



Sun Java™ System

Portal Server Mobile Access 6 Developer's Reference

2005Q1

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About This Guide

Sun Java™ System Portal Server Mobile Access (formerly known as Sun™ ONE Portal Server, Mobile Access) software is an extension to Sun Java System Portal Server (formerly Sun™ ONE Portal Server) software that enables users to access portal services from mobile devices such as cellular phones and PDAs. Mobile Access ships with three mobile applications—Calendar, Address Book, and Mail—which developers can fully customize.

The mobile applications listed above are based on JavaServer™ Pages (JSP™) technology, and as such, make extensive use of custom tag libraries that implement their behavior. Each tag library is customizable through a corresponding set of APIs written in the Java™ programming language.

In addition, Mobile Access software contains support for voice accessibility; therefore, applications that respond directly to voice commands can be written.

This preface includes the following sections:

- [Who Should Read This Book](#)
- [What You Need to Know](#)
- [How This Book Is Organized](#)
- [Conventions Used in This Guide](#)
- [Where to Find Related Information](#)
- [Where to Find This Guide Online](#)
- [Sun Welcomes Your Comments](#)

Who Should Read This Book

This reference is intended for developers who want to:

- Gain a developer's perspective of the mobile address book, calendar, and mail applications
- Create voice-enabled applications accessible from any telephone
- Customize or extend the Portal Desktop for their mobile devices
- Create pages for mobile devices using Abstract Markup Language (AML)
- Gain a developer's perspective of the Mobile Access software schema definitions for Sun Java System Identity Server software (formerly Sun™ ONE Identity Server software)

What You Need to Know

What you need to know will vary with the characteristics of your site. Knowledge of the following is recommended:

- Sun Java Enterprise System 2005Q1
 - Sun Java System Portal Server 6 2005Q1 software
 - Sun Java System Portal Server Secure Remote Access 6 2005Q1 software (formerly Sun™ ONE Portal Server, Secure Remote Access software)
 - Sun Java System Identity Server 6 2005Q1 software
 - Sun Java System Directory Server 5.2 2005Q1 software (formerly Sun™ ONE Directory Server software)
- Your Web Container
 - Sun Java System Application Server Enterprise Edition 8.1 2005Q1
 - Sun Java System Web Server 6.1 2005Q1 Service Pack 4 (also known as Sun™ ONE Web Server 6.1 Service Pack 1 software)
- Programming and Markup Languages
 - The Java™ Programming Language
 - JavaScript™ Programming Language

- Markup languages used to create portal content appropriate for users' mobile and voice environments, such as Wireless Markup Language (WML), compact Hypertext Markup Language (cHTML), Handheld Device Markup Language (HDML), Extensible Hypertext Markup Language (XHTML), and Voice Extensible Markup Language (VoiceXML).
- Other Technologies
 - Java Server Pages™ (JSP)
 - Java Servlet Technology
 - LDAP (Lightweight Directory Access Protocol)
- Your Operating System
 - Solaris™ 8 Operating System or Solaris™ 9 Operating System
 - Solaris™ Operating System (x86 Platform Edition)

In addition, you should have knowledge of basic UNIX® administrative procedures and you should have knowledge of the applications provided to your users—for example, Sun Java System Calendar Server 6 (formerly Sun™ ONE Calendar Server).

How This Book Is Organized

This book contains the following chapters:

- Chapter 1, “[Calendar Control Flow Reference Charts](#)” on page 15, lists the AML and WML-based JSP pages that comprise the mobile Calendar application.
- Chapter 2, “[Address Book Control Flow Reference Charts](#)” on page 39, lists the AML and WML-based JSP pages that comprise the mobile Address Book application.
- Chapter 3, “[Mail Control Flow Reference Charts](#)” on page 49, lists the AML and WML-based JSP pages that are included with the mobile Mail application.
- Chapter 4, “[Common Voice Prompts](#)” on page 59, lists commonly-used voice prompts that are not specific to any one particular application.
- Chapter 5, “[Authentication and Channel Chooser Voice Prompts](#)” on page 73, lists the corresponding voice prompts that are provided in this release.

- Chapter 6, “[Notes, Personal Notes and Mail Provider Voice Prompts](#)” on [page 81](#), lists the corresponding voice prompts that are provided in this release.
- Chapter 7, “[Calendar Voicelet Prompts](#)” on [page 85](#), lists the corresponding voice prompts that are provided in this release.
- Chapter 8, “[Mail Voicelet Prompts](#)” on [page 91](#), lists the corresponding voice prompts that are provided in this release.
- Chapter 9, “[Abstract Markup Language \(AML\) Elements](#)” on [page 97](#), lists and describes the usage of AML elements.
- Chapter 10, “[Mobile Access Software Schema Reference](#)” on [page 163](#), lists Mobile Access software schema definitions used by Identity Server software.

An index is also provided with this guide.

Conventions Used in This Guide

This guide uses certain 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. This font is also used for file names, distinguished names, functions, and examples.

Italicized Font

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

Where to Find Related Information

In addition to this guide, this Mobile Access software release provides supplementary information for administrators as well as documentation for developers.

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

http://docs.sun.com/coll/PortalServer_05q1

Additional documents that are available include:

- *Portal Server Mobile Access Administration Guide*
- *Portal Server Mobile Access Deployment Planning Guide*
- *Portal Server Mobile Access Developer's Guide*
- *Portal Server Mobile Access Tag Library Reference*

NOTE

Check the Mobile Access documentation web site at http://docs.sun.com/coll/PortalServer_05q1 for updates to the Mobile Access documentation.

Where to Find This Guide Online

You can find the *Portal Server Mobile Access 6 Developer's Reference* online in PDF and HTML formats. This book can be found at the following URL:

<http://docs.sun.com/doc/819-1371>

Sun Welcomes Your Comments

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Calendar Control Flow Reference Charts

This chapter lists all JavaServer Pages™ (JSP™) pages for the mobile calendar application, with particular emphasis on how the pages link to each other.

This chapter contains the following tables:

- [AML-Based Calendar JSP Pages](#)
- [WML-Based Calendar JSP Pages](#)
- [AML-Based Calendar JSP Pages for Sun Java System Calendar Server](#)
- [WML-Based Calendar JSP Pages for Sun Java System Calendar Server](#)

Each table distinguishes between a link (<util:link>) and an automatic forward (<util:forward>). Use this chapter to follow control flow through the application, starting with any source file in the set.

NOTE Originally, the JSP pages are deployed using the Portal Server's `deploy` command. Before changes to a JSP page can take effect, you must issue the Portal Server's `deploy` command using the `redeploy` subcommand as follows:

```
portal_server_installation_root/SUNWps/bin/deploy redeploy
```

AML-Based Calendar JSP Pages

[Table 1-1](#) lists the AML-based JSP pages for the mobile calendar application. This set is for devices for which output is to be generated using the rendering engine and will pass through the rendering engine prior to delivery to the mobile device. The table contains four columns: File Name, Includes, Linked From, and Links to.

The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE
Locating Java Server Pages

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
 - Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.
-

AML-based JSP pages for the mobile calendar application—not specific to Sun Java System Calendar Server—are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/cal/`
- `/opt/SUNWps/web-src/jsp/default/cal/aml`
- `/opt/SUNWps/web-src/jsp/default/cal/notes/aml`

Table 1-1 AML-Based Calendar JSP Pages

File Name	Includes	Linked From	Links To
<code>calHome.jsp</code>	not applicable	<code>goto.jsp</code> <code>launchCal.jsp</code>	Forwards to: <code>subCompHm.jsp</code>
<code>compHm.jsp</code>	not applicable	<code>subCompHm.jsp</code>	Forwards to: <code>dayview.jsp</code>
<code>date.jsp</code>	not applicable	<code>goto.jsp</code>	<code>doDate.jsp</code>

Table 1-1 AML-Based Calendar JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
dayview.jsp	not applicable	dayview.jsp delete.jsp deleteTask.jsp doAddTask.jsp doChangeEvent.jsp doDate.jsp doRoll.jsp doUpdateEvent.jsp event.jsp eventHm.jsp task.jsp	dayview.jsp doRoll.jsp event.jsp eventSess.jsp goto.jsp task.jsp taskSess.jsp
delete.jsp	not applicable	deleteType.jsp event.jsp	dayview.jsp
deleteTask.jsp	not applicable	deleteTaskType.jsp task.jsp	dayview.jsp
deleteTaskType.jsp	not applicable	nothing	deleteTask.jsp
deleteType.jsp	not applicable	nothing	delete.jsp
doAddRepeat.jsp	not applicable	repeatUntil.jsp repeatUntilNumber.jsp verifyRUDate.jsp	Forwards to: eventHm.jsp
doAddTask.jsp	not applicable	doUpdateTask.jsp	dayview.jsp
doChangeEvent.jsp	not applicable	doUpdateEvent.jsp eventHm.jsp	dayview.jsp
doDate.jsp	not applicable	date.jsp	Forwards to: dayview.jsp
doRoll.jsp	not applicable	dayview.jsp goto.jsp	Forwards to: dayview.jsp

Table 1-1 AML-Based Calendar JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
doUpdateEvent.jsp	not applicable	eventHm.jsp	Forwards to: doChangeEvent.jsp inviteHome.jsp remindMail.jsp repeatFreq.jsp
doUpdateTask.jsp	not applicable	taskHm.jsp	dayview.jsp taskHm.jsp Forwards to: doAddTask.jsp remindMail.jsp repeatFreq.jsp taskHm.jsp
doWeekRepeat.jsp	not applicable	repeatOnWeekly.jsp	Forwards to: repeatUntil.jsp
edit.jsp	not applicable	eventHm.jsp	not applicable
editTask.jsp	not applicable	taskHm.jsp	not applicable
event.jsp	not applicable	dayview.jsp eventHm.jsp	dayview.jsp delete.jsp eventSess.jsp
eventHm.jsp	edit.jsp	doAddRepeat.jsp doUpdateEvent.jsp eventSess.jsp repeatFreq.jsp	dayview.jsp doChangeEvent.jsp doUpdateEvent.jsp event.jsp remindMail.jsp rsvp.jsp
eventSess.jsp	not applicable	changeType.jsp dayview.jsp event.jsp	Forwards to editEvent.jsp

Table 1-1 AML-Based Calendar JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
goto.jsp	not applicable	dayview.jsp	calHome.jsp date.jsp doRoll.jsp
launchCal.jsp	not applicable	not applicable	Forwards to: calHome.jsp
repeatFreq.jsp	not applicable	doUpdateEvent.jsp doUpdateTask.jsp repeatInterval.jsp	eventHm.jsp repeatInterval.jsp
repeatInt.jsp	not applicable	repeatInterval.jsp	repeatOn.jsp
repeatInterval.jsp	not applicable	repeatFreq.jsp	repeatFreq.jsp repeatInt.jsp repeatOn.jsp repeatUntil.jsp
repeatOn.jsp	not applicable	repeatInt.jsp repeatInterval.jsp	repeatUntil.jsp Forwards to: repeatOnMonthly.jsp repeatOnWeekly.jsp repeatOnYearly.jsp
repeatOnMonthly.jsp	not applicable	repeatOn.jsp	verifyRepeatOnMonthly.jsp
repeatOnWeekly.jsp	not applicable	repeatOn.jsp	doWeekRepeat.jsp repeatUntil.jsp
repeatOnYearly.jsp	not applicable	repeatOn.jsp	verifyRepeatOnYearly.jsp
repeatUntil.jsp	not applicable	doWeekRepeat.jsp repeatInterval.jsp repeatOn.jsp repeatOnMonthly.jsp repeatOnWeekly.jsp repeatOnYearly.jsp	doAddRepeat.jsp repeatUntilDate.jsp repeatUntilNumber.jsp

Table 1-1 AML-Based Calendar JSP Pages (*Continued*)

File Name	Includes	Linked From	Links To
repeatUntilDate.jsp	not applicable	repeatUntil.jsp verifyRUDate.jsp	verifyRUDate.jsp
repeatUntilNumber.jsp	not applicable	repeatUntil.jsp	doAddRepeat.jsp repeatUntilDate.jsp repeatUntilNumber.jsp
subCompHm.jsp	not applicable	calHome.jsp	Forwards to: compHm.jsp
task.jsp	not applicable	dayview.jsp	dayview.jsp deleteTask.jsp taskSess.jsp
taskHm.jsp	editTask.jsp	doUpdateTask.jsp taskSess.jsp	doUpdateTask.jsp
taskSess.jsp	not applicable	changeTaskType.jsp dayview.jsp task.jsp	Forwards to: taskHm.jsp
verifyRUDate.jsp	not applicable	repeatUntilDate.jsp	eventHm.jsp repeatUntilDate.jsp

WML-Based Calendar JSP Pages

Table 1-2 lists the WML-based JSP pages for the mobile calendar application. This set is for devices whose native markup is WML and will be delivered directly to the mobile device. This table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE**Locating Java Server Pages**

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
- Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.

WML-based JSP pages for the mobile calendar application—not specific to Sun Java System Calendar Server—are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/cal/`
- `/opt/SUNWps/web-src/jsp/default/cal/wml`
- `/opt/SUNWps/web-src/jsp/default/cal/notes/wml`

Table 1-2 WML-Based Calendar JSP Pages

File Name	Includes	Linked From	Linked To
<code>addTask.jsp</code>	<code>editTask.jsp</code>	not applicable	<code>addTaskDue.jsp</code>
<code>addTaskHm.jsp</code>	not applicable	<code>addTaskToSess.jsp</code>	<code>doAddTask.jsp</code> <code>remindMail.jsp</code> <code>repeatFreq.jsp</code>
<code>addTaskToSess.jsp</code>	not applicable	not applicable	<code>changeTask.jsp</code> <code>dayview.jsp</code> <code>task.jsp</code> Forwards to: <code>addTaskHm.jsp</code>
<code>attToSessTask.jsp</code>	not applicable	not applicable	Forwards to: <code>remindMail.jsp</code>
<code>calendars.jsp</code>	not applicable	not applicable	not applicable
<code>calHome.jsp</code>	not applicable	<code>goto.jsp</code> <code>launchCal.jsp</code>	Forwards to: <code>subCompHm.jsp</code>

Table 1-2 WML-Based Calendar JSP Pages (Continued)

File Name	Includes	Linked From	Linked To
compHm.jsp	not applicable	subCompHm.jsp	Forwards to: dayview.jsp
date.jsp	not applicable	goto.jsp	doDate.jsp
dayview.jsp	calendars.jsp	dayview.jsp delete.jsp deleteTask.jsp doAddTask.jsp doChangeEvent.jsp doDate.jsp doRoll.jsp doUpdateEvent.jsp event.jsp eventHm.jsp task.jsp	dayview.jsp doRoll.jsp event.jsp eventSess.jsp goto.jsp task.jsp taskSess.jsp
delete.jsp	not applicable	deleteType.jsp event.jsp	dayview.jsp
deleteTask.jsp	not applicable	deleteTaskType.jsp task.jsp	dayview.jsp
doAddRepeat.jsp	not applicable	repeatUntil.jsp repeatUntilNumber.jsp verifyRUDate.jsp	Forwards to: eventHm.jsp
doAddTask.jsp	not applicable	doUpdateTask.jsp	dayview.jsp
doChangeEvent.jsp	not applicable	doUpdateEvent.jsp eventHm.jsp	dayview.jsp
doDate.jsp	not applicable	date.jsp	Forwards to: dayview.jsp
doRoll.jsp	not applicable	goto.jsp	Forwards to: dayview.jsp

Table 1-2 WML-Based Calendar JSP Pages (Continued)

File Name	Includes	Linked From	Linked To
doUpdateEvent.jsp	not applicable	eventHm.jsp	Forwards to: doChangeEvent.jsp remindMail.jsp repeatFreq.jsp inviteHome.jsp
doUpdateTask.jsp	not applicable	taskHm.jsp	dayview.jsp taskHm.jsp Forwards to: doAddTask.jsp remindMail.jsp repeatFreq.jsp taskHm.jsp
edit.jsp	not applicable	eventHm.jsp	not applicable
editTask.jsp	not applicable	taskHm.jsp	not applicable
event.jsp	not applicable	dayview.jsp eventHm.jsp	dayview.jsp delete.jsp eventSess.jsp
eventAttendeeMenu.jsp	not applicable	not applicable	doChangeEvent.jsp
eventHm.jsp	edit.jsp	doAddRepeat.jsp doUpdateEvent.jsp eventSess.jsp repeatFreq.jsp	dayview.jsp doChangeEvent.jsp doUpdateEvent.jsp event.jsp remindMail.jsp rsvp.jsp
eventSess.jsp	not applicable	changeType.jsp dayview.jsp event.jsp	Forwards to: eventHm.jsp

Table 1-2 WML-Based Calendar JSP Pages (Continued)

File Name	Includes	Linked From	Linked To
goto.jsp	not applicable	dayview.jsp	calHome.jsp date.jsp doRoll.jsp
launchCal.jsp	not applicable	not applicable	Forwards to: calHome.jsp
modifier.jsp	not applicable	not applicable	not applicable
repeatFreq.jsp	not applicable	doUpdateEvent.jsp doUpdateTask.jsp repeatInterval.jsp	eventHm.jsp repeatInterval.jsp
repeatInt.jsp	repeatIntOK.jsp	repeatInterval.jsp	repeatOn.jsp
repeatInterval.jsp	not applicable	repeatFreq.jsp	repeatFreq.jsp repeatInt.jsp repeatOn.jsp repeatUntil.jsp
repeatIntOK.jsp	not applicable	repeatInt.jsp	repeatOn.jsp
repeatOn.jsp	not applicable	repeatInt.jsp repeatInterval.jsp	repeatUntil.jsp Forwards to: repeatOnMonthly.jsp repeatOnWeekly.jsp repeatOnYearly.jsp
repeatOnOK.jsp	not applicable	repeatOnMonthly.jsp repeatOnWeekly.jsp repeatOnYearly.jsp	repeatUntil.jsp
verifyRUDate.jsp	not applicable	repeatUntilDate.jsp	eventHm.jsp repeatUntilDate.jsp

AML-Based Calendar JSP Pages for Sun Java System Calendar Server

Table 1-3 lists the AML-based JSP pages that are specific to Sun Java™ System Calendar Server (formerly Sun™ ONE Calendar Server). This set is for devices for which output is to be generated using the rendering engine and will pass through the rendering engine prior to delivery to the mobile device. The table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE	Locating Java Server Pages
	<ul style="list-style-type: none"> Specific resource lookup rules apply when the <code>comp</code> and <code>file</code> attributes are used in conjunction with the <code>url</code>, <code>include</code>, and <code>forward</code> tags. The <code>comp</code> and <code>file</code> attributes are parameters to the lookup process. See the Utility Tag Library (<code>util</code>) in the <i>Portal Server Mobile Access Tag Reference Library</i> for more information on these resource lookup rules. Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.

AML-based JSP pages specific to the Sun Java System Calendar Server application are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/cal/sun-one/`
- `/opt/SUNWps/web-src/jsp/default/cal/sun-one/aml`

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server

File Name	Includes	Linked From	Links To
<code>attSess.jsp</code>	not applicable	<code>event.jsp</code>	Forwards to: <code>eventHm.jsp</code>
<code>calHome.jsp</code>	not applicable	<code>launchCal.jsp</code>	Forwards to: <code>subCompHm.jsp</code>

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
compHm.jsp	not applicable	subCompHm.jsp	Forwards to: dayview.jsp
dayview.jsp	not applicable	dayview.jsp deleteTask.jsp doCalChange.jsp eventHm.jsp taskHm.jsp	dayview.jsp doRoll.jsp event.jsp eventSess.jsp goto.jsp subscribed.jsp task.jsp taskSess.jsp
deleteTask.jsp	not applicable	task.jsp	dayview.jsp
doAddRepeatTask.jsp	not applicable	repeatUntilNumberTask.jsp repeatUntilTask.jsp verifyRUDateTask.jsp	Forwards to: taskHm.jsp
doCalChange.jsp	not applicable	subscribed.jsp	subscribed.jsp Forwards to: dayview.jsp
doDisableReminder.jsp	not applicable	remindMail.jsp	Forwards to: eventHm.jsp
doDisableReminderTask.jsp	not applicable	remindMailTask.jsp	Forwards to: taskHm.jsp
doInvite.jsp	not applicable	enterCal.jsp pickCal.jsp	Forwards to: eventHm.jsp
doInviteeRemove.jsp	not applicable	inviteeDisplay.jsp	Forwards to: inviteHome.jsp
doRemind.jsp	not applicable	remindMsg.jsp	Forwards to: eventHm.jsp taskHm.jsp

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
doRemindTask.jsp	not applicable	remindMsgTask.jsp	Forwards to: eventHm.jsp taskHm.jsp
doRoll.jsp	not applicable	dayview.jsp	Forwards to: dayview.jsp
doRSVP.jsp	not applicable	rsvp.jsp	Forwards to: eventHm.jsp
doSearch.jsp	not applicable	inviteHome.jsp searchString.jsp	Forwards to: pickCal.jsp
doUpdateTask.jsp	not applicable	taskHm.jsp	Forwards to: doAddTask.jsp noRemMailTask.jsp remindMailTask.jsp repeatFreqTask.jsp taskHm.jsp
editTask.jsp	not applicable	taskHm.jsp	not applicable
enterCal.jsp	not applicable	inviteHome.jsp	doInvite.jsp inviteHome.jsp
event.jsp	not applicable	dayview.jsp eventHm.jsp	attSess.jsp delete.jsp eventSess.jsp
eventHm.jsp	edit.jsp	attSess.jsp doDisableReminder.jsp doInvite.jsp doRemind.jsp doRemindTask.jsp doRSVP.jsp inviteHome.jsp	dayview.jsp doChangeEvent.jsp doUpdateEvent.jsp event.jsp remindMail.jsp rsvp.jsp

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
inviteHome.jsp	not applicable	doInviteeRemove.jsp enterCal.jsp	doSearch.jsp enterCal.jsp eventHm.jsp inviteeDisplay.jsp searchString.jsp
inviteeDisplay.jsp	not applicable	inviteeDisplay.jsp inviteHome.jsp	doInviteeRemove.jsp inviteeDisplay.jsp
launchCal.jsp	not applicable	not applicable	Forwards to: calHome.jsp
pickCal.jsp	not applicable	doSearch.jsp pickCal.jsp	doInvite.jsp pickCal.jsp
remindDate.jsp	not applicable	remindInterval.jsp	remindMsg.jsp
remindDateTask.jsp	not applicable	remindIntervalTask.jsp	remindMsgTask.jsp
remindInterval.jsp	not applicable	remindTime.jsp	remindMsg.jsp
remindIntervalTask.jsp	not applicable	remindTimeTask.jsp	remindMsgTask.jsp Forwards to: remindDateTask.jsp
remindMail.jsp	not applicable	eventHm.jsp	doDisableReminder.jsp remindTime.jsp
remindMailTask.jsp	not applicable	doUpdateTask.jsp	doDisableReminderTask.jsp remindTimeTask.jsp
remindMsg.jsp	not applicable	remindDate.jsp remindInterval.jsp	doRemind.jsp
remindMsgTask.jsp	not applicable	remindDateTask.jsp remindIntervalTask.jsp	doRemindTask.jsp
remindTime.jsp	not applicable	remindMail.jsp	remindInterval.jsp
remindTimeTask.jsp	not applicable	remindMailTask.jsp	remindIntervalTask.jsp

