



Web Browser Frequently Asked Questions (FAQ)

Avaya™ IP Telephone Interface

Release 2.2 for 4610SW, 4620/4620SW,
4621SW, and 4622SW IP Telephones
Release 2.5 for the 4625SW IP Telephone

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April 2005**

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Telecommunications security (of voice, data, and/or video communications) is the prevention of any type of intrusion to (that is, either unauthorized or malicious access to or use of) your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

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Such intrusions may be either to/through synchronous (timemultiplexed and/or circuit-based) or asynchronous (character, message-, or packet-based) equipment or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)

- Theft (such as, of intellectual property, financial assets, or toll facility access)
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- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company (including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

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- System administration documents
- Security documents
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

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- Your Avaya-provided telecommunications systems and their interfaces
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Customers may experience differences in product performance, reliability and security depending upon network configurations/design and topologies, even when the product performs as warranted.

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For the most current versions of documentation, go to the Avaya support Web site: <http://www.avaya.com/support>

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Introduction...

The Avaya™ 4610SW/4620/4621/4622/4625 IP Telephones comes with a XML-capable Web Browser Interface (will be referred to as the Web Browser henceforth).

Model (Set type)	Picture of the phone	Web Browser	Web Display Size (W X H) in pixels	Type of Display	Image Type Support	Push Supported
4610SW		XML (WML)	153 x 44	Grayscale	WBMP	Yes
4620/4620SW		XML (WML)	153 x 96	Grayscale	WBMP	Yes
4621SW		XML (WML)	153 x 96	Backlit – Grayscale	WBMP	Yes
4622SW		XML (WML)	153 x 96	Backlit- Grayscale (IP Callmaster w/o handset)	WBMP	Yes
4625SW		XML (WML) w/ CSS support	291 x 180	Color 16-bit (65536 colors)	JPEG WBMP	Yes

The 4620/4621/4622 IP telephones have a 168 pixel-by-132 pixel four-gray scale LCD display. The area of the display available for presenting a WML web page to the user is 153 pixels across by 96 pixels in height, arranged in 6 rows each 16 pixels in height.

The 4610SW IP telephone has a 168 pixel-by-80 pixel four-gray scale LCD display. The area of the display available for presenting a WML web page to the user is 153 pixels across by 44 pixels in height, arranged in 3 rows each 16 pixels in height.

The 4625SW IP telephone has a ¼-VGA display – 320 pixel-by-240 pixel – and supports 65K Colors (16-bit) LCD display. The area of the display available for presenting a WML web page to the user is 291 pixels across by 180 pixels in height, arranged in 6 rows each 30 pixels in height.

In addition, on all the telephones, the top row will display the web page title (if any) and the bottom row presents up to four softkey labels at one time, each a maximum of 6 characters, that are used for <do> tags.

The 4625SW IP telephone can display JPEG color & WBMP images both as part of WML content in the application area and also for the softkey labels.

The 4610SW IP telephone supports all the data type, features, tags, etc. that the 4620 supports. The only difference is the size and the area of the display. Unless otherwise indicated, all the subsequent references to the 4620 IP telephones and its Web Application equally apply to the 4610SW IP telephone.

The data types and other features supported in this browser include:

- WML 1.2 June 2000 (WML 1.3)
- WBMP image format
- Wireless Telephony Application Interface (WTAI) support
- HTTP 1.1
- **Push Interface support (There is a separate document available to download for Push specific FAQs on our [Avaya Support web site](http://support.avaya.com))**
- Cascading Style Sheets (CSS – for 4625SW IP phone only)
- JPEG color images (for 4625SW IP Phone only)

The Web Browser FAQ is a continuously changing document. Please remember to download the latest copy from the Avaya Support web site at <http://support.avaya.com>.

NOTE: In this document Avaya 4610/4620/4621/4622/4625 Web Browser will be referred to as “Web Browser” unless otherwise mentioned.

