

**Oracle® Enterprise Single Sign-on  
Provisioning Gateway**

Minimum Permissions Guide

Release 11.1.1.1.0

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## Abbreviations and Terminology

Following is a list of commonly-used abbreviations and terminology.

Abbreviation or Terminology	Full Name
Administrative Console	ESSO-LM Administrative Console
Agent	ESSO-LM Agent
FTU	First Time Use Wizard
ESSO-AM	Oracle Enterprise Single Sign-on Authentication Manager
ESSO-Anywhere	Oracle Enterprise Single Sign-on Anywhere
ESSO-PG	Oracle Enterprise Single Sign-on Provisioning Gateway
ESSO-KM	Oracle Enterprise Single Sign-on Kiosk Manager
ESSO-LM	Oracle Enterprise Single Sign-on Logon Manager
ESSO-PR	Oracle Enterprise Single Sign-on Password Reset

## About the ESSO-PG Minimum Permissions Guide

When you install Oracle Enterprise Single Sign-on Provisioning Gateway (ESSO-PG), you must create a specific service account, at the domain level, in order for ESSO-PG to function properly. This guide describes how to increase security by creating such an account with a specific set of permissions to certain objects within Active Directory.

In order to increase security, Oracle now recommends that this service account be created as a member of the Domain Users group. (For the purposes of this document, the service account is named PMSERVICE; however, you can follow any naming convention you choose).

The instructions in this document describe how to:

- create the service account (PMSERVICE) as a member of the Domain Users group
- grant a specific set of permissions to certain objects within Active Directory to the serviced account
- configure the ESSO-LM Administrative Console
- create templates for provisioning
- provision a user



The PMSERVICE account must also be a member of the local administrator's group on the IIS server that the ESSO-PG server-side components are installed on.

You will need an account with Domain Admin and Schema Admin privileges in order to complete certain tasks involving the installation of ESSO-LM, extending the schema, installing software, and modifying certain permissions within Active Directory.

This guide is intended for experienced administrators and software engineers who are responsible for the installation, configuration, and maintenance of ESSO-PG and Oracle Enterprise Single Sign-on Logon Manager (ESSO-LM). Administrators are expected to understand the installation, configuration, maintenance, and troubleshooting of the following Microsoft products and technologies:

- Windows® Server 2003
- Microsoft Active Directory
- Microsoft Internet Information Server (version 6.0)
- Oracle ESSO-LM software in a Microsoft Active Directory environment, including installation of the ESSO-LM Administrative Console and the ESSO-LM Agent, schema extension, and configuring the ESSO-PG Agent through the ESSO-LM Administrative Console.

## **General Recommendations and Notes**

Microsoft recommends that you not install Internet Information Server (IIS) on a Domain Controller. Oracle recommends that you install the ESSO-PG Server-side components on a member server, not a Domain Controller.

The procedures and recommendations presented in this document have been tested in a controlled environment where the desired results were achieved. Oracle recommends that you test these procedures in a non-production environment that resembles your working network as closely as possible.

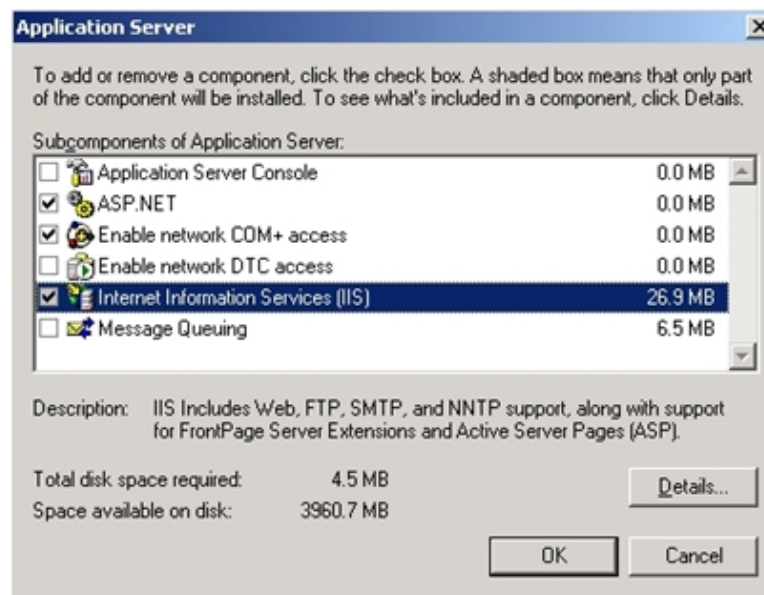
The procedures outlined in this document involve changes that can affect your entire domain. Specialized policies, trust, inheritance issues, and intra- and inter-site replication issues, particularly as they exist in large enterprises, cannot be fully tested outside of the actual environment.

