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About This Document

This document explains what the BEA Tuxedo® Workstation component is, how to use the Workstation component in UNIX and Windows environments, and how to bring up the bankapp sample application on a workstation.

This document includes the following topics:

- Chapter 1, “Overview of Workstation,” provides a brief overview of the workstation component.
- Chapter 2, “Using the Workstation Component,” provides information on writing workstation client programs, using BEA Tuxedo System-supplied clients, and running BEA Tuxedo system clients on a workstation.
- Chapter 4, “Bringing Up bankapp on Workstations,” describes the steps to follow in bringing up bankapp, the BEA Tuxedo system sample application, on a UNIX or Windows workstation.

What You Need to Know

This document is intended mainly for application developers who are interested in using the Workstation component in their applications. It provides an overview of the Workstation component, how to write and build client programs using the Workstation component, and how to bring up the bankapp application on a workstation.
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A PDF version of this document is available on the BEA Tuxedo documentation Home page on the e-docs Web site (and also on the documentation CD). You can open the PDF in Adobe Acrobat Reader and print the entire document (or a portion of it) in book format. To access the PDFs, open the BEA Tuxedo documentation Home page, click the PDF files button and select the document you want to print.

If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at http://www.adobe.com/.

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In your e-mail message, please indicate that you are using the documentation for the BEA Tuxedo 8.0 release.
If you have any questions about this version of BEA Tuxedo, or if you have problems installing and running BEA Tuxedo, contact BEA Customer Support through BEA WebSupport at www.bea.com. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

**Documentation Conventions**

The following documentation conventions are used throughout this document.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Indicates terms defined in the glossary.</td>
</tr>
<tr>
<td>Ctrl+Tab</td>
<td>Indicates that you must press two or more keys simultaneously.</td>
</tr>
<tr>
<td><em>italics</em></td>
<td>Indicates emphasis or book titles.</td>
</tr>
<tr>
<td>Convention</td>
<td>Item</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| monospace text   | Indicates code samples, commands and their options, data structures and their members, data types, directories, and filenames and their extensions. Monospace text also indicates text that you must enter from the keyboard.  
**Examples:**  
#include <iostream.h> void main() the pointer psz  
chmod u+w *  
\tux\data\ap  
doc  
tux.doc  
BITMAP  
float  |
| monospace boldface text | Identifies significant words in code.  
**Example:**  
void commit()  |
| monospace italic text | Identifies variables in code.  
**Example:**  
String expr  |
| UPPERCASE TEXT    | Indicates device names, environment variables, and logical operators.  
**Examples:**  
LPT1  
SIGNON  
OR  |
| ( )              | Indicates a set of choices in a syntax line. The braces themselves should never be typed.  |
| [ ]              | Indicates optional items in a syntax line. The brackets themselves should never be typed.  
**Example:**  
buidobjclient [-v] [-o name ] [-f file-list]...  
[-l file-list]...  |
<p>| | Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.  |</p>
<table>
<thead>
<tr>
<th>Convention</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td>Indicates one of the following in a command line:</td>
</tr>
<tr>
<td></td>
<td>- That an argument can be repeated several times in a command line</td>
</tr>
<tr>
<td></td>
<td>- That the statement omits additional optional arguments</td>
</tr>
<tr>
<td></td>
<td>- That you can enter additional parameters, values, or other</td>
</tr>
<tr>
<td></td>
<td>information</td>
</tr>
<tr>
<td></td>
<td>The ellipsis itself should never be typed.</td>
</tr>
<tr>
<td>Example:</td>
<td>buildobjclient [-v] [-o name] [-f file-list]...</td>
</tr>
<tr>
<td></td>
<td>[-l file-list]...</td>
</tr>
<tr>
<td>.</td>
<td>Indicates the omission of items from a code example or from a syntax</td>
</tr>
<tr>
<td></td>
<td>line.</td>
</tr>
<tr>
<td>.</td>
<td>The vertical ellipsis itself should never be typed.</td>
</tr>
</tbody>
</table>
Using the ATMI Workstation Component
CHAPTER 1

Overview of Workstation

This topic includes the following sections:

- What Is the BEA Tuxedo Workstation Component?
- Workstation Administration

What Is the BEA Tuxedo Workstation Component?

