

# Install, Configure, and Operate a CL Server

## Objectives

Given a configured APP node with the TPS Base software installed, install and configure the CL Server on the APP node.

Given an installed and configured CL Server on a TPS node, perform basic CL Server operations.

## Prerequisites

- Your partition sheet
- A TPS APP node configured as part of a TPS domain
- A PDC must be configured
- The APP node's LCNP4 board must be configured
- TPS Base software has been installed

## Introduction

**Part I:** The purpose of this lab is to install and configure a CL Server component on a TPS APP node.

⇒ *Note: The procedures in this section assume the node has the APP Base Software loaded, configured, and fully implemented.*

**Part II:** The purpose of this lab is to perform various operational tasks on the CL Server.

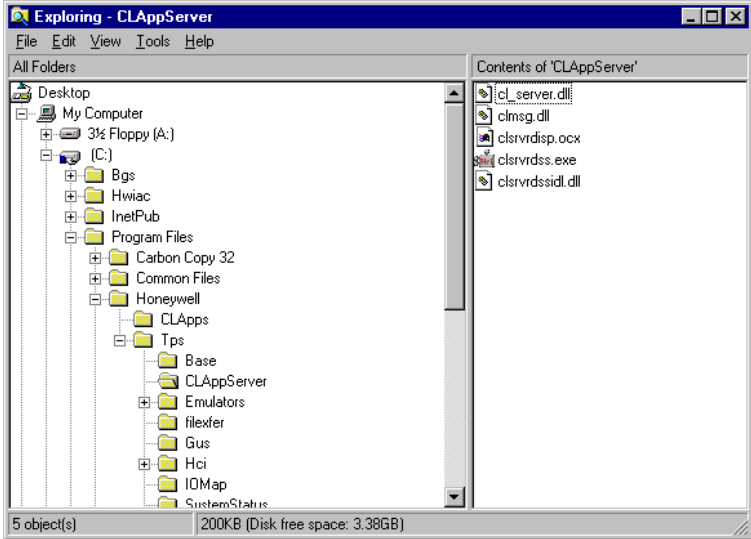
⇒ *Note: The procedures in this section assumes the TPS node has the base HCI components installed prior to component configuration.*

**Estimated Time to Complete: 1.25 hours**

## Procedures

### Install the CL Server Software in the APP node

✓	Step	Action
<b>Deactivate all TPS Applications</b>		
	<b>1</b>	Log on to the APP node as TPSAdministrator.
	<b>2</b>	Open the <b>Configuration Utility</b> as follows: <b>Start &gt; Programs &gt; Honeywell TPS &gt; Configuration Utility</b>
	<b>3</b>	Select the <b>Configure</b> menu.
	<b>4</b>	Select the <b>Devices/Services</b> menu option.
	<b>5</b>	Note all boxes that are checked so you can select them later. <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> TPSadmin  <input type="checkbox"/> Device Driver  <input type="checkbox"/> Enable  <input type="checkbox"/> LCN File Service  <input type="checkbox"/> BGS_SDService  <input type="checkbox"/> GUS Remote LXS  <input type="checkbox"/> Enable Touch Screen Driver </div> <div style="width: 50%;"> <input type="checkbox"/> TPS Console Operator  <input type="checkbox"/> Services  <input type="checkbox"/> File Transfer  <input type="checkbox"/> CarbonCopy32  <input type="checkbox"/> Enable Integrated Keyboard Driver </div> </div>
	<b>6</b>	Uncheck all boxes and then select the <b>OK</b> button.
	<b>7</b>	Close the <b>Configuration Utility</b> .
	<b>8</b>	Shutdown and restart the APP node.
	<b>9</b>	Log on as TPSAdministrator WHILE HOLDING THE <b>SHIFT</b> KEY DOWN. <b>Note:</b> the SHIFT key is held down at the time the ENTER key is pressed. You ensure that no applications are active by holding the SHIFT key while you log on. You must hold the key down until the log in is complete (the cursor is the normal cursor).
<b>Install Software Components</b>		
	<b>10</b>	Insert the TPS Sys Software CD-ROM.
	<b>11</b>	Select <b>TPS System</b> .
	<b>12</b>	When the <i>Welcome</i> dialog displays, read the details and if you agree select the <b>Next</b> button.
	<b>13</b>	Accept the software license agreement terms by selecting the <b>Next</b> button. The <i>User Information</i> dialog is displayed.
	<b>14</b>	Read the Third-Party Software Compatibility Policy and select the <b>Next</b> button.
	<b>15</b>	If this dialog has been used before, the information will be filled in. If not, enter the <b>Name</b> , <b>Company</b> , <b>License No.</b> , and <b>Authorization No.</b> information from your partition sheet and then select the <b>Next</b> button.

✓	Step	Action
	<b>16</b>	When the License No. and Authorization No. have been validated, the <i>Package Selection</i> dialog displays with a list of the available licensed packages. Select the following package:  <b>CL/NT Application Server</b>
	<b>17</b>	Select the <b>Install Package</b> button.
	<b>18</b>	Select the <b>Default</b> radio button option for <b>Installation Type</b> and then select the <b>OK</b> button.  If you encounter read-only files, select the checkbox and the <b>Yes</b> button to overwrite them.
	<b>19</b>	When all selected packages are installed, select the <b>Exit</b> button to exit the install program.
	<b>20</b>	Select the <b>Yes</b> button to answer the <i>Are you sure...</i> dialog.
	<b>21</b>	Click <b>EXIT</b> on the Software Installation window, then select <b>Yes</b> to confirm.
	<b>22</b>	Remove the TPS Sys Software CD-ROM.
<b>Verify the CL Server Software Installation on the APP node</b>		
	<b>23</b>	Invoke Windows NT Explorer from the Task Bar: <b>Start &gt; Programs &gt; Windows NT Explorer</b>
	<b>24</b>	Using Explorer, navigate to the following folder: <b>C:\Program Files\Honeywell\TPS\CLAppServer</b>
	<b>25</b>	Verify the <b>CLAppServer</b> folder contains program files indicating a successful installation.  
<b>Restart TPS Applications</b>		
	<b>26</b>	Open the <b>Configuration Utility</b> as follows:  <b>Start &gt; Programs &gt; Honeywell TPS &gt; Configuration Utility</b>

✓	Step	Action
	<b>27</b>	Select the <b>Configure</b> menu.
	<b>28</b>	Select the <b>Devices/Services</b> menu option.
	<b>29</b>	Refer to step 5 and check the boxes for the desired services and then select the <b>OK</b> button.
	<b>30</b>	Close the <b>Configuration Utility</b> .
	<b>31</b>	Shutdown and restart the node.

