

COMPLETE V RISING APIS LIST

CORE FRAMEWORKS & LIBRARIES

1. BepInEx (Foundation)

- **Version:** 1.733.2
 - **Type:** Plugin/Mod Framework
 - **Purpose:** Core modding framework for Unity games
 - **NuGet:** `BepInEx.Core`
 - **Key Classes:**
 - `BasePlugin`
 - `BepInPlugin` (Attribute)
 - `BepInDependency` (Attribute)
 - `ManualLogSource`
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2. VAMP (V Rising API Modding Platform)

- **Version:** 1.3.3+
- **NuGet:** `VRising.VAMP`
- **GitHub:** github.com/CrimsonMods/VAMP
- **Docs:** vrising.wiki

VAMP Services:

- **PlayerService** - Player data, inventory, equipment
- **CastleService** - Castle hearts, territories
- **SpawnService** - Entity spawning, NPC creation
- **TerritoryService** - Territory management
- **EventScheduler** - Global event management
- **FileReload** - Hot-reload configuration files
- **WipeData** - Automatic mod reset on wipes

- **ModTalk** - Inter-mod communication
- **ModSystem** - Thunderstore update notifications
- **ChatUtil** - Chat system extensions
- **ModProfiler** - Performance profiling

VAMP Data Classes:

- **VBloodData** - VBlood boss information
 - **WorldRegionData** - World zones and regions
 - **PrefabData** - Prefab collections
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3. Bloodstone (Plugin Framework)

- **Version:** 0.2.3
- **NuGet:** `VRising.Bloodstone`
- **GitHub:** github.com/decaprime/Bloodstone
- **License:** MIT

Bloodstone Features:

- **VWorld** - World access helper
 - `VWorld.Server.EntityManager`
 - `VWorld.Client.EntityManager`
 - **Plugin Hot-Reloading**
 - **Keybinding Management**
 - **IRunOnInitialized** interface
 - **Initialization Hooks**
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4. VampireCommandFramework (VCF)

- **Version:** 0.10.4
- **NuGet:** `VRising.VampireCommandFramework`

- **GitHub:** github.com/decaprime/VampireCommandFramework

VCF Core Classes:

- **CommandRegistry** - Command registration
- **ICommandContext** - Command execution context
- **CommandAttribute** - Command declaration
- **CommandGroupAttribute** - Group commands
- **ICommandMiddleware** - Middleware pipeline
- **CommandArgumentConverter<T>** - Type conversion

VCF Formatting:

- **Bold()** - Bold text
- **Italic()** - Italic text
- **Underline()** - Underline text
- **Color()** - Color text
- **Large()** - Large text
- **Small()** - Small text

VCF Built-in Commands:

- `.config list` - List all configurations
 - `.config get` - Get configuration value
 - `.config set` - Set configuration value
-

5. Bloody.Core (Helper Library)

- **Version:** 1.2.4+
- **NuGet:** `Bloody.Core`
- **Purpose:** Common utilities for Bloody ecosystem

Bloody Ecosystem Mods:

- **BloodyWallet** - Virtual currency system

- **BloodyEncounters** - Random NPC encounters
 - **BloodyBoss** - Dynamic VBlood bosses
 - **BloodyPoint** - Waypoint/teleportation
 - **BloodyShop** - Merchant/shop system
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6. VRisingServerApiPlugin (HTTP API)

- **Purpose:** REST API endpoints for server
 - **Default Port:** 9090
 - **Attributes:**
 - `[HttpGet]`
 - `[HttpPost]`
 - `[UrlParam]`
 - `[Body]`
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UNITY & PROJECTM APIs

Unity.Entities (ECS Core)

Entity Management:

- **Entity** - Entity identifier
- **EntityManager** - Entity operations
 - `CreateEntity()`
 - `DestroyEntity()`
 - `Instantiate()`
 - `HasComponent<T>()`
 - `GetComponentData<T>()`
 - `SetComponentData<T>()`
 - `AddComponent<T>()`
 - `RemoveComponent<T>()`

- `GetComponentTypes()`

Queries & Systems:

- **EntityQuery** - Entity filtering
 - **SystemBase** - System base class
 - **ComponentSystemGroup** - System grouping
 - **World** - ECS world container
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ProjectM (V Rising Core Namespace)

Core Systems:

- **ServerGameManager** - Central game management
- **DebugEventsSystem** - Spawn items/buffs
- **ServerChatUtils** - Chat messaging
- **PrefabCollectionSystem** - Prefab management
- **DropItemThrowSystem** - Item dropping
- **ClanSystem** - Clan management
- **CastleHeartSystem** - Castle management
- **TerritorySystem** - Territory control
- **CraftingSystem** - Crafting operations
- **InventorySystem** - Inventory management
- **EquipmentSystem** - Equipment handling
- **BuffSystem** - Buff application
- **DamageSystem** - Damage processing
- **DeathSystem** - Death handling
- **RespawnSystem** - Respawning
- **TeleportSystem** - Teleportation
- **InteractSystem** - Entity interaction
- **MovementSystem** - Character movement

- **AbilityCastSystem** - Ability casting
- **HealthRegenSystem** - Health regeneration
- **BloodSystem** - Blood quality management
- **VBloodSystem** - VBlood boss tracking

Core Components:

- **User** - Player entity component

- PlatformId
- CharacterName
- IsConnected
- IsAdmin

- **Character** - Character data

- Entity
- Name

- **Health** - Health values

- Value - Current health
- MaxHealth
- IsDead

- **Translation** - World position

- Value (float3)

- **Rotation** - Entity rotation

- Value (quaternion)

- **Equipment** - Equipped items

- WeaponSlot
- ArmorSlots
- CloakSlot
- JewelrySlots

- **Inventory** - Inventory data

- Items

- **Size**
- **Buff** - Buff data
 - **PrefabGUID**
 - **Target**
 - **Duration**
 - **Stacks**
- **Team** - Team affiliation
 - **Value**
 - **FactionIndex**
- **UnitLevel** - Entity level
 - **Level**
- **BloodConsumeSource** - Blood quality
 - **BloodQuality**
 - **BloodType**
- **Aggroable** - Can be aggro'd
- **Follower** - Follower data
- **Mount** - Mount data
- **CastleHeart** - Castle heart data
 - **CastleEntity**
 - **State**
- **UserOwner** - Owner reference
 - **Owner** (Entity)
- **PrefabGUID** - Prefab identifier
 - **GuidHash** (int)
- **Immortal** - Cannot die
- **Invulnerable** - Cannot take damage
- **DynamicBuffer<T>** - Dynamic data array
- **InventoryBuffer** - Inventory items

- **AbilityGroupSlotBuffer** - Ability slots
- **BuffBuffer** - Applied buffs
- **ModifyUnitStatBuff_DOTS** - Stat modifiers
- **VBloodConsumed** - VBloods killed
- **ProgressionMapper** - Progression data
- **AchievementInProgressElement** - Achievements
- **DeathEvent** - Death event data
- **StatChangeEvent** - Stat change events
- **CastStartedEvent** - Cast started
- **InteractEvent** - Interaction events
- **TakeDamageEvent** - Damage taken
- **DealDamageEvent** - Damage dealt

Network Components:

- **NetworkId** - Network identifier
- **FromCharacter** - Character reference
- **SpawnEntity** - Spawn request
- **SpawnPrefab** - Prefab spawn

World & Territory:

- **MapZone** - Map zone data
 - **CastleTerritory** - Castle territory
 - **TileModel** - Tile data
 - **WorldRegionType** - Region types
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STUNLOCK.CORE NAMESPACE

Core Utilities:

- **PrefabGUID** - Prefab identifier struct

- **NetworkId** - Network ID struct
 - **ModificationId** - Modification tracking
 - **FromCharacter** - Character source
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UNITY.COLLECTIONS

Collections:

- **NativeArray<T>** - Native array
 - **NativeList<T>** - Native list
 - **NativeHashMap<K,V>** - Native hashmap
 - **NativeQueue<T>** - Native queue
 - **Allocator** - Memory allocation
 - `Allocator.Temp`
 - `Allocator.TempJob`
 - `Allocator.Persistent`
-

UNITY.MATHEMATICS

Math Types:

- **float2** - 2D vector
- **float3** - 3D vector
- **float4** - 4D vector
- **quaternion** - Rotation
- **math** - Math utilities
 - `math.distance()`
 - `math.normalize()`
 - `math.dot()`
 - `math.cross()`
 - `math.lerp()`

HARMONY (PATCHING)

HarmonyLib:

- **[HarmonyPatch]** - Patch declaration
 - **[HarmonyPrefix]** - Pre-execution patch
 - **[HarmonyPostfix]** - Post-execution patch
 - **[HarmonyTranspiler]** - IL modification
 - **Harmony** - Harmony instance
 - **(PatchAll())**
 - **(Patch())**
 - **(Unpatch())**
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IL2CPP TYPES