The Workstation component of the BEA Tuxedo system allows application clients to reside on a machine that does not have a full server-side installation, that is, a machine that does not support any administration or application servers. All communication between the client and the application servers takes place over the network.

A Workstation client process can run on a Windows or UNIX platform. The client has access to the ATMI. The networking behind requests is transparent to the user. A Workstation client does not have access to all the capabilities available to a native client. Both types of clients, however, can do the following:

- Send and receive messages
- Begin, end, or commit transactions
- Send and receive unsolicited messages
Overview of Workstation

- Meet application security requirements
- Communicate information about remote clients through the `tmadmin(1)` command

**Note:** A Workstation client communicates with application servers through a Workstation Handler (WSH) process.

Limitations of Workstation Clients

Workstation clients do not have access to all the functionality available to native clients. For example, unlike a native client, a Workstation client cannot join an application as `tpsysadm`, which means that the client cannot subsequently subscribe to an event that issues a service call.

See Also

- “Workstation Connectivity: Using BEA Tuxedo Workstation” on page 4-26 in *Introducing BEA Tuxedo ATMI*
- “What Are the Workstation Handler and Workstation Listener?” on page 3-60 in *Introducing BEA Tuxedo ATMI*
- “About Workstation Clients” on page 10-1 in *Setting Up a BEA Tuxedo Application*

Workstation Administration

To integrate a Workstation client into a BEA Tuxedo application, you must define any required and desired parameters for that client in the application configuration file. See “Setting Up Workstation Clients” on page 11-1 in *Setting Up a BEA Tuxedo Application* for details.
See Also

- `buildwsh(1)` in *BEA Tuxedo Command Reference*
- `WSL(5)` in *File Formats, Data Descriptions, MIBs, and System Processes Reference*
1 Overview of Workstation
This topic includes the following sections:

- Writing Client Programs
- Using BEA Tuxedo System-supplied Clients
- Running BEA Tuxedo System Clients on a Workstation
- How a Multithreaded or Multicontexted Workstation Client Joins an Application

Writing Client Programs

You can develop client programs targeted for workstations in the same way that you would develop client programs within the BEA Tuxedo system administrative domain (that is, native clients). All of the ATMI and FML functions are available to the Workstation client.

Interoperability Restrictions for Workstation Clients

Interoperability between BEA Tuxedo Release 7.1 or later Workstation clients and applications based on pre-7.1 releases of the BEA Tuxedo system is supported in any of the following situations:
2 Using the Workstation Component

- The client is neither multithreaded nor multicontexted.
- The client is multicontexted.
- The client is multithreaded and each thread is in a different context.

A BEA Tuxedo Release 7.1 or later Workstation client with multiple threads in a single context cannot interoperate with a pre-7.1 release of the BEA Tuxedo system.

Building Client Programs

You compile and link-edit Workstation client programs using the `buildclient(1)` command. If you are building a Workstation client on a native node (that is, one on which the complete BEA Tuxedo system is installed), use the `-w` option to indicate the client should be built using the workstation libraries. Otherwise, on a native node, where both native and workstation libraries are present, the default is to use the native libraries. In this case, using the `-w` option ensures that the correct libraries for a Workstation client are used. On a workstation, where only the workstation libraries are present, it is not necessary to use the `-w` option.

The following listing shows an example of the `buildclient(1)` command line on a native node.

**Listing 2-1  buildclient Command Line**

```
TUXDIR=/var/opt/tuxedo CC=ncc; export TUXDIR CC
buildclient -w -o wsclt -f wsclt.c -f "userlib1.a userlib2.a"
```

The `-o` option provides a name for your output file. Input files are specified with the `-f firstfiles` option to indicate that they are link-edited before system libraries. As indicated in the example, you must define the `TUXDIR` environment variable to ensure that the `buildclient` command can locate system libraries. `CC` defaults to `cc` but can be set to another compiler, as shown in the example.
Using BEA Tuxedo System-supplied Clients

