



Accessing CA-IDMS and BATCH from Windows

VG-Windows Client Overview

VEGASOFT



Contents

- ◆ Overview
- ◆ Windows functions
- ◆ Application server
- ◆ Tools
- ◆ Benefits



Overview



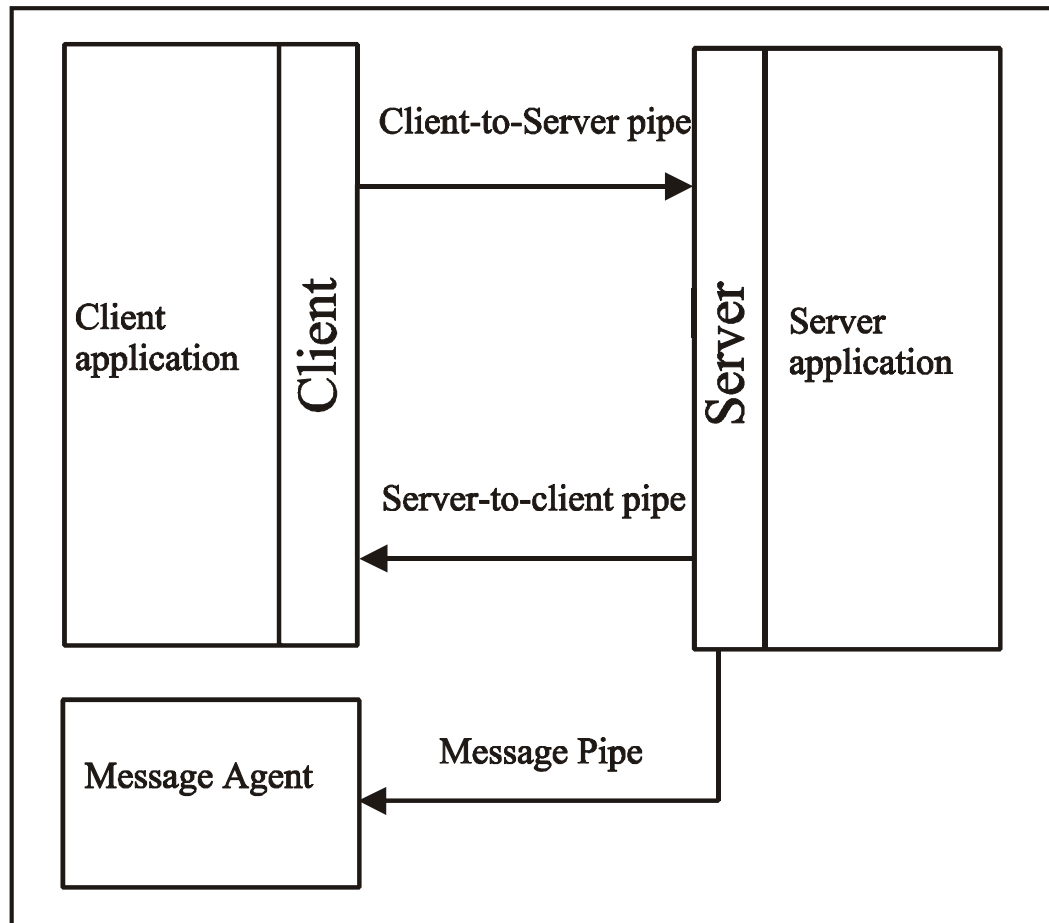
- ◆ Co-operative applications
 - Message based
- ◆ Pipes
 - Client-to-Server
 - Server-to-Client
 - Message