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
repeatFreqTask.jsp	not applicable	doUpdateTask.jsp repeatIntervalTask.jsp repeatOnYearlyTask.jsp repeatUntilTask.jsp	repeatIntervalTask.jsp taskHm.jsp
repeatIntTask.jsp	not applicable	repeatIntervalTask.jsp	repeatIntervalTask.jsp repeatOnTask.jsp
repeatIntervalTask.jsp	not applicable	repeatFreqTask.jsp repeatIntTask.jsp repeatOnTask.jsp	repeatFreqTask.jsp repeatIntTask.jsp repeatOnTask.jsp repeatUntilTask.jsp
repeatOnMonthlyTask.jsp	not applicable	repeatOnTask.jsp	taskHm.jsp verifyRepeatOnMonthlyTask.jsp
repeatOnTask.jsp	not applicable	repeatIntervalTask.jsp repeatIntTask.jsp	repeatIntervalTask.jsp repeatUntilTask.jsp Forwards to: repeatOnWeeklyTask.jsp repeatOnMonthlyTask.jsp repeatOnYearlyTask.jsp repeatUntilTask.jsp
repeatOnWeeklyTask.jsp	not applicable	repeatOnTask.jsp	repeatUntilTask.jsp taskHm.jsp
repeatOnYearlyTask.jsp	not applicable	repeatOnTask.jsp	repeatFreqTask.jsp repeatUntilTask.jsp
repeatUntilDateTask.jsp	not applicable	repeatUntilTask.jsp	task.jsp verifyRUDateTask.jsp
repeatUntilNumberTask.jsp	not applicable	repeatUntilTask.jsp	doAddRepeatTask.jsp repeatFreqTask.jsp

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
repeatUntilTask.jsp	not applicable	repeatIntervalTask.jsp repeatOnMonthlyTask.jsp repeatOnTask.jsp repeatOnWeeklyTask.jsp repeatOnYearlyTask.jsp	doAddRepeatTask.jsp repeatFreqTask.jsp repeatUntilDateTask.jsp repeatUntilNumberTask.jsp
rsvp.jsp	not applicable	eventHm.jsp	doRSVP.jsp
searchString.jsp	not applicable	inviteHome.jsp	doSearch.jsp
subCompHm.jsp	not applicable	calHome.jsp	Forwards to: compHm.jsp
subscribed.jsp	not applicable	dayview.jsp doCalChange.jsp	doCalChange.jsp
task.jsp	not applicable	dayview.jsp repeatUntilDateTask.jsp repeatUntilNumberTask.jsp taskHm.jsp verifyRUDateTask.jsp	deleteTask.jsp taskSess.jsp
taskHm.jsp	editTask.jsp	doAddRepeatTask.jsp doDisableReminderTask.jsp doRemind.jsp doRemindTask.jsp doUpdateTask.jsp repeatFreqTask.jsp repeatOnMonthlyTask.jsp repeatOnWeeklyTask.jsp taskSess.jsp verifyRUDateTask.jsp	dayview.jsp doUpdateTask.jsp task.jsp
taskSess.jsp	not applicable	dayview.jsp task.jsp	Forwards to: taskHm.jsp

Table 1-3 AML-Based Calendar JSP Pages for Sun Java System Calendar Server (Continued)

File Name	Includes	Linked From	Links To
verifyRUDateTask.jsp	not applicable	repeatUntilDateTask.jsp	task.jsp taskHm.jsp
			Forwards to: doAddRepeatTask.jsp

WML-Based Calendar JSP Pages for Sun Java System Calendar Server

Table 1-4 lists the WML-based JSP pages that are specific to the Sun Java System Calendar Server. This set is for devices whose native markup is WML and will be delivered directly to the mobile device. The table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE

Locating Java Server Pages

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
 - Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.
-

WML-based JSP pages specific to the Sun Java System Calendar Server application are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/cal/sun-one/`

- /opt/SUNWps/web-src/jsp/default/cal/sun-one/wml

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server

File Name	Includes	Linked From	Links To
attSess.jsp	not applicable	event.jsp	Forwards to: eventHm.jsp
calendars.jsp	not applicable	not applicable	subscribed.jsp
calHome.jsp	not applicable	launchCal.jsp	Forwards to: subCompHm.jsp
compHm.jsp	not applicable	subCompHm.jsp	Forwards to: dayview.jsp
dayview.jsp	not applicable	addTaskToSess.jsp dayview.jsp deleteTask.jsp doCalChange.jsp event.jsp eventHm.jsp inviteHome.jsp subscribed.jsp task.jsp	dayview.jsp doRoll.jsp event.jsp eventSess.jsp goto.jsp subscribed.jsp task.jsp taskSess.jsp
deleteTask.jsp	not applicable	task.jsp	dayview.jsp
doAddRepeatTask.jsp	not applicable	repeatUntilNumberTask.jsp repeatUntilNumOKTask.jsp repeatUntilTask.jsp verifyRUDateTask.jsp	Forwards to: taskHm.jsp
doCalChange.jsp	not applicable	subscribed.jsp	dayview.jsp Forwards to: dayview.jsp

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server (Continued)

File Name	Includes	Linked From	Links To
doDisableReminder.jsp	not applicable	remindMail.jsp	Forwards to: eventHm.jsp taskHm.jsp
doInvite.jsp	not applicable	enterCal.jsp enterCalOK.jsp pickCal.jsp pickCalOK.jsp	Forwards to: eventHm.jsp
doInviteeRemove.jsp	not applicable	inviteeDisplay.jsp inviteeRemoveOK.jsp	Forwards to: inviteHome.jsp
doRemind.jsp	not applicable	remindMsg.jsp remMsg.jsp	Forwards to: eventHm.jsp taskHm.jsp
doRemindTask.jsp	not applicable	remindMsgTask.jsp remMsgOKTask.jsp	Forwards to: eventHm.jsp taskHm.jsp
doRoll.jsp	not applicable	dayview.jsp	Forwards to: dayview.jsp
doRSVP.jsp	not applicable	rsvp.jsp rsvpOK.jsp	Forwards to: eventHm.jsp
doSearch.jsp	not applicable	inviteHome.jsp searchOK.jsp searchString.jsp	Forwards to: pickCal.jsp
doUpdateTask.jsp	not applicable	taskHm.jsp taskMenuOption.jsp	Forwards to: doAddTask.jsp noRemMailTask.jsp remindMailTask.jsp repeatFreqTask.jsp taskHm.jsp
editTask.jsp	not applicable	taskHm.jsp	not applicable

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
enterCal.jsp	enterCalOK.jsp	inviteHome.jsp	doInvite.jsp
enterCalOK.jsp	not applicable	enterCal.jsp	doInvite.jsp
event.jsp	not applicable	dayview.jsp subscribed.jsp	attSess.jsp dayview.jsp delete.jsp eventSess.jsp
eventHm.jsp	edit.jsp	attSess.jsp doDisableReminder.jsp doInvite.jsp doRemind.jsp doRemindTask.jsp doRSVP.jsp inviteHome.jsp	dayview.jsp doChangeEvent.jsp doUpdateEvent.jsp remindMail.jsp rsvp.jsp
inviteHome.jsp	not applicable	doInviteeRemove.jsp	dayview.jsp doSearch.jsp enterCal.jsp eventHm.jsp inviteeDisplay.jsp searchString.jsp
inviteeDisplay.jsp	inviteeRemoveOK.jsp	inviteeDisplay.jsp inviteHome.jsp	doInviteeRemove.jsp inviteeDisplay.jsp
inviteeRemoveOK.jsp	not applicable	inviteeDisplay.jsp	doInviteeRemove.jsp
launchCal.jsp	not applicable	not applicable	Forwards to: calHome.jsp
modifier.jsp	not applicable	not applicable	not applicable
noRemMailTask.jsp	not applicable	doUpdateTask.jsp	taskHm.jsp
pickCal.jsp	pickCalOK.jsp	doSearch.jsp pickCal.jsp	doInvite.jsp pickCal.jsp

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server (Continued)

File Name	Includes	Linked From	Links To
pickCalOK.jsp	not applicable	pickCal.jsp	doInvite.jsp
remDateOK.jsp	not applicable	remindDate.jsp	remindMsg.jsp
remDateOKTask.jsp	not applicable	remindDateTask.jsp	remindMsgTask.jsp
remMailOK.jsp	not applicable	remindMail.jsp	remindTime.jsp
remMailOKTask.jsp	not applicable	remindMailTask.jsp	remindTimeTask.jsp
remMsgOK.jsp	not applicable	remindMsg.jsp	doRemind.jsp
remMsgOKTask.jsp	not applicable	remindMsgTask.jsp	doRemindTask.jsp
remindDate.jsp	remDateOK.jsp	remindInterval.jsp	remindMsg.jsp
remindDateTask.jsp	remDateOKTask.jsp	remindIntervalTask.jsp	remindMsgTask.jsp
remindInterval.jsp	remindIntervalOK.jsp	remindTime.jsp	remindMsg.jsp
			Forwards to: remindDate.jsp
remindIntervalOK.jsp	not applicable	remindInterval.jsp	remindMsg.jsp
remindIntervalOKTask.jsp	not applicable	remindIntervalTask.jsp	remindMsgTask.jsp
remindIntervalTask.jsp	remindIntervalOKTask.jsp	remindTimeTask.jsp	remindMsgTask.jsp
			Forwards to: remindDateTask.jsp
remindMail.jsp	remMailOK.jsp	eventHm.jsp	doDisableReminder.jsp remindTime.jsp
remindMailTask.jsp	remMailOKTask.jsp	doUpdateTask.jsp	doDisableReminderTask.jsp remindTimeTask.jsp
remindMsg.jsp	remMsgOK.jsp	remDateOK.jsp remindDate.jsp remindInterval.jsp remindIntervalOK.jsp	doRemind.jsp

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server (Continued)

File Name	Includes	Linked From	Links To
remindMsgTask.jsp	remMsgOKTask.jsp	remDateOKTask.jsp remindDateTask.jsp remindIntervalOKTask.jsp remindIntervalTask.jsp	doRemindTask.jsp
remindTime.jsp	not applicable	remindMail.jsp remMailOK.jsp	remindInterval.jsp
remindTimeTask.jsp	not applicable	remindMailTask.jsp remMailOKTask.jsp	remindIntervalTask.jsp
repeatFreqTask.jsp	not applicable	doUpdateTask.jsp	repeatIntervalTask.jsp
repeatIntTask.jsp	repeatIntOKTask.jsp	repeatIntervalTask.jsp	repeatOnTask.jsp
repeatIntervalTask.jsp	not applicable	repeatFreqTask.jsp	repeatIntTask.jsp repeatOnTask.jsp repeatUntilTask.jsp
repeatIntOKTask.jsp	not applicable	repeatIntTask.jsp	repeatOnTask.jsp
repeatOnOKTask.jsp	not applicable	repeatOnMonthlyTask.jsp repeatOnWeeklyTask.jsp repeatOnYearlyTask.jsp	repeatUntilTask.jsp
repeatUntilDateOKTask.jsp	not applicable	repeatUntilDateTask.jsp	verifyRUDateTask.jsp
repeatUntilNumOKTask.jsp	not applicable	repeatUntilNumberTask.jsp	doAddRepeatTask.jsp
repeatOnMonthlyTask.jsp	repeatOnOKTask.jsp	repeatOnTask.jsp	repeatUntilTask.jsp

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
repeatOnTask.jsp	not applicable	repeatIntervalTask.jsp repeatIntOKTask.jsp repeatIntTask.jsp	repeatUntilTask.jsp Forwards to: repeatUntilTask.jsp
repeatOnWeeklyTask.jsp	repeatOnOKTask.jsp	repeatOnTask.jsp	repeatUntilTask.jsp
repeatOnYearlyTask.jsp	repeatOnOKTask.jsp	repeatOnTask.jsp	repeatUntilTask.jsp
repeatUntilDateTask.jsp	repeatUntilDateOKTask.jsp	repeatUntilTask.jsp	verifyRUDateTask.jsp
repeatUntilNumberTask.jsp	repeatUntilNumberOKTask.jsp	repeatUntilTask.jsp	doAddRepeatTask.jsp
repeatUntilTask.jsp	not applicable	repeatIntervalTask.jsp repeatOnMonthlyTask.jsp repeatOnOKTask.jsp repeatOnTask.jsp repeatOnWeeklyTask.jsp repeatOnYearlyTask.jsp	doAddRepeatTask.jsp repeatUntilDateTask.jsp repeatUntilTaskNumberTask.jsp
rsvp.jsp	rsvpOK.jsp	eventHm.jsp	doRSVP.jsp
rsvpOK.jsp	not applicable	rsvp.jsp	doRSVP.jsp
searchOK.jsp	not applicable	searchString.jsp	doSearch.jsp
searchString.jsp	searchOK.jsp	inviteHome.jsp	doSearch.jsp
subCompHm.jsp	not applicable	calHome.jsp	Forwards to: compHm.jsp
subscribed.jsp	not applicable	calendars.jsp dayview.jsp	dayview.jsp doCalChange.jsp

Table 1-4 WML-Based Calendar JSP Pages for Sun Java System Calendar Server *(Continued)*

File Name	Includes	Linked From	Links To
task.jsp	not applicable	addTaskToSess.jsp dayview.jsp	attToSessTask.jsp dayview.jsp deleteTask.jsp taskSess.jsp
taskHm.jsp	editTask.jsp taskMenu.jsp taskMenuOption.jsp	doAddRepeatTask.jsp P doDisableReminder.jsp doRemind.jsp doRemindTask.jsp doUpdateTask.jsp noRemMailTask.jsp verifyRUDateTask.jsp	doUpdateTask.jsp
taskMenu.jsp	not applicable	taskHm.jsp	not applicable
taskMenuOption.jsp	not applicable	taskHm.jsp	doUpdateTask.jsp
verifyRUDateTask.jsp	not applicable	repeatUntilDateOKTask.jsp repeatUntilDateTask.jsp	taskHm.jsp Forwards to: doAddRepeatTask.jsp

Address Book Control Flow Reference Charts

This chapter lists all JavaServer Pages™ (JSP™) pages for the mobile address book application, with particular emphasis on how the pages link to each other.

This chapter contains the following tables:

- [AML-Based Address Book JSP Pages](#)
- [WML-Based Address Book JSP Pages](#)

Each table distinguishes between a link (<util:link>) and an automatic forward (<util:forward>). Use this chapter to follow control flow through the application, starting with any source file in the set.

NOTE Originally, the JSP pages are deployed using the Portal Server's `deploy` command. Before changes to a JSP page can take effect, you need to issue the Portal Server's `deploy` command using the `redeploy` subcommand as follows:

```
portal_server_installation_root/SUNWps/bin/deploy redeploy
```

AML-Based Address Book JSP Pages

[Table 2-1](#) lists the AML-based JSP pages for the mobile address book application. This set is for devices for which output is to be generated using the rendering engine and will pass through the rendering engine prior to delivery to the mobile device. This table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second

column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

NOTE**Locating Java Server Pages**

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
- Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.

AML-based JSP pages for the mobile address book application are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/ab`
- `/opt/SUNWps/web-src/jsp/default/ab/aml`

Table 2-1 AML-Based Address Book JSP Pages

File Name	Includes	Linked From	Links To
abHome.jsp	not applicable	accept.jsp delete.jsp deleteGroup.jsp deleteGroupMembers.jsp doAdd.jsp doAddGroup.jsp doChange.jsp doChangeGroup.jsp launchAB.jsp list2.jsp options.jsp view.jsp	Forwards to: list.jsp

Table 2-1 AML-Based Address Book JSP Pages (Continued)

File Name	Includes	Linked From	Links To
accept.jsp	not applicable	delete.jsp deleteGroup.jsp deleteGroupMembers.jsp doAdd.jsp doAddGroup.jsp doChange.jsp doChangeGroup.jsp	abHome.jsp
add.jsp	edit.jsp	doAdd.jsp list.jsp list2.jsp	doAdd.jsp
addGroup.jsp	editGroup.jsp	list.jsp list2.jsp	addMembersOption.jsp
addMember.jsp	not applicable	addMembersOption.jsp	doAddMember.jsp
addMembersOption.jsp	options.jsp	addGroup.jsp changeGroupOptions.jsp doAddMember.jsp	addMember.jsp browseMemberChoices.jsp doAddGroup.jsp doChangeGroup.jsp searchMemberChoices.jsp
browseMemberChoices.jsp	not applicable	addMembersOption.jsp	Forwards to: pickMemberChoices.jsp
change.jsp	edit.jsp	doChange.jsp view.jsp	doChange.jsp
changeGroup.jsp	editGroup.jsp	viewGroup.jsp	changeGroupOptions.jsp
changeGroupOptions.jsp	options.jsp	changeGroup.jsp	addMembersOption.jsp doChangeGroup.jsp pickMembersToDel.jsp
delete.jsp	accept.jsp	view.jsp	abHome.jsp
deleteGroup.jsp	accept.jsp	viewGroup.jsp	abHome.jsp

Table 2-1 AML-Based Address Book JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
deleteGroupMembers.jsp	accept.jsp	pickMembersToDel.jsp	abHome.jsp
doAdd.jsp	accept.jsp	add.jsp	abHome.jsp add.jsp
doAddGroup.jsp	accept.jsp	addMembersOption.jsp doAddMember.jsp pickMemberChoices.jsp	abHome.jsp
doAddMember.jsp	not applicable	addMember.jsp	addMembersOption.jsp Forwards to: doAddGroup.jsp doChangeGroup.jsp pickMemberChoices.jsp
doChange.jsp	accept.jsp	change.jsp	abHome.jsp change.jsp
doChangeGroup.jsp	accept.jsp	addMembersOption.jsp changeGroupOptions.jsp doAddMember.jsp pickMemberChoices.jsp	abHome.jsp
doSearch.jsp	not applicable	search.jsp	Forwards to: list2.jsp
doSearchMemberChoices.jsp	not applicable	searchMemberChoices.jsp	Forwards to: pickMemberChoices.jsp
edit.jsp	not applicable	add.jsp change.jsp	not applicable
editGroup.jsp	not applicable	addGroup.jsp changeGroup.jsp	not applicable
emailcontacts.jsp	not applicable	viewGroup.jsp	Forwards to: compose.jsp
launchAB.jsp	not applicable	not applicable	Forwards to: abHome.jsp

Table 2-1 AML-Based Address Book JSP Pages (Continued)

File Name	Includes	Linked From	Links To
list.jsp	not applicable	list.jsp	add.jsp addGroup.jsp list.jsp search.jsp view.jsp viewGroup.jsp
list2.jsp	not applicable	doSearch.jsp list2.jsp	abHome.jsp add.jsp addGroup.jsp list2.jsp view.jsp viewGroup.jsp
options.jsp	not applicable	addMembersOption.jsp changeGroupOptions.jsp viewGroup.jsp	abHome.jsp
pickMemberChoices.jsp	not applicable	browseMemberChoices.jsp doAddMember.jsp doSearchMemberChoices.jsp pickMemberChoices.jsp	pickMemberChoices.jsp Forwards to: doAddGroup.jsp doChangeGroup.jsp
pickMembersToDel.jsp	not applicable	changeGroupOptions.jsp pickMembersToDel.jsp	pickMemberChoices.jsp pickMembersToDel.jsp Forwards to: deleteGroupMembers.jsp
search.jsp	not applicable	list.jsp	doSearch.jsp
searchMemberChoices.jsp	not applicable	addMembersOption.jsp	doSearchMemberChoices.jsp

Table 2-1 AML-Based Address Book JSP Pages (Continued)

File Name	Includes	Linked From	Links To
view.jsp	not applicable	list.jsp	abHome.jsp
		list2.jsp	change.jsp
			compose.jsp
			delete.jsp
viewGroup.jsp	options.jsp	list.jsp	changeGroup.jsp
		list2.jsp	deleteGroup.jsp
		viewGroup.jsp	emailcontacts.jsp
			viewGroup.jsp

WML-Based Address Book JSP Pages

[Table 2-2](#) lists the WML-based JSP pages for the mobile address book application. This set is for devices whose native markup is WML and will be delivered directly to the mobile device. This table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE

Locating Java Server Pages

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
- Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.

WML-based JSP pages for the mobile address book application are stored within the following directories:

- /opt/SUNWps/web-src/jsp/default/ab
- /opt/SUNWps/web-src/jsp/default/ab/wml

Table 2-2 WML-Based Address Book JSP Pages

File Name	Includes	Linked From	Links To
abHome.jsp	not applicable	accept.jsp changeGroup.jsp delete.jsp deleteGroup.jsp deleteGroupMembers.jsp doAdd.jsp doAddGroup.jsp doChange.jsp doChangeGroup.jsp launchAB.jsp list2.jsp options.jsp	Forwards to: list.jsp
accept.jsp	not applicable	addGroup.jsp addMember.jsp doAddGroup.jsp doChangeGroup.jsp	abHome.jsp
add.jsp	edit.jsp	list.jsp list2.jsp	list.jsp doAdd.jsp
addGroup.jsp	accept.jsp editGroup.jsp	list.jsp list2.jsp	addMembersOption.jsp
addMember.jsp	accept.jsp	addMembersOption.jsp	doAddMember.jsp
addMembersOption.jsp	options.jsp	addGroup.jsp changeGroupOptions.jsp doAddMember.jsp	addMember.jsp browseMemberChoices.jsp doAddGroup.jsp doChangeGroup.jsp searchMemberChoices.jsp

Table 2-2 WML-Based Address Book JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
browseMemberChoices.jsp	not applicable	addMembersOption.jsp	Forwards to: pickMemberChoices.jsp
change.jsp	edit.jsp	view.jsp	doChange.jsp list.jsp
changeGroup.jsp	editGroup.jsp	viewGroup.jsp	abHome.jsp changeGroupOptions.jsp
changeGroupOptions.jsp	options.jsp	changeGroup.jsp	addMembersOption.jsp doChangeGroup.jsp pickMembersToDel.jsp
delete.jsp	not applicable	view.jsp	abHome.jsp
deleteGroup.jsp	not applicable	viewGroup.jsp	abHome.jsp
deleteGroupMembers.jsp	not applicable	pickMembersToDel.jsp	abHome.jsp
doAdd.jsp	not applicable	add.jsp	abHome.jsp
doAddGroup.jsp	accept.jsp	addMembersOption.jsp doAddMember.jsp pickMemberChoices.jsp	abHome.jsp
doAddMember.jsp	not applicable	addMember.jsp	addMembersOption.jsp Forwards to: doAddGroup.jsp doChangeGroup.jsp pickMemberChoices.jsp
doChange.jsp	not applicable	change.jsp	abHome.jsp
doChangeGroup.jsp	accept.jsp	addMembersOption.jsp changeGroupOptions.jsp doAddMember.jsp pickMemberChoices.jsp	abHome.jsp
doSearch.jsp	not applicable	search.jsp	Forwards to: list2.jsp

Table 2-2 WML-Based Address Book JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
doSearchMemberChoices.jsp	not applicable	searchMemberChoices.jsp	Forwards to: pickMemberChoices.jsp
edit.jsp	not applicable	add.jsp change.jsp	not applicable
editGroup.jsp	not applicable	addGroup.jsp changeGroup.jsp	not applicable
emailcontacts.jsp	not applicable	viewGroup.jsp	Forwards to: compose.jsp
launchAB.jsp	not applicable	not applicable	Forwards to: abHome.jsp
list.jsp	not applicable	add.jsp change.jsp list.jsp list2.jsp search.jsp view.jsp	add.jsp addGroup.jsp list.jsp search.jsp view.jsp viewGroup.jsp
list2.jsp	not applicable	doSearch.jsp list2.jsp	abHome.jsp add.jsp addGroup.jsp list2.jsp view.jsp viewGroup.jsp
options.jsp	not applicable	addMembersOption.jsp changeGroupOptions.jsp pickMemberChoices.jsp pickMembersToDel.jsp searchMemberChoices.jsp viewGroup.jsp	abHome.jsp

Table 2-2 WML-Based Address Book JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
pickMemberChoices.jsp	options.jsp	browseMemberChoices.jsp p doAddMember.jsp doSearchMemberChoices.jsp pickMemberChoices.jsp	doAddGroup.jsp doChangeGroup.jsp pickMemberChoices.jsp
pickMembersToDel.jsp	options.jsp	changeGroupOptions.jsp pickMembersToDel.jsp	deleteGroupMembers.jsp pickMembersToDel.jsp
search.jsp	not applicable	list.jsp	doSearch.jsp list.jsp
searchMemberChoices.jsp	options.jsp	addMembersOption.jsp	doSearchMemberChoices.jsp
view.jsp	not applicable	list.jsp list2.jsp	change.jsp compose.jsp delete.jsp list.jsp
viewGroup.jsp	options.jsp	list.jsp list2.jsp viewGroup.jsp	changeGroup.jsp deleteGroup.jsp emailcontacts.jsp viewGroup.jsp

Mail Control Flow Reference Charts

This chapter lists all JavaServer™ Pages (JSP™) pages for the mobile mail application, with particular emphasis on how the pages link to each other.

