



Sun Java System Portal Server Mobile Access 7.1 Deployment Planning Guide



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Preface

This guide explains how to plan for and deploy Sun Java™ System Portal Server Mobile Access 7.1 (formerly known as Sun™ ONE Portal System, Mobile Access) software release. This preface includes the following sections:

- “Who Should Read This Book” on page 5
- “What You Need to Know” on page 5
- “How This Book Is Organized” on page 6
- “Conventions Used in This Book” on page 6
- “Where to Find Related Information” on page 8
- “Accessing Sun Resources Online” on page 8
- “Contacting Sun Technical Support” on page 9
- “Related Third-Party Web Site References” on page 9
- “Sun Welcomes Your Comments” on page 9

Who Should Read This Book

You should review this book if you are Portal Server administrator or system administrator responsible for managing Mobile Access software at your site.

What You Need to Know

Before you administer Mobile Access, you must be familiar with the following concepts:

- Basic Solaris™ administration procedures
- Basic UNIX® administration procedures
- LDAP (lightweight directory access protocol)
- Markup languages used to create portal content appropriate for mobile and voice environments, such as HTML, cHTML, and VoiceXML
- Solaris 8 Operating System (SPARC® Platform Edition) or Solaris® 9 Operating System (SPARC® Platform Edition) or Solaris® Operating System (x86 Platform Edition)
- Sun Java™ System Directory Server (formerly Sun ONE Directory Server)
- Sun Java™ System Access Manager (formerly Sun ONE Identity Server, and Sun Java System Identity Server)

- Sun Java™ System Portal Server 7
- Sun Java™ System Portal Server Secure Remote Access 7

Depending on the Web container that you are using, you should be familiar with one or more of the following:

- Sun Java™ System Web Server (formerly Sun ONE Web Server)
- Sun Java™ System Application Server
- BEA WebLogic Server™ 8.1 SP2/SP4
- IBM WebSphere® 5.1

How This Book Is Organized

This book contains the following chapters and appendixes:

- [Chapter 1](#) provides a roadmap for deploying Mobile Access software.
- [Chapter 2](#) describes how to analyze your organization's needs and requirements that affect the design of your Mobile Access software deployment.
- [Chapter 3](#) provides a planning worksheet to help with your mobile portal deployment process.
- [Chapter 4](#) identifies directory structures and property files that are installed for Mobile Access software.
- [Chapter 5](#) provides the list of Java Enterprise System glossary.

This book also provides a glossary and an index.

Conventions Used in This Book

The guide uses several typographical conventions to represent types of information presented.

Monospaced Font

Monospaced font is used for any text that appears on the computer screen or text that you should type. It is also used for file names, distinguished names, functions, and examples.

Bold Monospaced Font

Bold monospaced font is used to represent text within a code example that you should type. For example, you might see something like this:

```
./pssetup
```

```
*****
```

```
Sun(TM) ONE Portal Server
```

```
*****
```

```
Installation log at
```

```
/var/sadm/install/logs/ipsinstall.13343/install.log
```

This product will run without a license. However, you must either purchase a Binary Code License from, or accept the terms of a Binary Software Evaluation license with, Sun Microsystems, to legally use this product.

```
Do you accept? yes/[no]
```

In this example, `./pssetup` is what you would type from the command line. The rest is what would appear as a result.

Italicized Font

An *italicized font* is used to represent text that you enter using information that is unique to your installation (for example, variables). It is used for server paths and names and account IDs.

Square or Straight Brackets

Square (or straight) brackets [] are used to enclose optional parameters. For example, in Portal Server software documentation, you will see the usage for the `dpadmin` command described as follows:

```
dpadmin list|modify|add|remove [command-specific options]
```

The presence of [command-specific] indicates that optional parameters can be added to the `dpadmin` command.

Command-Line Prompts

Command-line prompts (for example, % for a C-Shell, or \$ for a Korn or Bourne shell) are not displayed in examples. Depending on which operating system environment you are using, you will see a variety of different command-line prompts. However, you should enter the command as it appears in the document unless specifically noted otherwise.

Where to Find Related Information

In addition to this guide, Mobile Access comes with supplementary information for administrators as well as documentation for developers.

