

# LANSA and Citrix

## Notes:

1. Where we refer to *Visual LANSA* this means the Visual LANSA Development environment.
2. Where we refer to Citrix, we also include Windows Terminal Services (WTS).
3. A Visual LANSA deployed application should work in a Citrix environment as any other Windows application in a Citrix environment.
4. Visual LANSA can work in a Citrix environment.
5. Visual LANSA can also work in a WTS environment.
6. Where we refer to WTS but not CITRIX, we use WTS ONLY.
7. Where we refer to Citrix but not WTS, we use CITRIX ONLY.
8. Several Citrix related problems existed prior to Visual LANSA 10.0 with EPC682 applied. These have been fixed in EPC682 for Visual LANSA 10.0. Refer to the EPC682 documentation for more details.
9. This document refers to Visual LANSA 10.0 with EPC682 or greater applied.

## Installing Visual LANSA on Citrix

### Pre-Installation steps on the iSeries Server:

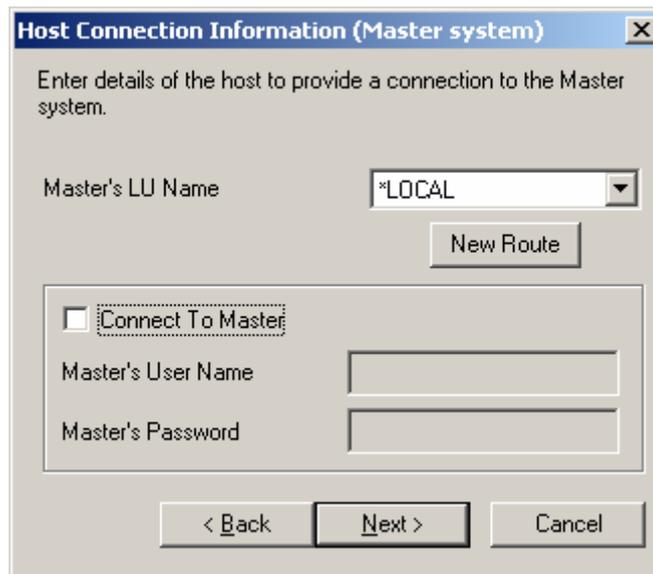
- If the version of Visual LANSA being installed on the Citrix environment is a Slave to an iSeries Master, LANSA 10.0 must be installed on the iSeries prior to the Visual LANSA 10.0 install.
- There must be a unique iSeries user profile for each Citrix client that will connect (to the iSeries master) via the LANSA Host Monitor.

### Pre-Installation steps on the Citrix Server:

- Log on to the Citrix Server using the Administrator profile
- Create a unique Windows user profile for each Citrix Client that will be connected to the server.
- There should be a unique 1-to-1 relationship between each Windows user and a LANSA user profile as per the following example  
Citrix Client logon user eg. USER1 should have an equivalent iSeries user profile eg. LANSA1 to log into LANSA  
Citrix Client logon user eg. USER2 should have an equivalent iSeries user profile eg. LANSA2 to log into LANSA  
Citrix Client logon user eg. USER3 should have an equivalent iSeries user profile eg. LANSA3 to log into LANSA

### Installation steps on the Citrix Server:

1. There are 2 ways of installing Visual LANSA on Citrix.
  - a. Go to Settings\Control Panel\Add Remove Program, change the File Type to *All Files* and install Visual LANSA from the index.html on the LANSA on Windows CD.
  - b. Or in Windows, run CMD, which starts the DOS prompt. At the DOS prompt, type the command "change user/install" e.g. c:\>change user/install. Close CMD and load the LANSA Windows CD. Now, you can install Visual LANSA from the CD as you would in a Non-WTS environment.
2. If an ASA database is to be used, the user should select the ASA Server version.
3. During the install, ensure you **DO NOT** connect to Master. Connect to local by un-checking the *Connect to Master* checkbox as per the following screen.



4. When the Installation has completed, start REGEDT32 and delete the following registry value **ONLY**  
HKEY\_CURRENT\_USER\Software\LANSA\XXX\LANSA\PC\LX\_NodeName.  
Where XXX is made from your LANSA root directory with “\” replaced by “%5C”. For example if your LANSA directory is C:\Program Files\LANSA11 then your XXX will be C:%5C Program Files%5CLANSA11.
5. If you have installed via the Add/Remove Programs, click the FINISH button in the Add/Remove Program.
6. If you have installed via the command “change user/install”, start the DOS prompt again and type the following command “change user/execute” e.g. c:\>change user/execute.

**Special Note:**

There have been occurrences where an error LII0136E has been generated during the Visual LANSA install on the Citrix server. If you generate this error, click OK on the error message dialogs and finish the install as per steps 4 or 5 above (depending on whether you installed via Add/Remove Programs or via CMD). Then go to LANSARoot\LANSA directory eg. C:\Program Files\LANSA\LANSA and delete the following files LIILOCK.DAT and \*.LCK  
LANSA is currently investigating why this installation error occurs in some occasions.

**Post-Installation steps on the Citrix Server:**

- Start REGEDT32 and delete the following subkey **ONLY**  
HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windows NT\CurrentVersion\Terminal Server\Install\Software\LANSA by highlighting the LANSA subkey and selecting *Delete* from the Edit menu. *Note: this step is a Microsoft recommendation as per the Terminal Server documentation.*
- If the ASA Local Server database is used, the DSN should use *TCP/IP protocol*, not *shared memory*. This can be set for the ASA database in the ODBC Administrator.
- Ensure that the following 2 options are **NOT** enabled for the ASA database in the ODBC Administrator.  
*Automatically start the database if it isn't running*  
*Automatically shutdown database after last disconnect*
- In the LANSA folder, use Settings and Administration \ LANSA Communication Administrator to create a host route entry for the iSeries if it does not exist already.
- You must restart the computer after installing Visual LANSA in a Citrix environment via either of the 2 methods above.
- Apply the required EPCs for 10.0 eg. EPC667 and EPC682 to get the latest Citrix related fixes.