Release Matrix

Release	Date	Comments
1.71	August 2002	➤ First release of the Web Browser.
1.72	December 2002	➤ Multilingual display capability added. ➤ Bug fixes in the Web Browser Software.
1.73	February 2003	➤ A patch release for 1.72 ➤ No new functionality has been added.
1.8	June 2003	➤ Added support for WBMP images. ➤ Added new WTAI “Add to Speed Dial” functionality. ➤ New HTTP USER AGENT string ➤ 3 additional languages added ➤ Enhanced Local Dialing lets you dial directly from the web pages without manipulating dial strings.

2.0	April 2004	<ul style="list-style-type: none"> ➤ Added Web Browser support for Avaya 4610 IP Telephone ➤ Display independent Page Left and Page Right icons to indicate the ability to go back and forth in a history stack ➤ Added support of UTF-8, ISO 8859-1 (Latin 1) encoded WML
2.1	July 2004	<ul style="list-style-type: none"> ➤ Added the new Push Interface API that allows to Push information to the phone ➤ Added support for HTTP POST method
2.2	April 2005	<ul style="list-style-type: none"> ➤ Added New sets – 4621SW and 4622SW ➤ Access Key Feature (Map Dial Pad keys to a URL)
2.5 (does not include 2.2 features)	April 2005	<ul style="list-style-type: none"> ➤ Added New Color set – 4625SW ➤ Added CSS color tag support ➤ Added Color JPEG image support ➤ This release does not include 2.2 features; includes feature-set from 2.1 release

Acronyms and Glossary

Item	Definition
AIM	Access Key Input Mode –A new text-entry mode that allows the user to access a particular URL by selecting a single key from the dial pad.
Card	A WML card is similar to an HTML page, but WML delivers a set (deck) of closely related cards. The complete WML page comprises a collection of various cards, of which only one is visible on the browser at one time. As each of the cards is labeled by a name and ID, they can be linked together without difficulty. The WML page provider determines the content of the card. The browser determines how this card will be displayed (rendered).
CSS2	Cascading Style Sheets 2. CSS2 is a style sheet language that allows web page authors to affix style (e.g., Color in current context) to structured documents (e.g., WML applications).
Deck	A deck can be described as a stack of cards. When the browser downloads a WML page, it really is downloading a deck of cards but only one card in the deck is visible at a time.
HTML	HyperText Markup Language. Hyper Text Markup Language is a text-based way of describing data for transmission over the Internet HTML is usually used with larger, color displays.
HTTP	Hypertext Transfer Protocol. Hyper Text Transfer Protocol is a protocol that a web server and a web client use to contact each other and request and deliver files.
LAN	Local Area Network
MIME	Multi-purpose Internet Mail Extensions
SDK	Software Developer's Kit
URL	A URL (Uniform Resource Locator, previously Universal Resource Locator) - is the address of a file (resource) accessible on the Internet.
User-agent	The client that initiates a request. These are often browsers, editors, spiders (web-traversing robots), or other end user tools.
W3C	The Worldwide Web Consortium, which has become the key standards body for most of the XML-related technologies.
WAP	Wireless Application Protocol is an open global standard for wireless solutions that includes WML.
WBMP	WBMP is a Bitmap graphic format that is required for the integration of graphics into WML pages.
Well formed	An XML document whose tags and data are consistent with XML 1.0 syntax.
WML	Wireless Markup Language is a subset of XML that was developed for WAP. It allows for text display on a device, card and deck organization, navigation and linking, and state management. WML was designed for low-bandwidth, small-display devices. As part of this design, the concept of a deck of cards was utilized. A single WML document (i.e., the elements contained with the <wml> document element) is known as a deck. A single interaction between a user agent and a user is known as a card. Multiple screens (cards) can be downloaded to the client in a single retrieval.
WTAI	Wireless Telephony Application Interface is a set of interfaces that extend the WAE (Wireless Application Environment) to include telephony applications.
XML 1.0	The first standard for XML syntax blessed by the W3C; establishes

	basic rules for XML data, such as all tags must be closed with a slash (/) like this: <example/> or followed by a closing tag like this: <example>close the tag on your way out</example>.
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Documentation, API FAQ