This chapter contains the following tables:

- [AML-Based Mail JSP Pages](#)
- [WML-Based Mail JSP Pages](#)

NOTE Originally, the JSP pages are deployed using the Portal Server software's `deploy` command. Before changes to a JSP page can take effect, you must issue the Portal Server software's `deploy` command using the `redeploy` subcommand as follows:

```
portal_server_installation_root/SUNWps/bin/deploy redeploy
```

AML-Based Mail JSP Pages

[Table 3-1](#) lists the AML-based JSP pages for the mobile mail application. This set is for devices for which output is to be generated using the rendering engine and will pass through the rendering engine prior to delivery to the mobile device. This table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE**Locating Java Server Pages**

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
- Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.

AML-based JSP pages for the mobile mail application are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/mail`
- `/opt/SUNWps/web-src/jsp/default/mail/aml`

Table 3-1 AML-Based Mail JSP Pages

File Name	Includes	Linked From	Links To
<code>addpab.jsp</code>	not applicable	<code>menu.jsp</code>	<code>doAdd.jsp</code>
<code>attach.jsp</code>	not applicable	<code>message.jsp</code>	<code>message.jsp</code>
<code>collect.jsp</code>	not applicable	<code>pop.jsp</code>	<code>summary.jsp</code>
<code>compose.jsp</code>	not applicable	<code>pickaddr.jsp</code> <code>reply.jsp</code> <code>sent.jsp</code>	<code>presetMsg.jsp</code>
<code>delete.jsp</code>	not applicable	<code>menu.jsp</code>	<code>doInbox.jsp</code> <code>summary.jsp</code>
<code>delFd.jsp</code>	not applicable	<code>folderMenu.jsp</code>	<code>getfolders.jsp</code> <code>summary.jsp</code>
<code>doAdd.jsp</code>	not applicable	<code>addpab.jsp</code> <code>doAdd.jsp</code>	<code>doInbox.jsp</code> <code>summary.jsp</code>

Table 3-1 AML-Based Mail JSP Pages (Continued)

File Name	Includes	Linked From	Links To
doInbox.jsp	not applicable	delete.jsp doAdd.jsp folderMenu.jsp menu.jsp moveMsg.jsp sent.jsp summary.jsp views.jsp	Forwards to: inbox.jsp nomsg.jsp
doNewFd.jsp	not applicable	newFd.jsp	getfolders.jsp summary.jsp
doRename.jsp	not applicable	renameFd.jsp	getfolders.jsp summary.jsp
folderMenu.jsp	not applicable	folders.jsp	delFd.jsp doInbox.jsp renameFd.jsp
folders.jsp	not applicable	delFd.jsp doNewFd.jsp doRename.jsp folders.jsp getfolders.jsp menu.jsp summary.jsp	folderMenu.jsp folders.jsp getfolders.jsp moveMsg.jsp newFd.jsp summary.jsp
getfolders.jsp	not applicable	delFd.jsp doNewFd.jsp doRename.jsp folders.jsp menu.jsp summary.jsp	Forwards to: folders.jsp
getmsg.jsp	not applicable	inbox.jsp message.jsp	Forwards to: message.jsp

Table 3-1 AML-Based Mail JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
header.jsp	not applicable	menu.jsp	not applicable
inbox.jsp	not applicable	inbox.jsp	getmsg.jsp inbox.jsp views.jsp summary.jsp
launchMail.jsp	not applicable	not applicable	Forwards to: summary.jsp
menu.jsp	not applicable	message.jsp	addpab.jsp delete.jsp doInbox.jsp getfolders.jsp header.jsp pickaddr.jsp reply.jsp summary.jsp
message.jsp	not applicable	attach.jsp getmsg.jsp message.jsp	attach.jsp getmsg.jsp menu.jsp message.jsp
moveMsg.jsp	not applicable	folders.jsp	doInbox.jsp
newFd.jsp	not applicable	folders.jsp	doNewFd.jsp
nomsg.jsp	not applicable	not applicable	summary.jsp
pickaddr.jsp	not applicable	menu.jsp pickaddr.jsp summary.jsp	pickaddr.jsp Forwards to: compose.jsp
pop.jsp	not applicable	summary.jsp	collect.jsp
presetMsg.jsp	not applicable	compose.jsp typeMsg.jsp	typeMsg.jsp
renameFd.jsp	not applicable	folderMenu.jsp	doRename.jsp

Table 3-1 AML-Based Mail JSP Pages (Continued)

File Name	Includes	Linked From	Links To
reply.jsp	not applicable	menu.jsp	compose.jsp
sent.jsp	not applicable	typeMsg.jsp	compose.jsp doInbox.jsp summary.jsp
summary.jsp	not applicable	collect.jsp delete.jsp delFd.jsp doAdd.jsp doNewFd.jsp doRename.jsp folders.jsp inbox.jsp launchMail.jsp menu.jsp nomsg.jsp sent.jsp	doInbox.jsp getfolders.jsp pickaddr.jsp pop.jsp view.jsp
typeMsg.jsp	not applicable	presetMsg.jsp	sent.jsp
views.jsp	not applicable	inbox.jsp summary.jsp	doInbox.jsp

WML-Based Mail JSP Pages

Table 3-2 lists the WML-based JSP pages for the mobile mail application. This set is for devices whose native markup is WML and will be delivered directly to the mobile device. This table contains four columns: File Name, Includes, Linked From, and Links to. The first column, File Name, lists the name of the source file. The second column, Includes, specifies whether or not the page includes code from another using the `<util:include>` tag. The third column, Linked From, tells which pages point to the file in question. The fourth column, Links To, shows which files the file in question links to, using `<util:link>` or `<util:forward>`.

Location of Files: When locating JSP pages, keep in mind the look up rules as described in the following note.

NOTE**Locating Java Server Pages**

- Specific resource lookup rules apply when the `comp` and `file` attributes are used in conjunction with the `url`, `include`, and `forward` tags. The `comp` and `file` attributes are parameters to the lookup process. See the Utility Tag Library (`util`) in the *Portal Server Mobile Access Tag Reference Library* for more information on these resource lookup rules.
- Certain directories contain JSP pages optimized for particular back-end services. For example, the “notes” directory corresponds to the Louts Notes service while the “sun-one” directory corresponds to Sun Java System service.

WML-based JSP pages for the mobile mail application are stored within the following directories:

- `/opt/SUNWps/web-src/jsp/default/mail`
- `/opt/SUNWps/web-src/jsp/default/mail/wml`

Table 3-2 WML-Based Mail JSP Pages

File Name	Includes	Linked From	Links To
<code>addpab.jsp</code>	<code>edit.jsp</code> <code>options.jsp</code>	<code>message.jsp</code>	<code>doAdd.jsp</code>
<code>attach.jsp</code>	not applicable	<code>message.jsp</code>	<code>message.jsp</code>
<code>cancel.jsp</code>	not applicable	<code>compose.jsp</code> <code>reply.jsp</code>	<code>doInbox.jsp</code> <code>summary.jsp</code>
<code>collect.jsp</code>	not applicable	<code>pop.jsp</code>	<code>summary.jsp</code>
<code>compose.jsp</code>	<code>composegui.jsp</code> <code>options.jsp</code>	<code>composegui.jsp</code> <code>pickaddr.jsp</code>	<code>cancel.jsp</code>
<code>composegui.jsp</code>	not applicable	<code>compose.jsp</code> <code>reply.jsp</code>	<code>sent.jsp</code>
<code>delFd.jsp</code>	not applicable	<code>folders.jsp</code>	<code>getfolders.jsp</code>
<code>delete.jsp</code>	not applicable	<code>message.jsp</code>	<code>doInbox.jsp</code>
<code>doAdd.jsp</code>	not applicable	<code>addpab.jsp</code> <code>doAdd.jsp</code>	<code>doInbox.jsp</code>

Table 3-2 WML-Based Mail JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
doInbox.jsp	not applicable	cancel.jsp delete.jsp doAdd.jsp folders.jsp message.jsp moveMsg.jsp sent.jsp summary.jsp views.jsp	Forwards to: inbox.jsp nomsg.jsp
doNewFd.jsp	not applicable	newFd.jsp	getfolders.jsp
doRename.jsp	not applicable	renameFd.jsp	getfolders.jsp
folders.jsp	not applicable	delFd.jsp doNewFd.jsp doRename.jsp folders.jsp message.jsp summary.jsp	delFd.jsp doInbox.jsp folders.jsp getfolders.jsp moveMsg.jsp newFd.jsp renameFd.jsp summary.jsp
getfolders.jsp	not applicable	delFd.jsp doNewFd.jsp doRename.jsp folders.jsp message.jsp summary.jsp	Forwards to: folders.jsp
getmsg.jsp	not applicable	inbox.jsp message.jsp	Forwards to: message.jsp
header.jsp	options.jsp	message.jsp	message.jsp

Table 3-2 WML-Based Mail JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
inbox.jsp	options.jsp	doInbox.jsp inbox.jsp	getmsg.jsp inbox.jsp views.jsp
launchMail.jsp	not applicable	not applicable	Forwards to: summary.jsp
message.jsp	options.jsp	attach.jsp getmsg.jsp header.jsp message.jsp	addpab.jsp attach.jsp delete.jsp doInbox.jsp getfolders.jsp getmsg.jsp header.jsp message.jsp pickaddr.jsp reply.jsp
moveMsg.jsp	not applicable	folders.jsp	doInbox.jsp
newFd.jsp	not applicable	folders.jsp	doNewFd.jsp
nomsg.jsp	not applicable	doInbox.jsp	summary.jsp
options.jsp	not applicable	addpab.jsp compose.jsp header.jsp inbox.jsp message.jsp pickaddr.jsp reply.jsp	summary.jsp
pickaddr.jsp	options.jsp	message.jsp pickaddr.jsp summary.jsp	pickaddr.jsp compose.jsp Forwards to: compose.jsp

Table 3-2 WML-Based Mail JSP Pages *(Continued)*

File Name	Includes	Linked From	Links To
pop.jsp	not applicable	summary.jsp	collect.jsp summary.jsp
renameFd.jsp	not applicable	folders.jsp	doRename.jsp
reply.jsp	composegui.jsp options.jsp	composegui.jsp message.jsp	cancel.jsp
sent.jsp	not applicable	composegui.jsp	doInbox.jsp summary.jsp
summary.jsp	not applicable	cancel.jsp collect.jsp folders.jsp launchMail.jsp nomsg.jsp options.jsp pop.jsp sent.jsp views.jsp	doInbox.jsp getfolders.jsp pickaddr.jsp pop.jsp views.jsp
views.jsp	not applicable	inbox.jsp summary.jsp	doInbox.jsp summary.jsp

Common Voice Prompts

This chapter lists the commonly used voice prompts that are not specific to any particular voice application. This chapter contains the following sections:

- [Integers](#)
- [Quantities](#)
- [Days of Month](#)
- [Days of Week](#)
- [Months of Year](#)
- [Relative Dates](#)
- [Times of Day](#)
- [Miscellaneous](#)

Integers

[Table 4-1](#) lists integer voice prompts. The first column specifies the voice prompt file name, and the second column lists the spoken prompt phrase.

Table 4-1 Integer Voice Prompts

File Name	Prompt Phrase
0.wav	zero
1.wav	one
2.wav	two
3.wav	three

Table 4-1 Integer Voice Prompts *(Continued)*

File Name	Prompt Phrase
4.wav	four
5.wav	five
6.wav	six
7.wav	seven
8.wav	eight
9.wav	nine
10.wav	ten
11.wav	eleven
12.wav	twelve
13.wav	thirteen
14.wav	fourteen
15.wav	fifteen
16.wav	sixteen
17.wav	seventeen
18.wav	eighteen
19.wav	nineteen
20.wav	twenty
21.wav	twenty-one
22.wav	twenty-two
23.wav	twenty-three
24.wav	twenty-four
25.wav	twenty-five
26.wav	twenty-six
27.wav	twenty-seven
28.wav	twenty-eight
29.wav	twenty-nine
30.wav	thirty
31.wav	thirty-one

Table 4-1 Integer Voice Prompts *(Continued)*

File Name	Prompt Phrase
32 .wav	thirty-two
33 .wav	thirty-three
34 .wav	thirty-four
35 .wav	thirty-five
36 .wav	thirty-six
37 .wav	thirty-seven
38 .wav	thirty-eight
39 .wav	thirty-nine
40 .wav	forty
41 .wav	forty-one
42 .wav	forty-two
43 .wav	forty-three
44 .wav	forty-four
45 .wav	forty-five
46 .wav	forty-six
47 .wav	forty-seven
48 .wav	forty-eight
49 .wav	forty-nine
50 .wav	fifty
51 .wav	fifty-one
52 .wav	fifty-two
53 .wav	fifty-three
54 .wav	fifty-four
55 .wav	fifty-five
56 .wav	fifty-six
57 .wav	fifty-seven
58 .wav	fifty-eight
59 .wav	fifty-nine

Table 4-1 Integer Voice Prompts *(Continued)*

File Name	Prompt Phrase
60.wav	sixty
61.wav	sixty-one
62.wav	sixty-two
63.wav	sixty-three
64.wav	sixty-four
65.wav	sixty-five
66.wav	sixty-six
67.wav	sixty-seven
68.wav	sixty-eight
69.wav	sixty-nine
70.wav	seventy
71.wav	seventy-one
72.wav	seventy-two
73.wav	seventy-three
74.wav	seventy-four
75.wav	seventy-five
76.wav	seventy-six
77.wav	seventy-seven
78.wav	seventy-eight
79.wav	seventy-nine
80.wav	eighty
81.wav	eighty-one
82.wav	eighty-two
83.wav	eighty-three
84.wav	eighty-four
85.wav	eighty-five
86.wav	eighty-six
87.wav	eighty-seven

Table 4-1 Integer Voice Prompts *(Continued)*

File Name	Prompt Phrase
88.wav	eighty-eight
89.wav	eighty-nine
90.wav	ninety
91.wav	ninety-one
92.wav	ninety-two
93.wav	ninety-three
94.wav	ninety-four
95.wav	ninety-five
96.wav	ninety-six
97.wav	ninety-seven
98.wav	ninety-eight
99.wav	ninety-nine
100.wav	one hundred
1000.wav	one thousand
10000.wav	ten thousand

Quantities

[Table 4-2](#) lists quantity voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-2 Quantity Voice Prompts

File Name	Prompt Text
hundred.wav	hundred
thousand.wav	thousand
million.wav	million
billion.wav	billion
hundredth.wav	hundredth
thousandth.wav	thousandth

Table 4-2 Quantity Voice Prompts (*Continued*)

File Name	Prompt Text
millionth.wav	millionth

Days of Month

[Table 4-3](#) lists days of month voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-3 Days of Month Voice Prompts

File Name	Prompt Text
first.wav	first
second.wav	second
third.wav	third
fourth.wav	fourth
fifth.wav	fifth
sixth.wav	sixth
seventh.wav	seventh
eighth.wav	eighth
ninth.wav	ninth
tenth.wav	tenth
eleventh.wav	eleventh
twelfth.wav	twelfth
thirteenth.wav	thirteenth
fourteenth.wav	fourteenth
fifteenth.wav	fifteenth
sixteenth.wav	sixteenth
seventeenth.wav	seventeenth
eighteenth.wav	eighteenth
nineteenth.wav	nineteenth
twentieth.wav	twentieth

Table 4-3 Days of Month Voice Prompts (*Continued*)

File Name	Prompt Text
twenty_first.wav	twenty-first
twenty_second.wav	twenty-second
twenty_third.wav	twenty-third
twenty_fourth.wav	twenty-fourth
twenty_fifth.wav	twenty-fifth
twenty_sixth.wav	twenty-sixth
twenty_seventh.wav	twenty-seventh
twenty_eighth.wav	twenty-eighth
twenty_ninth.wav	twenty-ninth
thirtieth.wav	thirtieth
thirty_first.wav	thirty-first
fortieth.wav	fortieth
fiftieth.wav	fiftieth
sixtieth.wav	sixtieth
seventieth.wav	seventieth
eightieth.wav	eightieth
ninetieth.wav	ninetieth

Days of Week

[Table 4-4](#) lists days of week voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-4 Days of Week Voice Prompts

File Name	Prompt Text
monday.wav	monday
tuesday.wav	tuesday
wednesday.wav	wednesday
thursday.wav	thursday

Table 4-4 Days of Week Voice Prompts *(Continued)*

File Name	Prompt Text
friday.wav	friday
saturday.wav	saturday
sunday.wav	sunday

Months of Year

[Table 4-5](#) lists months of year voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-5 Months of Year Voice Prompts

File Name	Prompt Text
january.wav	january
february.wav	february
march.wav	march
april.wav	april
may.wav	may
june.wav	june
july.wav	july
august.wav	august
september.wav	september
october.wav	october
november.wav	november
december.wav	december

Relative Dates

[Table 4-6](#) lists relative date voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-6 Relative Dates Voice Prompts

File Name	Prompt Text
day_before_yesterday.wav	day before yesterday
yesterday.wav	yesterday
today.wav	today
tomorrow.wav	tomorrow
day_after_tomorrow.wav	day after tomorrow

Times of Day

[Table 4-7](#) lists time of day voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-7 Time of Day Voice Prompts

File Names	Prompt Text
am.wav	AM
pm.wav	PM
oh.wav	o'
clock.wav	clock

Miscellaneous

Table 4-7 lists miscellaneous voice prompts. The first column specifies the voice prompt file name, and the second column lists the prompt text.

Table 4-8 Miscellaneous Voice Prompts

File Names	Prompt Text
a.wav	a
address_book.wav	address book
address_book_open.wav	address book open
address_book_or_say_dial_a_number_to_find_out_more.wav	address book or say dial a number to find out more
again_heres_the_list_you_can_choose_from.wav	again, here's the list you can choose from:
all_right_let_me_get_that_again.wav	All right; let me get that again.
an.wav	an
and.wav	and
ask_me_to_call_someone_in_your.wav	ask me to call someone in your
at_home.wav	at home
at_which_number_work_home_or_cell.wav	at which number—work, home, or cell?
at_work.wav	at work
business.wav	business
calling.wav	calling
calling_the_cell_number_for.wav	calling the cell number for
calling_the_cell_phone_number_for.wav	calling the cell phone number for
did_you_want.wav	did you want
did_you_want_to_make_this_call.wav	Did you want to make this call?
did_you_want_to_make_this_call_please_say_yes_or_n.wav	Did you want to make this call? Please say yes or no.
finally_you_can_switch_to_another_address_book_if_.wav	Finally, you can switch to another address book if you have one available. Just say open my and then the name of the address book you want.

Table 4-8 Miscellaneous Voice Prompts *(Continued)*

File Names	Prompt Text
first_you_can_ask_me_to_call_someone_in_the_address_book.wav	First, you can ask me to call someone in the address book you have.
home.wav	home
i_found_more_than_one_person_with_the_name_i_heard.wav	I found more than one person with the name I heard. Please tell me which one you wanted. Here's the list again:
i_have_home_and_cell_numbers_for_the_name_i_heard.wav	I have home and cell numbers for the name I heard. Tell me which one you'd like, or to cancel this call, say cancel.
i_have_work_and_cell_numbers_for_the_name_i_heard.wav	I have work and cell numbers for the name I heard. Tell me which one you'd like, or to cancel this call, say cancel.
i_have_work_and_home_numbers_for_the_name_i_heard.wav	I have work and home numbers for the name I heard. Tell me which one you'd like, or to cancel this call, say cancel.
i_have_work_home_and_cell_numbers_for_the_name_i_heard.wav	I have work and home and cell numbers for the name I heard. Tell me which one you'd like, or to cancel this call, say cancel.
ive_got_your.wav	I've got your
next_you_can_just_ask_me_to_call_a_phone_number_just_dial_a_number.wav	Next you can just ask me to call a phone number. Just say dial a number.
no_problem.wav	no problem
ok_exclamation.wav	OK!
ok_hang_on.wav	OK, hang on.
ok_hold_on.wav	OK, hold on.
ok_my_mistake.wav	OK, my mistake.
on.wav	on
or_none_of_these.wav	or none of these
please_enter_your_selection_on_the_telephone_keypad_or_main_menu.wav	Please enter your selection on the telephone keypad, or say main menu.
please_say_one_of_these_names_or_say_none_of_these.wav	Please say one of these names, or say none of these
please_say_or_key_in_the_10_digit_number_you_want_to_call.wav	Please say or key in the 10-digit number you want to call.

Table 4-8 Miscellaneous Voice Prompts *(Continued)*

File Names	Prompt Text
please_say_yes_or_no.wav	Please say yes or no.
press_0_for.wav	Press 0 for
press_1_for.wav	Press 1 for
press_2_for.wav	Press 2 for
press_3_for.wav	Press 3 for
press_4_for.wav	Press 4 for
press_5_for.wav	Press 5 for
press_6_for.wav	Press 6 for
press_7_for.wav	Press 7 for
press_8_for.wav	Press 8 for
press_9_for.wav	Press 9 for
say_or_key_in_the_number_you_want_to_call_starting.wav	Say (or key in) the number you want to call, starting with the area code, or to cancel this call, say cancel.
say_yes_if_you_wanted_me_to_connect_you_or_just_sa.wav	Say yes if you wanted me to connect you or just say cancel if you want to go back to the address book menu and start over. Whenever you want, you can also say main menu to leave the address book channel.
say_yes_if_you_wanted_me_to_connect_you_or_no_if_y.wav	Say yes if you wanted me to connect you, or no if you want to cancel; do you want to make this call?
school.wav	school
sorry_but_i_dont_have_a_cell_number_for.wav	Sorry, but I don't have a cell number for
sorry_but_i_dont_have_a_home_number_for.wav	Sorry, but I don't have a home number for
sorry_but_i_dont_have_a_work_number_for.wav	Sorry, but I don't have a work number for
sorry_but_theres_a_problem_with_the_system_right_B.wav	Sorry but there's a problem with the system right now. Please hang up and call back.
sports.wav	sports

Table 4-8 Miscellaneous Voice Prompts *(Continued)*

File Names	Prompt Text
sun.wav	Sun
sure_whats_the_number.wav	Sure, what's the number?
theres_more_than_one_entry_for_the_name_i_heard.wav	There's more than one entry for the name I heard.
what_can_i_do_for_you.wav	What can I do for you?
what_would_you_like_to_do.wav	What would you like to do?
when_youre_done_say_open_my.wav	When you're done, say open my
which_phone_number_did_you_want_to_call_home_or_ce.wav	Which phone number did you want to call: home, or cell?
which_phone_number_did_you_want_to_call_work_home_.wav	Which phone number did you want to call: work, or home?
which_phone_number_did_you_want_to_call_work_or_ce.wav	Which phone number did you want to call: work, or cell?
which_phone_number_did_you_want_to_call_work_or_ho.wav	Which phone number did you want to call: work or home?
youre_at_the_address_book_menu.wav	You're at the address book menu.
youre_back_at_the_address_book_menu.wav	You're back at the address book menu.

