# Smart Start

Smart Start regions shut down when no one is in them.   A Smart Start region appears as a dual blue arrow ’recycle’ icon in the Regions panel. This means they boot once., then power off and wait for a teleport before they start again. The icon is a Pause symbol.

Graphical user interface, text, application

Description automatically generated

It can also appear as a ‘frozen’ ice cube. This type is frozen in RAM. All the treads it was executing are put to sleep, but it remains in RAM. Windows will see this as inactive RAM and will swap the region to disk when RAM is needed for another process. When a teleport occurs, the region is thawed out, and runs again.



## Teleports

Smart start detects teleports.  When someone teleports into the system, or logs in, the system decides if their destination is already bootet.  If so, the teleport happens normally. But If the region is not ready, the system sends the avatar to a waiting area while the region is booted. When the original destination region is ready for logins, the avatar is teleported to the original destination.

## Enable Smart Start

Smart Start is disabled by default. You must first enable it in Setup->Settings->Smart Start:

Graphical user interface, application

Description automatically generated

There are two modes: Suspend or Shut Down.

## Shutdown Mode

When set to Shutdown Mode, the system will boot all regions and then power it off ‘quit’ after the “shutdown In Seconds” passes. This registers the region as “Persistent” in Robust, so you can teleport to it. If the region is shutdown, or offline, DreamGrid will move you to a temporary parking area, or it may cancel the teleport. DreamGrid will announce how long it takes to wait for the region while it is booted. When the region is ready, you will be sent there.

The system can be set to power down the region when no one is in it. This length of time is from 15 seconds upward. If no one is in the region, it will power down after the timer expires.

There is a Region Ready Delay that is adjustable. DreamGrid cannot know when a region will accept teleports due to the way regions are coded. A delay of from 5 to 30 seconds may be required. Regions with more data and/or scripts will take more time. If you get teleport fails yet the region is running, increase this time.

## Suspend Mode

When set to suspend, the system will boot all regions and then power it off after the “shutdown In Seconds” passes. It works the same way as Shutdown in the way teleports work. However, after the region has run long enough for the timer to expire. It is not powered off. It is frozen. It remains in RAM. The icon is an ice cube.

You will not be able to type or interact with a frozen region. You can thaw the region by clicking on the region name in the region panel. Then click “Console”. The region will be unfrozen.

The power-on Region Ready delay should be zero for Suspend Mode.

The Shutdown in Seconds should usually be about 30 seconds or it can shut off before anyone arrives.

## Surrounding Sims

Smart Boots can boot surrounding sims when a visitor arrives. The default is to not do this (Fill Size = 0). In any Smart Start Mode, you need it to be a 1 or larger to be able to walk across boundaries. If zero, you can only teleport into a sim.

If you set the fill size to 1, and an avatar lands in a sim, then any Smart Start regions that touch the region will be booted. If the avatar moves to one of those, then additional regions surrounding that region will boot.

Chart

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## Details

These regions will always boot once to register themselves.  The Smart Settings only go into effect when the entire grid restart, or Robust restarts and the Region restarts. If you change a region to Smart Start while robust is running, Robust will restart.

Any teleport request is intercepted in Opensim and sent to DreamGrid. The desired Region UUID is sent, such as "000-A…" and DreamGrid returns "UUID -000A…" if the region is ready, or UUID = 000-B…, or a Parking other region UUID, if not ready.

You get a message in the viewer saying your region will be available in so many seconds. This is the recorded time it took to previously boot the sim.   There is a different time saved in a Map Time variable if maps are enabled.  Ideally, maps are off for fastest boot time.

The region must be a) enabled to boot b) Smart Start is enabled globally, c) the region must be Smart Boot-enabled in its Modules section of the region setting for this region.  It then shows the Pause icon of || in the region listings.   If this is set, the region will power up.   All 3 conditions must be met.

Once DreamGrid determines the timer is finished, you will be located wherever you are (if still on the grid) and teleported to the destination. If you leave, the system will shut off the region.  The last teleport always overrides the earlier one.  If you try three different landmarks in a few seconds, then you will end up in the 3rd.

# Choose a Parking Region

If a region is offline and a teleport is initiated, the region will be booted. This may take more time than the viewer allows. The avatar is teleported to a waiting region, aka, a “Parking Region”. You may choose any Always-On region, such as your Welcome region, which is the Default.

Text, timeline

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## Region Setup

You must enable Smart Start in the region panel.

This can be enabled or disabled for any region.  Edit any region and set the Smart Start Checkbox to True. This goes into effect immediately.

If the region is running and no avatar in it, it will shut down within the time period you set.

**Graphical user interface

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# EnDless Land and Sea

This optional feature will trigger an automatic fill of surrounding regions with the Landscaping and Trees/Plants modules if an avatar arrives. In those screens you can choose water regions, as just one example. If set to water, your avatar can walk, fly, or boat across the entire expanse of your grid. Its literally an “Endless Sea”.

You should select an avatar that will own the Estate named “SimSurround”, which is the owner of these Regions.

Graphical user interface, application

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When enabled, and the Fill size is set to 1, then any avatar arrival in the center will generate a new set of regions surrounding that region. These regions may be Temporary or Permanent. If set to Temporary, when the avatar leaves, the regions will be deleted, and all traces of the region deleted. There is also a button to delete all these regions on demand.

This setting shows Temporary regions are Enabled, if the Enabled switch is set, when an avatar arrives in a region a new DOS box will be generated with surrounding the center region.