select the new Header asset (CustomMission_Header) we just made.

Adding Rewards

If you'd like to add rewards to this quest be sure to mark Has Rewards as true, and then expand the Objective Reward dropdown.

In here, you can add CBill, Reputation and item, pilot and other types of rewards.

In the example below, I've assigned CBills, Rep, and even included a Mech as a reward. If you click the Mech Data Asset dropdown, a list of all available loadouts will be available. Other settings such as custom paint skins are available too.



If you are offering any sort of item or 'Mech reward, you need to generate a valid Item ID.

To do this, click the arrow next to the Value and select Generate.



You should see the value in the field change to a new GUID.

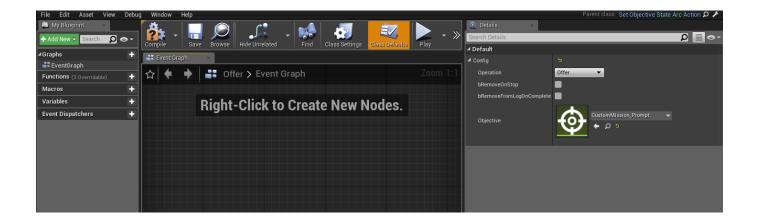
Step 3: Fill out the "OfferQuest" Campaign Arc Action

Now we need to fill out the data in the Arc Actions, which act as "events" in the questline.

Open up OfferQuest_ArcAction. This Campaign Arc will send the tranmsission and start kickoff the objective.

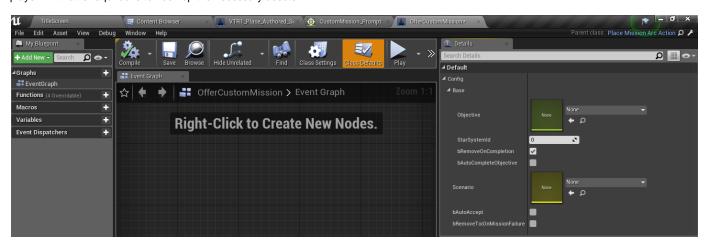
In the Objective field, add the Metagame Objective CustomMission_Objective.

Under operation, leave it set as "Offer", meaning the selected objective will be offered when this event is triggered.



Step 4: Fill out the "PlaceMission" Campaign Arc Actions

First, open up the PlaceMission_ArcAction Campaign Arc. The logic for this blueprint actor will place the mission in the Starmap for the player. All that is required is to hook up the necessary assets.



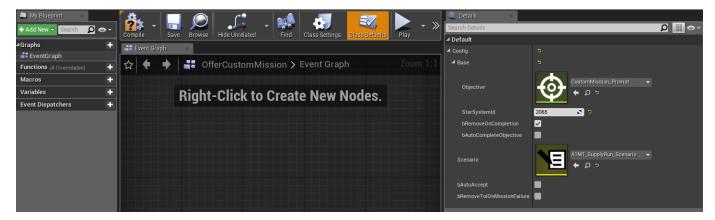
Fill out the following:

- Objective: This is where the Metagame Objective (CustomMission_Objective) is added. Place it here.
- StarSystemID: This is the location in the Starmap where the mission will be placed. Each star system in the Starmap has a numerical ID.
 - To find an ID, navigate to to Content/InnerSphereData and open up MW5_InnerSphereData.
 - This is a data table that contains the information of every system on the map. You can search by name to retrieve the ID.
 - In the example below, the System "Brundage" has an ID of 2065.

