# MEMORANDUM



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To:	Administrators	Date:	17 June 2009
From:	Phil Wade	Job No:	
Сору:		Doc No:	

#### RE: Installation of gINT on an Application Server (Terminal Services)

#### 1 Introduction

If the performance of gINT deteriorates to an unacceptable level, then we recommend the use of an Application Server such as Microsoft Terminal Server or Citrix. The advantages of an Application Server are:

- Data access speed issues are minimised if the databases are stored on the computer with the gINT application installation.
- Program updates and configurations can be implemented on one computer, as opposed to numerous clients.
- One high spec server does the processing, eliminating the need to purchase multiple high spec client PCs.
- Significantly less network bandwidth is used by the Geotechnical Database system.

### 2 Installation considerations for Terminal Services

- All program installations must be done in Control Panel > Add/Remove Programs dialog. Open Add/Remove Programs dialog, and select the second tab on the left - Add New Programs.
- 2. Windows Data Execution Prevention (DEP)

When using gINT on a Windows Vista or Windows Server 2003 system, you may encounter access problems when opening gINT. This problem is related to the DEP (Data Execution Prevention) Settings. By default DEP is turned on in Windows Vista and Windows Server 2003, but not in Windows XP.

To disable DEP when running gINT, follow the steps below:

- a) Open Control Panel > System Properties.
- b) Select Advanced tab and click on Settings in the Performance section.

System Properties				
Computer Name Hardware Advanced System Protection Remote				
You must be logged on as an Administrator to make most of these changes.				
Performance				
Visual effects, processor scheduling, memory usage, and virtual memory				
Settings				
User Profiles				
Desktop settings related to your logon				
Settings				
Startup and Recovery				
System startup, system failure, and debugging information				
Settings				
Environment Variables				
OK Cancel Apply				

- c) In the **Performance Options** dialog, select the **Data Execution Prevention** tab.
- d) If the option to "Turn on DEP for all programs and services..." is checked, then click Add and browse to the gINT8.exe file. The default location for this file is "C:\Program Files\gINT\bin\gint8.exe".

Performance Options				
Visual Effects Advanced Data Execution Prevention				
Data Every tigo Draventigo (DED) halos protect				
against damage from viruses and other security threats. How does it work?				
Turn on DEP for essential Windows programs and services only				
Turn on DEP for all programs and services except those I select:				
I gint8				
Add Remove				
Your computer's processor does not support hardware-based DEP. However, Windows can use DEP software to help prevent some types of attacks.				
OK Cancel Apply				

e) Click Apply to save the changes.

## 3 Adding a New gINT User on Windows Server 2003

The setup.gsh file, which is normally stored in the "C:\Program Files\gINT\Settings" directory, stores general gINT environment settings, such as default locations of gINT files as well as a recent history of opened gINT files. Users who cannot access the Settings directory will have difficulty opening gINT, and if multiple users hit on the same Setup.gsh file it will become corrupt regularly and each user will not have their personal setting retained. To resolve this, the setup.gsh file must be copied into the user's My Documents directory, and accessed from there.

- 1. Browse to C:\Program Files\gINT\Settings and save a copy of the file setup.gsh to another location. Then delete this file from the Settings directory.
- 2. Copy the setup.gsh file into C:\Documents and Settings\<user name>\My Documents, where <user name> is the user's login name.
- 3. Copy the gINT 8 shortcut from the desktop and paste it into C:\Documents and Settings\<user name>\Desktop.
- 4. Right click on the gINT 8 shortcut file, and go to the Shortcut tab.
- 5. Change the Target field to:

"C:\program files\gint\bin\gint8.exe" /SETUP="C:\Documents and Settings\<User Name>\My Documents"

where <User Name> is the user's login name.

gINT Version 8 Pro	operties	? ×			
General Shortcu	t Compatibility Security				
gIN	T Version 8				
Target type:	Application				
Target location: bin					
<u>I</u> arget:	ents and Settings\ <user name="">\My Documen</user>	ts"			
<u>S</u> tart in:	"C:\Program Files\gINT8\bin\"				
Shortcut <u>k</u> ey:	None				
<u>B</u> un:	Normal window	J			
Comment:					
Eind Target Change Icon Advanced					
	OK Cancel <u>A</u> pp	ly			

6. Repeat steps 2 to 4 for every user as required.