Use the following URL to view all the Mobile Access documentation:

<http://docs.sfbay/app/docs/coll/1303.1>

Additional documents that are available include:

- Sun Java™ System Portal Server Mobile Access 7.1 Administration Guide
- Sun Java™ System Portal Server Mobile Access 7.1 Developer's Manual
- Sun Java™ System Portal Server Mobile Access 7.1 Developer's Reference
- Sun Java™ System Portal Server Mobile Access 7.1 Tag Library Reference

Other Portal Server Documentation

Use the following URL to view all the Portal Server documentation:

<http://docs.sfbay/app/docs/coll/1303.1>:

Other Portal Server books include:

- Sun Java System Portal Server 7.1 Deployment Planning Guide
- Sun Java System Portal Server 7.1 Desktop Customization Guide
- Sun Java System Portal Server 7.1 Developer's Guide
- Sun Java System Portal Server 7.1 Administration Guide

Accessing Sun Resources Online

You can find the Sun Java™ System Portal Server Mobile Access 7.1 Deployment Planning Guide online in PDF and HTML formats. This book can be found at the following URL:

<http://docs.sun.com>

Contacting Sun Technical Support

If you have technical questions about this product that are not answered in the product documentation, go to <http://www.sun.com/service/contacting>.

Related Third-Party Web Site References

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Please provide the full document title and part number in the appropriate fields. The part number of this guide is 819-5074.

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- Documentation (<http://www.sun.com/documentation/>)
- Support (<http://www.sun.com/support/>)
- Training (<http://www.sun.com/training/>)

Typographic Conventions

The following table describes the typographic conventions that are used in this book.

TABLE P-1 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name%</code> you have mail.
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name%</code> su Password:
<i>aabbcc123</i>	Placeholder: replace with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . A <i>cache</i> is a copy that is stored locally. Do <i>not</i> save the file. Note: Some emphasized items appear bold online.

Shell Prompts in Command Examples

The following table shows the default UNIX® system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P-2 Shell Prompts

Shell	Prompt
C shell	<code>machine_name%</code>
C shell for superuser	<code>machine_name#</code>
Bourne shell and Korn shell	<code>\$</code>
Bourne shell and Korn shell for superuser	<code>#</code>

Getting Started With Your Deployment Process

This chapter provides a roadmap for deploying Sun Java™ System Portal Server Mobile Access 7.1 (formerly known as Sun™ ONE Portal System, Mobile Access) software, and it explains where to find reference information for the product.

This chapter provides the following sections:

- “Mobile Access Software Features” on page 11
- “Deployment Roadmap” on page 12
- “Product Reference Information” on page 14

Mobile Access Software Features

Mobile Access software uses wireless communications networks to allow users to access your Sun Java™ System Portal Server site resources—including content, applications, and services—using a browser on any wireless device, such as a mobile phone or a personal digital assistant. It also provides a framework for voice access.

Mobile Access software is installed when Portal Server software is installed. Like Portal Server software, Mobile Access software uses the Sun Java™ System Identity Server administration console to manage mobile services and users, policy, and access control. Mobile Access administration can be delegated to other users or line-of-business administrators.

Mobile Access software:

- Supports mobile devices connected to a cellular network or to a wireless network through a LAN or a WAN using HTTP or HTTPS.
- Displays existing portal content on wireless mobile devices such as mobile phones, personal digital assistants, and smart phones.
- Integrates with existing mail, calendar and personal address book products from Sun™ Microsystems, Microsoft, and Lotus.

- Supports voice authentication, navigation, and creation of voice applications written with VoiceXML.
- Provides JavaServer Pages™ (JSP™) software templates for the Nokia 6310i phone.
- Provides dynamic personalization and customization for mobile devices.
- Supports customizing the look and feel of the user interface by modifying Portal Server software's provider templates and provider JSP templates as well as the Mobile Access software's application JSP specifications
- Supports writing custom authentication modules and custom content providers
- Incorporates Java™ Specification Request (JSR) 188 Composite Capability/Preference Profiles Processing (CC/PP) implementation. This facilitates development of device-independent web applications.
- Supports the Wireless Application Protocol (WAP) 2.0 specification for User Agent Profile (UAProf), and Extensible HyperText Markup Language (XHTML).
- Supports delivery of content and applications through the Sun Java™ System Portal Server Secure Remote Access gateway.

