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Subject: [SSGM 4.0 Plugin] Building Revival Console Commands v2.0

Posted by [iRANian](#) on Fri, 02 Aug 2013 17:22:49 GMT

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## BuildingRevivalConsoleCommands SSGM 4.0 plugin v2.0

This plugin adds console commands for reviving buildings to the FDS. There are console commands for every building and two special console commands to revive a building by preset name and by object ID. Reviving buildings on maps with multiple buildings of the same type (e.g. two Obelisk) is supported too. Note there are two issues with this plugin, an inconvenient one requiring clients to rejoin the server and a potential issue on servers or maps running special scripts/code on buildings (e.g. custom repair scripts). These issues are explained in the following paragraphs.

If during building revival after the building is restored the Ref is alive and harvester is dead a new harvester will be requested. All console commands except `ReviveBuildingByID` will revive the first dead building found of a type. If there are two Obelisks on the map the first dead one will be revived when these commands are executed. `ReviveBuildingByID` will revive a building by its ID so you can use it to decide what building to revive if there are multiple structures with the same preset name.

The plugin handles the Obelisk and AGT weapons correctly now (in v1.0 they were bugged). After reviving the building any object create hooks are executed for the building. You need to make sure the code on the server supports this properly. For example code that assumes a building only gets the object create hook called for it only once per level load might act up.

The building revival code does a bit of hackery to make sure the right scripts are attached to the building when it is revived (and hopefully in the right state). This might break special scripts on buildings like the building repair scripts on buildings on `C&C_Cairo` and custom code attaching scripts to buildings, beware.

**ON MAPS WITH SPECIAL REPAIR SCRIPTS ON BUILDINGS REVIVING A BUILDING WILL PROBABLY BREAK THE REPAIR SCRIPT. THIS HAPPENS ON `C&C_Cairo` FOR EXAMPLE.**

After reviving a building I've noticed the following bugs appearing on clients:

- 1.) If the building is destroyed again no death announcement is played.
- 2.) If the building is a production facility clients can't build from that facility anymore
- 3.) If the building is a Communication Centre which controls radar, the radar will stay off-line

These bugs go away after the client restarts his game. They happen because the client doesn't sync the 'is destroyed' setting for a building with the server after building revival (on the server the building is no longer destroyed but on clients it's still destroyed). Hopefully TT will add the following client-side fix I wrote to Scripts 4.0 patch 2:

[http://www.renegadeforums.com/index.php?t=msg&th=40362&start=0&rid=25967#msg\\_num\\_12](http://www.renegadeforums.com/index.php?t=msg&th=40362&start=0&rid=25967#msg_num_12)

All revive console commands except `ReviveBuildingByPreset` and `ReviveBuildingByID` might not be able to revive a building type or they might **REVIVE THE WRONG BUILDING TYPE** on

CUSTOM MAPS WITH REALLY NON-STANDARD BUILDING PRESET NAMES OR BUILDING TYPE SET ON BUILDING. If that's the case use ReviveBuildingByPreset or ReviveBuildingById. I HAVEN'T SEEN THIS HAPPEN YET BUT IT IS A POSSIBILITY.

One way to get the object ID of a building is by opening the map in LevelEdit, checking the ID set on the building controller for that building.

The following console commands are added by this plugin:

REVIVEBUILDINGBYID <OBJECTID> - Revives a building by its object ID.  
REVIVEBUILDINGBYPRESET <PRESET NAME> - Revives a building by its preset name.

REVIVEBAR - Revives the GDI Barracks.  
REVIVEHON - Revives the Hand of Nod.  
REVIVEGDIPP - Revives the GDI Power Plant.  
REVIVENODPP - Revives the Nod Power Plant.  
REVIVEGDICONYARD - Revives the GDI Construction Yard.  
REVIVENODCONYARD - Revives the Nod Construction Yard.  
REVIVEGDIREF - Revives the GDI Refinery.  
REVIVENODREF - Revives the Nod Refinery.  
REVIVEGDIREPBAY - Revives the GDI Repair Bay.  
REVIVENODREPBAY - Revives the Nod Repair Bay.  
REVIVEWF - Revives the GDI Weapons Factory.  
REVIVEAIR - Revives the Nod Airstrip.  
REVIVEGDICOMMCENTER - Revives the GDI Communications Center.  
REVIVENODCOMMCENTER - Revives the Nod Communications Center.  
REVIVEAGT - Revives the GDI Advanced Guard Tower.  
REVIVEOB - Revives the Nod Obelisk.  
REVIVENODSILO - Revives the Nod Tiberium Silo.  
REVIVEGDISILO - Revives the GDI Tiberium Silo.  
REVIVENODHELIPAD - Revives the Nod Helipad.  
REVIVEGDIHELIPAD - Revives the GDI Helipad.  
REVIVESHURINE - Revives the Shrine of Nod.

To install place 'BuildingRevivalConsoleCommands.dll' in the root FDS folder and add an entry for it in SSGM.ini under the [Plugins] section.

You can contact me by PM'ing me on renegadeforums.com under the name "iRANian" or on the usual IRC servers under the nick "Iran".

### File Attachments

1) [BuildingRevivalConsoleCommands SSGM 4.0 Plugin 2.0.zip](#),  
downloaded 626 times

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