### ***Install TPS Security***

This procedure will set permissions on any registry entries, and any files/directories that were added during the installation of the software.

✓	Step	Action
	<b>32</b>	Log on to the APP node as TPSAdministrator.
	<b>33</b>	Insert the <b>TPS System Software CD-ROM</b> .
	<b>34</b>	Click <b>TPS Security Installation</b> .
	<b>35</b>	If the domain name is not correct, enter the NT Domain name listed on your partition sheet and then select the <b>Next</b> button.
	<b>36</b>	In the <i>Configure This Machine as a...</i> window, select the <b>TPS Domain Node</b> radio button option and then select the <b>Next</b> button.
	<b>37</b>	In the <i>Welcome</i> window, select the <b>Next</b> button.
	<b>38</b>	Read the Software License Agreement and accept the software license agreement terms by selecting the <b>Yes</b> button.
	<b>39</b>	If not already correct, enter a <b>Name</b> and <b>Company</b> from your partition sheet.
	<b>40</b>	Enter <b>1</b> in the Serial text field and then select the <b>Next</b> button.
	<b>41</b>	Enter <b>C:</b> as the drive letter where the TPS software will be installed and select the <b>Next</b> button.
	<b>42</b>	Select the <b>Typical</b> installation option and select the <b>Next</b> button.
	<b>43</b>	Verify the current settings and select the <b>Next</b> button to begin the security configuration.
	<b>44</b>	Wait for configuration to complete (about 2 minutes). If you get errors, select the radio button to view them and then select the <b>Next</b> button. If you do not get errors, select the <b>I prefer to view the configuration log at another time</b> radio button and then select the <b>Next</b> button.
	<b>45</b>	Select the <b>Finish</b> button.
	<b>46</b>	Select <b>EXIT</b> on the Software Installation window, then select <b>Yes</b> to confirm.

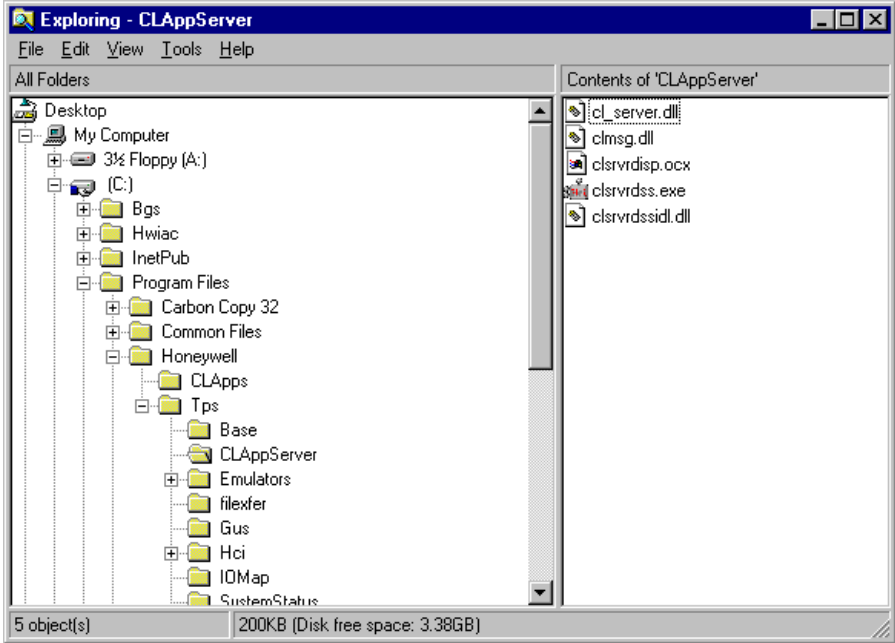
✓	Step	Action
	47	Remove the CD from the drive.

### ***Install the CL Server Software in the GUS node***

**Note:** This procedure will load the CL Server software on the GUS and will make the appropriate registry entries to allow operation of the CL server (display of the Auxiliary Status Display) from the GUS node. Although we will load the software, we will NOT configure the CL Server on the GUS node. With good planning, you could have loaded this software on the GUS at the time you loaded other optional software on the GUS.

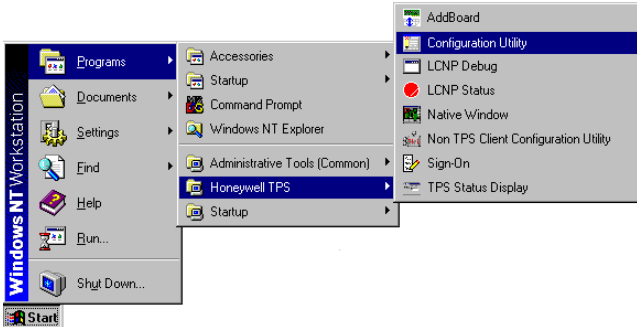
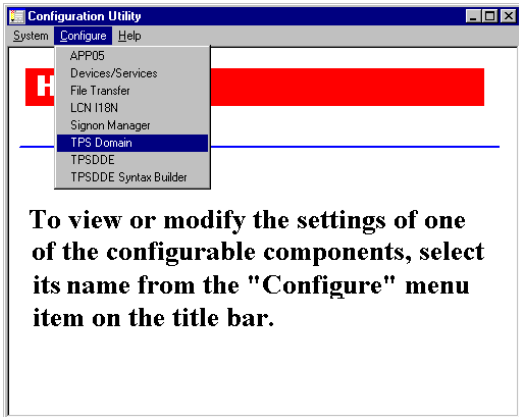
✓	Step	Action
	48	Log on to the GUS node as TPSAdministrator.
	49	Insert the TPS Sys Software CD-ROM.
	50	Select <b>TPS System</b> .
	51	When the <i>Welcome</i> dialog displays, read the details and if you agree select the <b>Next</b> button.
	52	Accept the software license agreement terms by selecting the <b>Next</b> button. The <i>User Information</i> dialog is displayed.
	53	Read the Third-Party Software Compatibility Policy and select the <b>Next</b> button.
	54	If this dialog has been used before, the information will be filled in. If not, enter the <b>Name</b> , <b>Company</b> , <b>License No.</b> , and <b>Authorization No.</b> information from your partition sheet and then select the <b>Next</b> button.
	55	When the License No. and Authorization No. have been validated, the <i>Package Selection</i> dialog displays with a list of the available licensed packages. Select the following package:  <b>CL/NT Application Server</b>
	56	Select the <b>Install Package</b> button.
	57	Select the <b>Default</b> radio button option for <b>Installation Type</b> and then select the <b>OK</b> button.  If you encounter read-only files, select the checkbox and the <b>Yes</b> button to overwrite them.
	58	When all selected packages are installed, select the <b>Exit</b> button to exit the install program.
	59	Select the <b>Yes</b> button to answer the <i>Are you sure...</i> dialog.
	60	Click <b>EXIT</b> on the Software Installation window, then select <b>Yes</b> to confirm.
	61	Remove the TPS Sys Software CD-ROM.

