```
<?xml version="1.0" encoding="UTF-8"?>
<enderio:recipes xmlns:enderio="http://enderio.com/recipes" xmlns:xsi="http://www.w3.
org/2001/XMLSchema-instance" xsi:schemaLocation="http://enderio.com/recipes recipes.
xsd ">
```

<!--

These are the built-in aliases. You cannot change this file, it is a reference for you only and will be generated every time the game starts.

To make changes to the aliases, copy the aliases you want to change to a file in the 'user' folder.

You can also disable all built-in recipes with the setting "loadCoreRecipes" in the Ender IO config file, so that only your files in the 'user' folder will be loaded. Please be advised that a number of recipes are absolutely needed, so you will have to copy those over into a 'user' file for the game to load.

Item specifications can reference an alias, an ore dictionary name, a block or an item. You can force the type by prefixing the value with "oredict:", "block:" or "item:". Recipes that have items that cannot be found in-game are either skipped or an error, depending on their "required" attribute.

More information on the syntax can be found in the recipes.xsd file. An XML editor will display that as tooltips when editing this file.

```
<alias name="CHASSIS" item="itemMachineChassi" />
<alias name="SIMPLE_CHASSIS" item="itemSimpleMachineChassi" />
<alias name="SOUL_CHASSIS" item="itemSoulMachineChassi" />
<alias name="ENHANCED_CHASSIS" item="itemEnhancedMachineChassi" />
<alias name="UNSOULED_CHASSIS" item="itemUnsouledMachineChassi" />
<alias name="CHASSIPARTS" item="itemChassiParts" />
<alias name="END_STEEL_CHASSIS" item="itemEndSteelMachineChassi" />
<alias name="SIMPLE_CHASSIPARTS" item="itemSimpleChassiParts" />
<alias name="ENHANCED_CHASSIPARTS" item="itemEnhancedChassiParts" />
<alias name="GEAR_WOOD" item="gearWood" />
<alias name="GEAR_STONE" item="gearStone" />
<alias name="GEAR_IRON" item="gearIronInfinity" />
<alias name="GEAR_ENERGIZED" item="gearEnergized" />
<alias name="GEAR_VIBRANT" item="gearVibrant" />
<alias name="GEAR_DARKSTEEL" item="gearDark" />
<alias name="GLIDER_WING" item="itemGliderWing" />
<alias name="GLIDER WINGS" item="itemGliderWings" />
<alias name="SILICON" item="itemSilicon" />
<alias name="CONDUIT_BINDER" item="itemConduitBinder" />
<alias name="BINDER_COMPOSITE" item="itemBinderComposite" />
<alias name="PULSATING_CRYSTAL" item="itemPulsatingCrystal" />
<alias name="VIBRANT_CRYSTAL" item="itemVibrantCrystal" />
<alias name="ENDER_CRYSTAL" item="itemEnderCrystal" />
<alias name="ATTRACTOR_CRYSTAL" item="itemAttractorCrystal" />
<alias name="WEATHER_CRYSTAL" item="itemWeatherCrystal" />
<alias name="PRECIENT_CRYSTAL" item="itemPrecientCrystal" />
<alias name="PRECIENT_POWDER" item="itemPrecientPowder" />
<alias name="VIBRANT_POWDER" item="itemVibrantPowder" />
<alias name="ENDER_CYSTAL_POWDER" item="itemEnderCrystalPowder" />
<alias name="NUTRITIOUS_STICK" item="itemNutritiousStick" />
<alias name="PLANTGREEN" item="itemPlantgreen" />
<alias name="PLANTBROWN" item="itemPlantbrown" />
<alias name="POWDER_COAL" item="dustCoal" />
```