Miscellaneous

Authentication and Channel Chooser Voice Prompts

This chapter identifies authentication and channel chooser voice prompts.

[Table 5-1](#) lists them. It contains two columns. The first column lists the prompt file name, and the second column lists the spoken phrase.

Table 5-1 Authentication and Channel Chooser Voice Prompts

File Name	Prompt Text
<code>this_is_voice_portal_by_sun.wav</code>	This is voice portal, by Sun.
<code>please_say_or_key_in_your_account_number.wav</code>	Please say (or key in) your account number.
<code>sorry_but_the_the_pin.wav</code>	Sorry, but the PIN
<code>doesnt_match_the_account_number.wav</code>	doesn't match the account number
<code>if_i_got_that_wrong_please_say_or_key_in_the_corre.wav</code>	If I got that wrong, please say (or key in) the correct account number again.
<code>if_i_got_that_wrong_again_please_say_or_key_in_the.wav</code>	If I got that wrong again, please say (or key in) the correct account number one more time.
<code>sorry_i_didnt_get_that.wav</code>	Sorry, I didn't get that.
<code>sorry_i_still_didnt_get_that.wav</code>	Sorry, I still didn't get that.
<code>i_need_to_get_your_account_number_that_was_used_to.wav</code>	I need to get your account number that was used to set up your account. Please say that number (or just key it in)—or for more information, say <i>help</i> .
<code>sorry_i_didnt_hear_anything.wav</code>	Sorry, I didn't hear anything.
<code>sorry_i_still_didnt_hear_anything.wav</code>	Sorry, I still didn't hear anything.

Table 5-1 Authentication and Channel Chooser Voice Prompts (Continued)

File Name	Prompt Text
ok_heres_some_help.wav	OK, here's some help.
i_need_to_get_your_account_number_its_the_number_t.wav	I need to get your account number—it's the number that was assigned to you when your account was set up.
if_you_dont_remember_it_contact_the_system_adminis.wav	If you don't remember it, contact the system administrator. Otherwise, say your account number digit by digit, or key it in.
say_your_account_number_or_for_more_information_sa.wav	Say your account number, or for more information, say <i>help</i> .
got_it.wav	Got it.
and_whats_your_pin.wav	And what's your PIN?
and_what_was_your_pin.wav	And what was your PIN?
please_say_or_key_in_your_pin.wav	Please say (or key in) your PIN.
again_please_enter_your_pin_or_for_more_informatio.wav	Again, please enter your PIN, or for more information, say <i>help</i> .
please_enter_your_pin_or_for_more_information_say_.wav	Please enter your PIN, or for more information, say <i>help</i> .
to_sign_you_in_i_need_to_get_the_pin_assigned_to_y.wav	To sign you in, I need to get the PIN assigned to you when your account was set up.
if_you_dont_remember_it_contact_the_system_adminis.wav	If you don't remember it, contact the system administrator. If you do, just key it in.
say_or_key_in_your_pin_or_for_more_information_say.wav	Say or key in your PIN, or for more information, say <i>help</i> .
hello.wav	Hello
youre_signed_in.wav	You're signed in.
thanks_for_calling_voice_portal_gbye.wav	Thanks for calling Voice Portal. G'bye.
sorry_but_i_wasnt_able_to_log_you_in_please_hang_u.wav	Sorry, but I wasn't able to log you in. Please hang up and call back, or contact the system administrator.
sorry_but_something_went_wrong_and_ill_need_to_sta.wav	Sorry, but something went wrong, and I'll need to start again.

Table 5-1 Authentication and Channel Chooser Voice Prompts *(Continued)*

File Name	Prompt Text
sorry_but_theres_a_problem_with_the_system_right_n.wav	Sorry, but there's a problem with the system right now. Please hang up and call back later.
ok_canceled.wav	OK, canceled.
ok_were_back_at_the_portal_main_menu.wav	OK; we're back at the Portal main menu.
ok.wav	OK
sure.wav	Sure
heres_the_list_of_channels_you_can_add.wav	here's the list of channels you can add:
thats_it.wav	That's it.
tell_me_which_one_you_want_to_add_or_say_cancel.wav	Tell me which one you want to add, or say <i>cancel</i> .
please_say_the_name_of_the_channel_you_want_to_add.wav	Please say the name of the channel you want to add, or to hear the list again, say <i>what are my choices</i> .
sorry_but_i_still_didnt_get_that.wav	Sorry, but I still didn't get that.
please_add_one_of_these_channels.wav	Please add one of these channels
tell_me_which_channel_you_want_to_add_or_say_cance.wav	Tell me which channel you want to add, or say <i>cancel</i> .
here_are_the_portal_channels_you_can_add.wav	Here are the portal channels you can add
say_one_of_these_channels_or_say_cancel.wav	Say one of these channels, or say <i>cancel</i> .
which_would_you_like.wav	Which would you like?
were_in_the_process_of_adding_a_channel.wav	We're in the process of adding a channel.
you_can_say_the_name_of_any_of_any_of_the_channels.wav	You can say the name of any of any of the channels you can add, or to hear the list again, say <i>what are my choices</i> .
if_you_didnt_want_to_add_a_channel_say_cancel.wav	If you didn't want to add a channel, say <i>cancel</i> .
theres_one_more_channel_you_can_add.wav	There's one more channel you can add
would_you_like_to_add_it.wav	Would you like to add it?
did_you_want_to_add.wav	Did you want to add
to_your_personalized_list_of_channels.wav	to your personalized list of channels?

Table 5-1 Authentication and Channel Chooser Voice Prompts (Continued)

File Name	Prompt Text
did_you_want_to_add_this_channel_please_say_yes_or.wav	Did you want to add this channel? Please say <i>yes</i> or <i>no</i> , or say <i>help</i> .
to_your_list_of_channels_at_the_main_menu.wav	to your list of channels at the main menu?
please_say_yes_or_no_or_say_help.wav	Please say <i>yes</i> or <i>no</i> , or say <i>help</i> .
right_now_were_in_the_process_of_adding_a_channel_.wav	Right now, we're in the process of adding a channel to your list of channels at the main menu.
theres_just_one_more_channel_you_can_add.wav	There's just one more channel you can add:
did_you_want_to_add_it_please_say_yes_or_no.wav	Did you want to add it? Please say <i>yes</i> or <i>no</i> .
ok_its_been_removed.wav	OK; it's been removed.
sorry_but_there_are_no_channels_that_can_be_remove.wav	Sorry, but there are no channels that can be removed.
has_been_added.wav	has been added.
all_right_its_been_added.wav	All right; it's been added.
ok_this_channel_was_not_removed.wav	OK; this channel was not removed.
i_think_you_said_goodbye_are_you_sure_youre_all_do.wav	I think you said goodbye. Are you sure you're all done?
are_you_all_done_with_this_call_say_yes_or_no.wav	Are you all done with this call? Say <i>yes</i> or <i>no</i> .
are_you_all_done_with_this_call_if_you_are_say_yes.wav	Are you all done with this call? If you are, say <i>yes</i> or just hang up. If not, say <i>no</i> .
i_think_you_had_said_goodbye_but_im_not_completely.wav	I think you had said goodbye, but I'm not completely sure. Before we hang up, I wanted to confirm— are you all done with this call?
just_to_confirm_you_want_to_remove_this_channel.wav	Just to confirm—you want to remove this channel
did_i_get_that_right.wav	Did I get that right?
did_you_want_to_remove_this_channel.wav	Did you want to remove this channel?
from_the_list_of_channels_at_the_main_menu_please_.wav	from the list of channels at the main menu? Please say <i>yes</i> or <i>no</i> .
im_trying_to_confirm_do_you_want_to_remove.wav	I'm trying to confirm—do you want to remove

Table 5-1 Authentication and Channel Chooser Voice Prompts *(Continued)*

File Name	Prompt Text
from_the_list_of_channels_at_the_main_menu.wav	from the list of channels at the main menu?
please_say_yes_if_you_do_or_no_if_you_dont.wav	Please say <i>yes</i> if you do, or <i>no</i> if you don't.
please_say_yes_or_no_or_say_main_menu.wav	Please say <i>yes</i> or <i>no</i> , or say <i>main menu</i> .
would_you_like_to_go_there.wav	Would you like to go there?
did_you_want_to_go_to_this_channel.wav	Did you want to go to this channel?
i_just_added_this_channel.wav	I just added this channel
would_you_like_to_go_there_please_say_yes_or_no.wav	Would you like to go there? Please say <i>yes</i> or <i>no</i> .
you_can_say_yes_and_ill_take_you_to_the_channel_yo.wav	You can say <i>yes</i> and I'll take you to the channel you just added, or say <i>no</i> and I'll take you back to the main menu. Did you want to go to this channel?
we_just_added_a_channel_to_the_list_of_channels_at.wav	We just added a channel to the list of channels at the main menu. Did you want to go there?
please_say_yes_if_you_want_to_go_there_or_no_if_yo.wav	Please say <i>yes</i> if you want to go there, or <i>no</i> if you don't. And remember, at any time, you can say <i>main menu</i> .
you_bet.wav	You bet
you_got_it.wav	You got it
great.wav	Great
when_youre_done_say_main_menu.wav	When you're done, say <i>main menu</i> .
hang_on.wav	Hang on.
just_a_moment.wav	Just a moment
hold_on.wav	Hold on...
here_are_the_portal_channels_you_can_choose_from.wav	Here are the portal channels you can choose from:
you_can_also_say_add_a_channel.wav	You can also say <i>add a channel</i> .
what_can_i_get_for_you.wav	What can I get for you?
what_channel_would_you_like_next.wav	What channel would you like next?
what_else_can_i_get_for_you.wav	What else can I get for you?

Table 5-1 Authentication and Channel Chooser Voice Prompts (Continued)

File Name	Prompt Text
whats_next.wav	What's next?
which_channel_do_you_want.wav	Which channel do you want?
which_channel_would_you_like.wav	Which channel would you like?
please_say_the_name_of_a_channel_or_to_hear_the_li.wav	Please say the name of a channel, or to hear the list again, say <i>what are my choices</i> .
please_say_one_of_these_channels.wav	Please say one of these channels:
you_can_also_say_add_a_channel_mid_.wav	You can also say <i>add a channel</i> ,...
or_to_find_out_more_say_help.wav	or to find out more, say <i>help</i> .
please_say_the_name_of_a_channel_or_say_what_are_m.wav	Please say the name of a channel, or say <i>what are my choices</i> .
you_can_also_say_add_a_channel_or_remove_a_channel.wav	You can also say <i>add a channel</i> or <i>remove a channel</i> .
were_at_the_portal_main_menu_here_you_can_choose_f.wav	We're at the portal main menu. Here you can choose from your personalized list of channels—just say the name of a channel, and I'll take you there.
and_when_youre_done_you_can_say_main_menu_to_come_.wav	And when you're done, you can say <i>main menu</i> to come right back.
you_can_also_customize_your_list_of_channels_just_.wav	You can also customize your list of channels, just like on the web. All you need to do is say <i>add a channel</i> or <i>remove a channel</i> .
now_what_can_i_help_you_with.wav	Now, what can I help you with?
sorry_but_there_are_no_more_channels_we_can_add_ri.wav	Sorry, but there are no more channels we can add right now.
sorry_but_i_wasnt_able_to_do_that_just_now.wav	Sorry, but I wasn't able to do that just now.
all_right.wav	All right;
you_can_remove_any_of_these_channels.wav	You can remove any of these channels:
which_channel_would_you_like_to_remove.wav	Which channel would you like to remove?
tell_me_which_one_you_want_to_remove_or_say_cancel.wav	Tell me which one you want to remove, or say <i>cancel</i>

Table 5-1 Authentication and Channel Chooser Voice Prompts *(Continued)*

File Name	Prompt Text
say_the_name_of_the_channel_you_want_to_remove_or_.wav	Say the name of the channel you want to remove, or say <i>what are my choices</i> , <i>cancel</i> , or <i>main menu</i> .
right_now_were_in_the_process_of_removing_one_of_t.wav	Right now, we're in the process of removing one of the channels from the main menu.
to_remove_a_channel_tell_me_which_one_you_want_to_.wav	To remove a channel, tell me which one you want to remove.
if_you_want_to_hear_the_list_of_channels_you_can_r.wav	If you want to hear the list of channels you can remove, say <i>what are my choices</i> .
and_if_you_dont_want_to_remove_a_channel_right_now.wav	And if you don't want to remove a channel right now, say <i>cancel</i> .
were_back_at_the_portal_main_menu.wav	We're back at the portal main menu.
ok_lets_start_over.wav	OK, let's start over.
sorry_but_theres_a_problem_with_the_system_right_n.wav	Sorry, but there's a problem with the system right now. Please hang up and call back.
sorry_but_something_went_wrong_and_ill_need_to_tak.wav	Sorry, but something went wrong, and I'll need to take you back to the Portal main menu.
im_sorry_were_having_trouble_lets_try_again_from_t.wav	I'm sorry we're having trouble. Let's try again from the top.
sorry_but_i_couldnt_remove_the_channel.wav	Sorry, but I couldn't remove the channel:
its_marked_as_nonremovable.wav	It's marked as non-removable.
you_dont_have_any_portal_channels_in_your_list_to_.wav	You don't have any portal channels in your list. To add one, say <i>add a channel</i> . What would you like to do?
to_use_voice_portal_you_need_to_add_some_portal_ch.wav	To use Voice Portal, you need to add some portal channels you can go to. To get started just say <i>add a channel</i> .
to_get_started_just_say_add_a_channel.wav	To get started, just say <i>add a channel</i> .

Notes, Personal Notes and Mail Provider Voice Prompts

This chapter identifies notes, personal notes, and multiple email provider prompts.

[Table 6-1](#) lists them. It contains two columns. The first column lists the prompt file name, and the second column lists the spoken phrase.

Table 6-1 Notes, Personal Notes and Mail Provide Voice Prompts

File Name	Prompt Phrase
again.wav	again
aol.wav	aol
chime_01.wav	chime 01
earthlink.wav	Earthlink
here_are_some_of_the_things_you_can_say.wav	Here are some of the things you can say:
here_are_your_notes.wav	Here are your notes:
here_are_your_personal_notes.wav	Here are your personal notes:
hold_on_while_i_get_your_email_from.wav	Hold on while I get your email from
hotmail.wav	Hotmail
msn.wav	MSN
note.wav	Note:
note_1.wav	Note 1:
note_2.wav	Note 2:
note_3.wav	Note 3:

Table 6-1 Notes, Personal Notes and Mail Provide Voice Prompts *(Continued)*

File Name	Prompt Phrase
note_4.wav	Note 4:
note_5.wav	Note 5:
note_6.wav	Note 6:
note_7.wav	Note 7:
note_8.wav	Note 8:
note_9.wav	Note 9:
notes.wav	Notes:
or_to_leave_the_email_channel_say_main_menu.wav	or, to leave the email channel, say <i>main menu</i>
personal.wav	personal
please_select_the_email_provider_you_want.wav	Please select the email provider you want.
press_0_for_email_from.wav	Press 0 for email
press_1_for_email_from.wav	Press 1 for email
press_2_for_email_from.wav	Press 2 for email
press_3_for_email_from.wav	Press 3 for email
press_4_for_email_from.wav	Press 4 for email
press_5_for_email_from.wav	Press 5 for email
press_6_for_email_from.wav	Press 6 for email
press_7_for_email_from.wav	Press 7 for email
press_8_for_email_from.wav	Press 8 for email
press_9_for_email_from.wav	Press 9 for email
theres_more_than_one_email_provider_you_can_check.wav	There's more than one email provider you can check.
to_hear_your_notes_again_say_repeat_or_if_you.wav	To hear your notes again, say <i>repeat</i> , or if you're done, say <i>main menu</i> .
to_hear_your_notes_again_say_repeat_or_if_youre_do.wav	To hear your notes again, say <i>repeat</i> , or if you're done with your notes, say <i>main menu</i> .
to_hear_your_personal_notes_again_just_say_repeat_or_if_youre_done_say_main_menu.wav	To hear your personal notes again just say <i>repeat</i> , or if you're done, say <i>main menu</i> .

Table 6-1 Notes, Personal Notes and Mail Provide Voice Prompts *(Continued)*

File Name	Prompt Phrase
to_hear_your_personal_notes_again_just_say_repeat_or_if_youre_done_with_your.wav	To hear your personal notes again just say <i>repeat</i> , or if you're done with your personal notes, say <i>main menu</i> .
work.wav	work
yahoo.wav	Yahoo
you_can_also_say_none_of_these_or_main_menu.wav	You can also say <i>none of these</i> or <i>main menu</i> .
you_dont_have_any_personal_notes_right_now_lets_go_back.wav	You don't have any personal notes right now. Let's go back.

Calendar Voicelet Prompts

This chapter lists calendar voicelet prompts provided in this release.

[Table 7-1](#) lists them. It contains two columns. The first column lists the prompt file name, and the second column lists the spoken phrase.

Table 7-1 Calendar Voicelet Prompts

File Name	Prompt Phase
after_each_appointment_you_can_also_ask_me_to_repe.wav	After each appointment, you can also ask me to <i>repeat it</i> , <i>reschedule it</i> , or <i>delete it</i> . Say one of these commands, or hang on to move to the next appointment in the list.
and_what_time.wav	And what time?
appointment.wav	Appointment...
appointment_1.wav	Appointment 1
appointment_2.wav	Appointment 2
appointment_3.wav	Appointment 3
appointment_4.wav	Appointment 4
appointment_5.wav	Appointment 5
appointment_6.wav	Appointment 6
appointment_7.wav	Appointment 7
appointment_8.wav	Appointment 8
appointment_9.wav	Appointment 9
appointments.wav	Appointments
appointments_today.wav	appointments today.

Table 7-1 Calendar Voicelet Prompts (Continued)

File Name	Prompt Phase
as_i_read_this_list_of_appointments_to_you_you_can.wav	As I read this list of appointments to you, you can just listen, or you can have me pick up the pace by saying the word <i>next</i> . You can also say <i>previous</i> , <i>first</i> , or <i>last</i> to move through the list, or if you're done with the list, say <i>calendar menu</i> .
at_what_time.wav	At what time?
at_what_time_did_you_want_your_appointment_to_end.wav	At what time did you want your appointment to end?
at_what_time_did_you_want_your_appointment_to_star.wav	At what time did you want your appointment to start?
calendar_open.wav	calendar open
central.wav	central
did_you_want_to_delete_this_appointment.wav	Did you want to delete this appointment?
did_you_want_to_delete_this_appointment_say_yes_to.wav	Did you want to delete this appointment? Say <i>yes</i> to delete it, or <i>no</i> to leave it on your calendar.
doesnt_have_an_entry_for_its_location.wav	doesn't have an entry for its location.
eastern.wav	...Eastern
for_what_date.wav	For what date?
great_its_been_rescheduled.wav	Great. It's been rescheduled.
here_they_are.wav	Here they are:
heres_the_info_again_on_the_appointment_you_wanted.wav	Here's the info again on the appointment you wanted. Say <i>yes</i> if I got it right, say <i>no</i> if I got it wrong, or, to cancel scheduling this appointment, say <i>cancel</i> :
heres_what_you_can_do_with_the_appointment_i_just_.wav	Here's what you can do with the appointment I just read: you can say <i>delete it</i> , <i>reschedule it</i> , or <i>repeat it</i> , or to move through the list, say <i>next</i> , <i>previous</i> , <i>first</i> or <i>last</i> . To find out more, say <i>help</i> .
heres_what_you_can_do_with_this_appointment_you_ca.wav	Here's what you can do with this appointment: you can ask me to <i>repeat it</i> , <i>reschedule it</i> , or <i>delete it</i> , or say <i>calendar menu</i> .
i_cant_go_back_any_further_were_at_the_top_of_the_.wav	I can't go back any further—we're at the top of the list.

Table 7-1 Calendar Voicelet Prompts *(Continued)*

File Name	Prompt Phase
<code>i_need_to_get_the_end_time_of_your_appointment_for.wav</code>	I need to get the end time of your appointment, for example, <i>11:45 a.m.</i> , or <i>4 p.m.</i> To cancel scheduling this appointment, say <i>cancel</i> .
<code>i_need_to_get_the_start_time_of_your_appointment_f.wav</code>	I need to get the start time of your appointment, for example, <i>11 a.m.</i> , or <i>3 p.m.</i> To cancel scheduling this appointment, say <i>cancel</i> .
<code>is_that_right.wav</code>	Is that right?
<code>just_say_name_of_the_time_zone_youre_in_for_exampl.wav</code>	Just say name of the time zone you're in—for example, <i>Eastern</i> , <i>Central</i> , <i>Mountain</i> , or <i>Pacific</i> .
<code>let_me_confirm_that.wav</code>	Let me confirm that.
<code>lets_confirm_that.wav</code>	Let's confirm that.
<code>lets_confirm_that_you_want_to_delete_this_appointm.wav</code>	Let's confirm that—you want to delete this appointment:
<code>mountain.wav</code>	...Mountain.
<code>my_mistake.wav</code>	My mistake.
<code>oclock.wav</code>	o' clock
<code>ok_i_left_it_on_your_calendar.wav</code>	OK; I left it on your calendar.
<code>ok_lets_reschedule.wav</code>	OK, let's reschedule.
<code>ok_lets_reschedule_it_again.wav</code>	OK, let's reschedule it again.
<code>on_what_day_did_you_want_your_appointment.wav</code>	On what day did you want your appointment?
<code>once_again.wav</code>	Once again:
<code>pacific.wav</code>	...Pacific.
<code>please_say_yes_or_no_did_i_get_the_correct_info_fo.wav</code>	Please say yes or no—did I get the correct info for this appointment?
<code>please_say_yes_or_no_is_that_the_appointment_you_w.wav</code>	Please say yes or no—is that the appointment you wanted?
<code>returning_to_the_appointment_list_heres_the_next_o.wav</code>	Returning to the appointment list—here's the next one:
<code>returning_to_your_appointment_list.wav</code>	Returning to your appointment list,
<code>right_now_the_time_is.wav</code>	right now the time is

Table 7-1 Calendar Voicelet Prompts *(Continued)*

File Name	Prompt Phase
say_next_or_previous_or_for_the_full_list_of_avail.wav	Say <i>next</i> or <i>previous</i> , or for the full list of available commands, say <i>what are my choices</i> .
say_the_date_you_want_your_appointment_for_example.wav	Say the date you want your appointment, for example, <i>tomorrow</i> , <i>next Thursday</i> , or <i>September 26th</i> . For more information, say <i>help</i> .
say_the_end_time_of_your_appointment_for_example_4.wav	Say the end time of your appointment, for example, <i>4 p.m.</i>
say_the_name_of_a_time_zone_for_example_eastern_or.wav	Say the name of a time zone, for example, <i>Eastern</i> , or the name of large city, for example, <i>New York</i> .
say_the_start_time_of_your_appointment_for_example.wav	Say the start time of your appointment, for example, <i>3 p.m.</i>
sorry_about_that_your_appointment_was_not_reschedu.wav	Sorry about that. Your appointment was not rescheduled.
sorry_about_that_your_appointment_was_not_schedule.wav	Sorry about that. Your appointment was not scheduled.
sorry_there_was_a_problem_with_the_system_your_app.wav	Sorry, there was a problem with the system. Your appointment was not scheduled.
starting.wav	starting
starting_what_date.wav	starting at date
tell_me_what_you_d_like_to_do_or_say_what_are_my_ch.wav	Tell me what you'd like to do, or say <i>what are my choices</i> .
the_next_one_is_at.wav	The next one is at
theres_nothing_on_your_calendar_for.wav	There's nothing on your calendar for...
theres_nothing_on_your_calendar_for_today.wav	There's nothing on your calendar for today.
theres_nothing_on_your_calendar_for_tomorrow.wav	There's nothing on your calendar for tomorrow.
to.wav	to

Table 7-1 Calendar Voicelet Prompts *(Continued)*

File Name	Prompt Phase
to_create_this_new_appointment_i_first_need_to_get.wav	To create this new appointment, I first need to get the date you want to schedule it. You can say <i>today, tomorrow</i> , the day of the week, or the month and day. To cancel scheduling this appointment, say <i>cancel</i> .
to_reschedule_this_appointment_i_first_need_to_get.wav	To reschedule this appointment, I first need to get the new date. You can say <i>today, tomorrow</i> , the day of the week, or the month and day. To cancel rescheduling this appointment, say <i>cancel</i> .
until.wav	...until...
until_what_time.wav	Until what time?
were_back_at_the_calendar_menu.wav	We're back at the Calendar menu.
what_can_i_do_for_you.wav	What can I do for you?
what_else_can_i_do_for_you.wav	What else can I do for you?
what_else_can_i_help_you_with.wav	What else can I help you with?
what_time_zone_or_large_city_are_you_in.wav	what time zone or large city are you in?
when_youre_done_with_it_say_open_my_personal_calen.wav	When you're done with it, say <i>open my personal calendar</i> .
will_be_at_this_location.wav	will be at this location:
with.wav	with
you_can_check_your_calendar_by_asking_me_whats_hap.wav	You can check your calendar by asking me what's happening on a particular date, for example <i>What's happening today</i> , or <i>What's happening August 30th?</i> You can also say <i>schedule an appointment</i> , or, book a recurring one by saying for example, <i>schedule a weekly appointment</i> . To switch calendars, say, for example, <i>open my personal calendar</i> . And when you're all done, say <i>main menu</i> . Now, what can I do for you?
you_can_say_for_example_schedule_an_appointment_or.wav	You can say, for example, <i>schedule an appointment</i> , or <i>what's happening tomorrow</i> . What can I help you with?
you_have_one_appointment.wav	You have one appointment

Table 7-1 Calendar Voicelet Prompts *(Continued)*

File Name	Prompt Phase
your_time_zone_has_been_set_to.wav	your time zone has been set to...
youre_at_the_calendar_menu.wav	You're at the calendar menu.