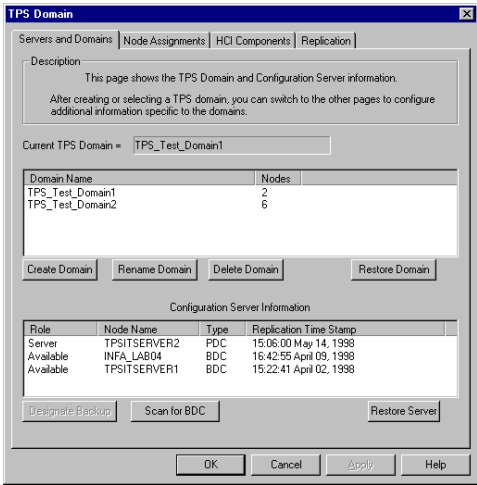
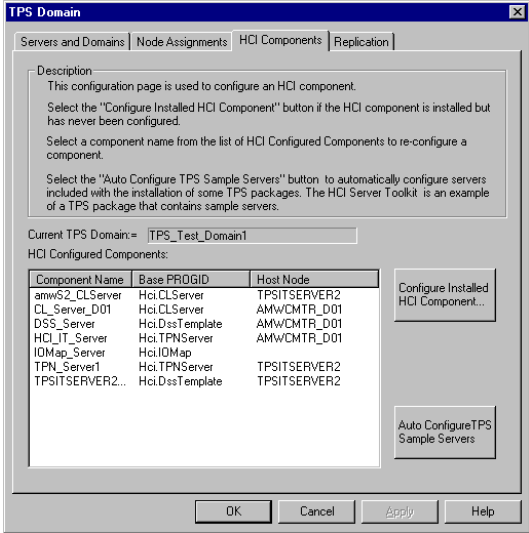
**Verify the CL Server Software Installation in the GUS node**

✓	Step	Action
	62	Invoke Windows NT Explorer from the Task Bar: <b>Start &gt; Programs &gt; Windows NT Explorer</b>
	63	Using Explorer, navigate to the following folder: <b>C:\Program Files\Honeywell\TPS\CLAppServer</b>
	64	Verify the <b>CLAppServer</b> folder contains program files indicating a successful installation.  

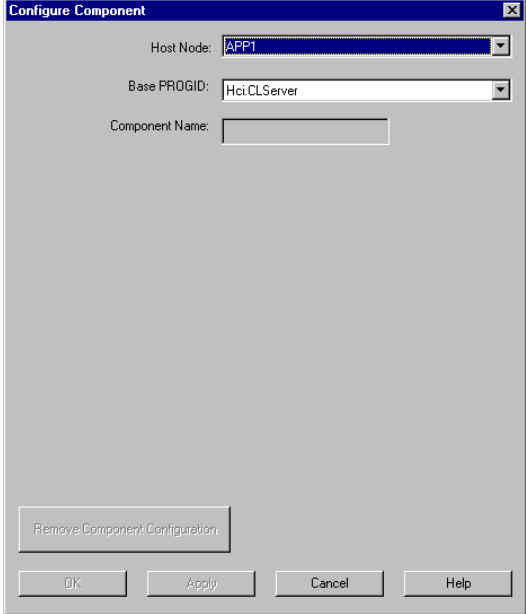
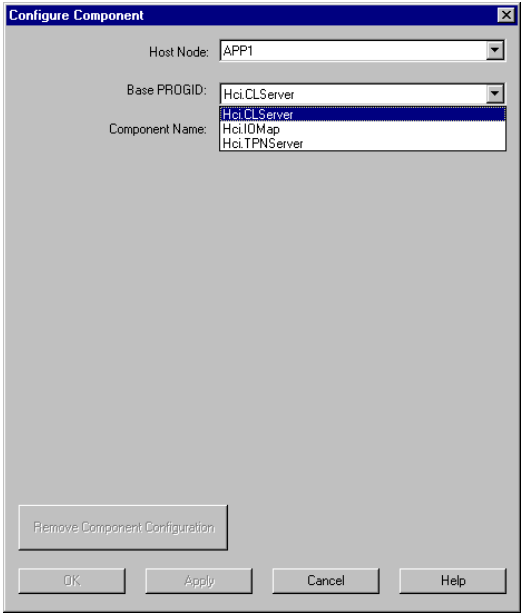
## Configure the CL Server

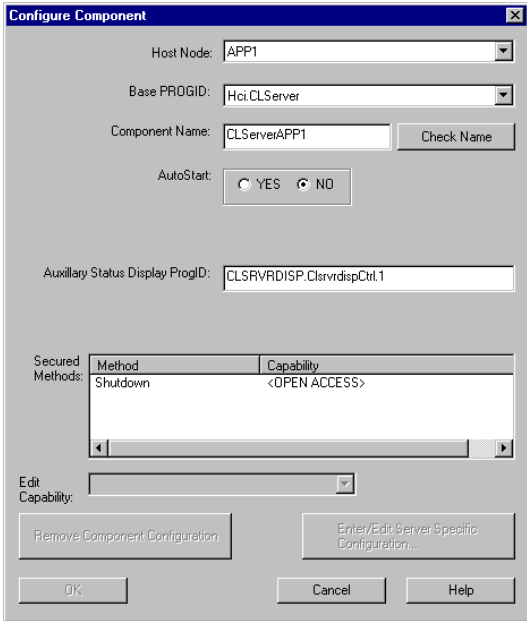
⇒ *You must be logged on as the TPS Administrator to perform the actions in the following steps. These steps may be performed at any node in the TPS Domain or at the PDC of the NT domain.*