See Also

- “Writing Clients” on page 4-1 in *Programming BEA Tuxedo ATMI Applications Using C* and *Programming BEA Tuxedo ATMI Applications Using COBOL*
- “COBOL Language Bindings for the Workstation Component” on page 11-1 in *Programming BEA Tuxedo ATMI Applications Using COBOL*
- “Writing Security Code So Client Programs Can Join the ATMI Application” on page 3-4 in *Using Security in CORBA Applications*
- `buildclient(1)` in *BEA Tuxedo Command Reference*

Using BEA Tuxedo System-supplied Clients

`wud` and `wud32` are BEA Tuxedo system-supplied driver programs provided for workstations. These driver programs are based on the standard BEA Tuxedo client programs, `ud` and `ud32`, that have been built using the Workstation libraries.

Use `wud(1)` to send FML buffers to BEA Tuxedo system servers. Use `wud32` with fielded FML32 buffers of type `FBFR32`.

Using `wud` in a Security Application

If `wud` is run in a security application, it requires an application password to access the application. If standard input is from a terminal, `wud` prompts the user for an application password. If you are running the client program from a script, which is a common occurrence with `wud`, the password is retrieved from the environment variable `APP_PW`. If this environment variable is not specified and an application password is required, then `wud` fails.

Do not confuse the `APP_PW` environment variable with the similar configuration file parameter, `SECURITY`, for which the value `APP_PW` enables the security feature.
Running BEA Tuxedo System Clients on a Workstation

After the client programs have been developed and tested, they can be moved to the workstations where they will be available to users.

Verifying the Directory Structure on Workstation Clients

The following table describes the directory structure on a Workstation client after you have installed the Workstation component of the BEA Tuxedo system.

<table>
<thead>
<tr>
<th>UNIX Directory</th>
<th>Windows Directory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$APPDIR</td>
<td>%APPDIR%</td>
<td>Contains the client executables. These executables are commonly kept in the directory from which the application is run.</td>
</tr>
<tr>
<td>$TUXDIR/bin</td>
<td>$TUXDIR\bin</td>
<td>Contains BEA Tuxedo system commands and system clients such as wud.</td>
</tr>
<tr>
<td>$TUXDIR/cobinclude</td>
<td>$TUXDIR\cobinclude</td>
<td>Contains copylib entries for use in COBOL programs.</td>
</tr>
<tr>
<td>$TUXDIR/include</td>
<td>$TUXDIR\include</td>
<td>Contains BEA Tuxedo system header files such as atmi.h.</td>
</tr>
<tr>
<td>$TUXDIR/lib</td>
<td>$TUXDIR\lib</td>
<td>Contains run-time libraries.</td>
</tr>
<tr>
<td>$TUXDIR/locale/C</td>
<td>$TUXDIR\locale\C</td>
<td>Contains message catalogs for the default locale (U.S. English).</td>
</tr>
</tbody>
</table>
Setting Environment Variables

Workstation clients make use of several environment variables. The following table shows the environment variables that are checked by `tpinit(3c)` or `TPINITIALIZE(3cbl)` when the Workstation client attempts to join the application. See “Defining Workstation Clients” on page 11-1 in *Setting Up a BEA Tuxedo Application* for details on setting these environment variables.

<table>
<thead>
<tr>
<th>Environment Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSALLOWPRE71</td>
<td>Determines whether the workstation machine running BEA Tuxedo 7.1 or later software is allowed to interoperate with pre-Release 7.1 BEA Tuxedo applications. Setting the variable to <strong>Y</strong> (<code>WSALLOWPRE71=Y</code>) allows interoperability.</td>
</tr>
<tr>
<td>WSBUFFERS</td>
<td>The number of packets per application.</td>
</tr>
<tr>
<td>WSDEVICE</td>
<td>Device name to be used to access the network. This variable is only required when the BEA Tuxedo system is using the TLI networking interface.</td>
</tr>
<tr>
<td>WSENVFILE</td>
<td>Name of a file containing environment variable settings to be set in the client’s environment.</td>
</tr>
<tr>
<td>WSFADDR</td>
<td>The network address used by the Workstation client when connecting to the workstation listener or workstation handler. This variable, along with the <code>WSFRANGE</code> variable, determines the range of TCP/IP ports to which a Workstation client will attempt to bind before making an outbound connection. This address must be a TCP/IP address.</td>
</tr>
<tr>
<td>WSFRANGE</td>
<td>The range of TCP/IP ports to which a Workstation client process attempts to bind before making an outbound connection. The <code>WSFADDR</code> parameter specifies the base address of the range. The default is 1.</td>
</tr>
</tbody>
</table>
Other environment variables may be needed by Workstation clients on a UNIX workstation depending on the BEA Tuxedo system features being used. The compilation(5) reference page in the File Formats, Data Descriptions, MIBs, and System Processes Reference explains which variables are needed under what circumstances.
Creating an Environment File