Mail Voicelet Prompts

This chapter lists mail voicelet prompts provided in this release.

[Table 8-1](#) lists these prompts. It contains two columns. The first column lists the prompt file name, and the second column lists the spoken phrase.

Table 8-1 Mail Voice Prompts

File Name	Prompt Phrase
after_each_message_you_can_say_read_it_delete_it_o.wav	After each message, you can say: <i>read it, delete it, or repeat it</i> , or to move through the list, say <i>next, previous, first, or last</i> . If you're done with the list, say <i>stop</i> .
all_of_them_addressed_to_you_fin.wav	...all of them addressed to you.
all_of_them_addressed_to_you_mid.wav	...all of them addressed to you,...
all_right.wav	All right;
all_right_it_was_not_deleted.wav	All right; it was not deleted.
and_you_have.wav	...and you have...
and_you_have_1_read_message_fin.wav	...and you have 1 read message.
are_you_sure.wav	Are you sure?
at.wav	at
at_any_time_you_can_say_next_read_it_or_what_are_m.wav	At any time, you can say <i>next, read it, or what are my choices</i> .
deleted.wav	deleted
deleting.wav	deleting
end_of_message.wav	End of message.

Table 8-1 Mail Voice Prompts (Continued)

File Name	Prompt Phrase
from.wav	...from...
here_are_your_choices.wav	Here are your choices:
here_it_is.wav	Here it is:
heres_the_first_one_again.wav	Here's the first one, again.
heres_the_header_for_the_1_unread_message_addresse.wav	Here's the header for the 1 unread message addressed to you:
heres_the_header_for_your_1_read_message.wav	Here's the header for your 1 read message:
heres_the_header_for_your_1_unread_message.wav	Here's the header for your 1 unread message:
heres_the_last_one.wav	Here's the last one:
heres_the_unread_message.wav	Here's the unread message:
ill_give_you_the_list_of_unread_messages.wav	I'll give you the list of unread messages.
ill_list_the.wav	I'll list the
ill_list_them_for_you.wav	I'll list them for you.
ill_list_your.wav	I'll list your
mail.wav	mail
marked_for_deletion.wav	...marked for deletion,...
message.wav	Message
message_1.wav	Message 1, ...
message_2.wav	Message 2, ...
message_3.wav	Message 3, ...
message_4.wav	Message 4, ...
message_5.wav	Message 5, ...
message_6.wav	Message 6, ...
message_7.wav	Message 7, ...
message_8.wav	Message 8, ...
message_9.wav	Message 9, ...
of_them_addressed_to_you_fin.wav	...of them addressed to you.

Table 8-1 Mail Voice Prompts *(Continued)*

File Name	Prompt Phrase
of_them_addressed_to_you_mid.wav	...of them addressed to you,...
ok.wav	OK
ok_canceled.wav	OK, canceled.
ok_heres_some_help.wav	ok_heres_some_help.wav
ok_its_been_deleted.wav	OK, it's been deleted.
ok_stopped.wav	OK, stopped.
quote_level.wav	quote level
read_message.wav	Read message
read_message_1.wav	Read message 1, ...
read_message_2.wav	read message 2, ...
read_message_3.wav	read message 3, ...
read_message_4.wav	read message 4, ...
read_message_5.wav	read message 5, ...
read_message_6.wav	read message 6, ...
read_message_7.wav	read message 7, ...
read_message_8.wav	read message 8, ...
read_message_9.wav	read message 9, ...
read_messages.wav	read messages.
read_messages_fin.wav	... read messages.
received.wav	...received...
received_at.wav	received at
received_yesterday_at.wav	received yesterday
say_read_it_repeat_it_or_next_or_say_what_are_my_c.wav	Say <i>read it</i> , <i>repeat it</i> , or <i>next</i> , or say, <i>what are my choices</i> .
sorry_but_you_dont_have_any_read_messages.wav	Sorry, but you don't have any read messages.
sorry_but_you_dont_have_any_unread_messages.wav	Sorry, but you don't have any unread messages.
sorry_but_you_dont_have_any_unread_messages_addres.wav	Sorry, but you don't have any unread messages addressed to you.

Table 8-1 Mail Voice Prompts (*Continued*)

File Name	Prompt Phrase
sorry_i_didnt_get_that.wav	Sorry, I didn't get that.
sorry_i_didnt_hear_anything.wav	Sorry, I didn't hear anything.
sorry_i_still_didnt_get_that.wav	Sorry, I still didn't get that.
sorry_i_still_didnt_hear_anything.wav	Sorry, I still didn't hear anything.
subject.wav	...subject:
tell_me_which_message_list_you_want_or_if_youre_do.wav	Tell me which message list you want, or if you're done with email, say <i>main menu</i> .
thats_it.wav	That's it.
to_hear_the_whole_message_say_read_it.wav	To hear the whole message, say <i>read it</i> .
unread_message.wav	Unread message
unread_message_1.wav	Unread message 1, ...
unread_message_2.wav	Unread message 2, ...
unread_message_3.wav	Unread message 3, ...
unread_message_4.wav	Unread message 4, ...
unread_message_5.wav	Unread message 5, ...
unread_message_6.wav	Unread message 6, ...
unread_message_7.wav	Unread message 7, ...
unread_message_8.wav	Unread message 8, ...
unread_message_9.wav	Unread message 9, ...
unread_messages.wav	Unread messages.
unread_messages_addressed_to_you.wav	unread messages addressed to you.
unread_messages_fin.wav	...unread messages.
unread_messages_mid.wav	...unread messages,...
was_not_deleted.wav	was not deleted
yesterday.wav	yesterday

Table 8-1 Mail Voice Prompts (Continued)

File Name	Prompt Phrase
you_can_ask_for_any_of_these_message_lists_unread.wav	You can ask for any of these message lists: <i>unread messages</i> , <i>read messages</i> , or <i>unread messages addressed to me</i> , or you can say <i>message summary</i> . If you're done with email, say <i>main menu</i> .
you_can_say_list_unread_messages_list_read_message.wav	You can say <i>list unread messages</i> , <i>list read messages</i> , <i>list unread messages addressed to me</i> , or <i>message summary</i> . Which would you like?
you_dont_have_any_messages.wav	You don't have any messages.
you_dont_have_any_messages_right_now_lets_go_back.wav	You don't have any messages right now. Let's go back.
you_have.wav	You have...
you_have_1_read_message_fin.wav	You have 1 read message.
you_have_1_unread_message_fin.wav	You have 1 unread message.
you_have_1_unread_message_mid.wav	You have 1 unread message,...
youre_at_the_email_menu.wav	You're at the email menu.
youre_at_the_first_message_in_the_list_we_cant_bac.wav	You're at the first message in the list; we can't back up any further.
youre_back_at_the_email_menu.wav	You're back at the email menu.

Abstract Markup Language (AML) Elements

This chapter provides an explanation of each of the AML elements.

[Table 9-1](#) is a summary list of AML elements. The table contains two columns. The first column lists the AML element name, and the second column provides a summary of the element. For a full description of the AML elements, find the element you want listed alphabetically following the table.

Table 9-1 Summary of Abstract Markup Language (AML) Elements

AML Element Name	Summary
AmlBr	The <code>AmlBr</code> element is a break element.
AmlCheckBox	The <code>AmlCheckBox</code> element is a standard checkbox element that is either selected or not selected.
AmlChoice	The <code>AmlChoice</code> element is a standard choice element that contains one or more options that can be selected.
AmlContainer	The <code>AmlContainer</code> element allows device specific markup—or any other type of text—to pass by the rendering engine to be interpreted directly by the browser.
AmlControlMenu	The <code>AmlControlMenu</code> element is an individual menu item that is a link to a URL.
AmlDocument	The <code>AmlDocument</code> element is the root level element.
AmlForm	The <code>AmlForm</code> element is a standard form element.
AmlGroup	The <code>AmlGroup</code> element is a Group Element.
AmlImage	The <code>AmlImage</code> element is an image Element.
AmlInput	The <code>AmlInput</code> element is a standard input field element.
AmlLink	The <code>AmlLink</code> element is a standard URL link element.
AmlList	The <code>AmlList</code> element is a standard List element.

Table 9-1 Summary of Abstract Markup Language (AML) Elements (*Continued*)

AML Element Name	Summary
AmlListItem	The <code>AmlListItem</code> element is a standard <code>ListItem</code> .
AmlOption	The <code>AmlOption</code> element is a standard option element.
AmlOrderedList	The <code>AmlOrderedList</code> element is a standard <code>Ordered List</code> .
AmlPage	The <code>AmlPage</code> element is the primary container element.
AmlParam	The <code>AmlParam</code> element is used to specify a URL parameter for <code>AmlURL</code> .
AmlPCData	This element has been deprecated. The <code>AmlText</code> element has replaced the <code>AmlPCData</code> element. The <code>AmlPCData</code> element is used to place text on display.
AmlSelectList	The <code>AmlSelectList</code> element is a standard selection list element.
AmlSelectListItem	The <code>AmlSelectListItem</code> element is a standard selection list item element.
AmlSpace	The <code>AmlSpace</code> element is a standard text element for inserting spaces.
AmlStyle	The <code>AmlStyle</code> element is a <code>Style Extension</code> .
AmlTable	The <code>AmlTable</code> element is a standard table element.
AmlTableCol	The <code>AmlTableCol</code> element is a standard table column element.
AmlTableHead	This element has been deprecated. The <code>AmlTableHead</code> element is a standard table head element.
AmlTableRow	The <code>AmlTableRow</code> element is a standard table row element.
AmlText	The <code>AmlText</code> element is a standard text element.
AmlTextArea	The <code>AmlTextArea</code> element is a standard textarea input field element.
AmlURL	The <code>AmlURL</code> element is a standard URL link element with parameters specified.

AML Description Details

AML Attribute Table Each of the AML elements from the preceding table is explained in this chapter. For each element, the explanation includes a table that provides information about the element's attributes. These tables contain five columns. The first column lists the attributes, if any; the second column provides a description of each attribute; the third column lists the possible values of each attribute, the fourth column gives the default value of each attribute; and the fifth column indicates if the attribute is required. Within the AML attribute tables, some attributes have the term `CDATA`—for character data in the Possible Values column. The term `CDATA` is a World Wide Web Consortium (W3C) recommendation for XML that refers to any text which is not markup.

Markup Language Examples In this chapter, every explanation of an AML element includes examples of related markup. For each element, the first example demonstrates the use of AML input. The second and third examples are of corresponding output in the following markup languages: WML (Wireless Markup Language) and cHTML (compact Hypertext Markup Language)

AmlBr

Description The `AmlBr` element is used to separate other elements that are displayed. The `AmlBr` element has no attributes.

Element Body `((AmlContainer)*)`

Parent `AmlPage`, `AmlForm`, `AmlTableCol`, `AmlGroup`, `AmlListItem`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Markup Language Examples

Sample AML Input:

```
<AmlDocument>
  <AmlPage title="Hello World Page">
    <AmlText text="Hello World!"/>
    <AmlBr/>
    <AmlText text="The rest of the story."/>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
```

```

<card id="agp0">
  <p align="center">Hello World Page</p>
  <p>
    Hello World!<br />
    The rest of the story.
  </p>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Hello World Page</a>
    </div>
    Hello World!<br />
    The rest of the story.
  </body>
</html>

```

AmlCheckBox

Description An AmlCheckBox element is either selected or not selected. The name attribute's value holds the variable name for the boolean value. The AmlCheckBox element can be added to an AmlForm object.

Element Body ((AmlContainer*, (AmlText | AmlImage)?, AmlStyle?)

Parent AmlForm, AmlTableCol, AmlGroup, AmlListItem

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
name	Boolean variable holding value	CDATA	No Default	Yes

Attribute	Description	Possible values	Default	Req'd?
selected	Selection status	(true false)	false	No
select_label	Label for selected form input	CDATA	No Default	No
unselect_label	Label for unselected form input	CDATA	No Default	No
view	Set view option	(show hidden none)	show	No
persist	Set persist flag	(true false)	false	No
italics	Deprecated	(true false)	false	No
bold	Deprecated	(true false)	false	No
underline	Deprecated	(true false)	false	No
text	Deprecated	CDATA	No Default	No
textsize	Deprecated	(big normal small)	normal	No
value	Value used as form input	CDATA	No Default	No

Markup Language Examples

Sample AML Input:

```
<?xml version="1.0" encoding="ISO-8859-6"?>
<AmlDocument>
  <AmlPage>
    <AmlForm url="nextAction">
      <AmlCheckBox name="midp" >
        <AmlText text="MIDP"/>
      </AmlCheckBox>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
```

```

<card id="agp0">
  <p align="center"></p>
  <p mode="nowrap">
    MIDP
    <select name="midp" value="no">
      <option value="yes">yes</option>
      <option value="no">no</option>
    </select>
  </p>
  <do label="submit" type="accept">
    <go href="nextAction?midp=$(midp)" sendreferer="true" method="get" />
  </do>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0"></a>
    </div>
    <form enctype="application/x-www-form-urlencoded" action="nextAction"
method="get">
      <input name="midp" type="checkbox"></input>MIDP<br>
      <input name="request" type="submit" value="Submit"></input>
    </form>
  </body>
</html>

```

AmlChoice

Description An `AmlChoice` is a list of `AmlOptions` available for selection. The item selected becomes the value of the variable in the `name` attribute. An `AmlText` serves as the label of the `AmlChoice`. An example of an `AmlChoice` is a list of `Countries` where users select one to convey where they live.

Element Body ((`AmlContainer*`, `AmlText?`, `AmlOption+`, `AmlStyle?`)

Parent `AmlForm`, `AmlTableCol`, `AmlGroup`, `AmlListItem`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>name</code>	Set name used for form input	CDATA	No Default	No
<code>mode</code>	Single or Multiple selection	(multiple single)	single	No
<code>view</code>	Set view option	(show hidden none)	show	No
<code>wml_select_label</code>	Set the label for submit for WML	CDATA	No Default	No
<code>cache</code>	Set caching	(true false)	true	No
<code>persist</code>	Set persist flag	(true false)	false	No
<code>italics</code>	Deprecated	(true false)	false	No
<code>bold</code>	Deprecated	(true false)	false	No
<code>underline</code>	Deprecated	(true false)	false	No
<code>text</code>	Deprecated	CDATA	No Default	No
<code>textsize</code>	Deprecated	(big normal small)	normal	No
<code>scroll_size</code>	Deprecated	CDATA	No Default	No
<code>value</code>	Value used as form input	CDATA	No Default	No

Markup Language Examples

Sample AML Input:

```

<AmlDocument title="Choice Test">
  <AmlPage title="Choices">
    <AmlForm url="resources">
      <AmlChoice name="c1">
        <AmlOption value="o1" text="o1"/>
        <AmlOption value="o2" text="o2"/>
      </AmlChoice>
    </AmlForm>
  </AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0"><p align="center">Choices</p>
  <p mode="nowrap">
    <select multiple="false" name="c1">
      <option value="o1" title="select">o1</option>
      <option value="o2" title="select">o2</option>
    </select>
  </p>
  <do label="submit" type="accept">
    <go href="resources?c1=${c1}" sendreferer="true" method="get"/>
  </do>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Choice Test</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Choices</a>
    </div>
    <form enctype="application/x-www-form-urlencoded" action="resources"
method="get">
      <select name="c1">

```



```

        <option value="o1">o1</option>
        <option value="o2">o2</option>
    </select>
    <br>
    <input name="request" type="submit" value="Submit"></input>
</form>
</body>
</html>

```

AmlContainer

Description An `AmlContainer` element contains text that is not passed through the rendering engine; therefore, the text appears on browsers in the original format, for example, in javascript or in a native markup language, such as WML. You can add an `AmlContainer` element to any element that accepts an `AmlText` element.

Element Body Empty

Parent `AmlDocument`, `AmlPage`, `AmlChoice`, `AmlOption`, `AmlForm`, `AmlTable`, `AmlTableRow`, `AmlTableCol`, `AmlTableHead`, `AmlInput`, `AmlLink`, `AmlControlMenu`, `AmlTextArea`, `AmlCheckBox`, `AmlText`, `AmlBr`, `AmlImage`, `AmlGroup`, `AmlListItem`, `AmlSelectListItem`, `AmlOrderedList`, `AmlList`, `AmlSelectList`, `AmlSpace`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>persist</code>	Set persist flag.	(true false)	false	No
<code>text</code>	Set text in container			No

Markup Language Examples

Sample AML Input:

```

<AmlDocument title="Welcome">
  <AmlPage title="Script">
    <AmlContainer text="&lt;br/&gt;"/>
  </AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML
1.1//EN" "http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Script</p>
    <br />
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Script</a>
    </div>
  <br />
</body>
</html>

```

AmlControlMenu

Description An AmlControlMenu is an individual menu item that is a link to a URL. An AmlControlMenu is added to an AmlPage. All AmlControlMenus added to a page are gathered and placed together in a common location to form the menu.

Element Body ((AmlContainer*, (AmlText | AmlImage)?, AmlStyle?)

Parent AmlForm, AmlTableCol, AmlGroup, AmlListItem

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
url	Set URL for AmlControlMenu	CDATA	No Default	Yes
label	Deprecated	CDATA	No Default	No
italics	Deprecated	(true false)	false	No
bold	Deprecated	(true false)	false	No
underline	Deprecated	(true false)	false	No
text	Deprecated	CDATA	No Default	No
textsize	Deprecated	(big normal small)	normal	No
key	Set selection key	(options accept prev)	options	No

Markup Language Examples

Sample AML Input:

```
<?xml version="1.0" encoding="ISO-8859-6"?>
<AmlDocument>
  <AmlPage>
    <AmlControlMenu url="http://watchita" label="hehe"
key="accept" />
    <AmlText text="Moonwatchers in North America can see the lunar
eclipse." />
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0" />
  </head>
  <card id="agp0">
    <p align="center"></p>
    <do label="hehe" name="hehe" type="accept">
      <go href="http://watchita" sendreferer="true"/>
    </do>
  </card>
</wml>
```

```

    </do>
    <p>Moonwatchers in North America can see the lunar eclipse.</p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0"></a>
    </div>
    <div>
      <a href="http://watchita">hehe</a>
    </div>
    Moonwatchers in North America can see the lunar eclipse.
  </body>
</html>

```

AmlDocument

Description The AmlDocument is the root level element. An AmlDocument must contain one or more AmlPage elements. This element normally has only a title attribute.

Element Body (AmlContainer*, AmlPage+, AmlStyle?)

Parent None

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
encoding	Set encoding on document	CDATA	No Default	Yes

Attribute	Description	Possible values	Default	Req'd?
title	Set title displayed on device	CDATA	No Default	No
titlecolor	Set the titlecolor	Color name or numeric value	No Default	No
textsize	Set textsize on document	(big normal small)	normal	No
italics	Set title to italics	(true false)	false	No
bold	Set title to bold	(true false)	false	No
underline	Set title to underlined	(true false)	false	No
halign	Set halign for title	(left right center)	center	No
font	Font to be used	CDATA	No Default	No
blink	Set title to blink	(true false)	false	No
marquee	Set title to marquee	(true false)	false	No
bgcolor	Set background color of document	Color name or numeric value	No Default	No
textcolor	Set textcolor for document	Color name or numeric value	No Default	No
linkcolor	Set linkcolor of document	Color name or numeric value	No Default	No
prev_label	Set previous label for document	CDATA	No Default	No
next_label	Set next label for document	CDATA	No Default	No
refresh	Set refresh url for document	CDATA	No Default	No
refresh_timeout	Set refresh timeout for document	CDATA	No Default	No
markup_headers	Set markup headers for particular browser	CDATA	No Default	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument title="Welcome">
  <AmlPage title="Login">
    <AmlForm url="Validate">
      <AmlText text="User Name"/>
      <AmlInput name="user"/>
      <AmlBr/>
      <AmlText text="Password"/>
      <AmlInput name="pin"/>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Login</p>
    <p>
      User Name
      <input emptyok="true" name="user"/><br/>
      Password
      <input emptyok="true" name="pin"/>
    </p>
    <do label="submit" type="accept">
      <go href="Validate?user=$(user)&pin=$(pin)" sendreferer="true"
method="get"/>
    </do>
  </card>
</wml>
```

Sample cHTML Output:

```
<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
```

```

    <meta http-equiv="Cache-Control" content="no-cache"></meta>
</head>
<body>
  <div align="center">
    <a name="agp0">Login</a>
  </div>
  <form enctype="application/x-www-form-urlencoded" action="Validate"
method="get">
    User Name
    <input name="user"></input><br>Password<input name="pin"></input><br>
    <input name="request" type="submit" value="Submit"></input>
  </form>
</body>
</html>

```

AmlForm

Description An `AmlForm` is a standard input form added to an `AmlPage`. This element is used to hold user input elements. When its Submit button is clicked, entered values are accepted and control is transferred to the URL in its URL attribute.

Element Body ((`AmlContainer` | `AmlGroup` | `AmlInput` | `AmlChoice` | `AmlTextArea` | `AmlCheckBox` | `AmlTable` | `AmlLink` | `AmlImage` | `AmlText` | `AmlBr` | `AmlList` | `AmlOrderedList` | `AmlPCData` | `AmlSpace`)*, `AmlStyle?`

Parent `Amlpage`, `AmlGroup`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
url	Set submit URL for form	CDATA	No Default	Yes
encoding	Set encoding on form's parameters	CDATA	No Default	No
inputs	Deprecated. <code>AmlInputs</code> are automatically handled	CDATA	No Default	No
method	Set method type for form	(get post)	get	No
cache	Set caching flag	(true false)	true	No

Attribute	Description	Possible values	Default	Req'd?
view	Set summary style for HDML protocol	(summary linked)	summary	No
submit_label	Set label for button submitting form contents	CDATA	No Default	No
reset	Set reset attribute on AmlForm	(true false)	false	No
reset_label	Set label for button resetting form contents	CDATA	No Default	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument>
  <AmlPage>
    <AmlForm>
      <AmlURL action="Zapper">
        <AmlParam name="a" value="z"/>
        <AmlParam name="b" value="x"/>
      </AmlURL>
      <AmlText text="Enter name"/>
      <AmlInput name="n"/>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center"></p>
    <p>Enter name<input emptyok="true" name="n"/></p>
    <do label="submit" type="accept">
      <go href="Zapper?a=z&b=x&n=$(n)" sendreferer="true"
```



```

method="get" />
  </do>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0"></a>
    </div>
    <form enctype="application/x-www-form-urlencoded"
action="Zapper" method="get">
      <input name="a" type="hidden" value="z"></input>
      <input name="b" type="hidden" value="x"></input>
      Enter name
      <input name="n"></input><br>
      <input name="request" type="submit" value="Submit"></input>
    </form>
  </body>
</html>

```

AmlGroup

Description An `AmlGroup` element is a group element for elements that enter into a design together. The developer can use one element for the members of the Group. The objects in the group are added as descendents.