arch												
N	lame	Star System Name	Pos X	Pos Y	System Type	Spectral Type	Luminosity	Sub Type	System Status	Charging Station	Orbitals	Habitable
65 21	065	Brundage	407.000000	50.000000	Normal	G	III	4	Normal	None	Unspecified	H 1Plus
56 20	066	Mayetta	409.000000	7.000000	Normal	F	II		Normal	None	Unspecified	H 1Plus
57 20	067	Neukirchen	410.000000	-249.000000	Normal	None			Normal	None	Unspecified	Unspecified
58 20	068	Niquinohomo	411.000000	-229.000000	Normal	None			Normal	None	Unspecified	Unspecified
9 2	069	Land's End	411.000000	323.000000	Normal	None			Normal	None	Unspecified	Unspecified
70 20	070	Waimalu	412.000000	-180.000000	Normal	None			Normal	None	Unspecified	Unspecifie
1 2	071	Charleston	413.000000	-393.000000	Normal	None			Normal	None	Unspecified	Unspecifie
3 2	073	Anguilla	415.000000	80.000000	Normal	None			Normal	None	Unspecified	Unspecifie
4 2	074	Cerulean	416.000000	-81.000000	Normal	None			Normal	None	Unspecified	Unspecifie
5 2	075	Kokpekty	416.000000	305.000000	Normal	None			Normal	None	Unspecified	Unspecifie
7 2	077	Sullivan	417.000000	-31.000000	Normal	None			Normal	None	Unspecified	Unspecifie
8 2	078	Princton	417.000000	27.000000	Normal	None			Normal	None	Unspecified	Unspecifie
9 2	079	Sturgis	420.000000	69.000000	Normal	None			Normal	None	Unspecified	Unspecifie
30 20	080	Carvajal	421.000000	-439.000000	Normal	None			Normal	None	Unspecified	Unspecifie
1 20	081	Rezak's Hole	422.000000	342.000000	Normal	None			Normal	None	Unspecified	Unspecifie
2 2	082	Suianheer	423.000000	249.000000	Normal	None		0	Normal	None	Unspecified	Unspecifie

 Scenario: Link to the custom mission you'd like to place. For here, we're just pointing to a campaign mission from the base Mechwarrior 5 campaign.

At the end of the process, the Campaign Action should look like the following:



Step 5: Fill out the "CompleteQuest" Campaign Arc Action

Finally, we need to fill out CompleteQuest_ArcAction

Open it up, and in the Objective field, add the Metagame Objective CustomMission_Objective.

Under operation, this time set it as "Complete". What this means is that the selected objective will be marked as "complete" when this event is triggered.



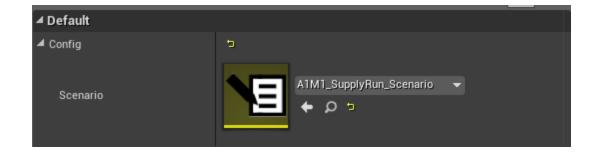
Step 6: Fill out the "ResetMission" Campaign Arc Action

If the player fails your custom mission, it will be removed from the Starmap. We will need to place it again on the map under that circumstance.

Finally, we need to fill out ResetMission_ArcAction

Open it up, and in the scenatio field, add the scenario of your choice. This should be the same scenario you added in PlaceMission_ArcAction.

Under operation, this time set it as "Complete". What this means is that the selected objective will be marked as "complete" when this event is triggered.



Step 7: Add the Campaign Arc Actions into the Campaign Arc

Now all we need to do is chain together our three Arc Actions and assign conditions for how they trigger.

Open up CustomMission_Arc, and you will see the following:



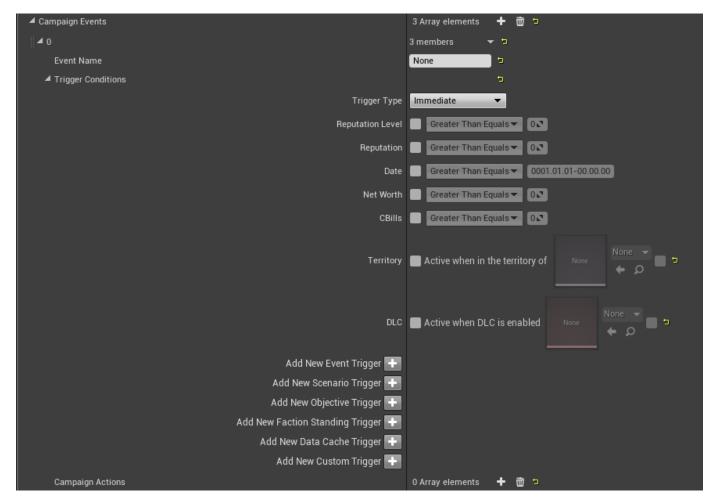
The top area called will allow you to add other campaign arcs within this current one. This is useful for nesting other campaigns inside a broader asset, but for now we don't need to worry about this.

