



PureWeb[®] STK 3.1

iOS STK Installation Guide

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Released by

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Document Version: PW3.1_Mac_Install_Guide_08-2012_v3.100.00

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Preface

Welcome to the *PureWeb 3.1 iOS STK Installation Guide*. Although every effort has been made to make this document clear and easy to understand, it is still very technical in nature.

Wherever possible, cross-referencing among chapters and other documents within the PureWeb® Software Transformation Kit (STK) documentation suite has been used.

This document is valid for all 3.x release(s) of this product.

This preface contains the following sections:

- [Intended Audience, page 7](#)
- [Reading Recommendations, page 7](#)
- [Making Comments on This Document, page 8](#)
- [Contacting Calgary Scientific Support, page 8](#)
- [PureWeb® Server/Sample Application Tasks, page 9](#)
- [PureWeb® iOS STK Tasks, page 10](#)

For information about related resources and about the conventions that are used in this document, see the supplementary material starting on [page 23](#).

Intended Audience

This document is intended to be read by software developers/server administrators that plan to install and use the PureWeb® STK.

It is assumed that the developer/server administrator has:

- A general understanding of server configuration and installation.
- A general knowledge of application development for both Apple Macintosh and Microsoft Windows operating systems.

Reading Recommendations

This preface includes tasks-based tables that contains all of the tasks and procedures needed to successfully install the iOS STK.

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Contact Calgary Scientific Support during the hours of 9:00AM - 5:00PM, Monday - Friday (Mountain Standard Time).

Web Site	E-Mail
http://support.getpureweb.com	support@getpureweb.com

PureWeb® Server/Sample Application Tasks

Common PureWeb® Server and sample application tasks are listed in the table below.

Task Summary: Server/Sample Application

Task	Procedure
Install the PureWeb® Server.	To run the iOS STK client applications, you must have a PureWeb® Server installed and running. You can install the PureWeb® Server and sample application prerequisites in your Microsoft Windows environment by following the tasks/procedure outlined in the <i>PureWeb® Installation Guide for Microsoft Windows</i> .
Ensure proper licensing.	The PureWeb® Server will start, but will <i>not</i> be operational without a valid license. The license is an ASCII text file with a .lic extension and is not part of the PureWeb® Server installation. To make the PureWeb® Server operational, you must acquire the license from Calgary Scientific Inc. and follow the steps in the Installing the License procedure found in the <i>PureWeb® Installation Guide for Microsoft Windows</i> . Follow the steps in the Verify the License File is Installed procedure found in the <i>PureWeb® Installation Guide for Microsoft Windows</i> , to confirm the installation of your PureWeb® license.
Build a service application.	To run the iOS STK client applications, you must have a service application. For information about service applications, refer to the <i>PureWeb® Quick Start Guides</i> .

PureWeb® iOS STK Tasks

Common tasks for installing the PureWeb® iOS STK in your Apple Macintosh environment are listed in the table below.

Task Summary: Installing the PureWeb® iOS STK

Task	Procedure
Read the introduction for information about the PureWeb® solution, architecture and the sample applications provided.	Chapter 1, “Introducing PureWeb®,” on page 12 .
Check the prerequisite.	“Prerequisites” on page 14 . NOTE: Xcode must be installed before you attempt to install the PureWeb® iOS STK.
Install the PureWeb® iOS STK components.	“Installing the PureWeb® iOS STK” on page 15 .
Verify the installation of files, folders, and documentation.	“Verifying the Directory Structure is Complete” on page 19 . “Verifying the Documentation Installation” on page 20 .
Next Steps	If your installation was successful: <ul style="list-style-type: none"> Refer to the <i>Common Development Tasks</i> section of the <i>PureWeb® Quick Start Guide: Objective-C</i> to examine the samples and their code. If your installation was unsuccessful: <ul style="list-style-type: none"> Refer to the <i>Installation Troubleshooting</i> section of the <i>PureWeb® Troubleshooting Guide</i>.

PureWeb® Uninstall Tasks

Common tasks for uninstalling the PureWeb® iOS STK and the PureWeb® Server are listed in the table below.

