Obfuscation: Constant (C-String)

R5AC uses a simple XOR algorithm where the decryption key length and encrypted content length are identical.

Referenced & encoded C-Strings Analysis

DLL Related

> 0x20ea35 KERNEL32.dll
> 0x3a3e51 ntdll.dll
> 0x54ee61 ADVAPI32.dll
> 0x542551 steamnetworkingsockets.dll
> 0x542691 steam_api64.dll
> 0x2f1cc2 EOSSDK-Win64-Shipping.dll
> 0x54ee31 EasyAntiCheat_EOS
> 0x3a3e81 wine_get_version

API Related

> **0x20ea60 K32GetMappedFileNameA**
> **0x20ee00 VirtualQuery**
> **0x20f160 GetLastError**
> **0x7df831 VirtualProtect**
> **0x54ee91 OpenSCManagerA**
> **0x54eec1 OpenServiceA**
> **0x54eef1 QueryServiceStatusEx**

> 0x54ef21 CloseServiceHandle
> 0x543471 WideCharToMultiByte
> 0x541fc0 RtlCaptureStackBackTrace

Control Flow Analysis / Game Functions

> 0x20e9f0 CS_CEngineClient::Engine_SetViewAngles
> 0x26c540 CS_CNetChan::SetTimeout
> 0x26dfe0 CS_CNetChan::SendReliableMessages
> 0x270511 CS_CNetChan::SendDatagram
> 0x2744c1 CS_CNetChan::SendNetMsg
> 0x275210 CS_CNetChan::SendData
> 0x3ae540 CS_Playlist_GetPlaylistVar
> 0x7cf601 CS_C_BaseEntity::CalcAbsoluteVelocity
> 0x878620 CS_CViewRender::GetMostRecentClipTransform
> 0x951be1 CS_CInput::Input_CreateMove
> 0x952811 VTP_CInput::Input_CreateMove
> 0x59ebd0 CS_CCommandBuffer::AddText
> 0x69b830 CS_UTIL_TraceRay_Client
> 0xa58200 CS_C_BaseEntity::GetEntityNameAsCStr
> 0xabe800 CS_C_MoveData::MoveData_Init
> 0xcc4e10 CS_Pak_RequireSignedPaks
> 0xcc8c51 CS_Pak_ValidateSignatureForCurrentReadingFile
> 0xcd89a1 CS_WrappedFileSystem_Open

Virtual Method Table Analysis

> 0x22ee01 VTP_GetEngineTraceClient
> 0x22f271 VTP_GetEngineTraceClientDecals
> 0x479351 VTP_GetFilesystemInterface
> 0x817371 VTP_C_Player::Spawn
> 0x865491 VTP_GetEntityList
> 0x9f13b1 VTP_GetViewRenderInstance

Miscellaneous

> 0x20f0f0 BA:0x%llX AB:0x%llX RS:0x%llX AP:0x%lX PR:0x%lX TY:0x%lX
> 0x5427e0 Callstack Init Failed
> 0x543821 os_version
> 0x543a12 gpu_vendor
> 0x543c91 render_device_driver_version
> 0x543e81 cpu_brand
> 0x544042 windows_install_date
> 0x544205 is_wine
> 0x544231 0
> 0x544260 1
> 0x544780 language
> 0x544a40 HWID_%02X-%02X
> 0x544ab0 %02X
> 0x544db1 HWID_%02X-FAILURE
> 0x54a0b1 %u:%u:%X:%llX:%llX:%llX
> 0x54fa91 Startup
> 0x7dfb91 remove permissions

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