
Subject: [SSGM 4.0 Plugin] NoC4DefuseOnLeave
Posted by [iRANian](#) on Thu, 24 May 2012 08:03:15 GMT

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This plugin will change the way Proxy C4 work so they don't get defused after their owner/planter leaves the game. It does this by setting the PlayerDataClass member variable of C4GameObj to NULL after a Proxy C4 has been created and setting the owner to NULL after he left the server. Info about Proxy C4 and their owner is kept and when a player rejoins, their ownership of a Proxy C4 will be restored. Whitedragon and I did some research on changing ownership of mines and Whitedragon also give me crucial help and feedback to get this plugin working.

It's important to check if any server-side mods you're running checks for NULL C4 ownership and a NULL PlayerDataClass member variable of C4GameObjs, if they access these member variables. I'm also not sure if there are any unusual side-effects caused by this plugin, during testing nothing weird was noticed. This plugin breaks C4GameObj::Restore_Owner() for Proxy C4 so it implements its own version of it. (The function will update the GameObject that owns the Proxy C4 by checking the PlayerDataClass member variable after the owner dies, but because this plugin sets that PlayerDataClass member variable to NULL that doesn't work.)

To install place 'NoC4DefuseOnLeave.dll' in your FDS' root folder and add an entry for it under the [Plugins] section of ssgm.ini.

Thanks to:

Whitedragon - figured out how to change C4 ownership together and gave me important help with writing this plugin.

jonwil - Helped me with a design issue that was bugging me a lot.

File Attachments

1) [No C4 Defuse on Leave SSGM 4.0 Plugin.zip](#), downloaded 323 times

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave
Posted by [Gen_Blacky](#) on Fri, 10 Feb 2017 17:26:32 GMT

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Quick convert as dragonade gamefature add EnableNoC4DefuseOnLeave=1 to any ini read by dragonade.

File Attachments

1) [NoC4DefuseOnLeave.cpp](#), downloaded 189 times
2) [NoC4DefuseOnLeave.h](#), downloaded 169 times

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave
Posted by [jonwil](#) on Fri, 10 Feb 2017 20:44:58 GMT

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Nice plugin. One thing though, you dont need (and for various reasons shouldn't be using) that ASM block in there. Just do C4->Owner = obj; (or whatever) and the scripts code will do the rest thanks to our implementation of ReferencerClass::operator=

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave
Posted by [dblaney1](#) on Sat, 11 Feb 2017 07:57:56 GMT
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I removed the cloned c4gameobj stuff and redid it without the asm code as well. To use this though you are gonna need to modify dac4beacon.cpp a tiny bit or it will crash when a proximity mine detonates. This occurs on both the asm and the redone version. Its because references a null pointer. Just replace this one function with this tweaked one that uses Get_Player_Name(get_owner()) to get the name of the player instead of playerdata. This needs to be fixed in a few different spots.

```
void DAC4BeaconManager::C4_Detonate_Event(C4GameObj *C4) {  
    if (C4->Get_Owner()) {  
        DALogManager::Write_Log("_C4", "%ls %s has detonated (Attached to:  
%s)", Make_Possessive((StringClass)Get_Player_Name(C4->Get_Owner())), DATranslationManag  
er::Translate(C4), C4->Get_Stuck_Object()?DATranslationManager::Translate(C4->Get_Stuck_O  
bject()):"None");  
    }  
}
```

I also attached the fixed da_c4beacon.cpp. It fixes all the issues regarding beacons and c4 with no playerdata.

File Attachments

- 1) [NoC4DefuseOnLeave.h](#), downloaded 172 times
 - 2) [NoC4DefuseOnLeave.cpp](#), downloaded 178 times
 - 3) [da_c4beacon.cpp](#), downloaded 190 times
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Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave
Posted by [dblaney1](#) on Sat, 11 Feb 2017 20:00:42 GMT
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Theres a few other spots in that file (DAC4Beacon.cpp) that also need to be fixed. I uploaded the fixed file to the post above this one.

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave

Posted by [iRANian](#) on Sat, 11 Feb 2017 20:25:42 GMT

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r u running it on your test server

And we did the ASM thing back then because the function wasn't exported in TT 4.0. so it was a quick hack, but as jonwil said it's the improper way to do it.

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave

Posted by [dblankey1](#) on Sat, 11 Feb 2017 22:59:17 GMT

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iRANian wrote on Sat, 11 February 2017 13:25r u running it on your test server

And we did the ASM thing back then because the function wasn't exported in TT 4.0. so it was a quick hack, but as jonwil said it's the improper way to do it.

Yup its on my test server. Its also on my other server ImperialAge AOW. The version I posted has all the hacky parts removed and replaced with the proper TT functions.

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave

Posted by [Gen_Blacky](#) on Sun, 12 Feb 2017 00:07:01 GMT

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Its on my test server as well. Soon to be on RC.

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave

Posted by [dblankey1](#) on Sun, 12 Feb 2017 00:47:40 GMT

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Fixed a few more things in regarding restoring c4 to a player when the server reuses a previous players Player ID. Also fixed some of the logging stuff in dac4beacon.cpp that wasn't working correctly in the last one I posted. The names needed to be WideStringClass not StringClass.

You can download the updated ones here.

http://www.renegadeforums.com/index.php?t=msg&goto=491990&#msg_num_4

Subject: Re: [SSGM 4.0 Plugin] NoC4DefuseOnLeave

Posted by [Gen_Blacky](#) on Mon, 08 May 2017 08:34:17 GMT

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added DisarmTime disarm unowned proxy's after 10 minutes if the c4 has not been claimed or the player returns.

added the ability for players to disarm unowned proxy's or obtain ownership of that proxy. As well as allowing players to disarm their own proxy.

Settings

```
; Enable No C4 Defuse on Leave
EnableNoC4DefuseOnLeave = 1
; Enable Disarm Time on Leave
Disarm = 1
; Time in seconds to disarm unowned proxys; Default 10 minutes
DisarmTime = 600.0
; Obtain Ownership when you press E on unowned proxy
PokeOwnership = 1
; Disarm when you press E on unowned proxy
PokeDisarm = 0
; Obtain Ownership when you repair an unowned proxy
AttackOwnership = 1
; Disarm when you repair an unowned proxy
AttackDisarm = 0
; Allow players to disarm their own proxy when pressing E or repairing
OwnerProxyDisarm = 1
```

File Attachments

- 1) [NoC4DefuseOnLeave.cpp](#), downloaded 193 times
 - 2) [NoC4DefuseOnLeave.h](#), downloaded 181 times
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