

MOCAPONLINE ANIMATIONS - UE4 VERSION COMPATIBILITY AND USAGE

Yes, most all of our animation packs are compatible with all current UE4 engine versions 4.8 - 4.xx. That is the short answer, this doc will go into detail about importing them and other notes on their usage. Please read all the details below, or jump to the desired section to get right into animation import workflow or other specific bits.

There has been some confusion about UE4 version compatibility with our packs, the UE4 Marketplace listings and Vault Library add to the confusion.

THE UE4 MARKETPLACE AND LAUNCHER VAULT

At the time of this original writing, the Marketplace doesn't always officially list our pack versions correctly, and this is reflected in the Launcher Vault. One current example: "Zombie Starter" is listed as 4.12 only, which is incorrect. It was created with 4.10 and forward compatible as I am explaining. The Vault would lead you to believe and only allow you to "Add" it to a 4.12 project. Incorrect, confusing and frustrating to end users and us alike.

12/08/2016 Revision

A fellow content creator (thanks to "Pirate") pointed out a newer seller account feature, and all packs now should show correct compatible versions for simple "Add To Project". As always, email us if something isn't working.

Also, upcoming packs will contain Blueprints and likely be locked to a certain engine version. The contained animations will still be able to be used in older versions using FBX import and/or newer version via "Migrate". Both methods are discussed below.

MOCAPONLINE ANIMATION PACKS

Most all of our current animation pack projects are only animation assets, so they are always forward compatible, that is when using the "Migrate" function inside UE4. However, they are typically not backwards compatible when using "Migrate". This is why we don't update our packs every time there is a new engine release, it would leave users not on the cutting edge out in the cold. (Although FBX import will work in any version, discussed later)

OPENING OUR ANIMATION PACKS IN NEWER ENGINE VERSIONS

A. If you purchased on the Marketplace, this is a standard workflow:

1. Create a new blank project with the engine version the Vault states is compatible for the pack.
2. "Add To Project" the pack to your new "compatible" project.
3. Open the project, then right-click on the main top folder of the added pack. (E.g. "Zombie_01", etc.), choose "Migrate..." in the popup menu. Click OK in the window confirming what will be migrated.

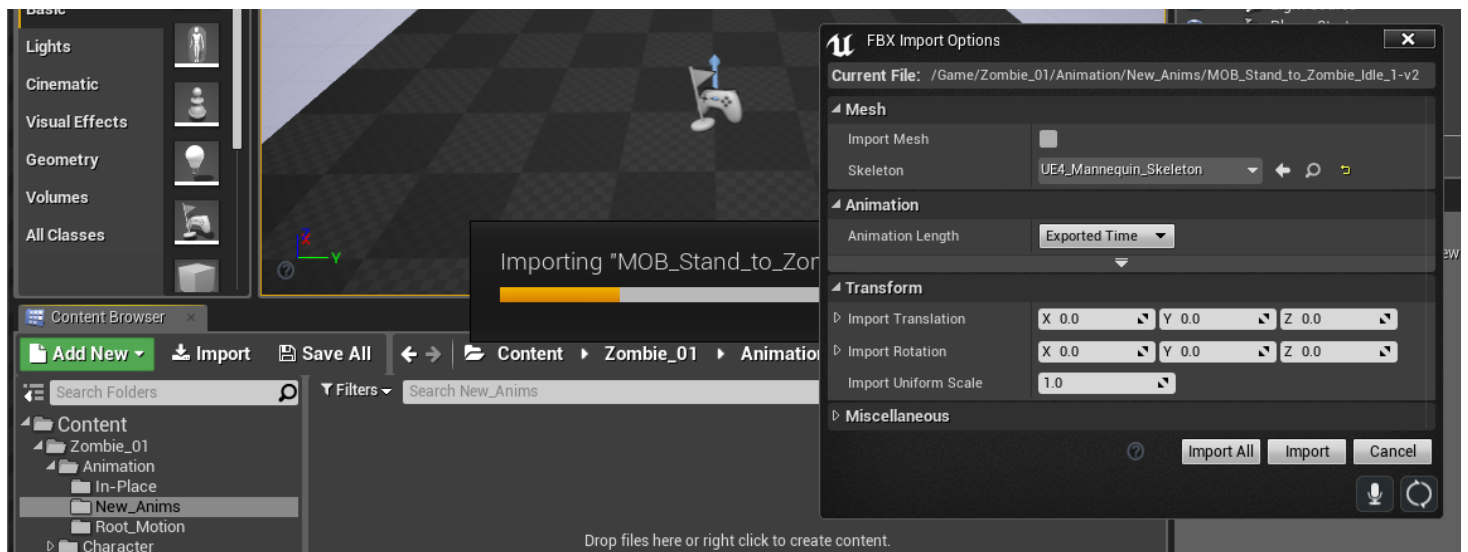
4. Choose the "Content" directory to a 4.xx project of your choice. (Create a new blank 4.xx project first if you don't have existing one.) Click OK.
5. You should now have a 4.xx version project of our animation pack.
6. You can of course from here "Migrate..." them to another project, but remember that migrating backwards to a previous version typically doesn't work.