**Note:** The Administrator credential used to install Visual LANSAs on the Citrix server should not be given to CITRIX clients.

## ON THE CITRIX CLIENTS

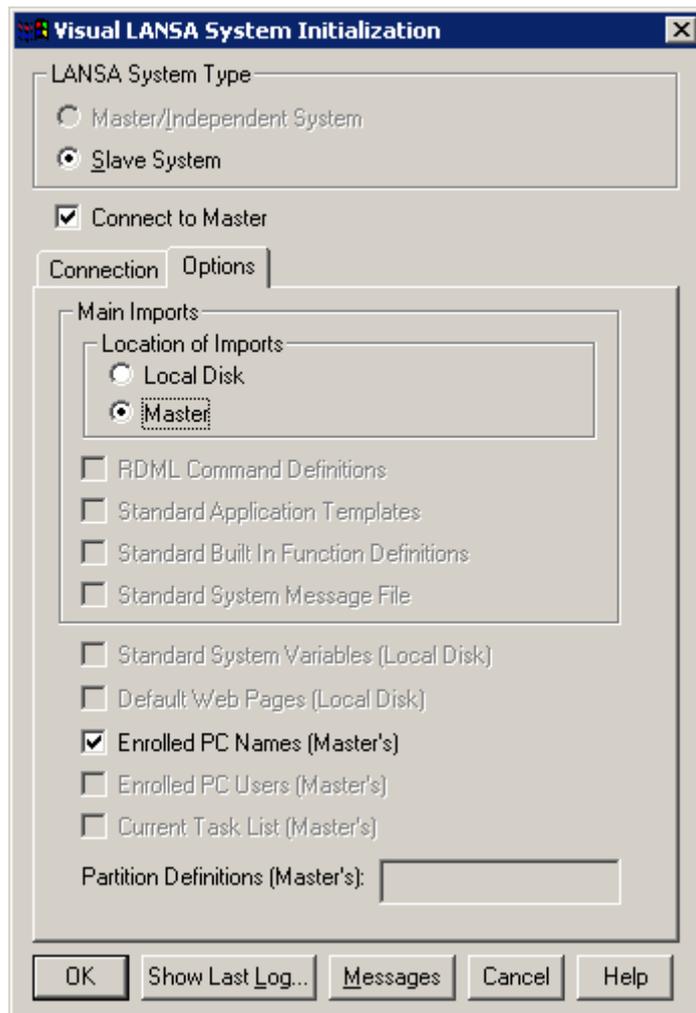
**IMPORTANT NOTE:** To use the LANSAs Host Monitor, each Citrix Client must use a unique combination of Citrix Client user and LANSAs User profile. Refer to *Pre-Installation steps on the Citrix Server* above.

### Steps to perform on the 1st Citrix Client

- Once the Citrix server has been restarted after the Visual LANSAs installation, log on to a Citrix Client with a unique Windows (Citrix) user eg. USER1
- Log on to LANSAs using the corresponding iSeries (LANSAs) user profile eg. LANSAs1.
- Because no System Initialisation has been performed to the iSeries yet, the system initialisation screen will automatically appear.
- Enter the connection details for the iSeries host defined in the LANSAs Communications Administrator and the LANSAs1 user profile and password. Select to perform the default System Initialisation.
- Once this completes, the Visual LANSAs logon screen will appear (this may take a short length of time to appear).
- Log in to Visual LANSAs. From the main taskbar Open Help -> Product Information. This Citrix client will be given a unique PC Name (Node name) eg. CITRIX1 (Note: the unique name will be based on the Citrix server computer name + a number (in the range 1 – 32767)).
- Start the Host Monitor. The Host Monitor will be available for checkin/checkout.
- Note: If you logon to the iSeries Server (using partition security officer) and type PCMAINT partition(xxx) you will see that an entry has been added to PC Names for CITRIX1.
- In PCMAINT, press F10 to access PC Users. You will see that an entry has been added to PC Users for user LANSAs1

### Steps to perform on all other Citrix Clients

- Log on to a Citrix Client with the next unique Windows (Citrix) user eg. USER2
- Log on to LANSAs using the corresponding iSeries (LANSAs) user profile eg. LANSAs2
- The System Initialisation will automatically appear. Enter the connection details for the iSeries host defined in the LANSAs Communications Administrator and the LANSAs2 user profile and password.
- The only option available for update will be the PC Names option. **Note:** Ensure *Connect to Master* is checked. Select OK to complete the System Initialization.



- Once this completes, the Visual LANS logon screen will appear (this may take a short length of time to appear).
- Log in to Visual LANS using LANS2 userid/password. From the main taskbar Open Help -> Product Information. This Citrix client will be given a unique PC Name (Node name) eg. CITRIX2 (Note: the unique name will be based on the Citrix server computer name + a number (in the range 1 – 32767)).
- Start the Host Monitor. The Host Monitor will be available for checkin/checkout.
- Note: If you logon to the iSeries Server (using partition security officer) and type PCMAINT partition(xxx) you will see that an entry has been added to PC Names for CITRIX2
- In PCMAINT, press F10 to access PC Users. You will see that an entry has been added to PC Users for user LANS2
- Complete these steps for each additional Citrix Client.

**Other Findings:**

- If Visual LANS is running in one Citrix session, a second session with the same Windows logon credentials cannot run Visual LANS. If this is attempted, an error message will be generated.
- If Visual LANS has failed or crashed in a Citrix session (for whatever reason), this session must be closed and another one opened before Visual LANS can be re-run.