IL2CPPChainloader:

- **Instance** - Chainloader instance
 - **(Plugins)** - Loaded plugins dictionary

IL2CPP Utilities:

- **Il2CppSystem.Collections.Generic** - IL2CPP collections
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PREFAB GUID COLLECTIONS

Item PrefabGUIDs:

- Weapons, Armor, Resources, Consumables
- Structure components
- Crafting materials

Unit PrefabGUIDs:

- VBlood bosses

- NPCs and creatures
- Minions and summons

Buff PrefabGUIDs:

- Status effects
- Debuffs
- Passive bonuses

Ability PrefabGUIDs:

- Spells
- Vampire powers
- Weapon skills

Structure PrefabGUIDs:

- Buildings
- Crafting stations
- Furniture

COMMON HELPER EXTENSIONS

Entity Extensions:

```
csharp

bool Exists(this Entity entity)
bool Has<T>(this Entity entity)
T Read<T>(this Entity entity)
void Write<T>(this Entity entity, T component)
void Add<T>(this Entity entity)
void Remove<T>(this Entity entity)
```

User Extensions:

```
csharp
```

```
Entity GetCharacter(this Entity userEntity)
bool IsOnline(this Entity userEntity)
bool IsAdmin(this Entity userEntity)
void SendSystemMessage(this Entity userEntity, string message)
```

Character Extensions:

csharp

```
Entity GetUser(this Entity characterEntity)
float3 GetPosition(this Entity characterEntity)
void Teleport(this Entity characterEntity, float3 position)
void ApplyBuff(this Entity characterEntity, PrefabGUID buff)
void RemoveBuff(this Entity characterEntity, PrefabGUID buff)
```

CONFIGURATION APIs

BepInEx.Configuration:

- **ConfigFile** - Configuration file
 - `Bind<T>()` - Bind configuration entry
 - `Save()` - Save configuration
 - `Reload()` - Reload configuration
- **ConfigEntry<T>** - Configuration entry
 - `Value` - Current value
 - `SettingChanged` - Value changed event

LOGGING APIs

BepInEx.Logging:

- **ManualLogSource** - Log source
 - `LogInfo()`
 - `.LogWarning()`
 - `.LogError()`

- `LogDebug()`
 - `LogMessage()`
-

COMMON PATTERNS

Entity Query Pattern:

```
csharp

var query = EntityManager.CreateEntityQuery<
    ComponentType.ReadOnly<ComponentA>(),
    ComponentType.ReadWrite<ComponentB>()
);
var entities = query.ToEntityArray(Allocator.Temp);
```

Component Access Pattern:

```
csharp

var component = EntityManager.GetComponentData<ComponentType>(entity);
component.Value = newValue;
EntityManager.SetComponentData(entity, component);
```

System Hook Pattern:

```
csharp

[HarmonyPatch(typeof(SystemType), nameof(SystemType.OnUpdate))]
public static class SystemHook {
    public static void Prefix(SystemType __instance) {
        // Your code here
    }
}
```

Buff Application Pattern:

```
csharp
```

```
var buffEntity = EntityManager.CreateEntity();
EntityManager.AddComponentData(buffEntity, new FromCharacter {
    Character = character,
    User = user
});
EntityManager.AddComponentData(buffEntity, new ApplyBuff {
    Target = target,
    BuffPrefabGUID = buffPrefab
});
```

ADDITIONAL RESOURCES

Documentation Sites:

- **VAMP Docs:** vrising.wiki
- **V Rising Mod Wiki:** wiki.vrisingmods.com
- **Unity DOTS:** docs.unity3d.com/Packages/com.unity.entities
- **BepInEx:** docs.bepinex.dev

Community:

- **Discord:** discord.gg/xzd5U5cNyD
- **Thunderstore:** v-rising.thunderstore.io
- **GitHub:** github.com/CrimsonMods, github.com/decaprime

Tools:

- **dotPeek:** Decompiler (jetbrains.com/decompiler)
- **.NET SDK 6.0:** Required for development
- **Visual Studio 2022:** Recommended IDE

INSTALLATION COMMANDS

```
bash
```

VAMP

```
dotnet add package VRising.VAMP
```

Bloodstone

```
dotnet add package VRising.Bloodstone
```

VampireCommandFramework

```
dotnet add package VRising.VampireCommandFramework
```

Bloody.Core

```
dotnet add package Bloody.Core
```

This list represents ALL major APIs available for V Rising modding as of December 2025.