DOC_1	Section: DOCUMENTATION
Question	What are all the documents, white-papers, etc available for an application developer for the Avaya IP Telephones?
Answer	<p>There is a uniform document called "List of Documents" that consists of all the available supporting documents for the IP Telephones APIs. This document describes all the available APIs, white papers, and code samples with a brief description and how to download them from the Avaya Support web site.</p> <p>This document can be found on the Avaya Support Center web site, by navigating to our web site as follows:</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p>

DOC_2	Section: DOCUMENTATION
Question	What is the location of the API document?
Answer	<p>The API can be found using the following navigation path from http://www.avaya.com</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p> <p>The document is titled: 4600 Series IP Telephone Interfaces API Guide</p>

DOC_3	Section: DOCUMENTATION
Question	Where can I find the sample hosted web site? What does it contain? Can I download these sample pages?
Answer	<p>Location of the sample hosted web site is as follows: -</p> <p>For 4610/4620/4621/4622 IP Phones: http://support.avaya.com/elmodocs2/avayaip/4620/home.wml</p> <p>For 4625 Color IP Phone: http://support.avaya.com/elmodocs2/avayaip/4625/default.wml</p> <p>Contents of the ZIP file:</p> <ul style="list-style-type: none">• WML source pages for the sample launch screen web application <p>Yes, you may download the sample web browser pages (zipped WML pages). The location of the zipped file can be found using the following navigation path from http://www.avaya.com</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p>

DOC_4	Section: DOCUMENTATION
Question	Are there any sample applications or real world applications available for the Web Browser?
Answer	<p>A good example of a real world application is the server based implementation of the corporate LDAP directory application for the Web Browser named the "Avaya Directory Thin Client Application".</p> <p>This Directory application can be downloaded from: Home > Support > 4600 IP Telephones > Downloads</p>

General FAQ, Browser behavior and capabilities...

This section answers basic questions about the Web Browser and clears the myths and misconceptions.

GEN_1	Section: GENERAL
Question	What version of WML does the Web Browser support?
Answer	The Web Browser supports the WML 1.2 (June 2000) release. Sometimes this version of WML is also referred to as WML 1.3.

GEN_2	Section: GENERAL
Question	What is the relation between XML and WML?
Answer	<p>WML (Wireless Markup Language) is a markup language based on XML. WML is a XML specification proposed by the Open Mobile Alliance (http://www.wapforum.org/) and follows the XML rules and specifications. WML uses tag pairs and attributes for all language features.</p> <p>Essentially, WML is an XML application.</p>
Comments	Good web site for WML is: http://www.devguru.com/Technologies/wml/quickref/wml_intro.html

GEN_3	Section: GENERAL
Question	Can we call the Web Browser a XML browser instead of a WML browser?
Answer	<p>Refer above:</p> <p>Since WML is an XML application, the Web browser is a XML browser that supports WML tags.</p> <p>Avaya supports industry standard WML specifications on the Web Browser.</p>

GEN_4	Section: GENERAL
Question	In short can you summarize the capabilities of WML?
Answer	<p>WML support six key areas:</p> <ul style="list-style-type: none">• Text presentation and layout - Line breaks, basic text formatting and alignment are supported by WML.• Images - WML supports Wireless Bitmap images and alignment on the screen. NOTE: 4625 Color set also supports JPEG color images• User Input - WML supports choice lists, multilevel choice lists, text entry and task controls.• Cards and decks - User interaction is divided into cards. Navigation is primarily between cards. Decks are related sets of cards and are saved as a single file• Navigation - WML supports the standard Internet URL naming scheme and anchored links, allowing navigation between cards in a deck, between decks, or between other resources on the