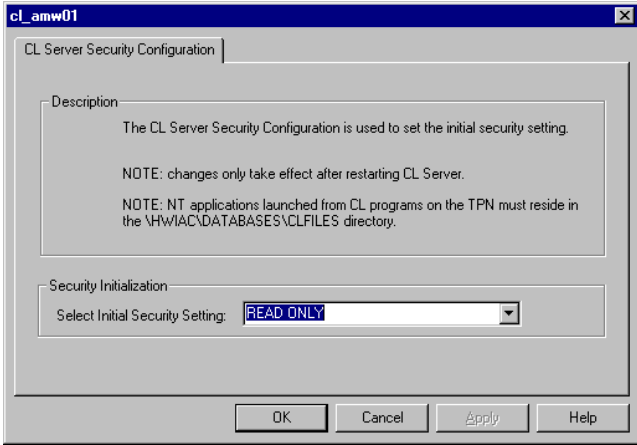
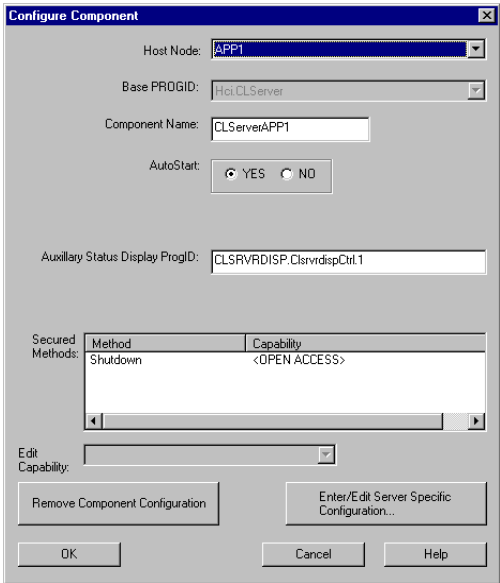
✓	Step	Action
	65	<p>Invoke the Configuration Utility from the Task Bar:  <b>Start &gt; Programs &gt; Honeywell TPS &gt; Configuration Utility</b></p> 
	66	<p>The <i>Configuration Utility</i> dialog box appears. Select the <b>Configure</b> menu and then select the <b>TPS Domain</b> menu option.</p>  <p><b>To view or modify the settings of one of the configurable components, select its name from the "Configure" menu item on the title bar.</b></p>

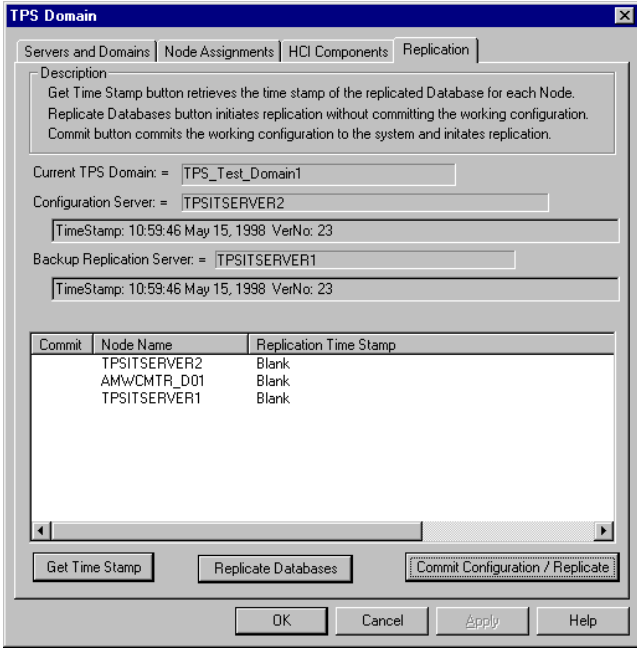
✓	Step	Action
	67	<p>The <i>TPS Domain</i> dialog box appears. Select the <b>Servers and Domains</b> tab.</p>  <p>The screenshot shows the 'TPS Domain' dialog box with the 'Servers and Domains' tab selected. The 'Current TPS Domain' is 'TPS_Test_Domain1'. Below it is a table with 'Domain Name' and 'Nodes' columns. Further down is a 'Configuration Server Information' table with columns for 'Role', 'Node Name', 'Type', and 'Replication Time Stamp'. At the bottom are buttons for 'Create Domain', 'Rename Domain', 'Delete Domain', 'Restore Domain', 'Designate Backup', 'Scan for BDC', 'Restore Server', 'OK', 'Cancel', 'Apply', and 'Help'.</p>
	68	<p>Select the TPS domain from the Domain Name column where the CL Server is to be configured and verify the domain name appears in the <b>Current TPS Domain =</b> box (this example shows <b>TPS_Test_Domain1</b>).</p>
	69	<p>Select the <b>HCI Components</b> tab. The <b>HCI Components</b> property page appears.</p>  <p>The screenshot shows the 'TPS Domain' dialog box with the 'HCI Components' tab selected. The 'Current TPS Domain' is 'TPS_Test_Domain1'. Below it is a table of 'HCI Configured Components' with columns for 'Component Name', 'Base PROGID', and 'Host Node'. To the right of the table are buttons for 'Configure Installed HCI Component...' and 'Auto Configure TPS Sample Servers'. At the bottom are buttons for 'OK', 'Cancel', 'Apply', and 'Help'.</p>
	70	<p>Verify the selected domain appears in the <b>Current TPS Domain =</b> box. Select the <b>Configure Installed Component</b> button.</p>

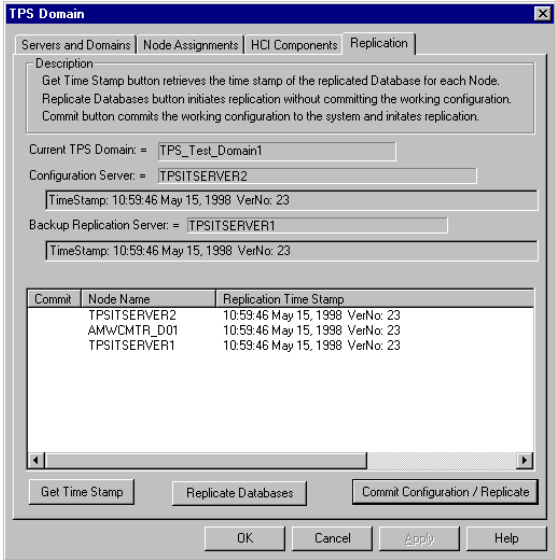
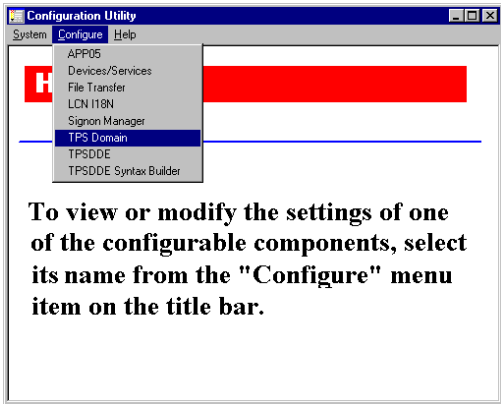