If you have created an environment file, it is read when `tpinit(3c)` or `TPINITIALIZE(3cb)` is called. The following listing shows a sample file that could be used for two different applications.

### Listing 2-2   Environment File

```
TUXDIR=/opt/tuxedo
[application1]
;this is a comment
/* this is a comment */
#this is a comment
//this is a comment
set FIELDTBLS=app1_flds
set FLDTBLDIR=/opt/app1/udataobj
[application2]
FIELDTBLS=app2_flds
FLDTBLDIR=/opt/app2/udataobj
```

The format of the file is as follows:

- Any leading space and tab characters on each line are ignored and are not considered in the following points.

- Lines containing variables to be put into the environment are of the following form:
  ```
  variable=value
  or
  set variable=value
  ```
  where `variable` must begin with an alphabetic or underscore character and contain only alphanumeric or underscore characters, and `value` may contain any character except newline.

- Within the `value`, strings of the form `${env}` are expanded using variables already in the environment. Forward referencing is not supported and if a value is not set, the variable is replaced with the empty string. Backslash (`\`) may be used to escape the dollar sign and itself. All other shell quoting and escape mechanisms are ignored and the expanded `value` is placed into the environment.
Lines beginning with slash (/), pound sign (#), or exclamation point (!) are treated as comments and ignored. Lines beginning with other characters besides these comment characters, a left square bracket, or an alphabetic or underscore character are reserved for future use; their use is undefined.

The file is partitioned into sections by lines of the form

```
[label]
```

where `label` is the name of the section and follows the same rules for `variable` above. The label is silently truncated if longer than 31 characters.

Variable lines between the top of the file and the first label are put into the environment for all applications; this is the global section. A label of `[]` also indicates the global section. Other variables are put into the environment only if the label matches the application label specified for the application.

### Using tuxreadenv

When you call the `tuxreadenv(3c)` function, it reads the environment file and adds the environment variables to the environment for the entire process, independent of platform. These variables are available using `tuxgetenv(3c)` and can be reset using `tuxputenv(3c)`.

```c
void tuxreadenv(char *file, char *label)
```

If `file` is NULL, then a default filename is used. The default filenames for various platforms are as follows:

- **Windows:** `%TUXDIR%\TUXEDO.ENV`
- **UNIX:** `$TUXDIR/TUXEDO.env`

If the value of `label` is NULL, then only variables in the global section are put into the environment. For other values of `label`, the global section variables plus any variables in a section matching the `label` are put into the environment.

An error message is printed to the userlog under the following conditions:

- A memory failure
- A non-null filename does not exist
- A non-null label does not exist
Each time \texttt{tpinit(3c)} is called (either explicitly or implicitly by calling another ATMI function), \texttt{tuxreadenv(3c)} is called automatically in Workstation clients. If \texttt{WSENVFILE} is set in the environment, then it designates the environment file; otherwise, NULL is passed to \texttt{tuxreadenv()} for the filename so that the default file is used. If \texttt{WSAPP} is set in the environment, then it is to be used as the section label in the environment file; otherwise, NULL is passed to \texttt{tuxreadenv()} for the label name. Application clients may also call \texttt{tuxreadenv()} explicitly.

