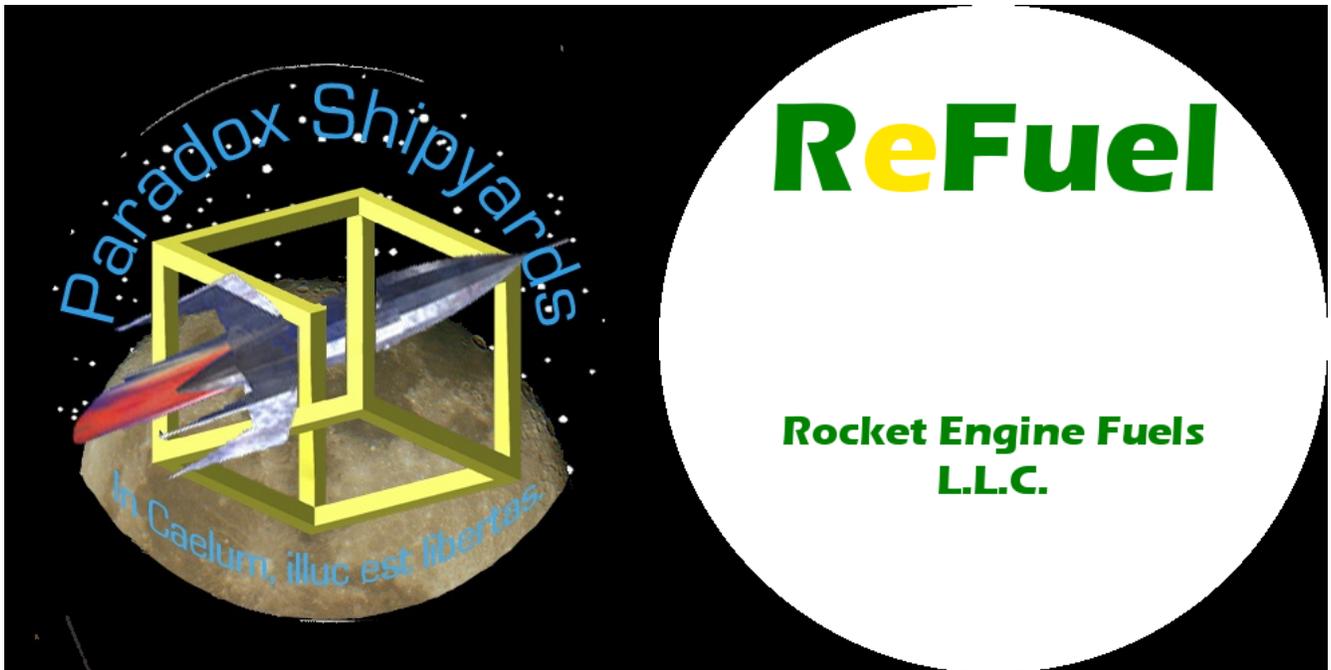


# Paradox-ReFuel Titan

by Epsilon Moonshade



Welcome! This is the first version of the Paradox-ReFuel Titan base. First off, I'd like to thank Refuel himself, Will Gillam, for his general moral support on this base, ideas, use of his trademark, etc. Secondly, thanks go to the #orbiter IRC channel - without them, I'd never have known that my textures suck. ;) And last, but certainly not least, Dr. Martin Schweiger, for developing Orbiter in the first place.

## **Installation:**

Chances are, if you're reading this, you've nearly installed the base properly already. Unzip the archive to your main Orbiter directory, and everything will fall into place. The only files that aren't in their own little directory are ..\Config\Titan\Base\PRefuel.cfg, ..\Config\Titan\Base\SurfTiles.txt, and ..\Meshes\PRefuel.msh. The only extra step you need to take is to add the following lines to the end of ..\Config\Titan.cfg:

```
BEGIN_SURFBASE
DIR Titan\Base
END_SURFBASE
```

Simple, neh? All the textures go into ..\Textures\PRefuel.

## **Using the Base:**

I said this in the description of the addon, and I'll say it again here - this base is probably more heavyweight than the average. The textures, craptastical though they be, are high quality - 256x256, and I have multiple textures on a map - all in all, they amount to about 4MB worth of textures. With anything else you've got, this may cause trouble. Also, the entire base is actually a single mesh. It's only about 5000 triangles, which is fewer triangles than even an UMMU, but I don't know how weaker systems will react to it. You've been warned, and I'd actually like to see some feedback on the OrbitHangar page - believe it or not, I'll eyeball it.