As with any issues that could affect a large number of users, Oracle recommends a prudent, error-on-the-side-of-caution approach to testing and deploying this product by those who are responsible for installing, configuring, and maintaining it.

## Installing the Server-Side Components

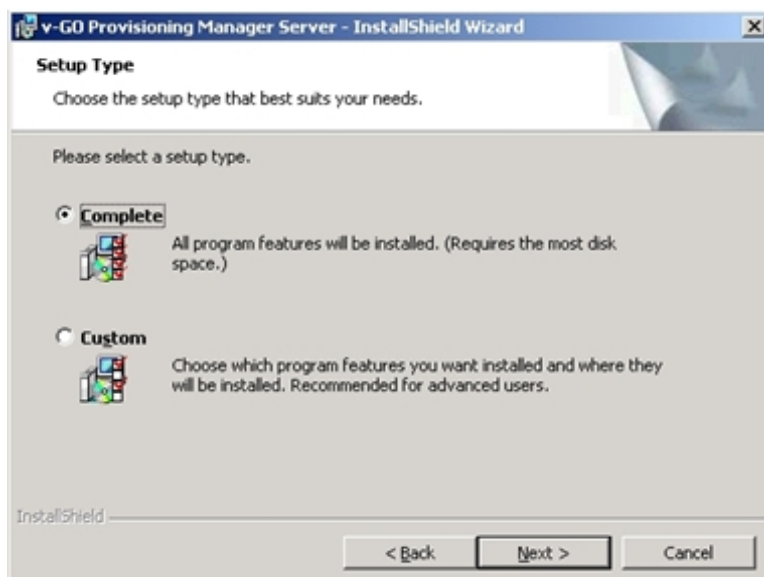
To install the ESSO-PG Server-side components:

1. On a domain controller, through a Terminal Server session to a domain controller, or through a workstation that has the Active Directory Users and Computers snap-on installed, create an account called PMSERVICE.
2. Provide the account with a very secure password.
3. Verify that the account is not required to change its password on next logon. This account need only be a member of the domain users group.
4. On a member server in your domain, log onto that machine as a domain-level administrator.
5. In the Application Server dialog box, verify that Internet Information Server 6.0, as well as the ASP.NET components, are installed:



You can install the .NET framework, version 2.0, manually by downloading it from the Microsoft Web site.

6. There are no special configurations or options to consider during the installation of the ESSO-PG Server-side components. Accept the defaults after agreeing to the End-User License Agreement.
7. In the Setup Type dialog box, select **Complete**.



As part of the installation process, one or more DOS windows will flash momentarily on this server as services start and stop. This is normal behavior during the installation process.



## Installing ESSO-LM and the ESSO-PG Agent

1. Install and configure ESSO-LM on a workstation within your domain. Install the ESSO-LM Administrative Console, the ESSO-LM Agent, and extend your schema. Refer to the *ESSO-LM Installation and Setup Guide* for more information.
2. Verify that ESSO-LM is functioning properly.
3. Install the ESSO-PG client-side components on the workstation where you installed ESSO-PG. Refer to the *ESSO-PG Installation and Setup Guide* for more information.