The environment is implemented and available in different ways on different platforms. A uniform interface to the environment is provided via the existing \texttt{tuxgetenv(3c)} and \texttt{tuxputenv(3c)} functions. These functions provide access to the following:

- All variables from the specified \texttt{WSENVFILE} file for the specified \texttt{WSAPP} label (or the defaults if not specified)
- The environment variables in the operating system environment

\section*{See Also}

- \texttt{tpinit(3c)} in the \textit{BEA Tuxedo ATMI C Function Reference}
- \texttt{tuxreadenv(3c)} in the \textit{BEA Tuxedo ATMI C Function Reference}

\section*{How a Multithreaded or Multicontexted Workstation Client Joins an Application}

To join a BEA Tuxedo application, a multithreaded workstation client must always call \texttt{tpinit()} with the \texttt{TPMULTICONTEXTS} flag set, even if the client is running in single-context mode.
See Also

- `tpinit(3c)` in the *BEA Tuxedo ATMI C Function Reference*
Benefits of Using Workstation on a Windows Platform

The Windows instantiation of Workstation offers significant benefits to application developers:

- Executable text is shared among applications, saving memory.
- BEA Tuxedo Workstation upgrades are possible without relinking or modifying an application program’s executable file.
- Dynamic linking permits interpretive graphical application generator tools (such as Visual Basic, ObjectVision and SQLWindows) to call BEA Tuxedo system services.
Software Prerequisites

The software prerequisites for running the Workstation component for Windows are as follows:

- Workstation for Windows runs under the Windows 95, Windows 98 and Windows 2000 operating systems.
- In Windows, the native TCP/IP stack is used.
- In Windows, while using TCP/IP, any Windows Sockets Compliant TCP/IP stack can be used.
- The server machine must have the BEA Tuxedo system and the native-side BEA Tuxedo Workstation installed.

Writing Client Programs

You can develop client programs targeted for Windows workstations in the same way that you would develop native client programs within the BEA Tuxedo system administrative domain. All of the ATMI functions are available.

Interoperability Restrictions for Workstation Clients

Interoperability between BEA Tuxedo Release 7.1 and later Workstation clients and applications based on pre-7.1 releases of the BEA Tuxedo system is supported in any of the following situations:

- The client is neither multithreaded nor multicontexted.
The client is multicontexted.

The client is multithreaded and each thread is in a different context.

A BEA Tuxedo Release 7.1 or later Workstation client with multiple threads in a single context cannot interoperate with a pre-7.1 release of the BEA Tuxedo system.

Building Client Programs

To compile client programs written in C, you can use any compiler that can read Microsoft C import libraries. To compile COBOL source programs that call the ATMI, use the LITLINK option of the COBOL compiler. For details, see “COBOL Language Bindings for the Workstation Component” on page 11-1 in Programming BEA Tuxedo ATMI Applications Using COBOL.

Use buildclient(1) with the -w flag to link-edit your client programs.

You can also build BEA Tuxedo clients without using the buildclient(1) utility. If you are using Microsoft Visual C++ projects, use the following settings:

- Set the Preprocessor option to -DWIN32.
- Add WTUXWS32.LIB MSVCRT.LIB to the input libraries for the linker option.

In addition, set the INCLUDE, LIB, and PATH search directories appropriately.

Run Time

When you run client programs, your PATH must include %TUXDIR%/bin.

Limitations

The BEA Tuxedo libraries (DLLs) prior to BEA Tuxedo Release 7.1 are not thread-safe. For applications written using the pre-Release 7.1 DLLs, threads should not be used; otherwise, threaded access is serialized through all BEA Tuxedo calls (such as ATMI, FML, userlog(), and so on).
How a Multithreaded or Multicontexted Workstation Client Joins an Application

To join a BEA Tuxedo application, a multithreaded Workstation client must always call `tpinit(3c)` with the `TPMULTICONTEXTS` flag set, even if the client is running in single-context mode.

See Also

- `tpinit(3c)` in `BEA Tuxedo ATMI C Function Reference`
4 Bringing Up bankapp on Workstations

This topic includes the following sections:

- Characteristics of a Workstation Application
- Bringing Up bankapp on a Workstation Client
- Changes on the Native Site
- Setting the bankapp Variables
- Building the bankapp Client
- Running the bankapp Client

Characteristics of a Workstation Application

In a workstation application, client processes are moved off the native site. The listener process (WSL) runs with a well-known network address and starts surrogate workstation handlers (WSH) as needed. Servers run on one or more machines within the BEA Tuxedo administrative domain.