B. If you purchased at www.MocapOnline.com and/or already have the pack/files downloaded to your HDD, double-clicking the original pack's .uproject file should open it in it's native engine version (assuming it's already installed). You can skip to step 3. in the above directions and "Migrate..." from there.

OPENING OUR ANIMATION PACKS IN ANY ENGINE VERSION USING FBX

All of our packs include the "Source" FBX animation files. They are an FBX version of the UE4 SK_Mannequin with the animations. The FBX can be imported into any UE4 engine version project onto the Skeleton of an existing "SK_Mannequin" (Or import our supplied FBX SK_Mannequin first, "A" pose or "T" pose. Also download them here: <https://goo.gl/P0IOki>) .

1. Open any existing 4.xx project which already has the UE4 SK_Mannequin being used in it.
 - a. If your project doesn't yet contain the SK_Mannequin, you can import our included FBX SK_Mannequin first. It will function identically, but not have the fancy shaders of the UE4 default version.
2. Create or choose a folder location in the editor for the imported animations.
3. From your HDD, drag the FBX animation files into the editor folder. (They will be in the "Source/FBX" folder of the pack project) The Import dialog will appear.
4. Do not "Import Mesh", Skeleton only. Choose the "UE4_Mannequin_Skeleton". Click "Import All".



5. Click "Save All" to save the new animations.

ANIMATION PACKS WITH WEP BONES

Our newer version of the SK_Mannequin skeleton has “wep”(weapon) bones as children of the hand bones. These are animated to position the Rifle/Pistol etc. and come with a socket on them already set up in our pack projects.

Using “Migrate...” to install our animation packs will include and preserve the “wep” bones and sockets.

Using the FBX only method to install our animation packs will not include and preserve the “wep” bones and sockets, unless they are of course already in the project you are importing into.

“A” POSE OR “T” POSE - THE RETARGET MANAGER

Most of our current packs come with a default “T” pose for the humanoid “Retarget Manager”. This is different from the new “A” pose from Epic. This is different from the new “A” pose from Epic. Since many users asked if we could provide a “T” that they were already using, we obliged.

A small history lesson FWIW (Stay awake class):

The "right" pose is a matter of opinion, since when Epic switched (thank goodness) to the much improved new SK_Mannequin for 4.8 it changed from a default “T” Pose to an “A” pose. This is a function of the skinning bind pose of the mesh, seemingly not a conscious design decision to retire the “T”; the new character is actually by default in the “T” Pose with all bones at zero rotation, but it was skinned with arms rotated down to match the newly modeled mesh. UE4 always imports skeletal meshes in the bind pose regardless of zero or actual bone rotations in the file. Your preference and use of “A” or “T” is up to you.

CHANGING BETWEEN “A” OR “T”