Task Summary: Uninstalling the PureWeb® iOS STK and Server

Task	Procedure
Uninstall the PureWeb® iOS STK.	“Uninstalling the PureWeb® iOS STK” on page 21 .
Uninstall the PureWeb® Server.	To uninstall the PureWeb® Server from your Microsoft Windows environment follow the procedure found in the <i>PureWeb® Installation Guide for Microsoft Windows</i> .

1

Introducing PureWeb[®] STK

This chapter contains detailed information about the PureWeb[®] solution, its architecture, and prerequisites for installing and using PureWeb[®].

This chapter contains the following sections:

- [About PureWeb[®], page 11](#)
- [Basic Architecture, page 12](#)
- [Prerequisites, page 14](#)

About PureWeb[®]

PureWeb[®] is a platform that enables applications to be centrally hosted and delivered to the end user, from workstations to hand-held devices, through standard web technologies.

PureWeb[®] allows you to migrate your existing desktop applications to the web without requiring a costly rewrite of your existing applications.

The PureWeb[®] application framework is built specifically to leverage HTTP and XML for the highest level of flexibility, optimization, consistency and performance. Its architecture is designed to use web standard technologies to deliver your applications through all internet browsers capable of hosting Microsoft Silverlight, as well as in many smart phones and tablet offerings, using the PureWeb[®] API.

PureWeb[®] integrates directly into your existing C#, C++, or Java code and allows you to maintain one code-base from which you can deliver desktop-based applications as well as browser and mobile-based applications such as an Apple iPad, Apple iPhone or Google Android devices.

Applications that leverage PureWeb[®] provide access in a highly secure and compliant manner, so mobile users can connect to your applications and interface with them as if they were stored locally on their device without any of the application data ever persisting on the device itself.

This is achieved by:

- Reimplementing the existing software user interface (UI) through a web interface.
- Modifying the application to act as a service for the remote interface.

The PureWeb® Software Transformation Kit (STK) includes both sample applications and documentation to help you with your development.

For more information about the product, visit the PureWeb® website at www.getpureweb.com.

Basic Architecture

The PureWeb® platform enables applications to run through a standardized web interface.

PureWeb® solutions are typically composed of three tiers:

- PureWeb® Service—contains most of the application logic. It uses the Service API to *plug in* to the PureWeb® Server, maintain application state, and generate rendered views.
- PureWeb® Server—is responsible for starting/stopping PureWeb® Services, and mediating communication between PureWeb® Clients and PureWeb® Services.
- PureWeb® Client—allows users to interact with PureWeb® Services through web browsers and/or mobile devices.

To PureWeb® enable an existing application means transforming the workstation version of an application into a PureWeb® Service by creating objects and calling methods from the Service API.

Specifically, the application will create a singleton instance of the `StateManager` class (responsible for maintaining application state in a PureWeb® Service) and pass it to a singleton instance of `StateManagerServer`.

The `StateManagerServer` handles communication with the PureWeb® Server over a socket. Messages arriving from the client via the Server as XML text are converted to lists of command objects that are executed by the `StateManager`. These include commands to change the application state, commands that represent user input events, and custom commands understood by the application.

In executing the commands, the application will generate response objects including changes to the application state and new rendered images. The `StateManagerServer` converts the response objects to XML text messages that are passed back to the client via the PureWeb® Server.

Once the service creates the `StateManager` instance, it will register event handlers that are invoked when specific nodes in the application state change.

Every rendered view that is intended to be displayed on the client must be registered with the `StateManager`. In order to communicate with the `StateManager`,

views must inherit from the `IRenderedView` interface. Use the adapter pattern, if it is not possible or convenient for view classes to inherit directly from the `IRenderedView` interface.