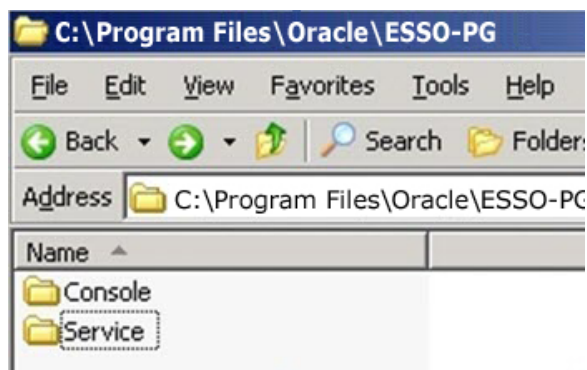
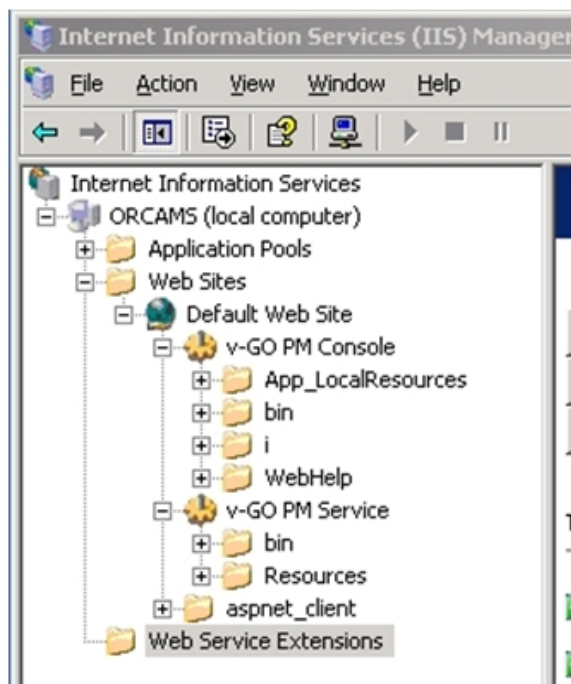
When you deploy the ESSO-LM Agent to workstations, you must also deploy the ESSO-PG client-side component to each workstation where ESSO-LM will reside.

## Verifying the ESSO-PG Server-Side Installation

To verify that you have successfully installed the ESSO-PG Server-side components on your IIS Member Server, look for the following:

- virtual directories within IIS Manager
- folders and files in the C:\Program Files\Oracle directories on the server.

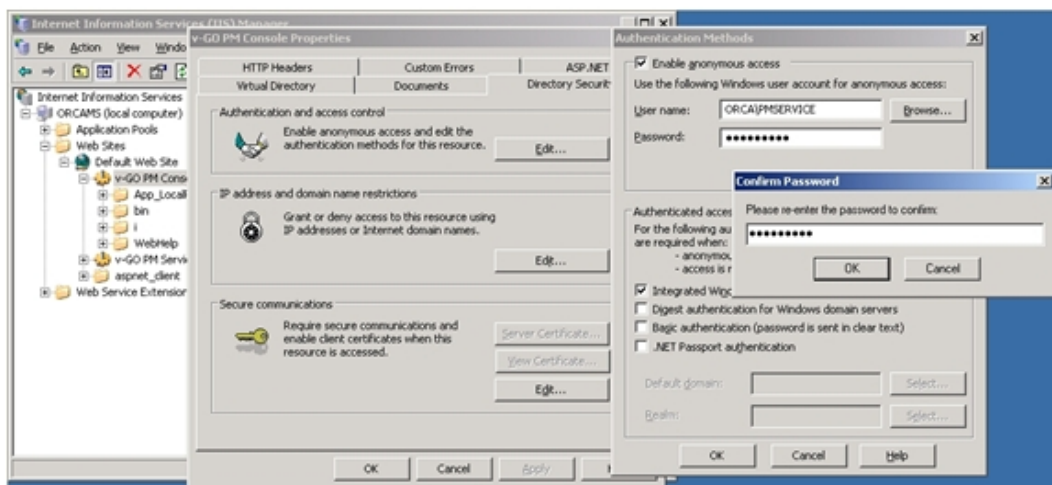
Examples of these entities are shown in the following illustrations:



## Configuring the ESSO-PG IIS Server

In order for the ESSO-PG Server-side components to function properly, you must make the PMSERVICE account a member of the local administrator's group on the IIS Server that houses the Oracle server-side components.

1. In the control panel of the ESSO-PG IIS member server, click the Local Users and Groups icon in the Computer Management Group.
2. Add the PMSERVICE account.
3. Open the Internet Information Server, then Default Website.
4. Locate the ESSO-PG Management Console and ESSO-PG Service virtual directories. For both directories, make the PMSERVICE account responsible for anonymous access.