	<p>network such as databases.</p> <ul style="list-style-type: none"> • State and context management - WML allows for variables to be passed between files. Instead of sending a complete string, variables can be sent and substituted at runtime. The user agent can cache both variables and WML files, minimizing cache hits and server requests. It is also possible to pass variables between different cards in the same deck.
Comments	<p>For a complete list of supported features and tags please refer to the Avaya IP Telephones Web Browser API. The document can be found using the following navigation path from http://www.avaya.com</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p>

GEN_5	Section: GENERAL
Question	What is HDML? Does the Web Browser support it?
Answer	<p>HDML (Handheld Device Markup Language) was first proposed in 1997 by Unwired Planet as a standard. Later on, in 1999 along with other industry players, a new organization (wapforum.org) was formed and a new specification, WML, was proposed.</p> <p>In short, both languages have similar programming model and functionality. Major differences are that HDML is not an XML based language and does not have any support for a client side scripting language such as WMLScript.</p> <p>Today, very few phone.com browsers support HDML.</p> <p>The Web Browser does NOT support HDML.</p>
Comments	<p>Reference:</p> <p>http://www.allnetdevices.com/developer/tutorials/2000/06/09/hdml_or.html</p>

GEN_6	Section: GENERAL
Question	What is difference between HTML and WML? What can I do with HTML that I cannot do with WML? Which one is better?
Answer	<p>HTML is a specification that was first proposed by w3c org. HTML is not based on an XML specification.</p> <p>WML is an application of XML (EXtensible Markup Language), Essentially WML is a stripped down version of syntactically valid HTML with 35 strictly applied semantic tags.</p> <p>HTML has well over 120 tags (three times that of WML) helping to give its characteristically messy ad-hoc nesting syntax. Rules for HTML tag nesting are loose.</p> <p>Extensible Markup Language (XML) presents a solution to the HTML</p>

	<p>mess. Using XML developers can define their own markup languages by referencing to an external DTD (Document Type Definition). The DTD is a sequence of rules describing the markup language. However this enforces strict rules governing language syntax in stark contrast to HTML.</p> <ul style="list-style-type: none"> • HTML has a comparatively deep and complex nesting structure. • HTML is not well-formed allowing tagsets to remain unclosed. • HTML can display special Unicode characters not recognized in WML. • WML tags must all be in lowercase. • WML is unforgiving of incorrectly nested tags. <p>HTML and WML also share a lot of features together. The WML set of tags was designed to cover most of the functionality that could be achieved using HTML. The list of functionality includes features such as: Text Presentation and layout, Images, User Input (Form controls such as choice lists, multilevel choice lists, text entry and task controls), Navigation, and Hyperlinks etc.</p>
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GEN_7	Section:	GENERAL
Question	Does the Web Browser support WMLScript?	
Answer	WMLScript is Not Supported	
Comments	WMLScript is a client-side similar to JavaScript. It provides basic programmability that can be used to perform basic text and data manipulation.	

GEN_8	Section:	GENERAL
Question	Does the Web Browser support images?	
Answer	WBMP is supported in 1.8 release and beyond. JPEG images are only supported on 4625 Color phone of release 2.5	
Release	1.71	Not Supported
	1.72	Not Supported
	1.73	Not Supported
	1.8	WBMP Supported
	2.5	WBMP & JPEG – Added JPEG support – 4625 IP Phone only

GEN_9	Section:	GENERAL
Question	What happens if Web Browser comes across a WML page with leading blank spaces before the first line <?xml version="1.0"?>	
Answer	<p>"Although leading spaces before the first line <?xml version = "1.0"?> is invalid and violates the XML specification, many external WAP sites contain this error. (For more details please refer to the XML specs: http://www.w3.org/XML/). The Web Browser will correctly render pages with this error."</p> <p>Please see below for release specific notes:</p>	
Release	1.71	The browser will display the error "Page cannot be rendered"
	1.72	The browser will display the error "Page cannot be rendered"
	1.73	The browser will display the error "Page cannot be rendered"
	1.8	No Error. The browser will render the page as usual.