✓	Step	Action
	71	<p>The <i>Configure Component</i> dialog box appears. Select the <b>Host Node</b> drop down list button to view all host names and select the APP node.</p> 
	72	<p>Select <b>Hci.CLServer</b> from the <b>Base ProgID:</b> drop-down list. The base program ID name is <u>required</u> to configure and connect to the HCI component.</p> 

✓	Step	Action
	<b>73</b>	<p>In the <b>Component Name</b> box, enter the desired <i>component_name</i> (for example: <b>CLServer_D01</b>). Select the <b>Check Name</b> button for validation of the component name just entered.</p> 
	<b>74</b>	<p>Select <b>YES</b> for <b>AutoStart</b>.</p> <p>CL Server starts up automatically by TPSAdmin upon system restart.</p>
	<b>75</b>	<p>Verify the <b>Auxiliary Status Display ProgID</b> box contains a program ID name.</p>
	<b>76</b>	<p>The <b>Secured Methods</b> box lists the current capability configuration for each secured method. The only method available on the CL Server is <b>Shutdown</b>. Leave this method without a capability file &lt;Open Access&gt;.</p>
	<b>77</b>	<p>Select the <b>Enter/Edit Server Specific Configuration ...</b> button, then select the <b>Yes</b> button. (When this button is active you must perform the Device Specific Server (DSS) configuration for the CL Server to configure correctly.)</p>
	<b>78</b>	<p>Select the <b>OK</b> button. (This is required only if no capability file was assigned to the shutdown method.)</p>

✓	Step	Action
	79	<p>The <i>CL Server Security Configuration</i> page appears.</p> 
	80	<p>In the <b>Security Initialization</b> box, select <b>Read Write</b> from the drop-down list.</p>
	81	<p><b>Note:</b> For nodes also running the TPN Server, \$XACCESS needs to be set to READWRIT for clients. Currently, \$XACCESS security is limited when NT Applications utilize the TPN Server for accessing TPN data. The TPN Server only supports read-only access, and read-write access. When read-write access only for CL Initiated Applications is selected, the TPN Server will default to read-only access.</p> <p>Select the <b>OK</b> button.</p>
	82	<p>The <i>Configure Component</i> dialog page reappears.</p>  <p>Select the <b>OK</b> button.</p>

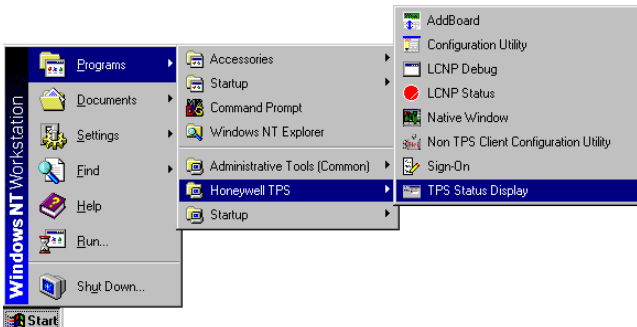
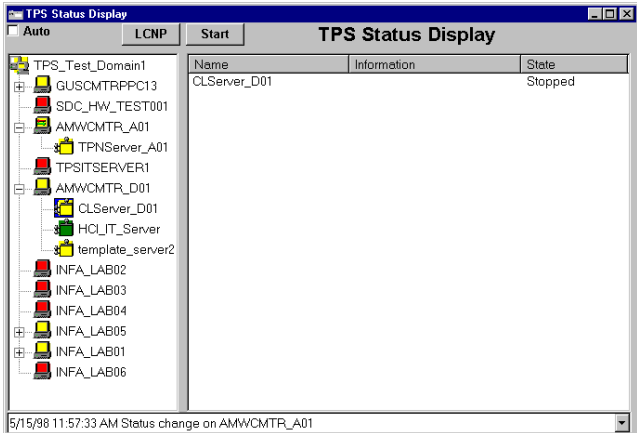
✓	Step	Action
	83	<p>The <i>TPS Domain</i> dialog page appears.</p>  <p>Select the <b>Replication</b> tab.</p> <p><b>Note:</b> Determine if other HCI components require configuration in this node and configure them <u>before</u> replicating. Also verify the <b>Current TPS Domain =</b> box shows the correct TPS domain.</p>
	84	<p>Select the <b>Commit Configuration/Replicate</b> button.</p> <p><b>Note:</b> A period of time is required for replication to affect all TPS nodes in the domain especially if a TPS node is not functional.</p>

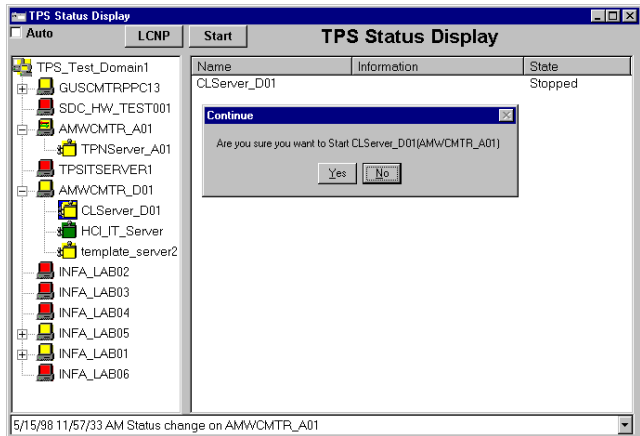
✓	Step	Action												
	85	<p>Upon completion, verify the <b>Replication Time Stamp</b> column changed from "Blank" to showing a "time stamp" entry for each node.</p> <p>Select the <b>OK</b> button.</p>  <table border="1"> <thead> <tr> <th>Commit</th> <th>Node Name</th> <th>Replication Time Stamp</th> </tr> </thead> <tbody> <tr> <td></td> <td>TPSITSERVER2</td> <td>10:59:46 May 15, 1998 VerNo: 23</td> </tr> <tr> <td></td> <td>AMWCMTR_D01</td> <td>10:59:46 May 15, 1998 VerNo: 23</td> </tr> <tr> <td></td> <td>TPSITSERVER1</td> <td>10:59:46 May 15, 1998 VerNo: 23</td> </tr> </tbody> </table>	Commit	Node Name	Replication Time Stamp		TPSITSERVER2	10:59:46 May 15, 1998 VerNo: 23		AMWCMTR_D01	10:59:46 May 15, 1998 VerNo: 23		TPSITSERVER1	10:59:46 May 15, 1998 VerNo: 23
Commit	Node Name	Replication Time Stamp												
	TPSITSERVER2	10:59:46 May 15, 1998 VerNo: 23												
	AMWCMTR_D01	10:59:46 May 15, 1998 VerNo: 23												
	TPSITSERVER1	10:59:46 May 15, 1998 VerNo: 23												
	86	<p>The <i>Configuration Utility</i> dialog re-appears.</p>  <p><b>To view or modify the settings of one of the configurable components, select its name from the "Configure" menu item on the title bar.</b></p> <p>Close the Configuration Utility.</p>												