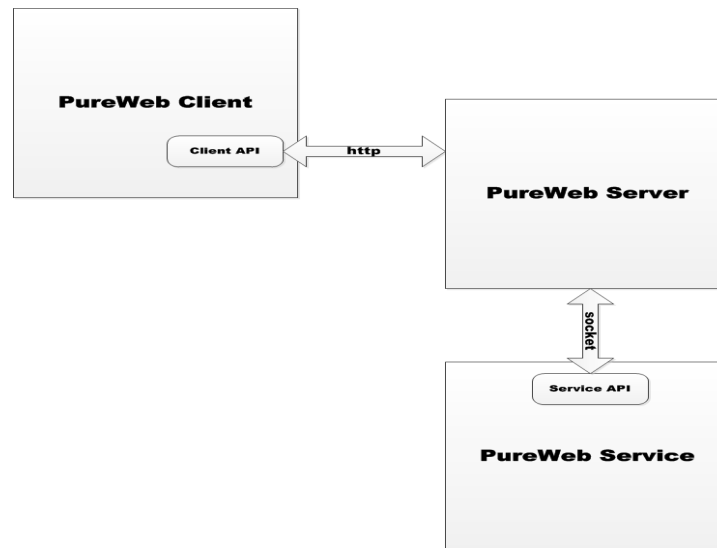


Figure 1: Typical PureWeb® Solution

As shown in [Figure 2](#), the application state is stored on both the client and server sides as XML. To maintain synchronicity, the differences in the state are transmitted to and from both the client and the service. The client sends commands and input events to the service (in XML form). The service sends updated images to the client.

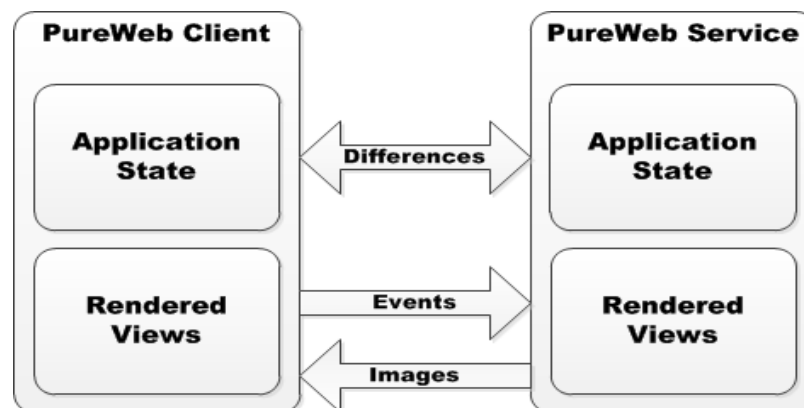


Figure 2: State Views

Prerequisites

The implementation and testing of the PureWeb® STK requires the installation of a specific (but readily available) combination of software.

Client STK Requirements

The following software is required for client development:

- iOS SDK 5.0 or higher—including the Xcode 4.2 IDE, iOS Simulator and the suite of tools for Apple iPhone/iPad development.

Warning! Xcode must be installed before you attempt to install the PureWeb® iOS STK.

Service STK Requirements

Note: Service development for the Mac OS/X platform is currently not supported.

Refer to the *Service STK Requirements* section of the *PureWeb® Installation Guide for Microsoft Windows* for detailed information about the service requirements.

PureWeb® Server Requirements

Refer to the *PureWeb® Server Requirements* section of the *PureWeb® Installation Guide for Microsoft Windows* for detailed information about the PureWeb® Server requirements.

Sample Application Requirements

Refer to the *Sample Application Requirements* section of the *PureWeb® Installation Guide for Microsoft Windows* for detailed information about the sample application requirements.

2

Installing the PureWeb® iOS STK

This section provides detailed information about installing the PureWeb® iOS STK.

This chapter contains the following sections:

- [PureWeb® iOS STK Installation, page 15](#)

PureWeb® iOS STK Installation

Use the installation wizard to install the PureWeb® iOS STK.

Installing the PureWeb® iOS STK

Purpose: To install the PureWeb® iOS STK.