The Events section is where the conditions and actions are determined.

For each Action, we'll make a new entry inside Campaign Events. Each event has a wide array of conditions and logic to apply to it.

Campaign Arc Conditions

Before we hook things up, let's take a look at the trigger conditions:



Event Name: The name of the event inside a quest. These can be referenced by other events for checking completion.

Trigger Conditions: Contains the various conditions that must be met in order for the event to occur.

- You will see a number of different variables inside trigger conditions, such as Rep Level, Date, the amount of Cbills the player has
 earned, and even the completion state of other objectives and missions.
- The Trigger Type variable provides a number of types of conditions:
 - Immediate: Only triggers once, and immediately marks itself as resolved when the criteria is met.
 - One Off: Ony triggers once, but marks itself as resolved when any criteria is not true.
 - Always: Triggers when criteria is met, resolves itself if any criteria is not true. However, this can trigger again if the criteria is met again.

With that in mind, let's add the arc actions.

Add the "Offer Quest" Action

Let's make the first event, which will "Offer the Quest".

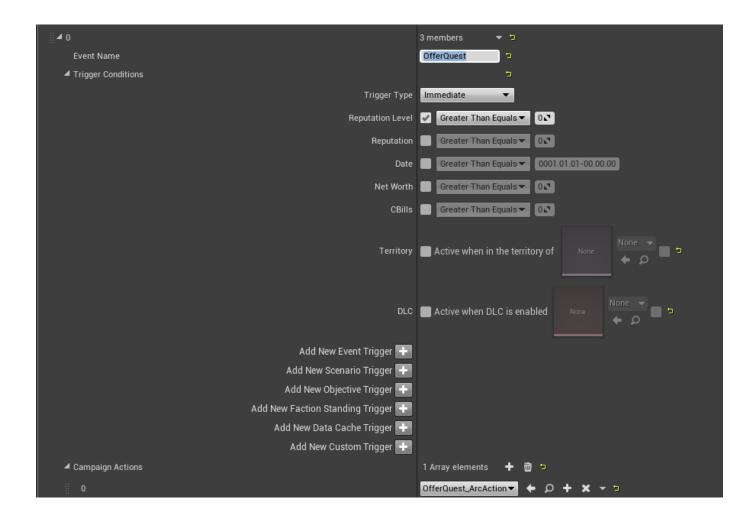
Name the event OfferQuest.

Set trigger type as immediate.

For this sample quest, let's make it appear immediately for players. We'll do this by checking <code>ReputationLevel</code>, and setting it to Greater or Equal to 0. This means if the player is above Rep 0, this event will trigger. If you'd like other conditions, such as triggering after a certain Stamap Date, reputuation level, or anything else, feel free to experiment.

 $\label{thm:campaign} \textbf{ Actions}, \textbf{ let's add OfferQuest_ArcAction}.$

This will result in the OfferQuest_ArcAction triggering once, immediately for the player.



Add the "Place Quest" Action

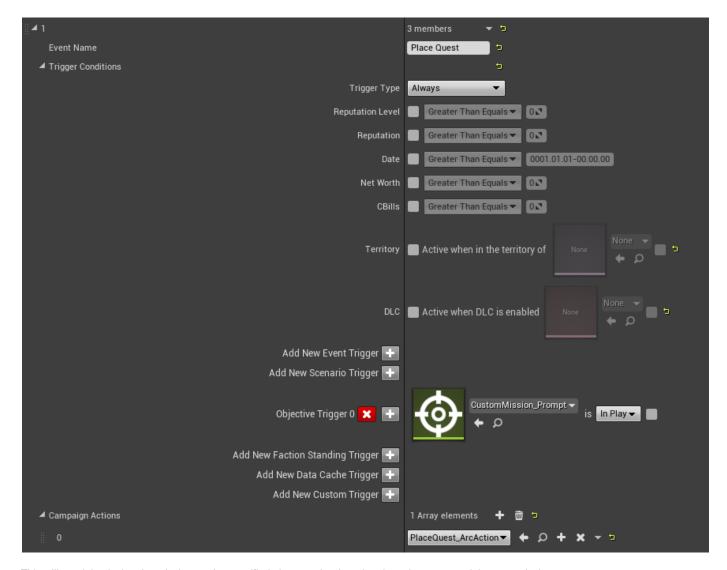
Next up, if the player has accepted the transmission, we want to then place the quest. We will do this by making another event called "Place Quest", which triggers once the player has accepted the transmission.