Existing servers are available to run on the BEA Tuxedo system nodes in either single processor (SHM) or multiprocessor (MP) mode.

On Workstations, the sample applications are located in the following directories:

- $TUXDIR/samples/atmi/bankapp (UNIX)
Bringing Up bankapp on a Workstation Client

The following illustration shows the steps in the process of bringing up bankapp on a Workstation client.

Figure 4-1  Steps in Bringing Up bankapp

```
DEA Tuxedo System Native Site                   Workstation

Build bankapp                                  Set environment variables
   Edit config file

Load the configuration

Boot bankapp                                  Build Client

Run Client
```
Changes on the Native Site

Install and build the bankapp software on the native site. The procedure for doing this is described in “Tutorial for bankapp, a Full C Application” on page 3-1 in Tutorials for Developing BEA Tuxedo ATMI Applications and in the following README files on the master machine where your BEA Tuxedo system software is installed:

- \$TUXDIR/samples/atmi/bankapp/README (on UNIX systems)
- %TUXDIR%/samples\atmi\bankapp\README.nt (on Windows systems)

Editing the Configuration File

You need to edit the configuration file you plan to use (either ubbashm or ubbmp) to specify the workstation listener (WSL) as a server in the GROUPS and SERVERS sections, and to specify MAXWSCLIENTS in the MACHINES section. When you edit the GROUPS section, put the entry for WSGRP ahead of the DEFAULT line or move the specifications for TMSNAME and TMSCOUNT to the server groups that use them; they should not be assigned to WSGRP. The new specifications should be in the following format.

```
*MACHINES
DEFAULT: MAXWSCLIENTS=50
#
*GROUPS
WSGRP  GRPNO=<next available group #> LMID=SITE1
#
*SERVERS
WSL  SRVGRP=WSGRP       SRVID=1
    CLOPT="-A -n //machine:port -m 1 -M 5 -x 10"
```

Also, remember to increase the MAXACCESSERS parameter in the RESOURCES or MACHINES section to cover the new Workstation clients.
Bringing Up bankapp on Workstations

Loading and Booting the Configuration

Before you can start using a Workstation client, you need to run `tmloadcf(1)` to load
the configuration file into its binary form and `tmboot(1)` to start the application.
These commands do not have to be run immediately; there is work to be done in getting
the bankapp clients installed on your workstations and getting them built. However,
the application must be running on the BEA Tuxedo system native site when you
attempt to join the application from a workstation. The steps for loading and booting
bankapp on the native site are part of the overall procedure documented in “Tutorial
for bankapp, a Full C Application” on page 3-1 in Tutorials for Developing BEA
Tuxedo ATMI Applications.

See Also

- `tmloadcf(1)` in the BEA Tuxedo Command Reference
- `WSL(5)` in the File Formats, Data Descriptions, MIBs, and System Processes
  Reference
- “Tutorial for bankapp, a Full C Application” on page 3-1 in Tutorials for
  Developing BEA Tuxedo ATMI Applications
- “Defining a Workstation Listener (WSL) as a Server” on page 11-4 in Setting Up
  a BEA Tuxedo Application

Setting the bankapp Variables

To set your environment to run bankapp, complete the following procedure on the
Workstation client.

1. Set the following environment variable:
   
   `WSNADDR=<WSL advertised address(es)>`
   
   `WSTYPE=<type of Workstation machine>`
Building the bankapp Client

2. Include $TUXDIR/bin (on UNIX systems) or %TUXDIR%/bin (on Windows systems) in your PATH.

3. Verify that your environment is set appropriately to run the C compiler.

Building the bankapp Client

To build a client program, enter the following commands:

```
mkfldhdr bankflds
buildclient -w -o bankclt -f bankclt.c
```

Running the bankapp Client

To run the bankapp client on the Workstation, complete the following procedure.

1. Verify that the value of WSNADDR on the Workstation client matches the value of the CLOPT -n option for the WSL in the SERVERS section of the configuration file on the native site.

2. If bankapp has not been booted on the native site, make sure it has been booted before you attempt to run a Workstation client.

3. Execute bankclt to run the Workstation client.
4 Bringing Up bankapp on Workstations

4-6 Using the ATMI Workstation Component