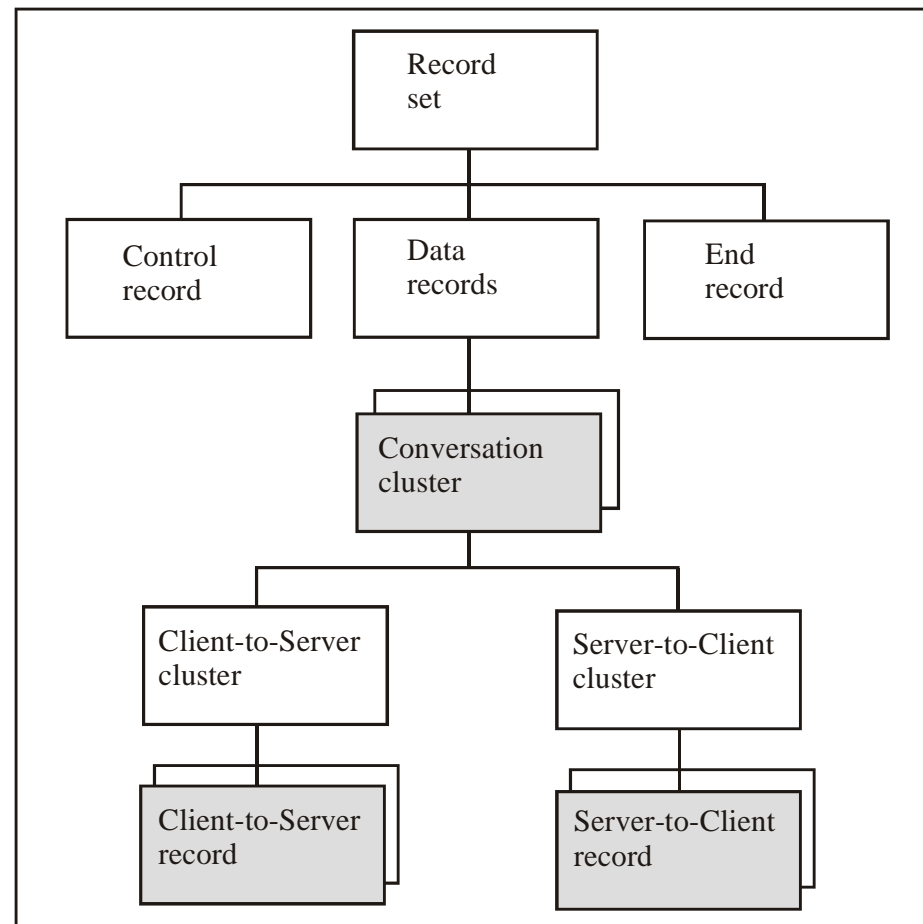
Overview

- ◆ Communication
 - TCP/IP sockets
 - APPC (LU6.2)
 - Batch jobs (APPC/MVS)
- ◆ ODBC driver
 - built-in driver to access CA-IDMS and DB2
 - see separate ODBC presentation

Client/Server Model



Client/Server Data Structure



Windows DLL functions

- ◆ InitServer
- ◆ SetupServer
 - DialogName, DbName etc.
 - Overrides VGCS.INI settings
- ◆ PutServer
 - Writes to Client-to-Server pipe
 - ctl, format, data, length



Windows DLL functions

- ◆ GetServer
 - Reads from Server-to-Client pipe
 - ctl,format,data,maxlength
- ◆ EndServer
- ◆ FreeServer



Application server

- ◆ Server application start steps
 - TCP/IP Listener
 - CA-IDMS signon
 - Application Server task
 - Dialog/program started

Application server

- ◆ Get Scratch
 - Reads from Client-to-Server pipe (populated by PutServer)
- ◆ Put Scratch
 - Writes to Server-to-Client pip (to be read with GetServer)
- ◆ One or more scratch records
- ◆ Terminal emulation