This is done by adding an Objective Trigger. Do this by hitting the plus icon, and then linking to the transmission we made, CustomMissio n_Prompt.

Next to it, you will see a drop down with different options. Select In Play. (More on this in a moment)

Under Campaign Actions, link to the PlaceQuest_ArcAction.

The event should look like this:



This will result in placing the mission on the specified planet, only when the player has accepted the transmission.

Next to the Objective Trigger condition is a dropdown with some options:

- In Play: Triggers if the objective has been accepted, and is running.
- Offered: Triggers if the objective has been offered or complete (ie, the transmission being sent), but not yet accepted by the player.
- Active: Triggers if the objective has been offered but not yet complete.
- · Complete: Triggers if the objective is offered

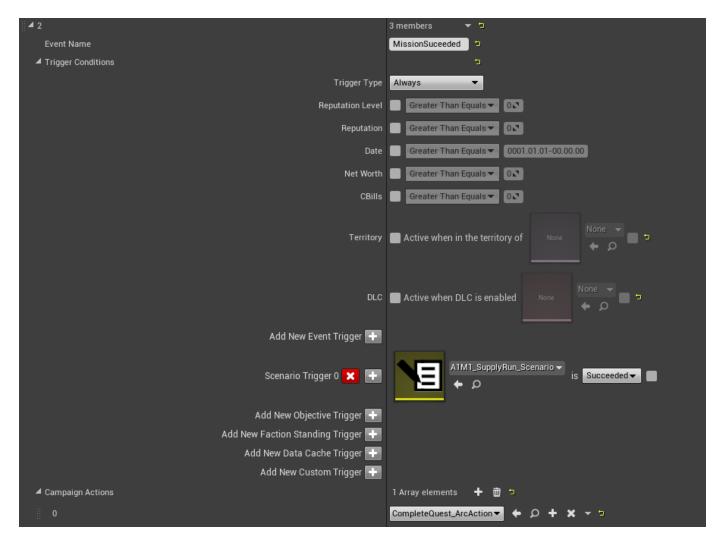
Additionally, there is a checkbox next to the condition that inverts it- meaning if you check it, next to In Play, you'd create a condition where it triggers if the Objective is NOT In Play.

These can be leveraged to create branching arcs via conditions- IE, you can offer a specific mission, only if you have or haven't completed a previous objective, etc.

Add the "Mission Succeeded" Action

We need to mark the quest as complete when the player finishes the mission successfully.

Create the following event:



This time, place a condition in Scenario Trigger. Make sure it's selected as succeeded.

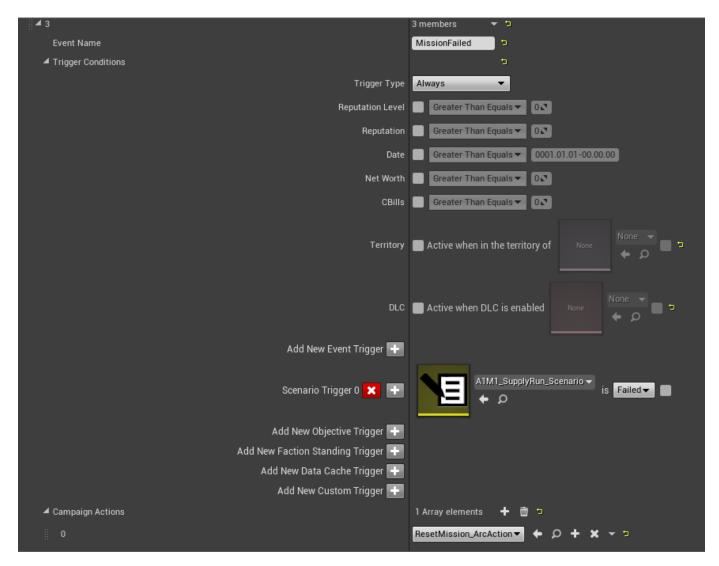
Add the CompleteQuest_ArcAction to the event.