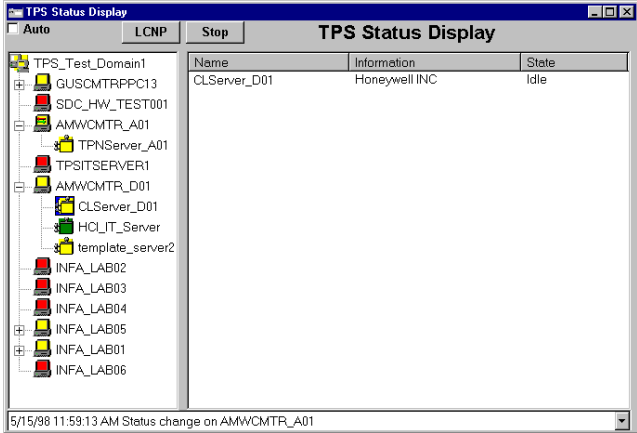
## Part II:

### Start the CL Server using the TPS Status Display

⇒ *You must be logged on as the TPS Administrator to perform the actions in the following steps.*

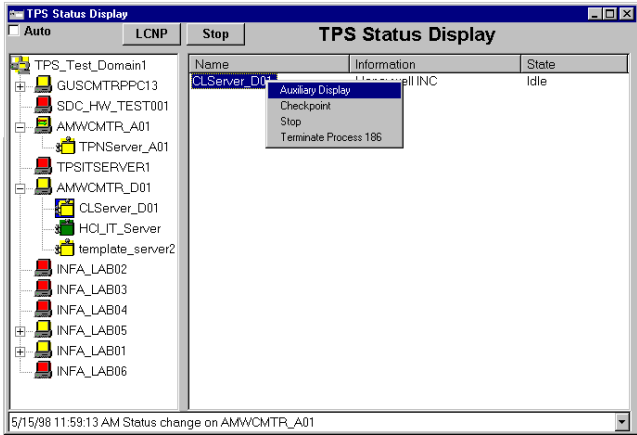
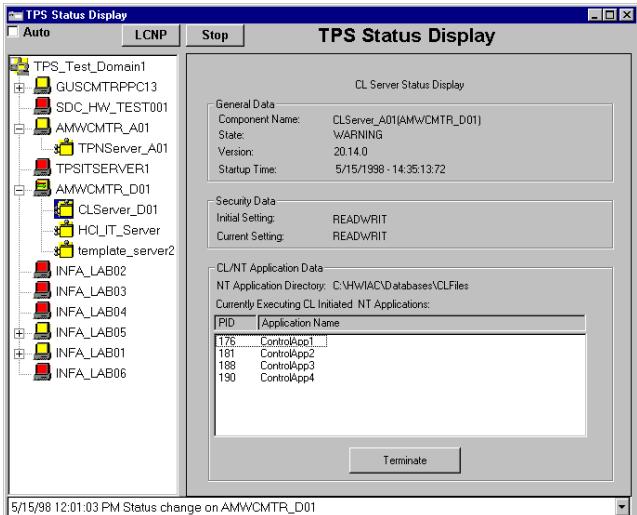
✓	Step	Action
	87	At the GUS, use the Native Window to verify the APP personality is loaded and running on the APP node LCNP board. If it is not, load it.
	88	<p>While logged in as TPSAdministrator at the APP node, invoke the TPS Status Display from the Task Bar:  <b>Start &gt; Programs &gt; Honeywell TPS &gt; TPS Status Display</b></p> 
	89	<p>Select your APP node (the node on which the CL Server is configured in the TPS domain).</p> <p><b>Note:</b> Each icon from left to right in the scope frame represents the <b>domain</b>, <b>node</b>, and <b>component</b>, respectively. Double-click each icon from left to right to expand to the component level in the TPS domain.</p> 

✓	Step	Action
	90	<p>Verify the <b>State</b> of the CL Server is <b>Stopped</b>.</p> <p>Visual State of Component (icon color)</p> <p>Green: Running or Idle state</p> <p>Yellow: Warning state</p> <ul style="list-style-type: none"> <li>• Waiting for TPS Node Personality to load</li> <li>• Lost connection to TPS Node Personality</li> <li>• Server is Stopped</li> </ul> <p>Red: Not in Running or Warning state</p> <p>State Column Description (Status Frame)</p> <p>Idle: Server is operational, and no CL Initiated Applications are running</p> <p>Running: Server is operational, and CL Initiated Applications are running</p> <p>Stopped: Server is configured but not running.</p> <p>Warning: TPS Node personality is not loaded in LCNP or connection to TPN has been lost.</p>
	91	<p>If the <b>CL Server</b> is in the <b>Stopped</b> state, start it.</p> <p><b>METHOD 1 STARTUP:</b></p> <p><b>Select</b> the CL Server component, then select the <b>Start</b> button. A pop-up message appears requesting a confirmation to continue.</p> <p>Select the <b>Yes</b> button to startup.</p> <p><b>METHOD 2 STARTUP:</b></p> <p><b>Right-click</b> on the CL Server and select <b>Start</b> from the pop-up menu. A message appears requesting a confirmation to continue.</p> <p>Select the <b>Yes</b> button to startup.</p> 