Windows Tools

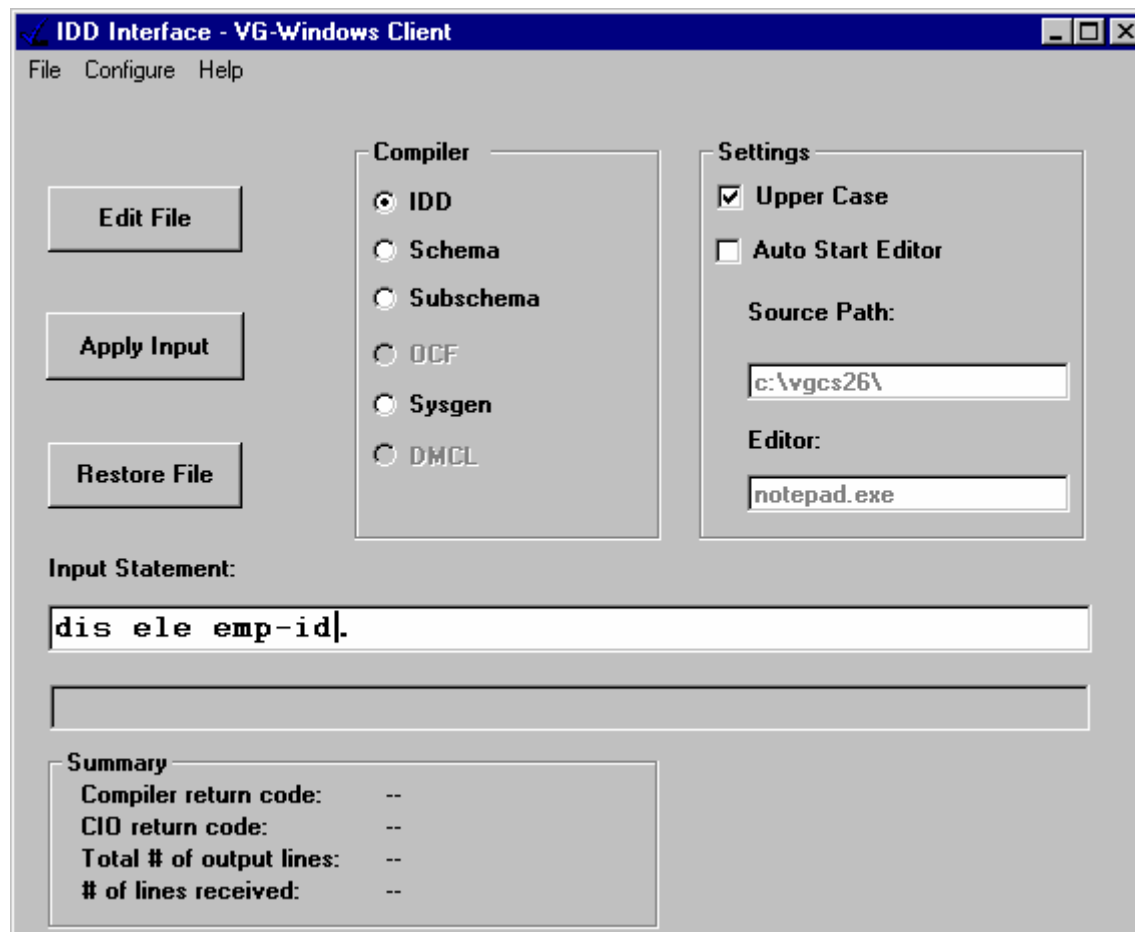
- ◆ CA-IDD Interface
 - Text based input/output
 - All compilers
- ◆ Record Definition Conversion
 - Input is CA-IDD record
 - Output
 - Visual Basic type definition
 - C structure definition



Windows Tools

- ◆ Test Tool
 - Execute DLL functions
- ◆ Setup Tool
 - set communication attributes
 - activate tracing/logging

IDD Interface



Record Definition Conversion

IDD Record Definition Conversion - VG-Windows Client

File Configure Help

Record name: emp-wrk Version: 1

Generate

View Output

View IDD Output

Language

Visual Basic

C / C++

Settings

Search

Output file: empwrk.txt

within path: c:\vgcs26\

Editor: notepad.exe

Summary

Compiler return code: --

CIO return code: --

Total # of output lines: --

of lines received: --

Test Tool

The screenshot shows a Windows-style application window titled "Client/Server Test Tool - VG-Windows Client". The window has a menu bar with "File" and "Help". Below the menu bar is a "Setup" section with two radio buttons: "Dialog" (selected) and "Program". To the right of these are several input fields: "Name" with a dropdown menu showing "EMPU", "Dbname" (empty), "Dictionary" with a dropdown menu showing "APPLDICT", "Version" with a text box containing "1", and "Verify" (empty). There is also a "Trace" checkbox which is unchecked.

Below the setup section is a vertical column of five buttons: "Put", "Get", "End", "Abend", and "Free". To the right of these buttons is a large text area with a scrollbar. Above the text area is a dropdown menu showing "00050". To the right of the text area is a "Hex" checkbox which is unchecked.

At the bottom of the window, there is a status bar with the text "PutServer data position 6 and length 5".

Setup Tool

Communications Setup - VG-Windows Client

File Help

Server IP address

Server port

Server transid

Message agent port

User

Password

Communication DLL

Log File

Conversion Table

Local Trace Server Message Box

IDMS Release

10.21 12.0 12.01 14.0 None

Set Dictname To

Dbname

Test Version

Apply Cancel ADSOBGEN IDD Options TPName

Benefits

- ◆ Communication isolated from applications
 - TCP/IP, APPC(LU6.2)
- ◆ Format conversions
 - EBCDIC<->ASCII
 - Binary, packed, floating point
- ◆ Reuse application code
- ◆ Includes ODBC driver



Benefits



- ◆ Debugging
 - CA-IDMS debugger can be used
 - Local and server trace
- ◆ Performance
 - Optimized data flow
 - TCP/IP performance