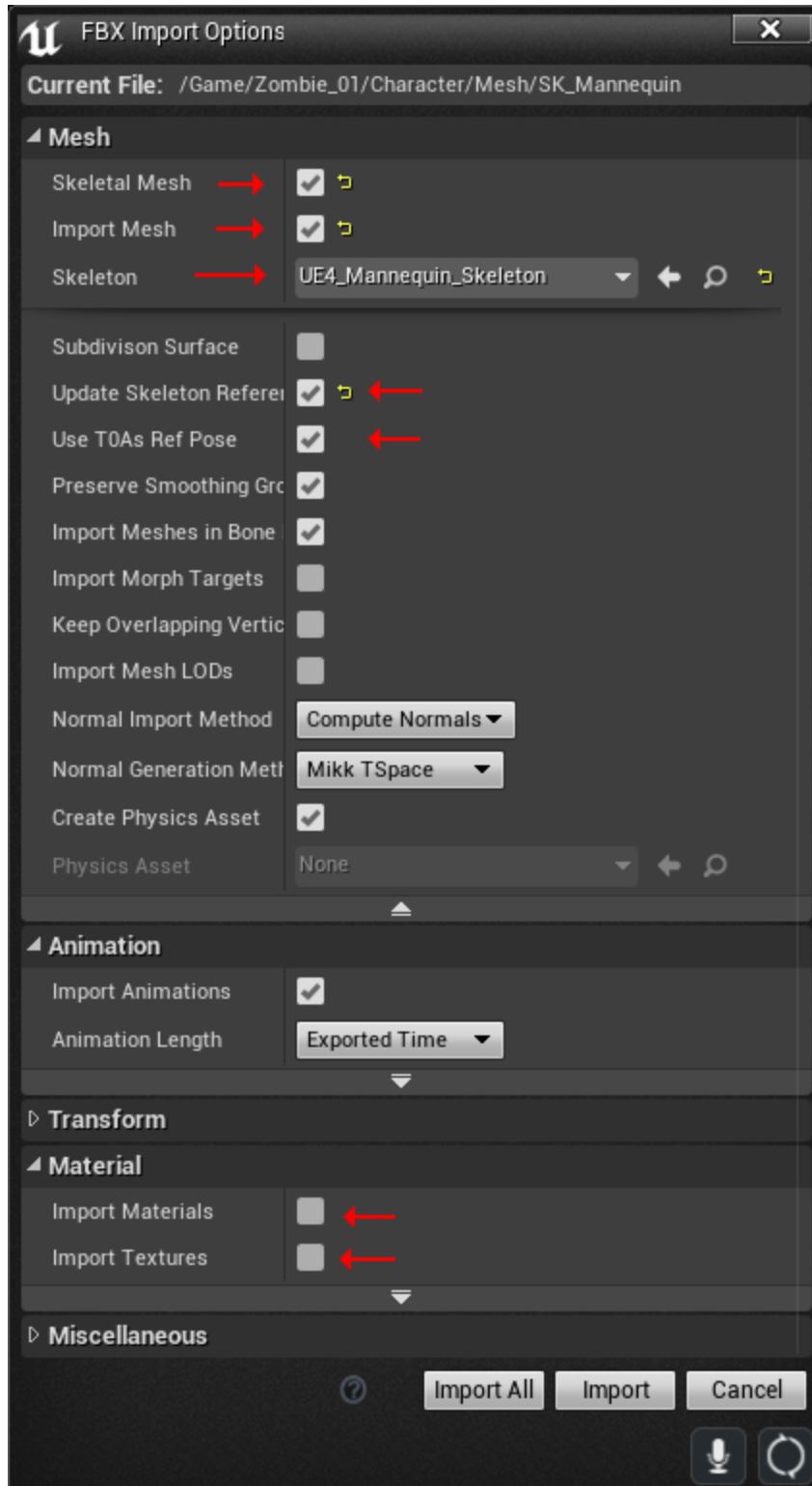
The current default pose can be changed/overwritten by reimporting/merging our provided “SK_Mannequin.fbx” files using specific settings, versus manually having to eyeball rotate all those bones in the UE4 editor, a serious drag.

Download them here:

<https://goo.gl/P0lOKi>

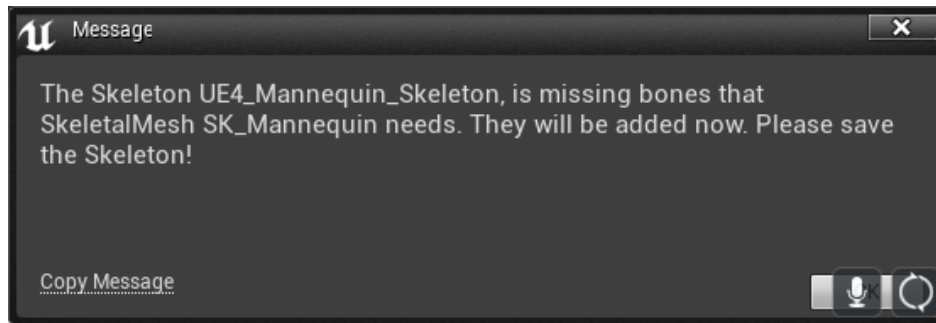
1. Open the UE4 pack/project containing the SK_Mannequin that you want to convert from “A” to “T” or vice versa.
2. In the editor, go to the folder containing the “SK_Mannequin” skeletal mesh.
3. Right-click in the folder and click “Import Asset”. Choose the desired “SK_Mannequin.fbx” in the designated “A” or “T” folder.
4. When asked to overwrite the existing asset, click yes.

5. Use the settings as shown:
- Check “Skeletal mesh”, “Import Mesh”, choose the “UE4_Mannequin_Skeleton”
 - Check “Update Skeleton Reference”, “Use T0As Ref Pose”
 - Un-Check “Import Materials”, “Import Textures”



6. Click “Import”.

7. ***NOTE: If you are updating an SK_Mannequin that did not already contain “wep” bones, you will get a dialog stating that they were missing and are now being added. This is normal. Adding the “wep” bones will not affect any current or future animations in your project. They are auxiliary and simply ignored and idle when not in use.



The SK_Mannequin will be updated in-place with the new default pose and any associated animations will stay connected. Be sure to Save the new and changed assets..

*****This is an undoable action!** So unless you are comfortable with and sure of the process you should practice with a test project. The most important parameter (they're all important) is selecting the current “UE4_Mannequin_Skeleton”, which keeps it in place and connected to all animations and work currently in the project. When done correctly nothing in the project will change other than the updated retarget pose and an added pose animation.

Any other questions or comments, please contact us at: MoCap@MotusDigital.com