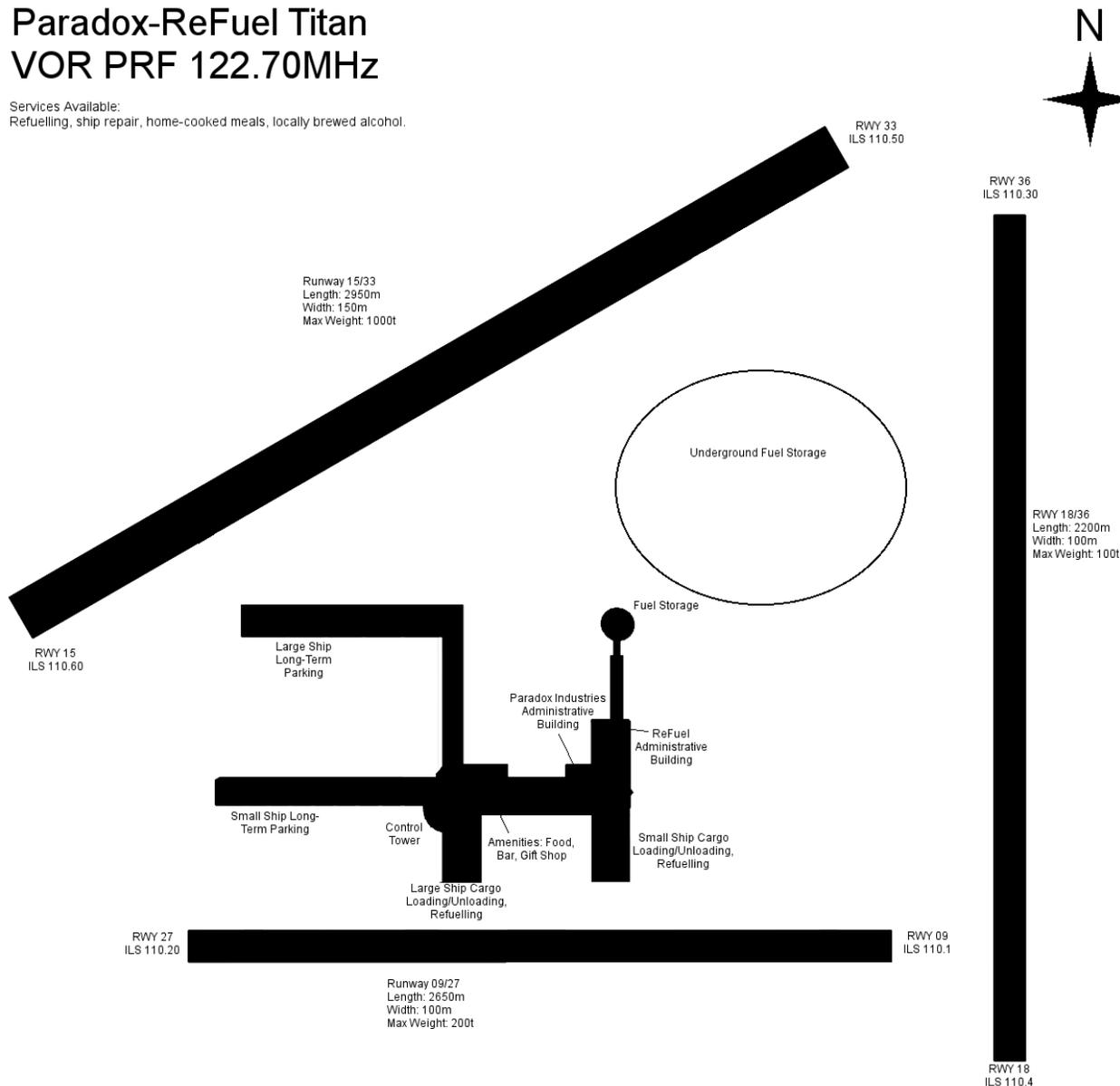
As far as the textures go, they're free for you to use. Anything but the Paradox and ReFuel logos (which of course belong to their respective companies ;) are free game as far as I'm concerned. I made 'em all myself, and they're not all that awesome, but the runway textures in particular are probably quite useful if you're building a base the same way I did. If you're messin' with them, it's always nice to have a mention of my name as credit, but I'm not going to flip out about it as long as you tell me you're using it in the first place. ;p

# Welcome to Paradox-ReFuel Titan!

Good day to you, space traveller. This is your handy pocket guide to what is available to you when you land at Paradox-ReFuel Titan. First, we'll start off with a map of the facilities:

## Paradox-ReFuel Titan VOR PRF 122.70MHz

Services Available:  
Refuelling, ship repair, home-cooked meals, locally brewed alcohol.