✓	Step	Action
	92	<p>Observe the <b>State</b> column in the status frame for the CL Server changed from <b>Stopped</b> to <b>Idle</b> and the TPS Status Display <b>Start</b> button changed to <b>Stop</b>.</p>  <p><b>Note:</b> If the server does not stay in the idle state (goes to WARNING), try:</p> <ol style="list-style-type: none"> <li>1. Stop all servers running on the APP node.</li> <li>2. From the GUS Native Window, shut down the LCN side of the APP node.</li> <li>3. From the APP node LCNP status display, reset the APP node LCNP.</li> <li>4. From the GUS, load the LCN side of the APP node using the AUTO LOAD NET target.</li> <li>5. Restart the All Servers – including the CL Server.</li> </ol>



### Invoke the CL Server Auxiliary Status Display

✓	Step	Action
	93	In the scope frame, select the CL Server.
	94	<p>In the status frame, <b>right-click</b> on the CL Server.</p> 
	95	<p>A pop-up menu appears with several entries. Select the <b>Auxiliary Display</b> entry.</p> <p><b>Note:</b> The <b>Auxiliary Display</b> <u>cannot</u> be invoked in the <b>Stopped</b> or <b>Fail</b> states.</p>
	96	<p>The <b>CL Server Status Display</b> appears. This is also referred to as the <b>Auxiliary Display</b>.</p> 

### Load a Custom Point to the AM

✓	Step	Action
	<b>97</b>	Log on to the GUS node as TPSAdministrator.
	<b>98</b>	Using the Native Window, display the detail display of IA####. If it does not exist, go to the next step. If it does exist, inactivate the point.  (Note: ### is the <b>point partition</b> on your partition sheet)
	<b>99</b>	From the Engineers Main Menu, display the Builder Commands menu.
	<b>100</b>	Using the LOAD MULTIPLE command with OVERWRITE, load the point IA#### from the IDF: NET>T###>IA####.DB

### Create a Points List text file

⇒ *Note: This procedure will create a “.txt” file that contains a list of point.parameters which will be incremented by one each time the CL invoked application runs.*

✓	Step	Action
	<b>101</b>	Log on to the APP node as TPSAdministrator.
	<b>102</b>	Open Notepad and enter the following point.parameter as text:  FIC4####.SP  Note1: ### is the <b>point partition</b> on your partition sheet Note2: It is possible to enter multiple (up to 200) point.parameters in this text file – each point on a separate line.
	<b>103</b>	Save the text file as C:\users\ptlist.txt

### Copy the NT Application From the Instructor Machine

✓	Step	Action
	<b>104</b>	Using Windows NT Explorer, expand Network Neighborhood until you see the <b>instructor domain</b> listed on your partition sheet.
	<b>105</b>	Expand the instructor domain until you see the <b>Application Share</b> listed on your partition sheet.  If necessary, ask the course manager for an account and password to be able to access the share.
	<b>106</b>	Copy <b>clsrvr_hci.exe</b> from the application share on the instructor machine to the <b>C:\Program Files\Honeywell\CLApps</b> directory on your <b>APP node</b> .  Note: if the directory does not exist, create it, then copy the application.

### Create a Link to the CLSRVR\_HCI.EXE application

✓	Step	Action
	107	Using Windows NT Explorer, open the <b>C:\HWIAC\Databases\CLFiles</b> directory.
	108	Right Click on the right hand side (the “Contents of” side) of the Explorer, and select <b>New → Shortcut</b> .
	109	Click on the <b>Browse</b> button and select the application to be invoked by your CL program:  C:\Program Files\Honeywell\CLApps\clsrvr_hci.exe.
	110	Click on the <b>Next</b> button and name the shortcut <b>clsrvr_hci</b> (no “.exe”).
	111	Click on the <b>Finish</b> button.

### Edit the CL Program Which Will Initiate the NT Application

✓	Step	Action
	112	Log on to the GUS node as TPSAdministrator.
	113	Select <b>Command Processor</b> from the Engineers Main Menu.
	114	Edit the CL program by entering the following command (where ### is your Point Partition from your partition sheet):  <b>ED NET&gt;T###&gt;INITAPP.CL</b>
	115	Edit the “Set AppName” line as follows:  set AppName=”clsrvr_hci <b>YourTPNServerName</b> C:\users\ptlist.txt”  Note that the clsrvr_hci application has two required arguments: 1. The name of the TPN Server to which it will write 2. The name of the file containing the point.parameters which it will increment by one.  Note2: A print of the CL file is at the back of this lab.
	116	Save the file and exit the editor by pressing CTL+1 followed by CTL+2.

### Compile the CL Program

✓	Step	Action
	117	Compile the CL program by entering the following command (where ### is your Point Partition from your partition sheet):  <b>CL NET&gt;T###&gt;INITAPP.CL</b>
	118	Correct any compilation errors (as if you’d have any!).

**Link the CL Program to the Point You Built**

✓	Step	Action
	<b>119</b>	<p>Link the CL program to the point you built earlier (IA###) by entering the following command (where ### is your Point Partition from your partition sheet):</p> <p><b>LK NET&gt;T###&gt;INITAPP IA###</b></p> <p>If you have any link errors, correct them or see your course manager for help.</p>

**Prepare the Points**

✓	Step	Action
	<b>120</b>	Display the Detail Display of <b>FIC4###</b> and put it in <b>AUTO</b> .
	<b>121</b>	Display the Detail Display of <b>IA###</b> and change its <b>PTEXCST</b> to <b>ACTIVE</b> .

**Invoke the clsrvr\_hci Application**

✓	Step	Action
	<b>122</b>	Display the <b>TPS Status Display</b> .
	<b>123</b>	Display the <b>Auxilliary Status Display</b> for the <b>CL Server</b> so you can see the application listed as it runs.
	<b>124</b>	<p>In the Native Window, display the <b>Detail</b> display of <b>FIC4###</b> and note its setpoint:</p> <p>_____</p>
	<b>125</b>	Display the detail display of <b>IA###</b> and click on the <b>PROCESS</b> target and press <b>ENTER</b> to cause the CL program to run.
	<b>126</b>	<p>Verify that the clsrvr_hci application executes by looking at the list of applications on the Auxilliary Status Display for the CL Server.</p> <p>Note: This will only appear for about 5 seconds, then disappear because the application terminates.</p>
	<b>127</b>	<p>In the Native Window, display the <b>Detail</b> display of <b>FIC4###</b> (Prior Display – F2) and note its setpoint:</p> <p>_____</p> <p>Notice that the SP did not change.</p>

**View the clsrvr\_hci Application Log**

✓	Step	Action
	<b>128</b>	Log on to the APP node as TPSAdministrator.
	<b>129</b>	Start the <b>Notepad</b> application.
	<b>130</b>	Open the following file which contains the messages logged by the clsrvr_hci application:  <b>C:\Temp\clsrvr_hci.txt</b>
	<b>131</b>	Look at the log and verify that you got an “Errors on Write” error.  Note that the clsrvr_hci application does not change the access level of the TPN Server. Since the default access level is VIEW_ONLY, the clsrvr_hci application is getting errors when it tries to write to the point.parameter.