Element Body (((`AmlContainer` | `AmlChoice` | `AmlForm` | `AmlLink` | `AmlTable` | `AmlText` | `AmlBr` | `AmlImage` | `AmlInput` | `AmlTextArea` | `AmlCheckBox` | `AmlList` | `AmlOrderedList` | `AmlSpace`)*, `AmlStyle?`)

Parent `AmlPage`, `AmlForm`, `AmlTableCol`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
halign	Horizontal alignment setting	(left right center)	No Default	No
valign	Vertical alignment setting	(top middle bottom)	No Default	No
mode	Mode setting	(wrap nowrap)	No Default	No
cache	Set cache flag	(true false)	true	No
persist	Set persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Company Document">
  <AmlPage title="Company Page" bold="true">
    <AmlGroup halign="center" valign="top">
      <AmlText bold="true" text="Welcome to Company"/>
      <AmlImage src="Logo" alt="Company Logo"/>
    </AmlGroup>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="app0">
    <p align="center">Company Page</p>
    <p align="center">
      <b>Welcome to Company</b>
      
    </p>
  </card>
</wml>
```

Sample cHTML Output:

```

<html>
  <head>
    <title>Company Document</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Company Page</b>
      </a>
    </div>
    <div align="center">
      <b>Welcome to Company</b>
      
    </div>
  </body>
</html>

```

AmlImage

Description An `AmlImage` element is used to add an image to most AML presentation elements.

Element Body ((`AmlContainer`)*, `AmlStyle`?)

Parent `AmlPage`, `AmlOption`, `AmlForm`, `AmlTableCol`, `AmlTableHead`, `AmlInput`, `AmlLink`, `AmlControlMenu`, `AmlTextArea`, `AmlCheckBox`, `AmlGroup`, `AmlListItem`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>src</code>	Set <code>src</code> of image	CDATA	No Default	Yes
<code>alt</code>	Set alt text of image	CDATA	No Default	Yes
<code>align</code>	Set alignment of the image	(top middle bottom left right)	bottom	No
<code>height</code>	Set height of image	CDATA	No Default	No
<code>width</code>	Set width of image	CDATA	No Default	No

Attribute	Description	Possible values	Default	Req'd?
vspace	Set vspace of image	CDATA	No Default	No
hspace	Set hspace of image	CDATA	No Default	No
persist	Set persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Company Document">
  <AmlPage title="Login " bold="true">
    <AmlImage src="Logo" alt="Company Logo"/>
    <AmlForm>
      <AmlURL action="Validate"/>
      <AmlText bold="true" text="User"/>
      <AmlInput name="user"/>
      <AmlText bold="true" text="PIN"/>
      <AmlInput name="pin"/>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="app0">
    <p align="center">Login </p>
    <p>
      
    </p>
    <p>
      <b>User</b>
      <input emptyok="true" name="user"/>
      <b>PIN</b>
      <input emptyok="true" name="pin"/>
    </p>
    <do label="submit" type="accept">
```

```

        <go href="Validate?user=$(user)&pin=$(pin)" sendreferer="true"
method="get" />
    </do>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Company Document</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Login </b>
      </a>
    </div>
    
    <form enctype="application/x-www-form-urlencoded" action="Validate"
method="get">
      <b>User</b>
      <input name="user"></input>
      <b>PIN</b>
      <input name="pin"></input><br>
      <input name="request" type="submit" value="Submit"></input>
    </form>
  </body>
</html>

```

AmlInput

Description An `AmlInput` element is a text input field where the user can enter up to `maxchars` characters. The content input by the user becomes the value of the variable whose name is the value of the `name` attribute.

Element Body ((`AmlContainer*`, (`AmlText` | `AmlImage`)?, `AmlStyle`?)

Parent `AmlForm`, `AmlTableCol`, `AmlGroup`, `AmlListItem`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>name</code>	Set name of the textfield	CDATA	No Default	Yes
<code>type</code>	Set type of textfield data	CDATA	No Default	No
<code>value</code>	Set value of textfield	CDATA	No Default	No
<code>view</code>	Set view option for textfield	(<code>show hidden none</code>)	<code>show</code>	No
<code>format</code>	Set format of textfield	CDATA	No Default	No
<code>maxchars</code>	Set max characters of the input textfield	CDATA	No Default	No
<code>width</code>	Set width of textfield	CDATA	No Default	No
<code>italics</code>	Set italics emphasis	(<code>true false</code>)	<code>false</code>	No
<code>bold</code>	Set bold emphasis	(<code>true false</code>)	<code>false</code>	No
<code>underline</code>	Set underline emphasis	(<code>true false</code>)	<code>false</code>	No
<code>text</code>	Set text for label	CDATA	No Default	No
<code>textsize</code>	Set size of text	(<code>big normal small</code>)	<code>normal</code>	No
<code>persist</code>	Set persist flag	(<code>true false</code>)	<code>false</code>	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument>
  <AmlPage id="p1" title="Login" bold="true">
    <AmlForm url="Validate">
      <AmlInput text="Username:" maxchars="30" name="user"/>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

```

        <AmlInput text="PIN:" maxchars="10" name="pin"/>
    </AmlForm>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="p1">
    <p align="center">Login</p>
    <p>
      Username:
      <input emptyok="true" name="user" maxlength="30"/>
      PIN:
      <input emptyok="true" name="pin" maxlength="10"/>
    </p>
    <do label="submit" type="accept">
      <go href="Validate?user=$(user)&amp;pin=$(pin)" sendreferer="true"
method="get"/>
    </do>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="p1"><b>Login</b></a>
    </div>
    <form enctype="application/x-www-form-urlencoded" action="Validate"
method="get">
      Username:
      <input name="user" maxlength="30"></input>
      PIN:

```

```

    <input name="pin" maxlength="10"></input><br>
    <input name="request" type="submit" value="Submit"></input>
  </form>
</body>
</html>

```

AmlLink

Description An AmlLink is used to place active text or image links on an AmlPage, AmlTableCol, or AmlForm. The URL attribute is the URL of the destination.

Element Body ((AmlContainer*, (AmlText | AmlImage)?, AmlStyle?)

Parent AmlPage, AmlForm, AmlTableCol, AmlGroup, AmlListItem, AmlSelectListItem

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
url	Set url for link.	CDATA	No Default	Yes
selected_color	Set color of selected link	CDATA	No Default	No
italics	Set italics for link text	(true false)	false	No
bold	Set bold for link text	(true false)	false	No
underline	Set underline for link text.	(true false)	false	No
text	Set text for link	CDATA	No Default	No
textsize	Set text size for link	(big normal small)	normal	No
wml_select_label	Set the label for submit for wml	CDATA	No Default	No
persist	Set persist flag for link	(true false)	false	No

Markup Language Examples

Sample AML Input:


```

<AmlDocument>
  <AmlPage title="Company Page" bold="true">
    <AmlText bold="true" text="Welcome to Company"/>
    <AmlLink url="documents">
      <AmlText text="Documents"/>
    </AmlLink>
  </AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0"><p align="center">Company Page</p>
    <p>
      <b>Welcome to Company</b>
      <a href="documents">Documents</a>
    </p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Company Page</b>
      </a>
    </div>
    <b>Welcome to Company</b>
    <a href="documents">Documents</a>
  </body>
</html>

```

AmlList

Description An `AmlList` is a standard bulleted List.

Element Body (`AmlContainer*`, `AmlText?`, `AmlListItem+`, `AmlStyle?`)

Parent `AmlPage`, `AmlForm`, `AmlTableCol`, `AmlGroup`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
bullet	Set the bullet type	(disc square circle)	circle	No
indent	Set the indentation string	CDATA	No Default	No
cache	Set the caching	(true false)	true	No
persist	Set the persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Welcome">
  <AmlPage title="Chooser" bold="true">
    <AmlList>
      <AmlListItem>
        <AmlText text="Running"/>
      </AmlListItem>
      <AmlListItem>
        <AmlText text="Jumping"/>
      </AmlListItem>
      <AmlListItem>
        <AmlText text="Skipping"/>
      </AmlListItem>
    </AmlList>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Chooser</p>
    <p>
      <ul style="list-style-type: none;">
        <li><b>Running</b><br/></li>
        <li><b>Jumping</b><br/></li>
        <li><b>Skipping</b><br/></li>
      </ul>
    </p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Chooser</b>
      </a>
    </div>
    <ul type="circle">
      <li>Running</li>
      <li>Jumping</li>
      <li>Skipping</li>
    </ul>
  </body>
</html>

```

AmlListItem

Description An AmlListItem is a standard list item. An AmlListItem can be an item in an AmlOrderedList or an AmlList. An AmlListItem has no attributes.

Element Body (((AmlContainer | AmlBr | AmlText | AmlImage | AmlLink | AmlInput | AmlTextArea | AmlCheckBox | AmlSpace)*, AmlStyle?)

Parent AmlList, AmlListItem

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Welcome">
  <AmlPage title="Chooser" bold="true">
    <AmlList>
      <AmlListItem>
        <AmlText text="Running"/>
      </AmlListItem>
      <AmlListItem>
        <AmlText text="Jumping"/>
      </AmlListItem>
      <AmlListItem>
        <AmlText text="Skipping"/>
      </AmlListItem>
    </AmlList>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
```

```

</head>
<card id="agp0">
  <p align="center">Chooser</p>
  <p>
    o Running<br/>
    o Jumping<br/>
    o Skipping<br/>
  </p>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Chooser</b>
      </a>
    </div>
    <ul type="circle">
      <li>Running</li>
      <li>Jumping</li>
      <li>Skipping</li>
    </ul>
  </body>
</html>

```

AmlOption

Description An AmlOption can be added to an AmlChoice list. When added, the AmlOption becomes the bottom member of the list.

Element Body ((AmlContainer*, (AmlImage | AmlText)?, AmlStyle?)

Parent AmlChoice

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
url	Set url for option	CDATA	No Default	No
value	Set the value for the option	CDATA	No Default	No
selected	Set as selected among several options	(true false)	false	No
italics	Deprecated	(true false)	false	No
bold	Deprecated	(true false)	false	No
underline	Deprecated	(true false)	false	No
text	Set text for the option	CDATA	No Default	No
textsize	Deprecated	Deprecated	normal	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument title="Option Test">
  <AmlPage title="Choices">
    <AmlForm url="resources">
      <AmlChoice name="c1">
        <AmlOption value="o1" text="o1"/>
        <AmlOption value="o2" text="o2"/>
      </AmlChoice>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0"><p align="center">Choices</p>
    <p mode="nowrap">
      <select multiple="false" name="c1">
        <option value="o1" title="select">o1</option>
        <option value="o2" title="select">o2</option>
      </select>
    </p>
    <do label="submit" type="accept">
      <go href="resources?c1=${c1}" sendreferer="true" method="get"/>
    </do>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Option Test</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Choices</a>
    </div>
    <form enctype="application/x-www-form-urlencoded" action="resources"
method="get">
      <select name="c1">
        <option value="o1">o1</option>
        <option value="o2">o2</option>
      </select>
      <br>
      <input name="request" type="submit" value="Submit"></input>
    </form>
  </body>
</html>

```

AmlOrderedList

Description An `AmlOrderedList` is a standard `Ordered List`. An `AmlOrderedList` has at least one `AmlListItem`. In the default type, the initial item is numbered 1. Additional `AmlListItems` will be numbered 2, 3, etc. Each `AmlListItem` has an `AmlText` object representing one item on the list.

Element Body ((`AmlContainer*`, `AmlText?`, `AmlListItem+`, `AmlStyle?`)

Parent `AmlPage`, `AmlForm`, `AmlTableCol`, `AmlGroup`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
type	Set type	(numeric uppercase_roman lowercase_roman lowercase_alpha uppercase_alpha)	numeric	No
indent	Set indentation string	CDATA	No Default	No
start	Set start attribute	CDATA	No Default	No
cache	Set caching	(true false)	true	No
persist	Set persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Welcome">
  <AmlPage title="Chooser" bold="true">
    <AmlOrderedList>
      <AmlListItem>
        <AmlText text="Running"/>
      </AmlListItem>
      <AmlListItem>
        <AmlText text="Jumping"/>
      </AmlListItem>
      <AmlListItem>
        <AmlText text="Skipping"/>
      </AmlListItem>
    </AmlOrderedList>
  </AmlPage>
</AmlDocument>
```



```

    </AmlListItem>
  </AmlOrderedList>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Chooser</p>
    <p>
      1. Running<br/>
      2. Jumping<br/>
      3. Skipping<br/>
    </p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Chooser</b>
      </a>
    </div>
    <ol type="1">
      <li>Running</li>
      <li>Jumping</li>
      <li>Skipping</li>
    </ol>
  </body>
</html>

```

AmlPage

Description An `AmlPage` is a display page on the mobile device. An `AmlPage` is added to the `AmlDocument`. `AmlPage` is the primary container element.

Element Body (((`AmlContainer` | `AmlChoice` | `AmlGroup` | `AmlForm` | `AmlLink` | `AmlTable` | `AmlControlMenu` | `AmlText` | `AmlBr` | `AmlImage` | `AmlList` | `AmlSelectList` | `AmlOrderedList` | `AmlPCData` | `AmlSpace`)*, `AmlStyle?`)

Parent `AmlDocument`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>id</code>	Id for page	CDATA	No Default	No
<code>title</code>	Title for Page	CDATA	No Default	No
<code>titlecolor</code>	Color of title on page. Color name or number	Color name or number	No Default	No
<code>textsize</code>	Size of text on page	(big normal small)	normal	No
<code>italics</code>	Set title to italic	(true false)	false	No
<code>bold</code>	Set title to bold	(true false)	false	No
<code>underline</code>	Set title to underlined	(true false)	false	No
<code>halign</code>	Halign title on page.	(left right center)	center	No
<code>font</code>	Font of the title	CDATA	No Default	No
<code>blink</code>	Set title to blink	(true false)	false	No
<code>marquee</code>	Set title to marquee	(true false)	false	No
<code>cache</code>	Set caching for page	(true false)	true	No
<code>summary</code>	Set summary text for the page	CDATA	No Default	No
<code>prev_label</code>	Set previous label for page	CDATA	No Default	No
<code>next_label</code>	Set next label for page	CDATA	No Default	No
<code>menu_pos</code>	Set position for control menus on page	(top bottom topbottom)	true	No
<code>cache_view</code>	Set cache view for cache menus on page	(menu link)	menu	No

Attribute	Description	Possible values	Default	Req'd?
refresh	Set refresh URL for the page	CDATA	No Default	No
refresh_timeout	Set refresh timeout for document	number of seconds	No Default	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument>
  <AmlPage title="Hello World Page">
    <AmlText text="Hello World!"/>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Hello World Page</p>
    <p>Hello World!</p>
  </card>
</wml>
```

Sample cHTML Output:

```
<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        Hello World Page
      </a>
    </div>
  </body>
</html>
```

```

    </div>
    Hello World!
  </body>
</html>

```

AmlParam

Description An `AmlParam` element is used to specify a URL parameter for `AmlURL`

Element Body Empty

Parent `AmlURL`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
name	Set the name of the parameter	CDATA	No Default	yes
value	Set the value of the parameter	CDATA	No Default	yes

Markup Language Examples

Sample AML Input:

```

<AmlDocument title="AmlURL ">
  <AmlPage menu_pos="bottom">
    <AmlLink>
      <AmlURL action="http://www.google.com/search">
        <AmlParam name="soda" value="true"/>
        <AmlParam name="flavour" value="orange"/>
        <AmlParam name="colour" value="orange"/>
      </AmlURL>
      <AmlText text="Hello World Link!"/>
    </AmlLink>
  <AmlBr/>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="nt">
    <p align="center"></p>
    <p>Hello world</p>
    <do label="Next Page" type="options">
      <go href="#agpl" sendreferer="true"/>
    </do>
  </card>
  <card id="agpl">
    <do label="Previous Page" type="options">
      <go href="#nt" sendreferer="true"/>
    </do>
    <onevent type="ontimer">
      <go href="http://www.yahoo.com"/>
    </onevent>
    <timer value="1"/>
    <p align="center"></p>
    <p>
      <a
href="http://www.google.com/search?soda=true&flavour=orange&colour=orange"> Hello World Link!
      </a>
    </p>
    <p><br/></p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>AmlURL </title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="nt"></a>
    </div>Hello world

```

```

<div align="center">
  <a name="agpl"></a>
</div>
<a
href="http://www.google.com/search?soda=true&flavour=orange&colour=orange"
  > Hello World Link!</a>
  <br>
</body>
</html>

```

AmlPCData

Description This element has been deprecated. The `AmlText` element has replaced the `AmlPCData` element. The `AmlPage` element is used to place text on a display. The text exhibited is the value of the text attribute. The text can be adjusted as to horizontal alignment (align attribute). The text can be made italic, bold, or underlined.

Element Body Empty

Parent `AmlPage`, `AmlForm`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
text	Set text displayed	CDATA	No Default	No
textsize	Set size of text	(big normal small)	normal	No
align	Set horizontal alignment	(left right center)	center	No
italics	Set italics emphasis	(true false)	false	No
bold	Set bold emphasis	(true false)	false	No
underline	Set underline emphasis	(true false)	false	No

Markup Language Examples

Sample AML Input:

```

<AmlDocument>
  <AmlPage title="Hello World Page">
    <AmIPCDATA text="Hello World!"/>
  </AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0">
    <p align="center">Hello World Page</p>
    <p><br/>Hello World!</p>
    <p><br/></p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Hello World Page</a>
    </div>
    <br>Hello World!<br>
  </body>
</html>

```

AmlSelectList

Description An `AmlSelectList` contains `AmlLink` elements in `AmlSelectListItem`s instead of `AmlText` elements in `AmlListItem`s. `AmlSelectList`s are used to offer multiple options for transfers to URLs.

Element Body (`AmlContainer*`, (`AmlText` | `AmlImage`)?, `AmlStyle?`)

Parent `AmlPage`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>wml_select_label</code>	Set select label	CDATA	ok	No
<code>cache</code>	Set caching	(true false)	true	No
<code>persist</code>	Set persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Welcome">
  <AmlPage title="Chooser" bold="true">
    <AmlSelectList>
      <AmlSelectListItem>
        <AmlLink url="Running" text="Running"/>
      </AmlSelectListItem>
      <AmlSelectListItem>
        <AmlLink url="Jumping" text="Jumping"/>
      </AmlSelectListItem>
      <AmlSelectListItem>
        <AmlLink url="Skipping" text="Skipping"/>
      </AmlSelectListItem>
    </AmlSelectList>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:


```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Chooser</p>
    <p>
      <select>
        <option onpick="Running">Running</option>
        <option onpick="Jumping">Jumping</option>
        <option onpick="Skipping">Skipping</option>
      </select>
    </p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Chooser</b>
      </a>
    </div>
    <a href="Running">Running</a><br>
    <a href="Jumping">Jumping</a><br>
    <a href="Skipping">Skipping</a><br>
  </body>
</html>

```

AmlSelectListItem

Description An `AmlSelectListItem` is a standard list item. An `AmlSelectListItem` can be an item in an `AmlSelectList`. An `AmlSelectListItem` has no attributes.

Element Body (((`AmlContainer` | `AmlLink`)*, `AmlStyle`?)

Parent `AmlSelectList`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Markup Language Examples

Sample AML Input:

```
<AmlDocument bold="true" title="Welcome">
  <AmlPage title="Chooser" bold="true">
    <AmlSelectList>
      <AmlSelectListItem>
        <AmlLink url="Running" text="Running"/>
      </AmlSelectListItem>
      <AmlSelectListItem>
        <AmlLink url="Jumping" text="Jumping"/>
      </AmlSelectListItem>
      <AmlSelectListItem>
        <AmlLink url="Skipping" text="Skipping"/>
      </AmlSelectListItem>
    </AmlSelectList>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
```

```

<card id="agp0">
  <p align="center">Chooser</p>
  <p>
    <select>
      <option onpick="Running">Running</option>
      <option onpick="Jumping">Jumping</option>
      <option onpick="Skipping">Skipping</option>
    </select>
  </p>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Chooser</b>
      </a>
    </div>
    <a href="Running">Running</a><br>
    <a href="Jumping">Jumping</a><br>
    <a href="Skipping">Skipping</a><br>
  </body>
</html>

```

AmlSpace

Description An `AmlSpace` is a standard text element for inserting spaces. `AmlSpace` can be added to an `AmlForm` or `AmlPage`.

Element Body ((AmlContainer)*, AmlStyle?)

Parent `AmlPage`, `AmlForm`, `AmlGroup`, `AmlListItem`

Restrictions None

For information about all the supported protocols and the corresponding devices, access the Client Manager page using the Identity Server administration console.

NOTE
To Access the Client Manager

1. Log in to the Identity Server administration console as the administrator.

By default, Identity Management is selected in the Header frame (the top horizontal frame).

2. Click the Service Configuration tab.

A list of services appears in the Navigation frame (the left vertical frame).

3. Scroll down the Navigation frame and click the arrow for Client Detection.

The Client Detection page appears in the Data frame (the right vertical frame).

4. Click the Edit link.

The Client Manager window appears. From this window you can select a markup language to view a list of supported devices.

Sample AML Input:

```
<AmlDocument title="Style Test">
  <AmlPage title="Using Styles">
    <AmlForm url="Next">
      <AmlInput name="user">
        <AmlText text="Username"/>
        <AmlStyle protocol="CHtml" inlinestyle='&lt;Input
type="timepicker" name=".:name" size=".:width" /&gt;'/>
      </AmlInput>
    </AmlForm>
  </AmlPage>
</AmlDocument>
```

Sample WML Output:

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="app0">
    <p align="center">Using Styles</p>
    <p>Username<input emptyok="true" name="user"/></p>
    <do label="submit" type="accept"><go href="Next?user=${user}"
sendreferer="true" method="get"/></do>
  </card>
</wml>
```

Sample cHTML Output:

```
<html>
  <head>
    <title>Style Test</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Using Styles</a>
    </div>
    <form enctype="application/x-www-form-urlencoded" action="Next"
method="get">
      <input name="user" type="timepicker"></input>Username<br>
      <input name="request" type="submit" value="Submit"></input>
    </form>
  </body>
</html>
```

AmlTable

Description The AmlTable is a standard table element. AmlTable is the table as a whole and is not a content presenter. The AmlTable must contain one or more AmlTableRows. An AmlTableRow must contain one or more AmlTableCols. An AmlTable can be added to an AmlPage or an AmlForm.