Start of procedure

1. Double-click on the PureWebSetup.pkg icon to start the PureWeb® iOS STK installation wizard.



Figure 3: Installation Wizard

2. Click the Continue button on the Introduction dialog to display the License Agreement.

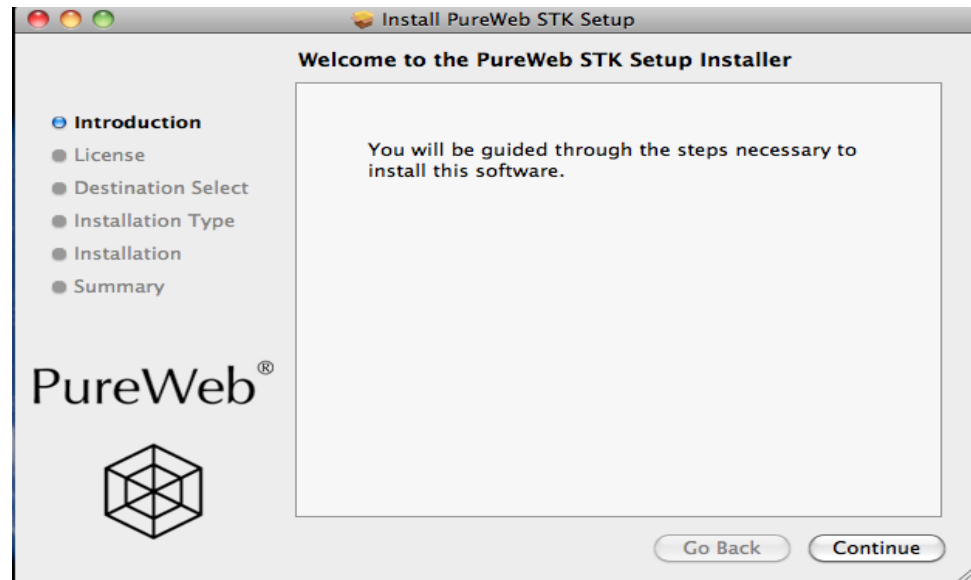


Figure 4: Introduction Dialog

3. Review the terms of the License Agreement and click the Continue button.

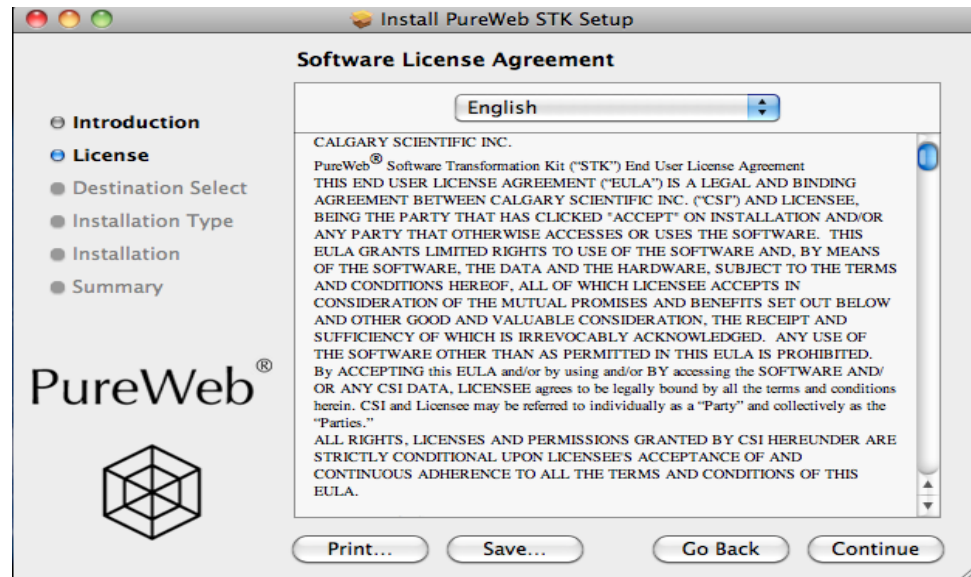


Figure 5: License Agreement

4. Click the Agree button to accept the terms of the License Agreement.

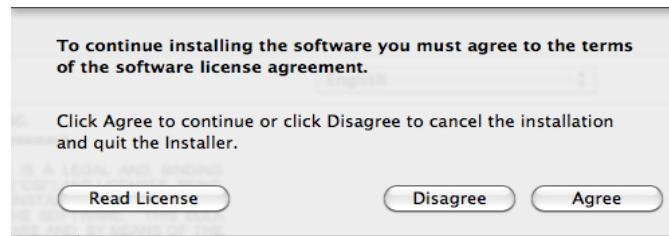


Figure 6: License Acceptance

5. Click the Install button to start the Standard Installation.



Figure 7: Standard Installation

6. Enter your Name/Password and click the OK button to authorize the installation.

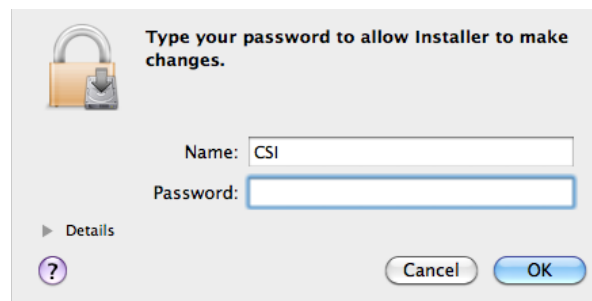


Figure 8: User Name and Password

7. Click on the Close button on the Summary dialog to complete the installation.

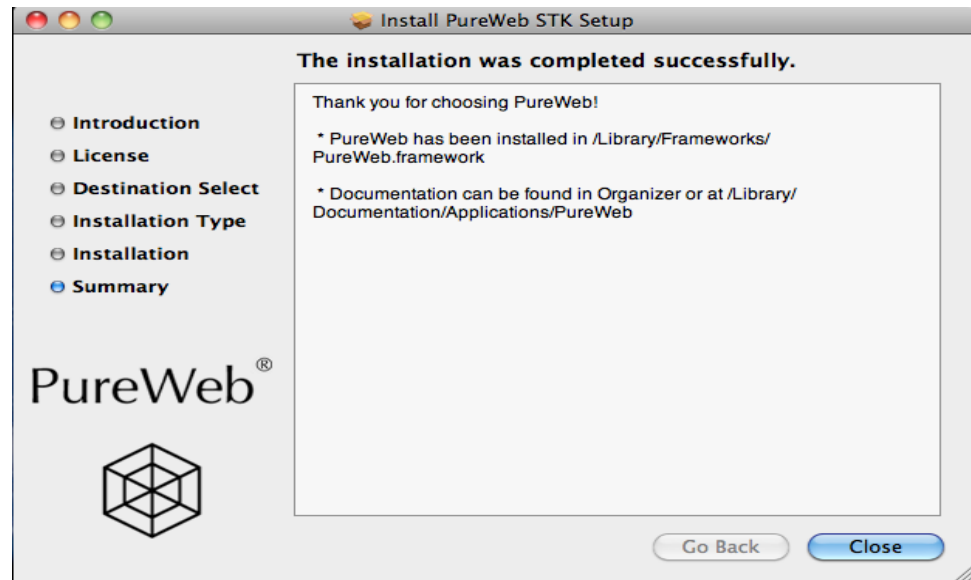


Figure 9: Installation Summary

End of procedure

Next Steps

- Chapter 3, “Verify the PureWeb® iOS STK Installation,” on [page 19](#).

3

Verify the PureWeb® iOS STK Installation

This section provides procedures used to verifying that your PureWeb® iOS STK installation is correct and complete.

This chapter contains the following sections:

- [Verify the Files and Folders, page 19](#)

Verify the Files and Folders

Use the following procedures to verify that the installation is correct and complete.

Verifying the Directory Structure is Complete

Purpose: To confirm that your PureWeb® iOS STK installation is correct and complete in your Apple Macintosh environment.

Start of procedure

1. Use Finder to navigate to /Library/Frameworks/PureWeb.framework.

This directory contains the shared resources of the PureWeb® iOS STK including the dynamic shared library, header files and documentation.

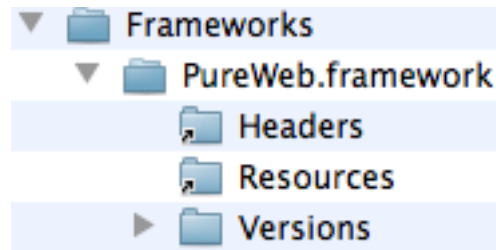


Figure 10: Framework Directory Structure

End of procedure

Next Steps

- “Verifying the Documentation Installation” on [page 20](#).

Verifying the Documentation Installation

Purpose: To locate and verify that the documentation was installed correctly.

Start of procedure

1. Use Finder to browse to /Library/Documentation/Applications/PureWeb.
Confirm that the documentation is present.

End of procedure

4

Uninstalling the PureWeb® iOS STK

This section provides detailed information about uninstalling the PureWeb® iOS STK.

This chapter contains the following sections:

- [Uninstall the PureWeb® iOS STK, page 21](#)

Uninstall the PureWeb® iOS STK

Use the installation wizard to install the PureWeb® iOS STK.