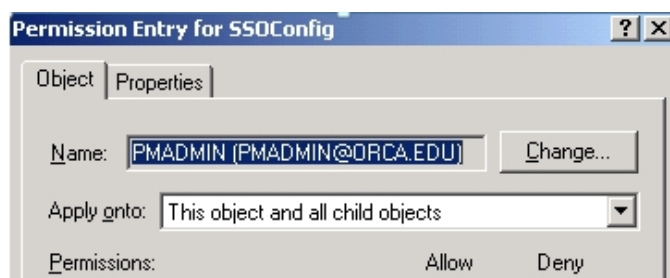
5. From the RUN line, type `iisreset` to restart the IIS service.

## Granting Special Permissions to the PMSERVICE Account

The next procedure is to grant special rights to specific containers within Active Directory on a domain controller to the PMSERVICE account. Remember that, to Active Directory, the PMSERVICE account is simply an ordinary user account.

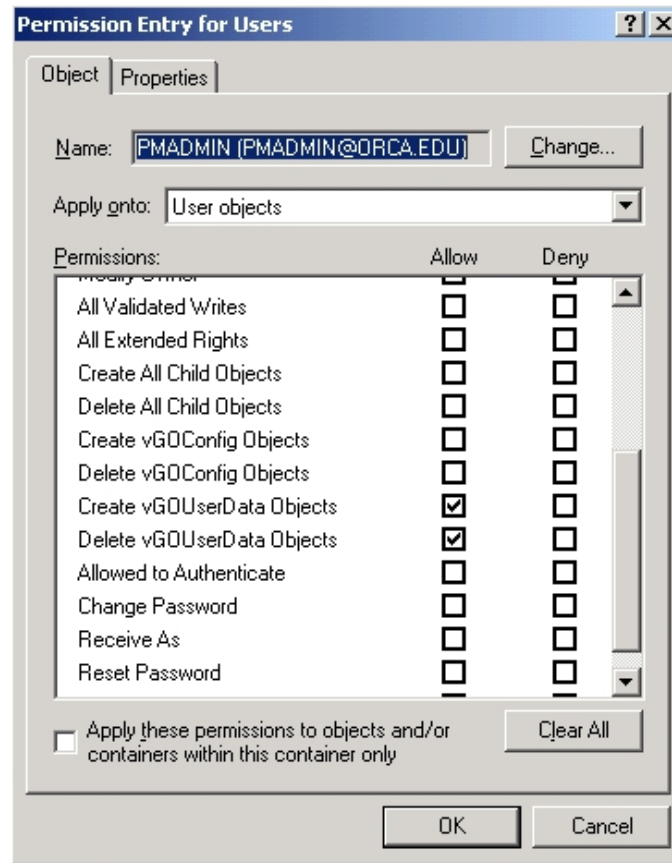
To grant the special permissions:

1. In the Permission Entry for SSOConfig dialog box, grant the PMSERVICE account read-only access to the SSOConfig container (the container where the application templates are stored) as shown in the following illustration:

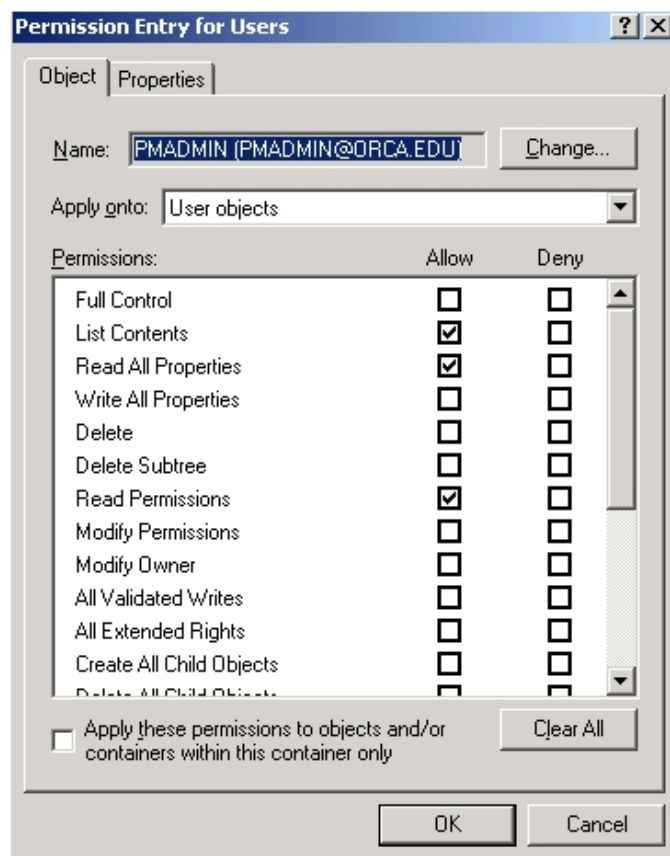


Steps 2 through 8 must be repeated for each Organizational Unit that exists within your organization that contains users.