Element Body (AmlContainer*, AmlTableRow+, AmlStyle?)

Parent AmlPage, AmlForm, AmlGroup

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
columns	Set number of columns for table	CDATA	No Default	No
maxcolwidth	Set maximum column width for columns in table	CDATA	No Default	No
border	Set border width for table	CDATA	No Default	No

Attribute	Description	Possible values	Default	Req'd?
halign	Set horizontal alignment	(left right center)	No Default	No
cache	Set cache flag	(true false)	true	No
persist	Set persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```

<AmlDocument title="Welcome">
  <AmlPage title="Table" bold="true">
    <AmlTable columns="3">
      <AmlTableRow header="true">
        <AmlTableCol>
          <AmlText text="Name"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="Location"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="State"/>
        </AmlTableCol>
      </AmlTableRow>
      <AmlTableRow>
        <AmlTableCol>
          <AmlText text="Dev"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="Phoenix"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="AZ"/>
        </AmlTableCol>
      </AmlTableRow>
      <AmlTableRow>
        <AmlTableCol>
          <AmlText text="Mktg"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="SFO"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="CA"/>
        </AmlTableCol>
      </AmlTableRow>
    </AmlTable>
  </AmlPage>
</AmlDocument>

```



```

        </AmlTableCol>
    </AmlTableRow>
</AmlTable>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0">
    <p align="center">Table</p>
    <p>
      <select>
        <option onpick="#agp0r1">Dev</option>
        <option onpick="#agp0r2">Mktg</option>
      </select>
    </p>
  </card>
  <card id="agp0r1">
    <p>Name : Dev<br/>Location : Phoenix<br/>State : AZ<br/>
      <a href="#agp0">Back</a>
    </p>
  </card>
  <card id="agp0r2">
    <p>Name : Mktg<br/>Location : SFO<br/>State : CA<br/>
      <a href="#agp0">Back</a>
    </p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Table</b>
      </a>
    </div>

```

```

    </a>
  </div>
  <table>
    <tr>
      <td>Name</td>
      <td>Location</td>
      <td>State</td>
    </tr>
    <tr>
      <td>Dev</td>
      <td>Phoenix</td>
      <td>AZ</td>
    </tr>
    <tr>
      <td>Mktg</td>
      <td>SFO</td>
      <td>CA</td>
    </tr>
  </table>
</body>
</html>

```

AmlTableCol

Description An AmlTableCol can contain most content elements. An AmlTableRow begins with one AmlTableCol.

Element Body ((AmlContainer*, (AmlText | AmlImage)?, AmlStyle?)

Parent AmlForm, AmlTableCol, AmlGroup, AmlListItem

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
maxcolwidth	Set maxcolwidth for table column	CDATA	No Default	No
priority	Set priority on table column	CDATA	No Default	No
halign	Set horizontal alignment for table column	(left right center)	No Default	No

Attribute	Description	Possible values	Default	Req'd?
valign	Set vertical alignment for table column	(top middle bottom)	No Default	No
bgcolor	Set background color of table column	Color name or numeric value	No Default	No
italics	Deprecated	(true false)	false	No
bold	Deprecated	(true false)	false	No
underline	Set underline for table column text	(true false)	false	No
text	Set text	CDATA	No Default	No
textsize	Set size of text for table column	(big normal small)	normal	No

Markup Language Examples

Sample AML Input:

```

<AmlDocument title="Welcome">
  <AmlPage title="Table" bold="true">
    <AmlTable columns="3">
      <AmlTableRow header="true">
        <AmlTableCol>
          <AmlText text="Name"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="Location"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="State"/>
        </AmlTableCol>
      </AmlTableRow>
      <AmlTableRow>
        <AmlTableCol>
          <AmlText text="Dev"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="Phoenix"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="AZ"/>
        </AmlTableCol>
      </AmlTableRow>
    </AmlTable>
  </AmlPage>
</AmlDocument>

```

```

        </AmlTableCol>
    </AmlTableRow>
</AmlTableRow>
    <AmlTableCol>
        <AmlText text="Mktg"/>
    </AmlTableCol>
    <AmlTableCol>
        <AmlText text="SFO"/>
    </AmlTableCol>
    <AmlTableCol>
        <AmlText text="CA"/>
    </AmlTableCol>
</AmlTableRow>
</AmlTable>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0">
    <p align="center">Table</p>
    <p>
      <select>
        <option onpick="#agp0r1">Dev</option>
        <option onpick="#agp0r2">Mktg</option>
      </select>
    </p>
  </card>
  <card id="agp0r1">
    <p>Name : Dev<br/>Location : Phoenix<br/>State : AZ<br/>
      <a href="#agp0">Back</a>
    </p>
  </card>
  <card id="agp0r2">
    <p>Name : Mktg<br/>Location : SFO<br/>State : CA<br/>
      <a href="#agp0">Back</a>
    </p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Table</b>
      </a>
    </div>
    <table>
      <tr>
        <td>Name</td>
        <td>Location</td>
        <td>State</td>
      </tr>
      <tr>
        <td>Dev</td>
        <td>Phoenix</td>
        <td>AZ</td>
      </tr>
      <tr>
        <td>Mktg</td>
        <td>SFO</td>
        <td>CA</td>
      </tr>
    </table>
  </body>
</html>

```

AmlTableHead

Description This element has been deprecated. The `AmlTableHead` is a table column containing text only that appears at the top of a column. The row will appear on each of the pages where `AmlTableCol` elements are shown.

Element Body ((`AmlContainer*`, (`AmlText` | `AmlImage`)?, `AmlStyle`?)

Parent `AmlTableRow`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
maxcolwidth	Deprecated	CDATA	No Default	No
priority	Deprecated	CDATA	No Default	No
halign	Deprecated	(left right center)	No Default	No
valign	Deprecated	(top middle bottom)	No Default	No
bgcolor	Deprecated	(true false)	false	No
italics	Deprecated	(true false)	false	No
bold	Deprecated	(true false)	false	No
underline	Deprecated	(true false)	false	No
text	Deprecated	CDATA	No Default	No
textsize	Deprecated	(big normal small)	normal	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument title="Welcome">
  <AmlPage title="Table" bold="true">
    <AmlTable columns="3">
      <AmlTableRow>
        <AmlTableHead>
          <AmlText text="Name"/>
        </AmlTableHead>
        <AmlTableHead>
          <AmlText text="Location"/>
        </AmlTableHead>
        <AmlTableHead>
          <AmlText text="State"/>
        </AmlTableHead>
      </AmlTableRow>
      <AmlTableRow>
        <AmlTableCol>
          <AmlText text="Dev"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="Phoenix"/>
        </AmlTableCol>
      </AmlTableRow>
    </AmlTable>
  </AmlPage>
</AmlDocument>
```

```

        </AmlTableCol>
        <AmlTableCol>
            <AmlText text="AZ" />
        </AmlTableCol>
    </AmlTableRow>
    <AmlTableRow>
        <AmlTableCol>
            <AmlText text="Mktg" />
        </AmlTableCol>
        <AmlTableCol>
            <AmlText text="SFO" />
        </AmlTableCol>
        <AmlTableCol>
            <AmlText text="CA" />
        </AmlTableCol>
    </AmlTableRow>
</AmlTable>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0">
    <p align="center">Table</p>
    <p>
      <select>
        <option onpick="#agp0r1">Dev</option>
        <option onpick="#agp0r2">Mktg</option>
      </select>
    </p>
  </card>
  <card id="agp0r1">
    <p><b>Name : Dev<br/>Location : Phoenix<br/>State : AZ<br/>
      <a href="#agp0">Back</a>
    </p>
  </card>
  <card id="agp0r2">
    <p>Name : Mktg<br/>Location : SFO<br/>State : CA<br/>

```

```

        <a href="#agp0">Back</a>
    </p>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Table</b>
      </a>
    </div>
    <table>
      <tr>
        <td>Name</td>
        <td>Location</td>
        <td>State</td>
      </tr>
      <tr>
        <td>Dev</td>
        <td>Phoenix</td>
        <td>AZ</td>
      </tr>
      <tr>
        <td>Mktg</td>
        <td>SFO</td>
        <td>CA</td>
      </tr>
    </table>
  </body>
</html>

```


AmlTableRow

Description An `AmlTableRow` element is not a content containing element. `AmlTableRow` contains one or more `AmlTableHead` or `AmlTableCol` elements. If the header attribute is true, the row will appear on each of the pages where `AmlTableCol` elements are shown.

Element Body (`AmlContainer*`, (`AmlTableHead` | `AmlTableCol`)+, `AmlStyle?`, `AmlOrderedLayout?`, `AmlOrderedConstraints?`)

Parent `AmlTable`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
header	Set header option for row	(true false)	false	No
persist	Set persist flag on row	(true false)	false	No

Markup Language Examples

Sample AML Input:

```
<AmlDocument title="Welcome">
  <AmlPage title="Table" bold="true">
    <AmlTable columns="3">
      <AmlTableRow header="true">
        <AmlTableCol>
          <AmlText text="Name"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="Location"/>
        </AmlTableCol>
        <AmlTableCol>
          <AmlText text="State"/>
        </AmlTableCol>
      </AmlTableRow>
      <AmlTableRow>
        <AmlTableCol>
          <AmlText text="Dev"/>
        </AmlTableCol>
        <AmlTableCol>
```

```

        <AmlText text="Phoenix"/>
    </AmlTableCol>
    <AmlTableCol>
        <AmlText text="AZ"/>
    </AmlTableCol>
</AmlTableRow>
<AmlTableRow>
    <AmlTableCol>
        <AmlText text="Mktg"/>
    </AmlTableCol>
    <AmlTableCol>
        <AmlText text="SFO"/>
    </AmlTableCol>
    <AmlTableCol>
        <AmlText text="CA"/>
    </AmlTableCol>
</AmlTableRow>
</AmlTable>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head><meta http-equiv="Cache-Control" content="max-age=0"/></head>
  <card id="agp0">
    <p align="center">Table</p>
    <p>
      <select>
        <option onpick="#agp0r1">Dev</option>
        <option onpick="#agp0r2">Mktg</option>
      </select>
    </p>
  </card>
  <card id="agp0r1">
    <p>Name : Dev<br/>Location : Phoenix<br/>State : AZ<br/>
    <a href="#agp0">Back</a>
    </p>
  </card>
  <card id="agp0r2">
    <p>Name : Mktg<br/>Location : SFO<br/>State : CA<br/>

```

```

    <a href="#agp0">Back</a>
  </p>
</card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title>Welcome</title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">
        <b>Table</b>
      </a>
    </div>
    <table>
      <tr>
        <td>Name</td>
        <td>Location</td>
        <td>State</td>
      </tr>
      <tr>
        <td>Dev</td>
        <td>Phoenix</td>
        <td>AZ</td>
      </tr>
      <tr>
        <td>Mktg</td>
        <td>SFO</td>
        <td>CA</td>
      </tr>
    </table>
  </body>
</html>

```

AmlText

Description An `AmlText` is the element for placing text on a display. The text exhibited is the value of the text attribute. The text can be adjusted as to font size (`textsize` attribute), and horizontal alignment (`halign` attribute). The text can be made italic, bold, or underline.

Element Body ((`AmlContainer*`, `AmlStyle?`)

Parent `AmlPage`, `AmlChoice`, `AmlOption`, `AmlForm`, `AmlTableCol`, `AmlTableHead`, `AmlInput`, `AmlLink`, `AmlControlMenu`, `AmlCheckBox`, `AmlGroup`, `AmlListItem`, `AmlOrderedList`, `AmlList`, `AmlSelectList`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
text	Set text displayed	CDATA	No Default	No
textsize	Set size of text	(big normal small)	normal	No
halign	Set horizontal alignment	(left right center)	center	No
valign	Set vertical alignment	(top middle bottom)	normal	No
font	Set font	CDATA	No Default	No
italics	Set italics emphasis	(true false)	false	No
bold	Set bold emphasis	(true false)	false	No
underline	Set underline emphasis	(true false)	false	No
color	Set color	CDATA	No Default	No
blink	Set the text to blink	(true false)	false	No
marquee	Set the title to marquee	(true false)	false	No
cache	Set caching	(true false)	false	No
persist	Set the persist flag	(true false)	false	No
encode	Set the encode flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```

<AmlDocument>
  <AmlPage title="Hello World Page">
    <AmlText text="Hello World!"/>
  </AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center">Hello World Page</p>
    <p>Hello World!</p>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0">Hello World Page</a>
    </div>
    Hello World!
  </body>
</html>

```

AmlTextArea

Description An `AmlTextArea` offers a larger text input area than an `AmlText`. This element is used for descriptions. The `AmlTextArea` has an `AmlText` for its label. The value of the `name` attribute is the variable where entered content is available.

`AmlTextArea` can be added to an `AmlForm`.

Element Body ((`AmlContainer*`, (`AmlText` | `AmlImage`)?, `AmlStyle`?)

Parent `AmlForm`, `AmlTableCol`, `AmlGroup`, `AmlListItem`

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
<code>name</code>	Set variable name content	CDATA	No Default	Yes
<code>value</code>	Set value for text area	CDATA	No Default	No
<code>view</code>	Set view option	(show hidden none)	show	No
<code>height</code>	Set height of text area	CDATA	No Default	No
<code>width</code>	Set width of text area	CDATA	No Default	No
<code>format</code>	Set format	CDATA	No Default	No
<code>maxchars</code>	Set maxchars of text area	CDATA	No Default	No
<code>italics</code>	Deprecated	(true false)	false	No
<code>bold</code>	Deprecated	(true false)	false	No
<code>underline</code>	Set underline text	(true false)	false	No
<code>text</code>	Deprecated	CDATA	No Default	No
<code>textsize</code>	Deprecated	(big normal small)	normal	
<code>persist</code>	Set persist flag	(true false)	false	No

Markup Language Examples

Sample AML Input:

```

<?xml version="1.0" encoding="ISO-8859-6"?>
<AmlDocument>
  <AmlPage>
    <AmlForm url="http://watchita">
      <AmlTextArea name="desc" >
        <AmlText text="Description"/>
      </AmlTextArea>
    </AmlForm>
  </AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="agp0">
    <p align="center"></p>
    <p>
      <b>Description</b>
      <input emptyok="true" name="desc"/>
    </p>
    <do label="submit" type="accept">
      <go href="http://watchita?desc=$(desc)" sendreferer="true"
method="get"/>
    </do>
  </card>
</wml>

```

Sample cHTML Output:

```

<html>
  <head>
    <title></title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="agp0"></a>
    </div>
    <form enctype="application/x-www-form-urlencoded"

```

```

action="http://watchita" method="get">
  Description
  <textarea name="desc"></textarea><br>
  <input name="request" type="submit" value="Submit"></input>
</form>
</body>
</html>

```

AmlURL

Description An AmlURL element creates a URL in the document.

Element Body (AmlParam)*

Parent AmlPage, AmlChoice, AmlOption, AmlForm, AmlTableCol, AmlTableHead, AmlInput, AmlLink, AmlControlMenu, AmlCheckBox, AmlGroup, AmlListItem, AmlOrderedList, AmlList, AmlSelectList

Restrictions None

AML Attributes

Attribute	Description	Possible values	Default	Req'd?
action	Set the base location of the URL	CDATA	No Default	No
type	Set the attribute in which the URL is contained	wml_refresh	No Default	No
cache	Set caching	(true false)	true	No
persist	Set the persist flag	(true false)	true	No
encode	Set the encode flag	(true false)	true	No

Markup Language Examples

Sample AML Input:

```

<AmlDocument title="AmlURL ">
  <AmlPage menu_pos="bottom">
    <AmlLink>
      <AmlURL action="http://www.google.com/search">
        <AmlParam name="soda" value="true"/>
        <AmlParam name="flavour" value="orange"/>
      </AmlURL>
    </AmlLink>
  </AmlPage>
</AmlDocument>

```



```

        <AmlParam name="colour" value="orange"/>
    </AmlURL>
    <AmlText text="Hello World Link!"/>
</AmlLink>
<AmlBr/>
</AmlPage>
</AmlDocument>

```

Sample WML Output:

```

<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN"
"http://www.wapforum.org/DTD/wml_1.1.xml">
<wml>
  <head>
    <meta http-equiv="Cache-Control" content="max-age=0"/>
  </head>
  <card id="nt">
    <p align="center"></p>
    <p>Hello world</p>
    <do label="Next Page" type="options">
      <go href="#agp1" sendreferer="true"/>
    </do>
  </card>
  <card id="agp1">
    <do label="Previous Page" type="options">
      <go href="#nt" sendreferer="true"/>
    </do>
    <onevent type="ontimer">
      <go href="http://www.yahoo.com"/>
    </onevent>
    <timer value="1"/>
    <p align="center"></p>
    <p>
      <a
href="http://www.google.com/search?soda=true&flavour=orange&
amp;colour=orange"> Hello World Link!
      </a>
    </p>
    <p><br/></p>
  </card>
</wml>

```

Sample cHTML Output:

```
<html>
  <head>
    <title>AmlURL </title>
    <meta name="PalmComputingPlatform" content="true"></meta>
    <meta http-equiv="Pragma" content="no-cache"></meta>
    <meta http-equiv="Cache-Control" content="no-cache"></meta>
  </head>
  <body>
    <div align="center">
      <a name="nt"></a>
    </div>Hello world
    <div align="center">
      <a name="agpl"></a>
    </div>
    <a
href="http://www.google.com/search?soda=true&flavour=orange&colo
ur=orange">Hello World Link!</a>
    <br>
  </body>
</html>
```

Mobile Access Software Schema Reference

This chapter provides a reference for the Sun Java System Mobile Access software schema definitions used by the Sun Java System Identity Server software.

This chapter contains these sections:

- [Client Data Schema](#)
- [Address Book Schema](#)
- [Calendar Schema](#)
- [Mail Schema](#)

For information on Sun Java System Portal Server software schema definitions, see the *Portal Server Administration Guide*.

Client Data Schema

This section is a reference for client data. The `amClientData.xml` file is placed in the `opt/SUNWam/config/xml` directory during a default installation.

Code Example 10-1 Client Data Schema

```
<?xml version="1.0" encoding="XML_ENCODING"?>
<!--
  Copyright (c) 2004 Sun Microsystems, Inc. All rights reserved
  Use is subject to license terms.
-->

<!DOCTYPE ServicesConfiguration
  PUBLIC "-//iPlanet//Service Management Services (SMS) 1.0 DTD//EN"
  "jar://com/sun/identity/sm/sms.dtd">
```

Code Example 10-1 Client Data Schema (*Continued*)

```

<ServicesConfiguration>
  <Service name="SunAMClientData" version="1.0">
    <Schema
      i18nFileName="amClientData"
      i18nKey=""
      serviceHierarchy="" >
    <Global>

      <!-- Specifies if the ClientTypesManager can create new Client data -->
      <AttributeSchema name="enableClientCreation" type="single" syntax="boolean">
        <DefaultValues>
          <Value>true</Value>
        </DefaultValues>
      </AttributeSchema>

      <!-- For plug-in - to show in the Edit Page (Required + MAP specific) -->
      <AttributeSchema name="generalPropertyNames" i18nKey="generalPropertyNames"
type="list" syntax="string">
        <DefaultValues>
          <Value>clientType</Value>
          <Value>parentId</Value>
          <Value>userAgent</Value>
          <Value>CcppAccept-Charset</Value>
          <Value>contentType</Value>
          <Value>filePath</Value>
          <Value>cookieSupport</Value>
          <Value>counterName</Value>
          <Value>encoderClassName</Value>
          <Value>genericHTML</Value>
          <Value>ignoreHostHeader</Value>
          <Value>lineLength</Value>
        </DefaultValues>
      </AttributeSchema>

      <AttributeSchema name="hardwarePlatformNames" i18nKey="hardwarePlatformNames"
type="list" syntax="string">
        <DefaultValues>
          <Value>BluetoothProfile</Value>
          <Value>BitsPerPixel</Value>
          <Value>ColorCapable</Value>
          <Value>CPU</Value>
          <Value>ImageCapable</Value>
          <Value>InputCharset</Value>
          <Value>Keyboard</Value>
          <Value>Model</Value>
          <Value>NumberOfSoftKeys</Value>
          <Value>OutputCharset</Value>
          <Value>PixelAspectRatio</Value>
          <Value>PointingResolution</Value>
          <Value>ScreenSize</Value>
          <Value>ScreenSizeChar</Value>
          <Value>SoundOutputCapable</Value>
          <Value>StandardFontProportional</Value>
          <Value>TextInputCapable</Value>

```

Code Example 10-1 Client Data Schema (*Continued*)

```

        <Value>Vendor</Value>
        <Value>VoiceInputCapable</Value>
    </DefaultValues>
</AttributeSchema>

    <AttributeSchema name="softwarePlatformNames" i18nKey="softwarePlatformNames"
type="list" syntax="string">
    <DefaultValues>
        <Value>AcceptDownloadableSoftware</Value>
        <Value>AudioInputEncoder</Value>
        <Value>CcppAccept</Value>
        <Value>CcppAccept-Encoding</Value>
        <Value>CcppAccept-Language</Value>
        <Value>DownloadableSoftwareSupport</Value>
        <Value>JavaEnabled</Value>
        <Value>JavaPlatform</Value>
        <Value>JVMVersion</Value>
        <Value>MexeClassmarks</Value>
        <Value>MexeSecureDomains</Value>
        <Value>MexeSpec</Value>
        <Value>OSName</Value>
        <Value>OSVendor</Value>
        <Value>OSVersion</Value>
        <Value>RecipientAppAgent</Value>
        <Value>SoftwareNumber</Value>
        <Value>VideoInputEncoder</Value>
    </DefaultValues>
</AttributeSchema>

    <AttributeSchema name="networkCharacteristicsNames"
i18nKey="networkCharacteristicsNames" type="list" syntax="string">
    <DefaultValues>
        <Value>CurrentBearerService</Value>
        <Value>SecuritySupport</Value>
        <Value>SupportedBearers</Value>
        <Value>SupportedBluetoothVersion</Value>
    </DefaultValues>
</AttributeSchema>

    <AttributeSchema name="browserUANames" i18nKey="browserUANames" type="list"
syntax="string">
    <DefaultValues>
        <Value>BrowserName</Value>
        <Value>BrowserVersion</Value>
        <Value>DownloadableBrowserApps</Value>
        <Value>FramesCapable</Value>
        <Value>HtmlVersion</Value>
        <Value>JavaAppletEnabled</Value>
        <Value>JavaScriptEnabled</Value>
        <Value>JavaScriptVersion</Value>
        <Value>PreferenceForFrames</Value>
        <Value>TablesCapable</Value>
        <Value>XhtmlModules</Value>
        <Value>XhtmlVersion</Value>

```

Code Example 10-1 Client Data Schema (*Continued*)

```

    </DefaultValues>
  </AttributeSchema>

  <AttributeSchema name="wapCharacteristicsNames" i18nKey="wapCharacteristicsNames"
type="list" syntax="string">
    <DefaultValues>
      <Value>SupportedPictogramSet</Value>
      <Value>WapDeviceClass</Value>
      <Value>WapVersion</Value>
      <Value>WmlDeckSize</Value>
      <Value>WmlScriptLibraries</Value>
      <Value>WmlScriptVersion</Value>
      <Value>WmlVersion</Value>
      <Value>WtaiLibraries</Value>
      <Value>WtaVersion</Value>
    </DefaultValues>
  </AttributeSchema>