## Flight Characteristics and Runways

Familiarity with the runways is a must. The package you received should include a datacard, outlining the runways, their capacities, and the length. Remember! On Titan, you have a more dense atmosphere, but far less gravity than you may be used to. This means that when you are gliding in towards the runway, 45m/s is more than sufficient to keep a craft such as an XR2 aloft. Please notify PRF ATC if you are unfamiliar with the capabilities of your vessel in an atmosphere such as this, and take some extra time and fuel to get a feel for your craft's handling in this atmosphere. The lower surface gravity of Titan also means that you may need more distance than you would expect to stop, given your speed.

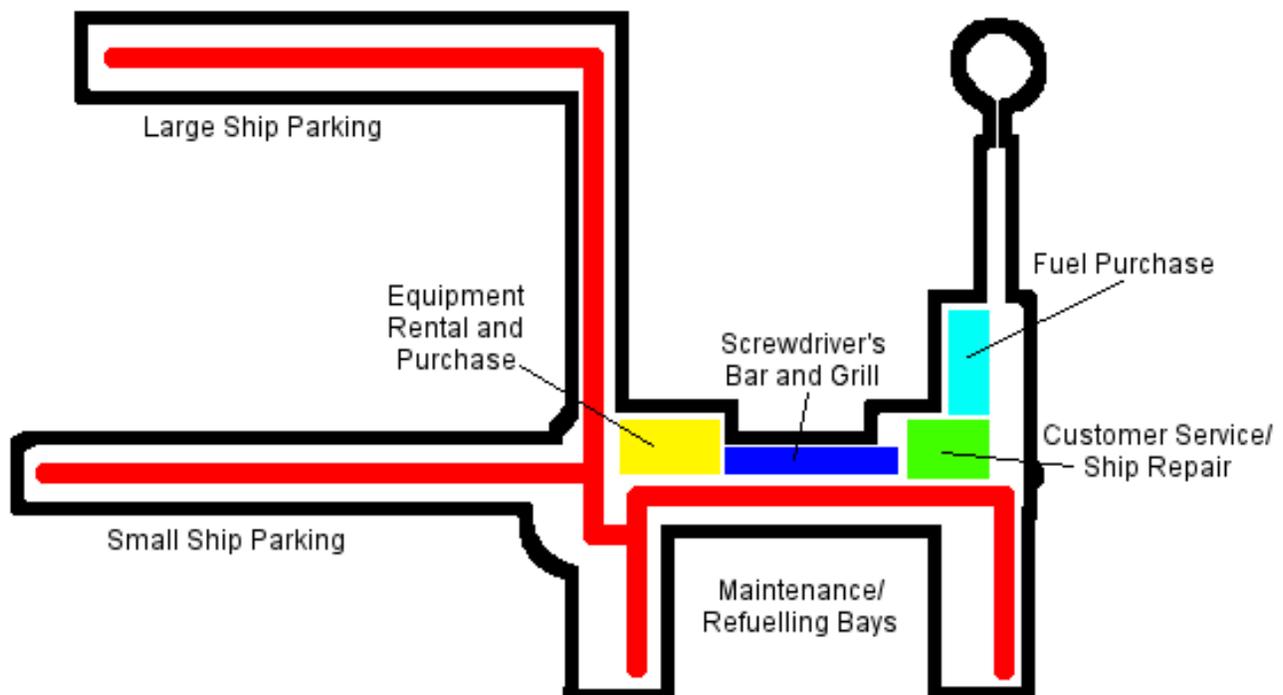
Runway 15/33 is wider and longer than the other two, and is used for landing of heavy cargo ships such as the XR5. Even under a full load, 15/33 is stable enough to land on. Landing a large cargo ship on either of the two other runways is absolutely prohibited without explicit permission from PRF ATC, and any pilot landing on these runways with a cargo ship will be held liable for damages to the runway.

Runway 09/27 is typically used for landing smaller cargo craft. With a weight limit of 200t, this will accommodate almost any of the smaller craft such as the XR2 and the DGIV, and provide enough distance for braking even if they are laden with cargo. In an emergency, larger cargo craft pilots will be directed to land on this runway if they are unable to align with 15/33. The runway surface will hold more than its rated capacity, but not without damage - though it should allow for a safe landing of a laden cargo craft.