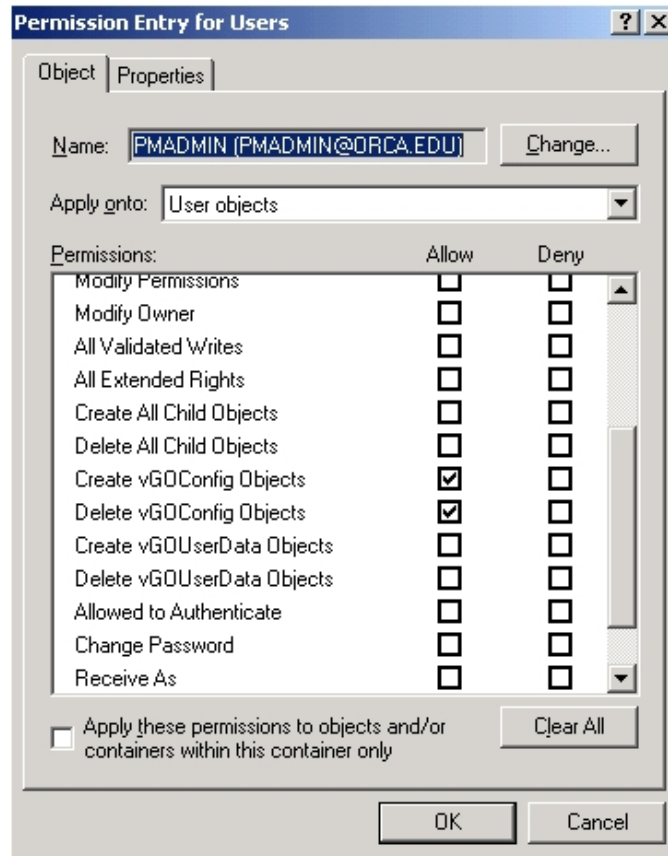
2. In the Permission Entry for the Users container grant the PMSERVICE the ALLOW permission applied onto the User objects as it pertains to both the Create vGOUUserData Objects and Delete vGOUUserData Objects.



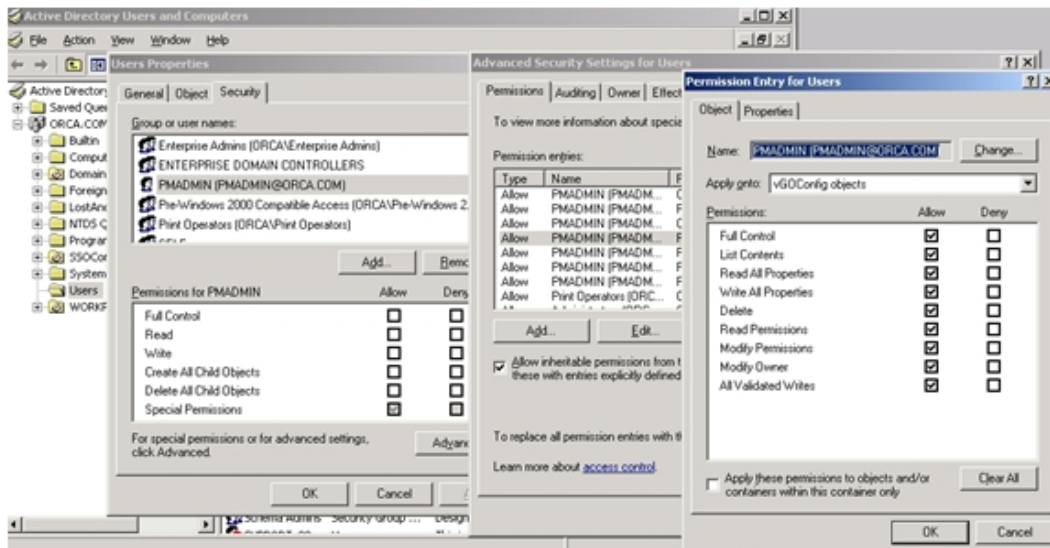
- Grant List Contents, Read all Properties, and Read Permissions to the User Objects containers.