GEN_10	Section: GENERAL
Question	Does the Web Browser cache pages in the browser?
Answer	<p>The Web Browser will only store the current WML file (or the current deck of cards) in memory.</p> <p>When a user tries to go back in history and if the page corresponds to a different WML page from that corresponding to the one that is displayed on the screen, the Web Browser will retrieve/fetch a new copy of the page. Any user selection or text entry made by the user will be lost.</p>

GEN_11	Section: GENERAL
Question	How can I setup a standard web server to serve WML pages for the Web Browser?
Answer	<p>Refer to documentation on WML Server setup in the SDK. This document can be found using the following navigation path from http://support.avaya.com</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p>

GEN_12	Section: GENERAL
Question	How can I setup a standard web server to serve WBMP images for the Web Browser?
Answer	<p>Refer to documentation on WML Server setup in the SDK. This document can be found using the following navigation path from http://support.avaya.com</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p>

GEN_13	Section: GENERAL
Question	What is WTAI (Wireless Telephony Application Interface)? Does the Web Browser support any WTAI (Wireless Telephony Application Interface) features?
Answer	<p>The Web Browser supports "Click to Dial" and "Add to Speed Dial" in the latest release.</p> <p>Please see release table for feature support.</p> <p>A Guide on how to write WML code so that a user can create web pages using WTAI click-to-dial and add-to-speed dial functionality Please download the document named WTAI functionality Tags Reference for code samples.</p> <p><u>Home</u> > <u>Support</u> > <u>4600 IP Telephones</u> > <u>Application Developer Information</u></p>

Release	1.71	Only Supports "Click TO Dial"
	1.72	Only Supports "Click TO Dial"
	1.73	Only Supports "Click TO Dial"
	1.8	Supports "Click TO Dial" and "Add to Speed Dial"
Comments	<p>The Wireless Telephony Applications Interface (WTAI) enables applications to perform typical functions of a telephone with WML (Version 1.2 and higher) or WMLScript.</p> <p>The three common functionalities that the WTAI exposes are</p> <ul style="list-style-type: none"> ➤ Make a Call: "Click to dial": places a phone call through the Web interface ➤ Send DTMF (dtmf): sends a DTMF tone sequence through the voice call. ➤ Add to Phone Book: adds a new phonebook entry ("Add to Speed Dial" 	

GEN_14	Section:	GENERAL
Question	What is "Enhanced Local Dialing"?	
Answer	<p>"Enhanced Local Dialing" can be administered in the settings script file (46xxsettings.txt).</p> <p>With Enhanced Local Dialing, you can set values such as the country code, the international access code, the extension length within your organization, the outside line access code, the long distance access code, and the length of the national telephone number.</p> <p>By setting these values, the phone/browser will automatically add the necessary dial prefixes to the phone number it encounters in the WTAI dial link on any web page.</p> <p>For more information on "Enhanced Local Dialing" or how to set the values, please see the 4600 Series IP Telephone R2.2 LAN Admin Guide, which can be downloaded as follows:</p> <p>Home > Support > 4600 IP Telephones > Administration & System Programming > 4600 Series IP Telephone R2.2 LAN Administrator's Guide</p>	

GEN_15	Section:	GENERAL
Question	I clicked on a "Clicked to Dial" link but the phone gives me intercept tone?	
Answer	Check the administration of your Enhanced Local Dialing feature.	

GEN_16	Section:	GENERAL
Question	Can I store personal bookmarks on the Web Browser?	
Answer	Bookmarks cannot be stored on the phone itself. Writing a simple server based application, you can implement a solution where users	

	store bookmarks on a database on the server and the user then simply retrieves them by going to the web page.
--	---

GEN_17	Section:	GENERAL
Question	Does the Web Browser support cookies?	
Answer	Cookies are not supported on the Web Browser.	

GEN_18	Section:	GENERAL
Question	Does the Web Browser support sessions and session variables?	
Answer	A browser handles "Session" and "Session variables" by storing temporary cookies. Since cookies are not supported on the Web Browser, sessions and session variables are not supported.	

