Component Manager

Contents

Introduction to Components 6-3
About the Component Manager 6-4
Using the Component Manager 6-6
  Opening Connections to Components 6-7
    Opening a Connection to a Default Component 6-7
    Finding a Specific Component 6-8
    Opening a Connection to a Specific Component 6-9
  Getting Information About a Component 6-10
  Using a Component 6-11
  Closing a Connection to a Component 6-12
Creating Components 6-13
  The Structure of a Component 6-13
  Handling Requests for Service 6-18
    Responding to the Open Request 6-19
    Responding to the Close Request 6-21
    Responding to the Can Do Request 6-22
    Responding to the Version Request 6-22
    Responding to the Register Request 6-23
    Responding to the Unregister Request 6-24
    Responding to the Target Request 6-25
    Responding to Component-Specific Requests 6-26
    Reporting an Error Code 6-28
  Defining a Component's Interfaces 6-28
  Managing Components 6-30
    Registering a Component 6-30
    Creating a Component Resource 6-32
    Establishing and Managing Connections 6-34
Component Manager Reference 6-37
  Data Structures for Applications 6-37
    The Component Description Record 6-37

Component Identifiers and Component Instances 6-40
Routines for Applications 6-41
Finding Components 6-42
Opening and Closing Components 6-44
Getting Information About Components 6-47
Retrieving Component Errors 6-51
Data Structures for Components 6-52
The Component Description Record 6-52
The Component Parameters Record 6-54
Routines for Components 6-56
Registering Components 6-57
Dispatching to Component Routines 6-63
Managing Component Connections 6-65
Setting Component Errors 6-69
Working With Component Reference Constants 6-70
Accessing a Component's Resource File 6-71
Calling Other Components 6-73
Capturing Components 6-75
Targeting a Component Instance 6-77
Changing the Default Search Order 6-78
Application-Defined Routine 6-79
Resources 6-80
The Component Resource 6-80
Summary of the Component Manager 6-86
Pascal Summary 6-86
Constants 6-86
Data Types 6-87
Routines for Applications 6-89
Routines for Components 6-90
Application-Defined Routine 6-92
C Summary 6-92
Constants 6-92
Data Structures 6-93
Routines for Applications 6-95
Routines for Components 6-96
Application-Defined Routine 6-97
Assembly-Language Summary 6-98
Trap Macros 6-98
Result Codes 6-99