This will result in us calling CompleteQuest_ArcAction when the mission of our choice is a success.

Add the "Mission Failed" Action

Finally, we need to handle the failure state. We are simply re-planting the mission at the location, but you can offer other missions, quests, and transmissions as desired.

Create the following event:



This closes out our simple quest.

Step 7: Insert the Quest Into the Game

Everything is now complete, and all the logic is nested within CustomMission_Arc. All that remains is adding it to a campaign.

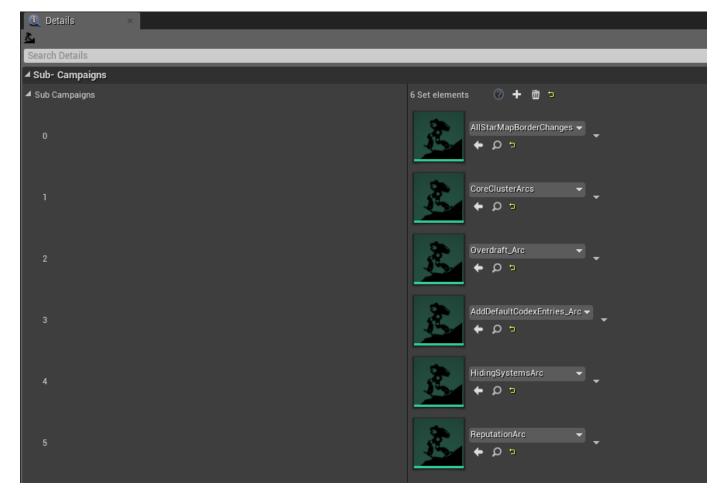
You are able to place this in different campaign types. Where you decide is up to you, and you can even create your own entire custom campaign filled with unique start conditions and missions.

In general however, the most common places to inject new story content would either be into the base Mechwarrior 5 campaign, or the Career Mode.

For our purposes, let's add this to the base MW5 Campaign:

Navigate to Content/Campaign/CampaignArcs and open up the file MW5CoreCampaign.

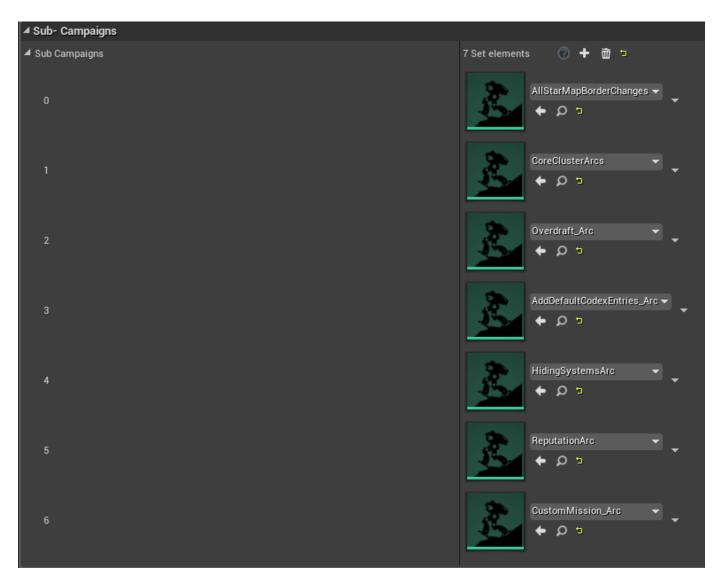
This is simply a larger, more complex Campaign Arc that contains all the information and logic for the main campaign:



For the sake of modularity, the core components are broken into smaller campaign arcs, and nested within the sub Campaign sections. These contain things like controlling the starmap borders, offering the main story quests, handling end-game states and more.

We don't want to remove anything, but instead just inject our new content to the campaign. Leave everything as is, but add a new sub campaign.

Insert CustomMission_Arc into the new sub campaign:



The order is not taken into account, and all the logic for triggering this is all handled in the Arc we just created.

Additional content and events can be further added to the campaign by adding them into this Arc.

Step 8: Test the Content

If everything has been setup correctly, you should be able to instantly see the quest in game. You can start a new campaign, or load an existing one, provided it's the base campaign per our example:

