Installing Galileo Desktop
Into a Terminal Services Environment
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Introduction

This guide is intended as an aid for installing and configuring Galileo Desktop® version 3.2 TCP/IP or higher to function in a multi-user Microsoft Terminal Server (MTS) environment. Microsoft Terminal Server is not supported in Galileo Desktop by Galileo International, however these environments may be supported by customer, vendor, or NDCs/SMOs. Contact your regional support organization for more details. The following documentation is based on internal testing at Galileo International, as well as feedback from beta site users. These procedures will vary depending on site requirements and server administration differences.
Requirements

This guide supports the installation of Galileo Desktop in a MTS environment for either:
- Windows-based workstations or other clients supported by MTS client software.

The following hardware and networking must be installed and functioning before Galileo Desktop is installed and configured:
- MTS Client

Assumptions

This guide is intended to document the process for installing Galileo Desktop on a MTS server in most environments, however these procedures cannot duplicate the process that will be required for every installation. This guide assumes that:
- Galileo Desktop will be installed on the MTS server. The procedures are written for Galileo Desktop version 3.2, which incorporates Focalpoint® 4.0.

It is assumed that the server has been set up appropriately, with user home drives and profiles configured, and that the installer has knowledge on the use and configuration of the MTS server.

The drive locations will vary depending on the server environment. For this document, the following standards apply:
- Drive N designates the user home drive on the MTS server.
- Drive A designates the floppy drive on the MTS server.
- Drive D designates the CD-ROM drive on the MTS server.
- WINNT designates the Windows directory on the MTS server.
Galileo Desktop Installation

Installation of the Galileo Desktop into a Terminal Services is best done utilising the home directory of the user and can be tailored depending on the administrators preference or the size of the office.

1. Set the MTS to install mode
2. Run setup.exe from D.
3. Choose to install the Galileo Desktop
4. Depending on the version of Windows, the Microsoft .NET Framework 1.1 installation will start. Agree to the license and select Next
5. Allow the .NET Framework installation to complete and continue with the Galileo Desktop installation
6. You will be prompted to choose which installation to perform (below). Select the appropriate one for your site. In most instances this will be Viewpoint
7. Select **Itinerary (Viewpoint) visible at startup** from the next screen if you’ve chosen Viewpoint previously, or **Terminal windows (Focalpoint) visible at startup** if you’ve chosen Focalpoint only previously.

8. Select **Relay** and **Scriptwriter Plus** from the next screen.
9. If you would like Galileo Desktop to start automatically with Windows, select the first option, otherwise select the second.
10. For a typical installation, select all the languages from the left pane and from the right drop down select English.
11. The installation directories must now be selected. The choices made in this screen will be reflected in the win.ini file.
To make alterations, highlight the line and select **edit**.
Change the **Maps CDROM Location** to be either the CDROM drive of the server or alternatively copy the contents of the CD to a shared drive on the server. The latter is usually the best solution, as it doesn't tie up the CDROM drive for a single use. Other than this change, a default installation will be used initially, then modified later to suit the MTS configuration.
12. Configure the Galileo TCPIP screen as per the below. Select OK when finished.

![Connection Screen](image)

13. Select Next to continue through the next screen (assuming Italian Relay is not required at your site).
14. Deselect Estatus from the following screen. Select Next.

15. The application will now be installed using a mainly default configuration. Once completed select Finish to exit.

16. Return the server to execution mode.
Customising Galileo Desktop in a Terminal Services Environment

Methodology
Galileo Desktop requires that a number of files are accessible (read/write) in order to be able to fully operate in a desktop environment. When transferred to MTS, these still need to be accessible, however also need to be unique to each user. Information such as username, preferences and clientid are contained within these files.

Directory Structure
The default installation of Galileo Desktop onto the Terminal Server created a file structure that is the same as a stand-alone Desktop installation, as per the below:

Move the DATADIR and MACHINE directories to a secure area on the server. This will serve as a master copy. You can now delete these directories from the original install location. Copy the master DATADIR and MACHINE directories to each users home drive mapping (in this example N drive) under the FP directory. The users need full access to their own home directories.
The SWDIR directory can remain on the root of the server with read-only rights given to the users. The directory structure for Galileo Desktop in this example will be:
C:\FP\SWDIR
N:\FP\DATADIR
N:\FP\MACHINE

WIN.INI

Galileo Desktop uses the WIN.INI file to point to these directories. In Terminal Services, the WIN.INI is generated as required for each individual user and resides in \documents and settings\%username%\windows.
For each user, the WIN.INI needs to contain a [Focalpoint] section. This directs the application to the new directory structure. A sample WIN.INI is:

[Focalpoint]
SWDIR=C:\fp\swdir\nDATADIR=N:\fp\datadir\nMACHINEDIR=N:\fp\machine\nSingleFrame=VP
CommandEventWindow=False
LogonEnabled=2
Host=Galileo
Language=ENU

The first three lines, SWDIR, DATADIR and MACHINEDIR are the directory pointers and should be configured to match those earlier configured.
Copy or modify each users’ [Focalpoint] section in their WIN.INI to reflect your environment. This will need to be performed for each Galileo Desktop user on the system. Assuming there are no other configuration parameters in the WIN.INI, it can be modified once and copied from one user to another.

DAT32COM.INI

The DAT32COM.INI file resides in the users’ Machine directory (N:\fp\machine) and contains the required communications information for the client to talk to the Host.
Open the dat32com.ini for the user you are modifying. Under the [Galileo] heading, find the Client Identifier line. It should look like this:

Client Identifier=g0xxxxx

Change the g0xxxxx to reflect the client identifier assigned to the individual. This file will need to be modified for each user to reflect their own client identifier.
**Adding new users to the system**

New users must first be added to the environment as per normal. To configure them to use Galileo Desktop, the following needs to be done:

- Copy the WIN.INI from an existing user to the new user.
- Create an FP directory in the user home drive and copy the DATADIR and MACHINE directories from the master set into this directory.
- Edit the DAT32COM.INI file in the MACHINE directory to reflect the user’s ClientID.
Appendix A

Confirming Galileo Desktop Connectivity*

To confirm connectivity, open a Galileo Desktop session from the client workstation.
- If the connection was successful a Download Successful message displays to confirm that the HCM has connected to the IPC.
- If the connection was not successful, check the Client Identifier (GTID) and network connections from the Galileo Desktop session configuration. -To check the Client Identifier: Enter END ITEM+J.

The identifier will display as Terminal Identifier = C1FTFE

To check connectivity to the server:
Enter END ITEM+H
The IP address of the Terminal Server displays as 11.1.11.111.

To check connectivity to the host:
Enter END ITEM+M
The following code displays:

00C2FTFE 29 CPU A GIPC03
GTID CPU MIPIF GATEWAY

Notes:
- These identifiers and addresses are examples, and will vary according to the system.
- The End Item commands are only allowed if Galileo Mapped Keyboard was selected during the configuration of the Galileo Desktop.

* taken from Galileo International Notes