Deployment Roadmap

This section identifies overall steps needed to design, install and use the various components needed for Mobile Access software deployment. Who is responsible for each step of the process will vary.

People working on a deployment will interact with Mobile Access software to administer, develop, and use a portal site. At times, these distinctions might overlap. For example, a developer might use both the Mobile Access product APIs and the Identity Server administration console to customize and configure availability, content, and layout of a portal site and its providers. Who is involved in each step of the process will vary.

This section provides the following topics:

- [“Deployment Architecture and Design” on page 12](#)
- [“Component Software Installation and Configuration” on page 13](#)
- [“Component Performance Tuning” on page 13](#)
- [“Mobile Access Software Configuration” on page 13](#)

Deployment Architecture and Design

- Identify each component of your deployment and specify its version.
- Establish component architecture.
- Document uninstall and back-out procedures and identify verification methods.

- Identify access requirements, ports, and protocols between each component in your deployment.

For information regarding Portal Server software deployment, see the *Sun Java™ System Portal Server 7 Deployment Guide*.

For information regarding deployment of other components in your installation, see the deployment documentation for those products.

Component Software Installation and Configuration

- Install your software components.
- Configure your software components, using instructions in the appropriate documentation.
- Complete other configuration tasks for other elements— for example, single-sign on adapters—that your deployment includes.

For information about installing Sun Java Enterprise System components, see the *Sun Java™ Enterprise System Installation Guide*.

Component Performance Tuning

- Tune the following software:
 - Directory Server
For information about tuning the Directory Server, see the *Sun Java™ System Directory Server 5 Performance and Tuning Guide*.
 - Back-end servers for applications that you will provide.
For information about performance tuning components of your deployment, see the documentation for those products. For example, if you are using the Sun Java™ System Calendar Server software, see Appendix C of the *Sun Java™ System Calendar Server 7 Administration Guide*.

Tune Portal Services.

For information about performance tuning Portal Server software, see Chapter 8 of the *Sun Java™ System Portal Server 7 Deployment Guide*.

Mobile Access Software Configuration

- Configure the mobile Mail, Calendar, and Address Book channels.
See Chapter 5, “Configuring Mobile Applications” of the *Sun Java™ System Portal Server Mobile Access 7 Administration Guide* for instructions.

- Configure any other channels that you want to provide on the mobile Portal Desktop. See Chapter 4, “Managing the Mobile Portal Desktop” of the *Sun Java™ System Portal Server, Mobile Access 7 Administration Guide* for instructions.
- Verify that the appropriate channels appear on the “Available to End Users on the Content Page” list and “Visible on the Portal Desktop” list for JSPNative Container and JSPRendering Container. See Chapter 4, “Managing the Mobile Portal Desktop” of the *Sun Java™ System Portal Server, Mobile Access 7 Administration Guide* for instructions.
- Add the appropriate cookies to the Cookie Domain List, if subdomains are used in your installation. See Chapter 33, “Platform Service Attributes” of the *Sun Java™ System Identity Server Administration Guide* for information.
- Disable `http.ipsecurity` on mail and calendar back-end servers. See documentation for the specific servers you are using.
- Configure the single sign-on adapter templates, if desired. See the Appendix H, “SSO Adapter Templates and Configurations,” and Chapter 12, “Configuring the Communication Channels,” of the *Sun Java™ System Portal Server 7 Administration Guide* for instructions.
- Enable and configure administrator proxy authentication, if desired. See Chapter 12, “Configuring the Communication Channels,” of the *Sun Java™ System Portal Server 7 Administration Guide* for instructions.
- Configure mobile device content and layout. See Chapter 4, “Managing the Mobile Portal Desktop” of the *Sun Java™ System Portal Server Mobile Access 7 Administration Guide* for instructions.

Product Reference Information

This section provides a set of references to assist you with the specific roles you fulfill in administering, customizing and developing the Mobile Access product. The following topics are presented:

- “Installation Resources” on page 15
- “Administration Resources” on page 15
- “Development Resources” on page 15

Note – The most recent version of a product’s Release Notes can be found at the <http://docs.sun.com>. In addition to using the documentation cited in this section, check this web site periodically to review the most up-to-date Release Notes.

Installation Resources

The *Sun Java™ Enterprise System 2005Q4 Installation Guide* is available online at this URL:

<http://docs.sun.com>

Administration Resources

The *Sun Java™ System Portal Server Mobile Access 7 Administration Guide* is available online.

Information on understanding the Access Manager product and its administration console, which Mobile Access software uses, is available online at this URL:

<http://docs.sun.com>

The *Sun Java™ System Portal Server 7 Administration Guide* is available online at this URL:

<http://docs.sun.com>

Development Resources

The *Sun Java™ System Portal Server Mobile Access 7 Developer's Guide* is available online at this URL:

<http://docs.sun.com/doc/819-5313>

The *Sun Java™ System Portal Server Mobile Access 7 Tag Library Reference* is available online at this URL:

<http://docs.sun.com/doc/819-5316>

The *Sun Java™ System Portal Server Mobile Access 7 Javadoc™* tool is available with the Mobile Access software at `http://hostname:port/portal/javadocs/ma` on the server where Portal Server software is installed.

Tip – Documentation for all other Sun Java Enterprise System software is online at this URL:

<http://docs.sun.com>

For information about other Sun products that you want to use with Mobile Access software, see the product and documentation information at this URL:

<http://www.sun.com>.

Analyzing Your Mobile Access Requirements

This chapter describes how to analyze your organization's needs and requirements that affect the design of your Mobile Access software deployment.

This chapter contains the following sections:

- [“Identifying and Evaluating Your Business and Technical Requirements” on page 17](#)
- [“Mapping Mobile Portal Features to Your Business Needs” on page 22](#)

Identifying and Evaluating Your Business and Technical Requirements

To identify and analyze your Mobile Access business and technical requirements, consider what your needs are from a high-level perspective.

To guide your deployment planning, this topic provides questions in the following areas:

- [“Business Objectives” on page 18](#)
- [“Technical Goals” on page 18](#)
- [“User Behaviors and Patterns” on page 19](#)
- [“Performance and Capacity” on page 19](#)
- [“Front-End Systems” on page 20](#)
- [“Growth Projections” on page 20](#)
- [“Authentication and Secure Access” on page 20](#)
- [“Channels” on page 21](#)
- [“Quality Goals” on page 21](#)

Some questions in these areas will not apply to your mobile portal design, and in some cases, you will identify and have to address issues that are not presented here.

Business Objectives

The business goals of providing mobile access affect deployment decisions. If you do not understand your objectives, you can easily make erroneous assumptions that could affect the success of your deployment.

Use these questions to help you identify your business objectives:

- What are the business goals of providing mobile access to your portal? For example, do you want to enhance customer service? Increase employee productivity? Reduce the cost of doing business?
- What are the business goals of providing voice access to your portal?
- Who is your target audience?
- What services or functions will the mobile portal deliver to users?
- How will your target audience benefit from mobile access?
- What are the key priorities for providing mobile access? If you plan to deploy your mobile portal in phases, identify key priorities for each phase.

Technical Goals

The reasons you are offering mobile access to your portal have a direct affect on planning your deployment. You must define target population, performance standards, and other factors related to your goals.

Use these questions to help you identify the goals of your mobile portal:

- What are the goals of providing mobile access? For example, do you want to deliver a service? Do you want to provide information?
- What applications will the mobile portal deliver?
- What is your target population?
- What performance standard is necessary? Does it differ from your portal performance?
- What transaction volume do you expect? What transaction volume do you expect during peak use?
- What response time is acceptable during peak use?
- What level of concurrency, the number of users who can be connected at any given time, is necessary?
- Will your mobile portal be deployed in one phase, or many phases? Describe each phase and what will change from phase to phase.

User Behaviors and Patterns

Study the people who will use your mobile portal. Consider factors such as when they will access the portal using a mobile device and how they have used predecessor access methods. If your organization's experience cannot provide these patterns, you can study the experience of other organizations and estimate them.

Use these questions to help you understand mobile users:

- Is mobile portal use likely to increase over time? Or stay stable?
- How fast will your mobile user base grow?
- How have your users used applications that the mobile portal will deliver to them?
- What mobile portal channels do you expect users to use regularly?
- What expectations about your mobile portal content do your users have? How have they used predecessor Web-based information or other resources that your mobile portal will offer?

Performance and Capacity

The performance that your portal must deliver directly affects your deployment requirements. Scalability, capacity, and high availability are some of the standards you need to consider.

Use these questions to help you evaluate performance requirements for your portal:

- What performance requirements exist?
- What high availability requirements exist?
- What response times are acceptable? How do the response times of your stand-alone systems compare with response time requirements of your portal?
- If you size your portal infrastructure for good response times during regular hours, can you tolerate a possible degradation in performance during peak load times?
- How many concurrent sessions, or connected users, are likely during peak use? (Count only users who are active. Do not include users who are, for example, away on vacation, on leave, or sleeping.)
- What is the above-normal peak time? How does this information affect your peak concurrent user estimate?
- What sort of user activity occurs during peak periods? Logins or reloads?
- How long do you expect the typical user to be connected, or have a valid portal session open? What use statistics do you have for existing applications? Do you have Web traffic analysis figures for an existing portal?

Front-End Systems

Analyze the front-end systems that will be used for access to your mobile portal. This enables you to identify how your users will connect to your portal and what kinds of browsers they will use. These factors will affect your deployment decisions.

Use these questions to help you understand your front-end systems:

- How will mobile users access your portal? What types of devices will they use?
- What browser features do your users have? Do they have Java™ applications? Is JavaScript™ technology enabled? Is cookie support enabled? Are tables supported?
- Is voice access needed?

Growth Projections

In addition to determining what capacity you need today, assess what capacity you'll need in the future, within a time frame that you can plan for. Growth expectations and changes in how your portal is used are factors you need to accommodate growth.

Use these questions to help you set growth projections for your mobile portal:

- What is the projected growth for the portal? How fast will the growth occur?
- Where is your mobile portal available? What are the trends for use of mobile devices in those countries?
- How will your business objectives change in the next two or three years?
- What plans do you have for future content?

Authentication and Secure Access

Determine whether security is needed for your mobile portal. If so, you must assess what kind is appropriate.

Use these questions to help you identify security requirements for your mobile portal:

- Is SSL required for authentication to the portal?
- Is SSL required for any other part of the portal?
- Is a gateway needed?
- What are your security policies?
- Do you use the Identity Server software to provide single sign-on to your portal? Will your single sign-on requirements change for mobile access? Should your mobile portal users be able to sign on automatically?

Channels

The channels your portal site offers have an affect on your deployment decisions. How your users use mobile devices to use channels and their content are among the factors to define.

Use these questions to help you assess channel requirements for your mobile portal:

- How many channels are you likely to provide to mobile device users?
- What portal channels do you expect mobile users to use regularly?
- Will you provide new content or re-work existing content?

Quality Goals

To identify and establish quality goals for your Mobile Access software deployment, consider what measures will allow you to deliver the quality that your mobile portal must offer.

Use these questions to help you set quality goals for your mobile portal:

- Do you want to provide all existing Portal Server software users mobile access to your portal within a certain time frame, such as 12 months?
- Have you completed plans for a test environment that replicates your production environment?
- How much time will you need for various test phases, including unit testing, functional testing, end-to-end testing, user acceptance testing, and the like?
- Will you test each mobile device you plan to support?
- Should you maintain existing mobile portal services during your mobile portal deployment?
- What performance and reliability expectations do you have? Have you established baseline measurements that you can track as you move to a production environment?
- What user interface standards do you have for various mobile devices?
- Can you maintain a completely functioning network infrastructure throughout the transition period from your test environment to your production environment?
- Can you eliminate single points of failure for the portal system by developing an architecture that includes redundant portal servers, gateways, and directory replicas and masters at various service layers?
- What change control procedures will you follow?

Mapping Mobile Portal Features to Your Business Needs

This section describes specific technology features of Mobile Access to help you determine which technologies are most important for your organization. Review these features while keeping in mind your organization's short-, mid-, and long-term plans.

To assist you in developing a deployment plan in a timely and cost effective manner, this topic describes the following features:

- [“Dynamic Rendering Engine” on page 22](#)
- [“VoiceXML Support” on page 22](#)
- [“JSR 188 \(CC/PP\)” on page 22](#) [“Secure Remote Access” on page 23](#)
- [“Secure Remote Access” on page 23](#)

Dynamic Rendering Engine

The dynamic rendering engine in Mobile Access software enables content, applications and services to be delivered dynamically to a mobile device in the correct markup language. The markup languages supported are XHTML, cHTML, HDML, HTML and WML.

This enables you to implement multi-device deployment scenarios.

VoiceXML Support

Mobile Access software provides the framework required to deploy VoiceXML applications. A voiceXML application can be deployed to users who are either on a land-based or mobile phone.

Voice-enabling enterprise applications such as email or calendar are useful ways to reuse enterprise information and content. Various voice engines and developer tools from third party vendors can be used with the Mobile Access software.

JSR 188 (CC/PP)

Mobile Access software implements the composite capability and preference profiles (CC/PP) specification. Portal Server software can use this implementation to adapt content and pass on delivery context information to channels that would adapt their behavior accordingly.

This specification provides developers with a standard set of APIs for processing delivery context information compatible with the majority of Web access mechanisms that deliver context negotiations.

Writing device-independent code that can deliver content to a multitude of Web access mechanisms helps reduce costs and avoids proliferating proprietary and potentially incompatible implementations.

Secure Remote Access

The Mobile Access product supports Sun Java™ System Portal Server Secure Remote Access software, which provides proxy, URL rewriting, and VPN-on-demand capabilities. The Secure Remote Access gateway sits in the DMZ in front of the corporate firewall and provides security from outside connections to resources available behind the firewall.

The gateway provides proxy server and URL rewriting capabilities for content and applications. It also supports URL obfuscation.

Mobile Portal Assessment Worksheet

This appendix provides a planning worksheet to help with your mobile portal deployment process.

This appendix contains the following sections:

- “Business Objectives” on page 25
- “Technical Goals” on page 26
- “User Behaviors and Patterns” on page 26
- “Performance and Capacity” on page 27
- “Front-End Systems” on page 27
- “Growth Projections” on page 28
- “Authentication and Secure Access” on page 28
- “Channels” on page 28
- “Quality Goals” on page 29

The questions are provided as starting points. Use them to learn more about your organization’s business needs and potential areas of concern around deploying mobile portals.

Business Objectives

Check and elaborate on the answers that apply to your situation.

- Identify the business reasons that you want a mobile portal:
 - Improve ease of access to information
 - Speed up access to information
 - Expand the types of users who can use your portal
 - Improve user’s experience
 - Provide new services
 - Other

Define which portal users will be allowed mobile access:

- All portal users
- Field employees (using PDA-capable applications, for example)
- Other user categories

Define which portal users will be allowed voice access:

- All portal users
- Users who cannot use visual interfaces
- Other user categories

Technical Goals

Check and elaborate on the answers that apply to your situation.

- Indicate reasons that you want to provide mobile access to your portal:
 - Deliver a service
 - Provide information
 - Enable field employees to access your portal
 - Save time for users

Describe your target population.

- List what applications you want to provide and the reasons you want to provide them.
- Chart planned transaction volume (including during peak use times) and level of concurrency.
- Identify how users will access your mobile portal:
 - Public carrier
 - WiFi (wireless LAN)
 - Mobile messaging devices
 - WAP-capable mobile phones
 - General packet radio service (GPRS)

Identify standards and requirements for WAP gateways.

- Document the phases you will use to deploy your mobile portal.

User Behaviors and Patterns

Check and elaborate on the answers that apply to your situation

- Define your user profile.
- Describe how your mobile portal users differ from your other portal users.
- Describe the experience your mobile portal users have with mobile devices:
 - Seasoned (provide profiles and define degrees of use)

- Neophyte (provide profiles and define degrees of use)

Chart your growth projections for mobile users:

- Immediate
- Mid-term
- Long-term

Identify the content your mobile portal will provide:

- Existing
- New

Describe why your users will use your mobile portal content and identify how they have used the same content previously.

Performance and Capacity

Check and elaborate on the answers that apply to your situation.

- Identify your requirements for:
 - Performance
 - High availability
 - Response times

Consider whether your requirements are suitable for peak use times.

- Identify user activity and how it fluctuates.
- Analyze your existing data regarding user connections and Web traffic.