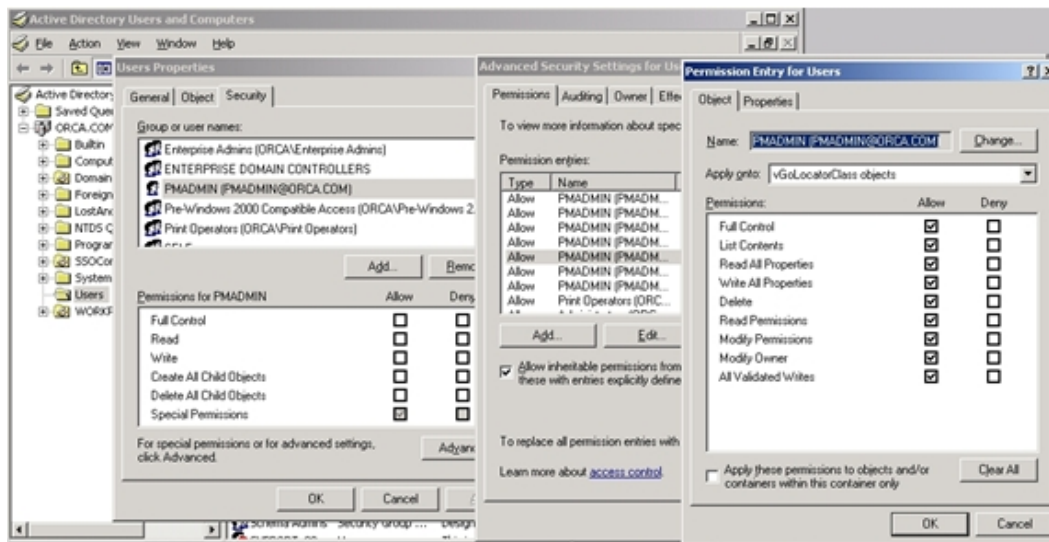
4. Grant the ALLOW permission applied onto the User objects as it pertains to both the Create vGOConfig Objects and Delete vGOConfig Objects.



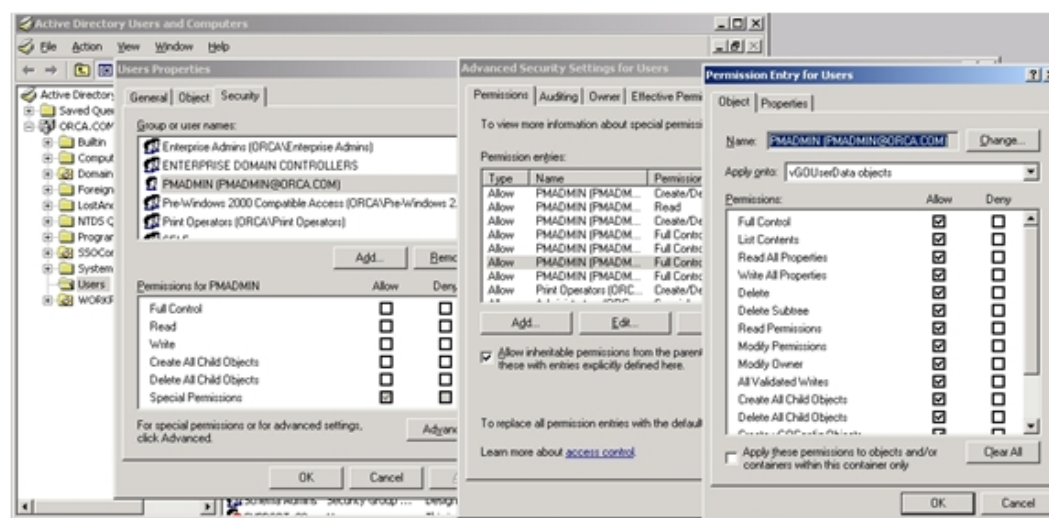
- Grant FULL CONTROL to the PMSERVICE account as it applies to the vGOConfig objects.



- Grant FULL CONTROL to the PMSERVICE account as it applies to the vGOLocatorClass objects.



- Grant FULL CONTROL to the PMSERVICE account as it applies to the vGOUserData objects.



- Grant FULL CONTROL to the PMSERVICE account as it applies to the vGOSecret objects.