  <AttributeSchema name="pushCharacteristicsNames"
i18nKey="pushCharacteristicsNames" type="list" syntax="string">
    <DefaultValues>
      <Value>Push-Accept</Value>
      <Value>Push-Accept-Charset</Value>
      <Value>Push-Accept-Encoding</Value>
      <Value>Push-Accept-Language</Value>
      <Value>Push-Accept-AppID</Value>
      <Value>Push-MsgSize</Value>
      <Value>Push-MaxPushReq</Value>
    </DefaultValues>
  </AttributeSchema>

  <AttributeSchema name="additionalPropertiesNames"
i18nKey="additionalPropertiesNames" type="list" syntax="string">
    <DefaultValues>
      <Value>additionalProperties</Value>
    </DefaultValues>
  </AttributeSchema>

  <!-- END - property names by classification -->

  <AttributeSchema name="configInfo" i18nKey="" type="list" syntax="string">
    <DefaultValues>
      <Value>objectclass=sunAMClient</Value>
      <Value>umsAddTemplateName=Client</Value>
      <Value>umsSearchTemplateName=BasicClientSearch</Value>
      <Value>prefixForAttr=sunamclient</Value>
      <Value>rdn=ou</Value>
      <Value>clientDN=ou=1.0,ou=SunAMClientData,ou=ClientData</Value>
      <Value>minimalClientAttrs=rdn,userAgent,parentId</Value>
    </DefaultValues>
  </AttributeSchema>
  <!-- End config info for Schema APIs -->

  <!-- schema to store the client DB -->

```

Code Example 10-1 Client Data Schema (Continued)

```

<SubSchema name="clientDBStore">

  <SubSchema name="clientData">

    <!-- required properties -->
    <AttributeSchema name="clientType" i18nKey="clientType"
      any="required|display" type="single" syntax="string"
    />
    <AttributeSchema name="parentId" i18nKey="parentId"
      any="display" type="single_choice" syntax="string">
      <ChoiceValues>
        <ChoiceValue i18nKey="HTML">HTML</ChoiceValue>
        <ChoiceValue i18nKey="WML">WML</ChoiceValue>
        <ChoiceValue i18nKey="WML/Nokia">Nokia</ChoiceValue>
        <ChoiceValue i18nKey="WML/WAP2">WAP2</ChoiceValue>
        <ChoiceValue i18nKey="XHTML">XHTML</ChoiceValue>
        <ChoiceValue i18nKey="XHTML/XHtmlEzweb">XHtmlEzweb</ChoiceValue>
        <ChoiceValue i18nKey="VoiceXML">VoiceXML</ChoiceValue>
        <ChoiceValue i18nKey="cHTML">cHTML</ChoiceValue>
        <ChoiceValue i18nKey="iHTML">iHTML</ChoiceValue>
        <ChoiceValue i18nKey="iHTML/Ihtml-1">Ihtml-1</ChoiceValue>
        <ChoiceValue i18nKey="iHTML/Ihtml-2">Ihtml-2</ChoiceValue>
        <ChoiceValue i18nKey="iHTML/Ihtml-3">Ihtml-3</ChoiceValue>
        <ChoiceValue i18nKey="iHTML/Ihtml-4">Ihtml-4</ChoiceValue>
        <ChoiceValue i18nKey="iHTML/L-mode">L-mode</ChoiceValue>
        <ChoiceValue i18nKey="JHTML">JHTML</ChoiceValue>
        <ChoiceValue i18nKey="JHTML/Jhtml-2">Jhtml-2</ChoiceValue>
        <ChoiceValue i18nKey="JHTML/Jhtml-3">Jhtml-3</ChoiceValue>
        <ChoiceValue i18nKey="HDML">HDML</ChoiceValue>
      </ChoiceValues>
    </AttributeSchema>

    <AttributeSchema name="userAgent" i18nKey="userAgent"
      any="required|display" type="single" syntax="string"
    />

    <!-- optional properties -->
    <AttributeSchema name="contentType" i18nKey="contentType"
      any="display" type="single" syntax="string"
    />
    <AttributeSchema name="filePath" i18nKey="filePath"
      any="display" type="single" syntax="string"
    />
    <AttributeSchema name="cookieSupport" i18nKey="cookieSupport"
      any="display" type="single_choice" syntax="string">
    <ChoiceValues>
    <ChoiceValue i18nKey="cookieDetect">cookieDetect</ChoiceValue>
    <ChoiceValue i18nKey="cookieSupport">>true</ChoiceValue>
    <ChoiceValue i18nKey="noCookieSupport">>false</ChoiceValue>
    </ChoiceValues>
    </AttributeSchema>
    <AttributeSchema name="counterName" i18nKey="counterName"
      any="display" type="single" syntax="string"
    />
    <AttributeSchema name="encoderClassName" i18nKey="encoderClassName"

```

Code Example 10-1 Client Data Schema (*Continued*)

```

    any="display" type="single" syntax="string"
  />
<AttributeSchema name="genericHTML" i18nKey="genericHTML"
  any="display" type="single" syntax="boolean"
  />
<AttributeSchema name="ignoreHostHeader" i18nKey="ignoreHostHeader"
  any="display" type="single" syntax="boolean"
  />
<AttributeSchema name="lineLength" i18nKey="lineLength"
  any="display" type="single" syntax="number"
  />

<!-- UAPProfile HardwarePlatform properties -->

<AttributeSchema name="BluetoothProfile" i18nKey="BluetoothProfile"
  any="display" type="list" syntax="string"
  />
<AttributeSchema name="BitsPerPixel" i18nKey="BitsPerPixel"
  any="display" type="single" syntax="number"
  />
<AttributeSchema name="ColorCapable" i18nKey="ColorCapable"
  any="display" type="single" syntax="boolean"
  />
<AttributeSchema name="CPU" i18nKey="CPU"
  any="display" type="single" syntax="string"
  />
<AttributeSchema name="ImageCapable" i18nKey="ImageCapable"
  any="display" type="single" syntax="boolean"
  />
<AttributeSchema name="InputCharset" i18nKey="InputCharset"
  any="display" type="list" syntax="string"
  />
<AttributeSchema name="Keyboard" i18nKey="Keyboard"
  any="display" type="single" syntax="string"
  />
<AttributeSchema name="Model" i18nKey="Model"
  any="display" type="single" syntax="string"
  />
<AttributeSchema name="NumberOfSoftKeys" i18nKey="NumberOfSoftKeys"
  any="display" type="single" syntax="number"
  />
<AttributeSchema name="OutputCharset" i18nKey="OutputCharset"
  any="display" type="list" syntax="string"
  />
<AttributeSchema name="PixelAspectRatio" i18nKey="PixelAspectRatio"
  any="display" type="single" syntax="string"
  />
<AttributeSchema name="PointingResolution" i18nKey="PointingResolution"
  any="display" type="single" syntax="string"
  />
<AttributeSchema name="ScreenSize" i18nKey="ScreenSize"
  any="display" type="single" syntax="string"
  />
<AttributeSchema name="ScreenSizeChar" i18nKey="ScreenSizeChar"
  any="display" type="single" syntax="string"

```


Code Example 10-1 Client Data Schema (*Continued*)

```

/>
<AttributeSchema name="SoundOutputCapable" i18nKey="SoundOutputCapable"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="StandardFontProportional"
i18nKey="StandardFontProportional"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="TextInputCapable" i18nKey="TextInputCapable"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="Vendor" i18nKey="Vendor"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="VoiceInputCapable" i18nKey="VoiceInputCapable"
  any="display" type="single" syntax="boolean"
/>

<!-- UAPProfile SoftwarePlatform properties -->

<AttributeSchema name="AcceptDownloadableSoftware"
i18nKey="AcceptDownloadableSoftware"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="AudioInputEncoder" i18nKey="AudioInputEncoder"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="CcppAccept" i18nKey="CcppAccept"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="CcppAccept-Charset" i18nKey="CcppAccept-Charset"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="CcppAccept-Encoding" i18nKey="CcppAccept-Encoding"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="CcppAccept-Language" i18nKey="CcppAccept-Language"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="DownloadableSoftwareSupport "
i18nKey="DownloadableSoftwareSupport"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="JavaEnabled" i18nKey="JavaEnabled"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="JavaPlatform" i18nKey="JavaPlatform"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="JVMVersion" i18nKey="JVMVersion"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="MexeClassmarks" i18nKey="MexeClassmarks"
  any="display" type="list" syntax="string"

```

Code Example 10-1 Client Data Schema (*Continued*)

```

/>
<AttributeSchema name="MexeSecureDomains" i18nKey="MexeSecureDomains"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="MexeSpec" i18nKey="MexeSpec"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="OSName" i18nKey="OSName"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="OSVendor" i18nKey="OSVendor"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="OSVersion" i18nKey="OSVersion"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="RecipientAppAgent" i18nKey="RecipientAppAgent"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="SoftwareNumber" i18nKey="SoftwareNumber"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="VideoInputEncoder" i18nKey="VideoInputEncoder"
  any="display" type="list" syntax="string"
/>

<!-- UAPProfile Network Characteristic properties -->

<AttributeSchema name="CurrentBearerService" i18nKey="CurrentBearerService"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="SecuritySupport" i18nKey="SecuritySupport"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="SupportedBearers" i18nKey="SupportedBearers"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="SupportedBluetoothVersion"
i18nKey="SupportedBluetoothVersion"
  any="display" type="single" syntax="string"
/>

<!-- UAPProfile BrowserUA properties -->

<AttributeSchema name="BrowserName" i18nKey="BrowserName"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="BrowserVersion" i18nKey="BrowserVersion"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="DownloadableBrowserApps" i18nKey="DownloadableBrowserApps"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="FramesCapable" i18nKey="FramesCapable"
  any="display" type="single" syntax="boolean"

```

Code Example 10-1 Client Data Schema (*Continued*)

```

/>
<AttributeSchema name="HtmlVersion" i18nKey="HtmlVersion"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="JavaAppletEnabled" i18nKey="JavaAppletEnabled"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="JavaScriptEnabled" i18nKey="JavaScriptEnabled"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="JavaScriptVersion" i18nKey="JavaScriptVersion"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="PreferenceForFrames" i18nKey="PreferenceForFrames"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="TablesCapable" i18nKey="TablesCapable"
  any="display" type="single" syntax="boolean"
/>
<AttributeSchema name="XhtmlModules" i18nKey="XhtmlModules"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="XhtmlVersion" i18nKey="XhtmlVersion"
  any="display" type="single" syntax="string"
/>

<!-- UAProfile WapCharacteristics properties -->

<AttributeSchema name="SupportedPictogramSet" i18nKey="SupportedPictogramSet"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="WapDeviceClass" i18nKey="WapDeviceClass"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="WapVersion" i18nKey="WapVersion"
  any="display" type="single" syntax="string"
/>
<AttributeSchema name="WmlDeckSize" i18nKey="WmlDeckSize"
  any="display" type="single" syntax="number"
/>
<AttributeSchema name="WmlScriptLibraries" i18nKey="WmlScriptLibraries"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="WmlScriptVersion" i18nKey="WmlScriptVersion"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="WmlVersion" i18nKey="WmlVersion"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="WtaiLibraries" i18nKey="WtaiLibraries"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="WtaVersion" i18nKey="WtaVersion"
  any="display" type="single" syntax="string"
/>

```

Code Example 10-1 Client Data Schema (*Continued*)

```

<!-- UAPProfile PushCharacteristics properties -->

<AttributeSchema name="Push-Accept" i18nKey="Push-Accept"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="Push-Accept-Charset" i18nKey="Push-Accept-Charset"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="Push-Accept-Encoding" i18nKey="Push-Accept-Encoding"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="Push-Accept-Language" i18nKey="Push-Accept-Language"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="Push-Accept-AppID" i18nKey="Push-Accept-AppID"
  any="display" type="list" syntax="string"
/>
<AttributeSchema name="Push-MsgSize" i18nKey="Push-MsgSize"
  any="display" type="single" syntax="number"
/>
<AttributeSchema name="Push-MaxPushReq" i18nKey="Push-MaxPushReq"
  any="display" type="single" syntax="number"
/>

<!-- additional properties -->

<AttributeSchema name="additionalProperties" i18nKey="additionalProperties"
  any="display" type="list" syntax="string"
/>
</SubSchema>
</SubSchema> <!-- end database schema -->

<!-- store the profilemanager.xml -->

<AttributeSchema name="profileManagerXML" type="single" syntax="xml" />

</Global>
</Schema>
</Service>
</ServicesConfiguration>

```

Address Book Schema

This section is a reference for the mobile address book application. During a default installation the `SunMobileAppABService.xml` file is placed in the `/portal-server-installation-root/SUNWps/export/service` directory.

Code Example 10-2 Address Book Schema

```

<?xml version="1.0" encoding="ISO-8859-1"?>

<!--
  Copyright 2001 Sun Microsystems, Inc. All rights reserved.
  PROPRIETARY/CONFIDENTIAL. Use of this product is subject to license terms.

  MAP Address Book Service Definition
-->

<!DOCTYPE ServicesConfiguration
  PUBLIC "-//Sun ONE//Service Management Services (SMS) 1.0 DTD//EN"
  "file:%IDSAME_BASEDIR%/SUNWam/dtd/sms.dtd">

<ServicesConfiguration>
  <Service name="SunMobileAppABService" version="1.0">
    <Schema
      il8nFileName="SunMobileAppABService"
      serviceHierarchy="/app.configuration/SunMobileAppABService"
      il8nKey="abServiceDescription">
      <Global>
        <AttributeSchema name="serviceObjectClasses"
          type="list"
          syntax="string"
          il8nKey="">
          <DefaultValues>
            <Value>SunMobileAppABPerson</Value>
          </DefaultValues>
        </AttributeSchema>

        <AttributeSchema name="sunConfigurationTemplates"
          type="list"
          syntax="string"
          any="display"
          il8nKey="sunConfigurationTemplatesDescription">
        </AttributeSchema>

        <AttributeSchema name="sunMobileAppABJspAbNumLines"
          type="list"
          syntax="string"
          any="display"
          il8nKey="jspAbNumLines">
          <DefaultValues>
            <Value>default|9</Value>
          </DefaultValues>
        </AttributeSchema>
      </Global>

    <!-- TBD as per ID6.0
      <Policy>
        <ActionSchema name="sunMobileAppABExecutable"
          type="single"
          syntax="boolean"
          any="display"
          cosQualifier="default"

```

Code Example 10-2 Address Book Schema (Continued)

```

<?xml version="1.0" encoding="ISO-8859-1"?>
  i18nKey="privilege">
    <DefaultValues>
      <Value>true</Value>
    </DefaultValues>
  </ActionSchema>
</Policy>
-->

<Dynamic>
  <AttributeSchema name="sunMobileAppABConfig"
    type="list"
    syntax="string"
    any="display"
    cosQualifier="merge-schemes"
    i18nKey="appConfig">
  </AttributeSchema>
</Dynamic>

<User>
  <AttributeSchema name="sunMobileAppABSortBy"
    type="single"
    syntax="string"
    any="display"
    i18nKey="sortBy">
    <DefaultValues>
      <Value>fn</Value>
    </DefaultValues>
  </AttributeSchema>

  <AttributeSchema name="sunMobileAppABSortOrder"
    type="single_choice"
    syntax="string"
    any="display"
    i18nKey="sortOrder">
    <ChoiceValues>
      <ChoiceValue i18nKey="ascending">asc</ChoiceValue>
      <ChoiceValue i18nKey="descending">dsc</ChoiceValue>
      <ChoiceValue i18nKey="none">none</ChoiceValue>
    </ChoiceValues>
    <DefaultValues>
      <Value>asc</Value>
    </DefaultValues>
  </AttributeSchema>
  <AttributeSchema name="sunMobileAppABConfig"
    type="list"
    syntax="string"
    any="display"
    i18nKey="appConfig">
  </AttributeSchema>
</User>
</Schema>
</Service>
</ServicesConfiguration>

```

Calendar Schema

This section is a reference for the mobile calendar application. During a default installation the `SunMobileAppCalendarService.xml` file is placed in the `/portal-server-installation-root/SUNWps/export/service` directory.

Code Example 10-3 Calendar Schema

```
<?xml version="1.0" encoding="ISO-8859-1"?>

<!--
  Copyright 2001 Sun Microsystems, Inc. All rights reserved.
  PROPRIETARY/CONFIDENTIAL. Use of this product is subject to license terms.

  MAP Calendar Service Definition
-->

<!DOCTYPE ServicesConfiguration
  PUBLIC "-//Sun ONE//Service Management Services (SMS) 1.0 DTD//EN"
  "file:%IDSAME_BASEDIR%/SUNWam/dtd/sms.dtd">

<ServicesConfiguration>
  <Service name="SunMobileAppCalendarService" version="1.0">
    <Schema
      i18nFileName="SunMobileAppCalendarService"
      serviceHierarchy="/app.configuration/SunMobileAppCalendarService"
      i18nKey="calServiceDescription">
      <Global>
        <AttributeSchema name="serviceObjectClasses"
          type="list"
          syntax="string"
          i18nKey="">
          <DefaultValues>
            <Value>SunMobileAppCalendarPerson</Value>
          </DefaultValues>
        </AttributeSchema>

        <AttributeSchema name="sunConfigurationTemplates"
          type="list"
          syntax="string"
          any="display"
          i18nKey="sunConfigurationTemplatesDescription">
        </AttributeSchema>

        <AttributeSchema name="sunMobileAppCalendarJspCalendarNumLines"
          type="list"
          syntax="string"
          any="display"
          i18nKey="jspCalendarNumLines">
          <DefaultValues>
            <Value>default|7</Value>
          </DefaultValues>
        </AttributeSchema>
      </Global>
    </Schema>
  </Service>
</ServicesConfiguration>
```

Code Example 10-3 Calendar Schema (Continued)

```

<AttributeSchema name="sunMobileAppCalendarJspEventNumLines"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspEventNumLines">
  <DefaultValues>
    <Value>default|7</Value>
  </DefaultValues>
</AttributeSchema>
<AttributeSchema name="sunMobileAppCalendarJspSummaryLength"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspSummaryLength">
  <DefaultValues>
    <Value>default|25</Value>
  </DefaultValues>
</AttributeSchema>
<AttributeSchema name="sunMobileAppCalendarJspLocationLength"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspLocationLength">
  <DefaultValues>
    <Value>default|25</Value>
  </DefaultValues>
</AttributeSchema>

<AttributeSchema name="sunMobileAppCalendarJspDescLength"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspDescLength">
  <DefaultValues>
    <Value>default|300</Value>
  </DefaultValues>
</AttributeSchema>
</Global>

<Dynamic>
  <AttributeSchema name="sunMobileAppCalendarConfig"
    type="list"
    syntax="string"
    any="display"
    cosQualifier="merge-schemes"
    i18nKey="appConfig">
  </AttributeSchema>
</Dynamic>
<User>
  <AttributeSchema name="sunMobileAppCalendarConfig"
    type="list"
    syntax="string"
    any="display"
    i18nKey="appConfig">
  </AttributeSchema>

```


Code Example 10-3 Calendar Schema (Continued)

```

    </User>

    </Schema>
  </Service>
</ServicesConfiguration>

```

Mail Schema

This section is a reference for the mobile mail application. During a default installation the `SunMobileAppMailService.xml` file is placed in the `/portal-server-installation-root/SUNWps/export/service` directory.

Code Example 10-4 Mail Schema

```

<?xml version="1.0" encoding="ISO-8859-1"?>

<!--
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  PROPRIETARY/CONFIDENTIAL. Use of this product is subject to license terms.

  MAP Mail Service Definition
-->

<!DOCTYPE ServicesConfiguration
  PUBLIC "-//iPlanet//Service Management Services (SMS) 1.0 DTD//EN"
  "file:%IDSAME_BASEDIR%/SUNWam/dtd/sms.dtd">

<ServicesConfiguration>
  <Service name="SunMobileAppMailService" version="1.0">
    <Schema
      i18nFileName="SunMobileAppMailService"
      serviceHierarchy="/app.configuration/SunMobileAppMailService"
      i18nKey="mailServiceDescription">
      <Global>
        <AttributeSchema name="serviceObjectClasses"
          type="list"
          syntax="string"
          i18nKey="">
          <DefaultValues>
            <Value>SunMobileAppMailPerson</Value>
          </DefaultValues>
        </AttributeSchema>

        <AttributeSchema name="sunConfigurationTemplates"
          type="list"
          syntax="string"
          any="display"
          i18nKey="sunConfigurationTemplatesDescription">

```

Code Example 10-4 Mail Schema (Continued)

```

</AttributeSchema>

<AttributeSchema name="sunMobileAppMailJspNumFolders"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspNumFolders">
  <DefaultValues>
    <Value>default|9</Value>
  </DefaultValues>
</AttributeSchema>

<AttributeSchema name="sunMobileAppMailJspInboxNumLines"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspInboxNumLines">
  <DefaultValues>
    <Value>default|9</Value>
  </DefaultValues>
</AttributeSchema>

<AttributeSchema name="sunMobileAppMailJspMsgNumLines"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspMsgNumLines">
  <DefaultValues>
    <Value>default|9</Value>
  </DefaultValues>
</AttributeSchema>

<AttributeSchema name="sunMobileAppMailJspFromLength"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspFromLength">
  <DefaultValues>
    <Value>default|23</Value>
  </DefaultValues>
</AttributeSchema>

<AttributeSchema name="sunMobileAppMailJspSubjectLength"
  type="list"
  syntax="string"
  any="display"
  i18nKey="jspSubjectLength">
  <DefaultValues>
    <Value>default|23</Value>
  </DefaultValues>
</AttributeSchema>

<AttributeSchema name="sunMobileAppMailOutboundMailCharset"
  type="list"
  syntax="string"
  any="display"
  i18nKey="outboundMailCharset">

```

Code Example 10-4 Mail Schema (Continued)

```

        <DefaultValues>
            <Value>Shift_JIS=ISO-2022-JP</Value>
        </DefaultValues>
    </AttributeSchema>
</Global>

<Organization>
    <AttributeSchema name="sunMobileAppMailDefaultMailDomain"
        type="single"
        syntax="string"
        any="display"
        i18nKey="defaultMailDomain">
    </AttributeSchema>
</Organization>

<Dynamic>
    <AttributeSchema name="sunMobileAppMailConfig"
        type="list"
        syntax="string"
        any="display"
        cosQualifier="merge-schemes"
        i18nKey="appConfig">
    </AttributeSchema>
</Dynamic>

<User>
    <AttributeSchema name="sunMobileAppMailSignature"
        type="single"
        syntax="paragraph"
        any="display"
        i18nKey="signature">
    </AttributeSchema>

    <AttributeSchema name="sunMobileAppMailPredefinedReplies"
        type="list"
        syntax="string"
        any="display"
        i18nKey="predefinedReplies">
    </AttributeSchema>

    <AttributeSchema name="sunMobileAppMailViewClients"
        type="list"
        syntax="string"
        any="display"
        i18nKey="viewClients">
    </AttributeSchema>

    <AttributeSchema name="sunMobileAppMailViews"
        type="list"
        syntax="string"
        any="display"
        i18nKey="views">
    </AttributeSchema>

    <AttributeSchema name="sunMobileAppMailViewRules"

```

Code Example 10-4 Mail Schema (*Continued*)

```
        type="list"
        syntax="string"
        any="display"
        i18nKey="viewRules">
</AttributeSchema>

<AttributeSchema name="sunMobileAppMailConfig"
  type="list"
  syntax="string"
  any="display"
  i18nKey="appConfig">
</AttributeSchema>
</User>

</Schema>
</Service>
</ServicesConfiguration>
```

Glossary

Refer to the Java Enterprise System Glossary (<http://docs.sun.com/doc/816-6873>) for a complete list of terms that are used in this documentation set.

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