Front-End Systems

Check and elaborate on the answers that apply to your situation.

- Identify what mobile devices you will support:
 - Mobile phones (brands and models)
 - PDAs (brands and models)

Identify what browsers (and versions) you will support:

- HDML
- HTML
- cHTML
- iHTML
- XHTML
- VoiceXML

- WML
- JHTML

Identify what type of applications you will provide.

Growth Projections

Check and elaborate on the answers that apply to your situation.

- Specify what countries your users are in.
- Identify how mobile access will change the use of your portal and its content:
 - Increase use (how and by how much)
 - Change use (how and by how much)

Identify how mobile access will affect your business objectives.

- Study how mobile access to your portal will affect content and identify what changes, if any, will be needed.

Authentication and Secure Access

Check and elaborate on the answers that apply to your situation.

- Document your authentication and encryption policies.
- Describe why a gateway is needed.
- Identify when SSL should be used:
 - Authentication
 - Access to specific channels
 - Other

Identify whether your single sign-on requirements will change for mobile access.

- Identify authentication and encryption concerns of your applications.

Channels

Check and elaborate on the answers that apply to your situation.

- Specify how your mobile portal offerings will differ from your HTML-based portal.
- Review existing portal content and identify what content your mobile portal will provide:
 - Existing
 - New

Identify what content must be revised (shortened or reorganized).

Quality Goals

Check and elaborate on the answers that apply to your situation.

- Develop plans, including time-lines, for how you will provide mobile access to your portal.
- Identify processes you can apply to ensure that your deployment will progress smoothly.
 - Testing
 - Maintenance of existing service
 - Redundancy

Define baseline performance and reliability measurements.

- Identify which mobile devices you will test.
- Identify what your change control procedures will be.

Directory Structure and Configuration Files

Platform-specific directory structures and property files are installed for the Mobile Access software. They are used to store configuration and operational data. This appendix provides information about:

- “Directory Structure” on page 31
- “Configuration Files” on page 33

Directory Structure

The platform-specific directory structures that are installed for Mobile Access software are for application JSP template files and voice files. They include the following:

- Application JSP/templates

/portal-server-installation-root/SUNWps/web-src/jsp/default

- Voice prompt audio files

/web-server-installation-root/docs/voice

- Authentication JSP specifications in AML/VoiceXML/WML

/identity-server-installation-root/SUNWam/web-src/services/config/auth/

- Grammar files for voice-enabled providers

*/portal-server-installation-root/SUNWps/web-src/jsp/default/channel_name
/vxml/Nuance/grammars/*

Mobile Access software also uses the following Portal Server software directories:

- Default installation directory

/portal-server-installation-root/opt/SUNWps

- Default installation directory for configuration information
/portal-server-installation-root/opt/SUNWps
- Default installation directory for SDK
/portal-server-installation-root/SUNWps/sdk
- Temporary files
/usr/tmp
- Log files
/var/opt/SUNWam/logs
- Container and channel display profile
/portal-server-installation-root/SUNWps/samples/desktop/dp-org.xml
- Provider display profile
/portal-server-installation-root/SUNWps/samples/desktop/dp-providers.xml
- HTML template files
/etc/opt/SUNWps/desktop/default/channel_or_provider_name.template
- JSP template files
/etc/opt/SUNWps/desktop/default/JSPchannelname
- Command-line utilities
/portal-server-installation-root/SUNWps/bin/
- Tag library definitions
/etc/opt/SUNWps/desktop/default/tld/.tld*
- Display profile DTD
/etc/opt/SUNWps/dtd/psdp.dtd
- Java properties files
/portal-server-installation-root/SUNWma/locale

Configuration Files

Mobile Access software uses two configuration files. These files and their default locations are:

- `/etc/opt/SUNWma/config.properties`

The `config.properties` file is installed as a common component and has properties that Portal Server software and Identity server software use.

- `/etc/opt/SUNWps/MACConfig.properties`

The `MACConfig.properties` is installed as a component of Portal Server software and has properties specific only to Portal Server software.

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CHAPTER 5

Glossary

This chapter provides the information on glossary list.

Reference

Refer to the *Java Enterprise System Glossary* <http://www.docs.sun.com> for a complete list of terms that are used in this documentation set.

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