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<alias name="POWDER IRON" item="dustIron" />
 <alias name="POWDER GOLD" item="dustGold" />
 <alias name="POWDER COPPER" item="dustCopper" />
 <alias name="POWDER TIN" item="dustTin" />
 <alias name="POWDER ENDER" item="nuggetEnderpearl" />
 <alias name="POWDER OBSIDIAN" item="dustObsidian" />
 <alias name="POWDER ARDITE" item="dustArdite" />
 <alias name="POWDER COBALT" item="dustCobalt" />
 <alias name="POWDER INFINITY" item="dustBedrock" />
 <alias name="POWDER_QUARTZ" item="dustNetherQuartz" />
 <alias name="POWDER_PULSATING" item="itemPulsatingPowder" />
 <!-- Note: ORGANIC_GREEN_DYE and ORGANIC_BROWN_DYE are added automatically -->
 <alias name="INGOT_ENDERIUM_BASE" item="ingotEnderiumBase" />
 <alias name="FLOUR" item="dustWheat" />
 <alias name="ZOMBIE_ELECTRODE" item="skullZombieElectrode" />
 <alias name="ZOMBIE_CONTROLLER" item="skullZombieController" />
 <alias name="FRANKEN_ZOMBIE" item="skullZombieFrankenstein" />
 <alias name="ENDER_RESONATOR" item="skullEnderResonator" />
 <alias name="SENTIENT_ENDER" item="skullSentientEnder" />
 <alias name="SKELETAL_CONTRACTOR" item="skullSkeletalContractor" />
 <alias name="GUARDIAN_DIODE" item="skullGuardianDiode" />
 <alias name="CAPACITOR1" item="enderio:item_basic_capacitor:0,enderio:</pre>
item_capacitor_silver" />
 <alias name="CAPACITOR2" item="enderio:item_basic_capacitor:1,enderio:</pre>
item_capacitor_energetic_silver" />
  <alias name="CAPACITOR3" item="enderio:item_basic_capacitor:2,enderio:</pre>
item_capacitor_vivid" />
 <alias name="FUSED_QUARTZ" item="oredict:fusedQuartz" />
 <alias name="FUSED_GLASS" item="oredict:fusedGlass" />
 <alias name="ENLIGHTED_QUARTZ" item="oredict:enlightenedFusedQuartz" />
 <alias name="ENLIGHTED_GLASS" item="oredict:enlightenedFusedGlass" />
 <alias name="DARK_QUARTZ" item="oredict:darkFusedQuartz" />
 <alias name="DARK_GLASS" item="oredict:darkFusedGlass" />
 <alias name="ELECTRICAL STEEL NUGGET" item="nuggetElectricalSteel" />
 <alias name="ENERGETIC ALLOY NUGGET" item="nuggetEnergeticAlloy" />
 <alias name="VIBRANT_ALLOY_NUGGET" item="nuggetVibrantAlloy" />
 <alias name="REDSTONE_ALLOY_NUGGET" item="nuggetRedstoneAlloy" />
 <alias name="CONDUCTIVE_IRON_NUGGET" item="nuggetConductiveIron" />
 <alias name="PULSATING_IRON_NUGGET" item="nuggetPulsatingIron" />
 <alias name="DARK_STEEL_NUGGET" item="nuggetDarkSteel" />
 <alias name="SOULARIUM_NUGGET" item="nuggetSoularium" />
 <alias name="END_STEEL_NUGGET" item="nuggetEndSteel" />
 <alias name="CONSTRUCTION_ALLOY_NUGGET" item="nuggetConstructionAlloy" />
 <alias name="ELECTRICAL_STEEL" item="ingotElectricalSteel" />
 <alias name="ENERGETIC_ALLOY" item="ingotEnergeticAlloy" />
 <alias name="VIBRANT_ALLOY" item="ingotVibrantAlloy" />
 <alias name="REDSTONE_ALLOY" item="ingotRedstoneAlloy" />
 <alias name="CONDUCTIVE_IRON" item="ingotConductiveIron" />
 <alias name="PULSATING_IRON" item="ingotPulsatingIron" />
 <alias name="DARK_STEEL" item="ingotDarkSteel" />
 <alias name="SOULARIUM" item="ingotSoularium" />
 <alias name="END_STEEL" item="ingotEndSteel" />
 <alias name="CONSTRUCTION_ALLOY" item="ingotConstructionAlloy" />
 <alias name="IRON" item="ingotConstructionAlloy,ingotIron" />
 <alias name="ELECTRICAL_STEEL_BALL" item="ballElectricalSteel" />
 <alias name="ENERGETIC_ALLOY_BALL" item="ballEnergeticAlloy" />
 <alias name="VIBRANT_ALLOY_BALL" item="ballVibrantAlloy" />
 <alias name="REDSTONE_ALLOY_BALL" item="ballRedstoneAlloy" />
 <alias name="CONDUCTIVE_IRON_BALL" item="ballConductiveIron" />
 <alias name="PULSATING_IRON_BALL" item="ballPulsatingIron" />
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<alias name="DARK STEEL BALL" item="ballDarkSteel" />
<alias name="SOULARIUM BALL" item="ballSoularium" />
<alias name="END STEEL BALL" item="ballEndSteel" />
<alias name="CONSTRUCTION ALLOY BALL" item="ballConstructionAlloy" />
<alias name="ELECTRICAL STEEL BLOCK" item="blockElectricalSteel" />