Uninstalling the PureWeb® iOS STK

Purpose: To uninstall the PureWeb® iOS STK.

Start of procedure

1. Open a terminal by navigating to Applications | Utilities | Terminal.
2. Type the following command.
`sudo /Library/Frameworks/PureWeb.framework/uninstall.sh`

End of procedure

Supplements

Related Documentation Resources

The following resources provide additional information that is relevant to this software. Consult these additional resources as necessary.

PureWeb® STK

- *PureWeb® Installation Guide for Microsoft Windows*, which provides detailed information on installing PureWeb® STK on a Microsoft Windows operating system.
- *PureWeb® Server Administration Guide*, which provides information about the PureWeb® Server.
- *PureWeb® Objective-C STK API Reference*, which describes the Objective-C STK.
- *PureWeb® STK Quick Start Guide: Objective-C*, which describes the sample applications and their code.
- *PureWeb® Troubleshooting Guide*, which describes solutions to common issue.
- *PureWeb® STK Release Notes*.
- *PureWeb® STK Application Upgrading Notes*.

Document Conventions

This document uses certain stylistic and typographical conventions—introduced here—that serve as shorthands for particular kinds of information.

Document Version Number

A version number appears at the bottom of the inside front cover of this document. Version numbers change as new information is added to this document. Here is a sample version number:

```
PW3.0_Java_QSG_03-2011_v3.0.001.00
```

You will need this number when you are talking with Calgary Scientific Support about this product.

Screen Captures Used in This Document

Screen captures from the product graphical user interface (GUI), as used in this document, may sometimes contain minor spelling, capitalization, or grammatical errors. The text accompanying and explaining the screen captures corrects such errors *except* when such a correction would prevent you from installing, configuring, or successfully using the product. For example, if the name of an option contains a usage error, the name would be presented exactly as it appears in the product GUI; the error would not be corrected in any accompanying text.

Type Styles

[Table 1](#) describes and illustrates the type conventions that are used in this document.

Table 1: Type Styles

Type Style	Used For	Examples
Italic	<ul style="list-style-type: none"> Document titles Emphasis Definitions of (or first references to) unfamiliar terms Mathematical variables <p>Also used to indicate placeholder text within code samples or commands, in the special case where angle brackets are a required part of the syntax (see the note about angle brackets on page 25).</p>	<p>Please consult the <i>Calgary Scientific Migration Guide</i> for more information.</p> <p>Do <i>not</i> use this value for this option.</p> <p>A <i>customary and usual</i> practice is one that is widely accepted and used within a particular industry or profession.</p> <p>The formula, $x + 1 = 7$ where x stands for . . .</p>

Table 1: Type Styles (Continued)

Type Style	Used For	Examples
<p>Monospace font (Looks like teletype or typewriter text)</p>	<p>All programming identifiers and GUI elements. This convention includes:</p> <ul style="list-style-type: none"> • The <i>names</i> of directories, files, folders, configuration objects, paths, scripts, dialog boxes, options, fields, text and list boxes, operational modes, all buttons (including radio buttons), check boxes, commands, tabs, CTI events, and error messages. • The values of options. • Logical arguments and command syntax. • Code samples. <p>Also used for any text that users must manually enter during a configuration or installation procedure, or on a command line.</p>	<p>Select the Show variables on screen check box.</p> <p>In the Operand text box, enter your formula.</p> <p>Click OK to exit the Properties dialog box.</p> <p>Scribble service distributes the error messages in EventError events.</p> <p>If you select true for the inbound-bsns-calls option, all established inbound calls on a local agent are considered business calls.</p> <p>Enter exit on the command line.</p>
<p>Square brackets ([])</p>	<p>A particular parameter or value that is optional within a logical argument, a command, or some programming syntax. That is, the presence of the parameter or value is not required to resolve the argument, command, or block of code. The user decides whether to include this optional information.</p>	<p>smcp_server -host [/flags]</p>
<p>Angle brackets (< >)</p>	<p>A placeholder for a value that the user must specify. This might be a DN or a port number specific to your enterprise.</p> <p>Note: In some cases, angle brackets are required characters in code syntax (for example, in XML schemas). In these cases, italic text is used for placeholder values.</p>	<p>smcp_server -host <confighost></p>

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