**Modify TPN Server Security to Allow Everyone to Write**


✓	Step	Action
	<b>132</b>	Run the TPS Config Utility by selecting:  <b>Start → Programs → Honeywell TPS → Configuration Utility</b>
	<b>133</b>	Select <b>Configure → TPS Domain</b> .
	<b>134</b>	Select the <b>HCI Components</b> tab, then select your <b>TPN Server</b> .
	<b>135</b>	Select the <b>Enter/Edit Server Specific Configuration</b> button, then Click on <b>Yes</b> .
	<b>136</b>	Select the <b>Default Access and Priority Levels</b> tab.
	<b>137</b>	Change the default access level to <b>Operator</b> .
	<b>138</b>	Click <b>OK</b> on the Server Specific Configuration, then click <b>OK</b> on the Component Configuration.
	<b>139</b>	Select the <b>Replication</b> tab, then select the <b>Commit Configuration / Replicate</b> button.
	<b>140</b>	After replication is complete, display the TPS Status display.
	<b>141</b>	Stop and then Start the TPN Server. This will cause the TPN Server to use the latest TPS Domain configuration.

### Invoke the *clsrvr\_hci* Application

✓	Step	Action
	<b>142</b>	Log on to the GUS node as TPSAdministrator.
	<b>143</b>	Display the <b>TPS Status Display</b> .
	<b>144</b>	Display the <b>Auxilliary Status Display</b> for the <b>CL Server</b> so you can see the application listed as it runs.
	<b>145</b>	In the Native Window, display the <b>Detail</b> display of <b>FIC4###</b> and note its setpoint:  _____
	<b>146</b>	Display the detail display of <b>IA###</b> and click on the <b>PROCESS</b> target and press <b>ENTER</b> to cause the CL program to run.
	<b>147</b>	Verify that the <i>clsrvr_hci</i> application executes by looking at the list of applications on the Auxilliary Status Display for the CL Server.
	<b>148</b>	In the Native Window, display the <b>Detail</b> display of <b>FIC4###</b> (Prior Display – F2) and note its setpoint:  _____  The SP should have incremented by one. If it did not, check the <i>clsrvr_hci</i> log for errors. Also, check your TPN Server configuration. If you need help, see your Course Manager.


### Update the Emergency Repair Disk (ERD) for the App

✓	Step	Action
	<b>149</b>	At the App node, <b>logon</b> as the domain Administrator.
	<b>150</b>	Select <b>Start → Run</b> .
	<b>151</b>	Enter <b>rdisk /s</b> and press <b>Enter</b> .  A Saving Configuration progress bar will appear, then a creation verification message will appear.
	<b>152</b>	Click the <b>Yes</b> button to verify.  A floppy insertion message will appear.
	<b>153</b>	Insert the existing ERD into the A drive.

✓	Step	Action
	<b>154</b>	<p>Click the <b>OK</b> button.</p> <p>A Formatting Disk progress bar will appear as the ERD format is taking place.</p> <p>A Copying Configuration Files progress bar will appear as the configuration files are being copied to the ERD.</p> <p>A security precaution message will appear.</p>
	<b>155</b>	Click the <b>OK</b> button.
	<b>156</b>	<p>Remove the diskette from the drive and label it follows: <b>NT ERD – XXXXX</b></p> <p>Where XXXXX is the name of your computer.</p> <p> <b>ATTENTION:</b> The diskette may only be used to recover NT on the node which was used to create the ERD diskette.</p>
	<b>157</b>	Store the <b>NT ERD</b> in a secure location where it can be retrieved if necessary.

### Update the Emergency Repair Disk (ERD) for the GUS

✓	Step	Action
	<b>158</b>	At the GUS node, <b>logon</b> as the domain Administrator.
	<b>159</b>	Select <b>Start → Run</b> .
	<b>160</b>	<p>Enter <b>rdisk /s</b> and press <b>Enter</b>.</p> <p>A Saving Configuration progress bar will appear, then a creation verification message will appear.</p>
	<b>161</b>	<p>Click the <b>Yes</b> button to verify.</p> <p>A floppy insertion message will appear.</p>
	<b>162</b>	Insert the existing ERD into the A drive.
	<b>163</b>	<p>Click the <b>OK</b> button.</p> <p>A Formatting Disk progress bar will appear as the ERD format is taking place.</p> <p>A Copying Configuration Files progress bar will appear as the configuration files are being copied to the ERD.</p> <p>A security precaution message will appear.</p>
	<b>164</b>	Click the <b>OK</b> button.

✓	Step	Action
	<b>165</b>	<p>Remove the diskette from the drive and label it follows:  <b>NT ERD – XXXXX</b></p> <p>Where XXXXX is the name of your computer.</p> <p> <b>ATTENTION:</b> The diskette may only be used to recover NT on the node which was used to create the ERD diskette.</p>
	<b>166</b>	<p>Store the <b>NT ERD</b> in a secure location where it can be retrieved if necessary.</p>



***CL Source Code to initiate the clsrvr\_hci application.***

```
BLOCK INITAPP (GENERIC; AT BACKGRND)

%INCLUDE_SET AMCL06

LOCAL RETSTAT: NUMBER

LOCAL DETSTAT: NUMBER

LOCAL APPNAME: STRING

LOCAL APPTIMEOUT: TIME

LOCAL CLTIMEOUT: TIME


SET APPNAME="CLSRVR_HCI YOURTPNSERVERNAME C:\USERS\PTLIST.TXT"

CALL AMCL06$EXECUTE_TASK_WITH_WAIT

& (RETSTAT, DETSTAT, APPNAME, APPTIMEOUT, CLTIMEOUT)

EXIT

END INITAPP
```

## **References**

CL Server User's Guide

## **Notes**