Runway 18/36 is a short runway for smaller craft not carrying significant amounts of cargo. This runway is designed for quick landing, rollout to the fuelling area, and quick takeoff - the "express lane", if you will. Other craft will be allowed to land here on a case by case basis, though the runway will not support a larger cargo ship at all.

## Main Terminal

Each parking bay has an airlock leading into the main terminal. Make sure you suit up before egress, as the climate on the surface of Titan is quite chilly! Once inside, the airlock will cycle, providing you with a green indicator when the cycle is completed. Please leave your space suits in the airlock once it has cycled - cleaning of the suit is complimentary with any purchase of fuel at Paradox-ReFuel Titan!



Once inside the terminal, protective suits with oxygen tanks are available for rental for a nominal fee, or purchase. These suits are specially designed to allow you to go out on the surface of Titan with minimal encumbrance, and enjoy all of the recreational activities this little moon has to offer!

The terminal is split into seven main sections: Large Ship Parking, Small Ship Parking, Maintenance/Refuelling Bays, Screwdriver's Bar and Grill, Fuel Purchase, Equipment Rental and Purchase, and Customer Service/Ship Repair.

## **Small/Large Ship Parking**

Paradox-ReFuel Titan is equipped with 13 docking bays which can handle both large and small ships. Arrangements for berthing for short or long term can be made with PRF ATC while still on approach, and the bays are available for a nominal daily fee. We cater to all sorts of customers, from the day-tripper coming by to see the sights of Titan to the scientific community which requires longer stays. All are welcome, and we offer discounted rates for extended stays on our base.

## **Maintenance/Refuelling Bays**

Paradox-ReFuel Titan is equipped with four bays which can hold a total of 6 ships by design, 8 during times of heavy traffic. If you arrive and request a quick refuel with ATC, you will be directed to pull into one of these bays. Our fuel technicians will fill your spacecraft and give it an inspection if you desire while you wait, allowing you to take advantage of our base's many amenities.

## **Screwdriver's Bar and Grill**

Screwdriver's Bar and Grill is ran by a robot, Screwdriver by name. Our fine host will serve you myriad styles of alcohol and food, all made on-site. You won't believe that most of the food is yeast-based - try the steak! Menus change frequently, so make sure you stop by and find out what's on it.

## **Fuel Purchase**

Paradox-ReFuel Titan refines all its fuels on-site, and we have fuel to fit all of your spacecraft needs. From LOX and LH2 for conventional spacecraft to Naquadah for the XR series of craft, if we don't have it, we'll synthesize it - or your berthing charges back!

Fuel synthesis can take up to four weeks, and berthing charges may be assessed for the entire term. Some restrictions may apply, see customer service for details.

## **Equipment Purchase/Rental**

Paradox-ReFuel Titan offers protective garments in many sizes and shapes. These form-fitting garments are designed to maximize insulation, and are woven with a warming array. Power packs are available for separate purchase, and a single pack will run a suit at a comfortable 98F temperature for 48 hours. Also included in a rental or purchase is a respirator tank. Because the pressure on the surface of Titan is only about 1.5 times normal Earth pressure, all that is needed is an apparatus to mix the oxygen with the ambient nitrogen in the air, which allows for a far lower weight for the pack. Refills for the tanks are available at Equipment Purchase/Rental, and each tank will last for 48 hours under normal exertion.

## **Customer Service/Ship Repair**

Paradox-ReFuel Titan offers engineering services, and are able to repair your ship for a fee. Paradox engineers will put your ship through a set of tests, carefully checking hull integrity, engines, electrical subsystems, hydraulic systems, and any other systems identified on your particular make of spacecraft. All repairs are to be arranged via customer service, with a description of the problem, or for a simple preventative maintenance checkup. Fees will be disclosed before any work is performed, and payment for services is taken before the service is begun. If you are unable to pay for service, Screwdriver is always looking for trained dishwashers and hosts/hostesses, and will pay fair market rates.

## **Thank You!**

We here at Paradox-ReFuel Titan would like to thank you for taking the time to familiarize yourself with the services available on this base. Any questions may be directed via electronic interplanetary mail to [epsilon@etmoonshade.net](mailto:epsilon@etmoonshade.net), via Interplanetary Relay Chat at [irc.wockets.org](http://irc.wockets.org) on the #orbiter channel, or to the customer service counter upon landing.