<alias name="ENERGETIC ALLOY BLOCK" item="blockEnergeticAlloy" />
<alias name="VIBRANT ALLOY BLOCK" item="blockVibrantAlloy" />
<alias name="REDSTONE ALLOY BLOCK" item="blockRedstoneAlloy" />
<alias name="CONDUCTIVE_IRON_BLOCK" item="blockConductiveIron" />
<alias name="PULSATING_IRON_BLOCK" item="blockPulsatingIron" />
<alias name="DARK_STEEL_BLOCK" item="blockDarkSteel" />
<alias name="SOULARIUM_BLOCK" item="blockSoularium" />
<alias name="END_STEEL_BLOCK" item="blockEndSteel" />
<alias name="CAP_BANK_1" item="enderio:block_cap_bank:1" />
<alias name="CAP_BANK_2" item="enderio:block_cap_bank:2" />
<alias name="CAP_BANK_3" item="enderio:block_cap_bank:3" />
<alias name="SOLAR_1" item="enderio:block_solar_panel:0" />
<alias name="SOLAR_2" item="enderio:block_solar_panel:1" />
<alias name="SOLAR_3" item="enderio:block_solar_panel:2" />
<alias name="SOLAR_4" item="enderio:block_solar_panel:3" />
<alias name="CONDUIT_PROBE" item="enderio:item_conduit_probe:0" />
<alias name="HEAD_ENDERMAN" item="enderio:block_enderman_skull:0" />
<alias name="HEAD_SKELETON" item="minecraft:skull:0" />
<alias name="HEAD_CREEPER" item="minecraft:skull:2" />
<alias name="HEAD_ZOMBIE" item="minecraft:skull:4" />
<alias name="HEAD_ENDERMAN_TORMENTED" item="enderio:block_enderman_skull:2" />
<alias name="LIGHT_ELECTRIC" item="enderio:block_electric_light:0" />
<alias name="LIGHT_ELECTRIC_INV" item="enderio:block_electric_light:1" />
<alias name="LIGHT_BASIC" item="enderio:block_electric_light:2" />
<alias name="LIGHT_BASIC_INV" item="enderio:block_electric_light:3" />
<alias name="LIGHT_WIRELESS" item="enderio:block_electric_light:4" />
<alias name="LIGHT_WIRELESS_INV" item="enderio:block_electric_light:5" />
<alias name="PPP_WOOD" item="enderio:block_painted_pressure_plate:0" />
<alias name="PPP_STONE" item="enderio:block_painted_pressure_plate:2" />
<alias name="PPP_IRON" item="enderio:block_painted_pressure_plate:4" />
<alias name="PPP_GOLD" item="enderio:block_painted_pressure_plate:6" />
<alias name="PPP_DARK_STEEL" item="enderio:block_painted_pressure_plate:8" />
<alias name="PPP_SOULARIUM" item="enderio:block_painted_pressure_plate:10" />
<alias name="PPP_TUNED" item="enderio:block_painted_pressure_plate:12" />
<alias name="PPP_WOOD_SILENT" item="enderio:block_painted_pressure_plate:1" />
<alias name="PPP_STONE_SILENT" item="enderio:block_painted_pressure_plate:3" />
<alias name="PPP_IRON_SILENT" item="enderio:block_painted_pressure_plate:5" />
<alias name="PPP_GOLD_SILENT" item="enderio:block_painted_pressure_plate:7" />
<alias name="PPP_DARK_STEEL_SILENT" item="enderio:block_painted_pressure_plate:9" />
<alias name="PPP_SOULARIUM_SILENT" item="enderio:block_painted_pressure_plate:11" />
<alias name="PPP_TUNED_SILENT" item="enderio:block_painted_pressure_plate:13" />
<alias name="ADVANCED_FILTER" item="enderio:item_basic_filter_upgrade:1" />
<alias name="COUNTING_FILTER" item="enderio:item_basic_filter_upgrade:2" />
<alias name="INDUSTRIAL_INSULATION" item="enderio:block_industrial_insulation" />
<alias name="SIGNALUM_BALL" item="itemGrindingBallSignalum" />
<alias name="ENDERIUM_BALL" item="itemGrindingBallEnderium" />
<alias name="LUMIUM_BALL" item="itemGrindingBallLumium" />
<alias name="REDSTONE_FILTER_BASE" item="itemRedstoneFilterBase" />
<alias name="REDSTONE_FILTER_AND" item="enderio:item_redstone_and_filter" />
<alias name="REDSTONE_FILTER_OR" item="enderio:item_redstone_or_filter" />
<alias name="REDSTONE_FILTER_XOR" item="enderio:item_redstone_xor_filter" />
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<alias name="REDSTONE_FILTER_NAND" item="enderio:item_redstone_nand_filter" />
    <alias name="REDSTONE_FILTER_NOR" item="enderio:item_redstone_nor_filter" />
    <alias name="REDSTONE_FILTER_XNOR" item="enderio:item_redstone_xnor_filter" />
    <alias name="REMOTE_AWARENESS_UPGRADE" item="itemRemoteAwarenessUpgrade" />
    <alias name="INFINITY_GOOP" item="itemInfinityGoop" />
    </enderio:recipes>
```