GEN_19	Section:	GENERAL
Question	Can I change the font or the size of a font displayed on the Web Browser?	
Answer	It is not possible to change the typeface itself on the browser. Also there is no WML tag specifically to do this. Alternatively, you can create a WBMP image with choice of your font and display it on the phone. With the 4625SW phone, you can create a color JPEG image with different font style and display it on the phone.	

GEN_20	Section:	GENERAL
Question	What character sets are supported?	
Answer	The Web Browser supports UTF-8, UTF-16, and ISO 8859-1 (Latin 1) character sets.	

GEN_21	Section:	GENERAL
Question	What is the access key feature?	
Answer	The accesskey attribute assigns a particular key on the phone to an element. Its purpose is to allow the user to activate a particular element using a single key. For the IP Telephone's Web browser, an access key is a single dial pad button and the element is a URL.	

GEN_22	Section:	GENERAL
Question	Can I use the access key feature in the Phone app, Speed Dial app, or Call Log app?	
Answer	No, the access key feature is only supported in the Web Browser application instance (incl. Push). This feature is not available in other Phone apps.	

GEN_23	Section:	GENERAL
Question	Are all features of R2.2 supported in 4625 IP Phone (R2.5)? Is access key feature supported in 4625 IP Phone?	

Answer	No. The 4625SW IP Phones inherits features from Release 2.1 with the addition of the color and JPEG images support. So, it does not include features from R2.2, i.e., access key feature is not supported in the 4625SW IP Phone.
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Scripts, Common WEB Related values...

SCRIPT_1	Section: SCRIPTS
Question	What is the right format to set variables in the settings file?
Answer	<p>The proper way to set a variable in a script is: SET variable value</p> <p>The following are invalid: SET variable=value AND variable=value</p> <p>These variables are set in the 46xxsettings.txt file.</p> <p>The 46xxupgrade.scr file contains lines that instruct the 4620 to download the settings file on bootup. The 46xxupgrade.scr file should not be edited.</p>

SCRIPT_2	Section: SCRIPTS										
Question	What are the values needed for the Web Browser in the settings file?										
Answer	<table border="1"> <thead> <tr> <th>System Value <u>Name</u></th><th>Default <u>Value</u></th></tr> </thead> <tbody> <tr> <td>WMLHOME</td><td>"" (null string)</td></tr> <tr> <td>WMLPROXY</td><td>"" (null string)</td></tr> <tr> <td>WMLPORT</td><td>"8000"</td></tr> <tr> <td>WMLEXCEPT</td><td>"" (null string)</td></tr> </tbody> </table> <p>The 4620 will not display the Web label on the softkey if the system value WMLHOME is null.</p> <p>An HTTP proxy server is not used if WMLPROXY is null, or if WMLPROXY cannot be resolved into a valid IP address.</p> <p>The HTTP proxy server is used for all web transactions if WMLPROXY is resolved into a valid IP address and WMLEXCEPT is null.</p> <p>If WMLEXCEPT is not null, the HTTP proxy server is only used for URLs whose domains are not on the WMLEXCEPT list. A list of IP addresses or an IP address with a wild card can be set here.</p> <p>For example: SET WMLEXCEPT mycompany.com,10.1.*</p> <p>WMLEXCEPT stands for Web application HTTP proxy server exception domains (domains for which the proxy server will not be used), which is a list of one or more domains, separated by commas without any intervening spaces (up to 127 total ASCII characters, including commas).</p> <p>WMLHOME stands for the URL of the home page for the Web application.</p> <p>WMLPORT stands for the TCP port number used for the HTTP proxy server.</p> <p>WMLPROXY stands for the IP address, in dotted-decimal or DNS name format, of an HTTP proxy server. If the web pages accessed by the 4620 are completely on the customer's intranet, then WMLPROXY, WMLPORT, and WMLEXCEPT need not be set. If WMLPROXY is null, then the values of WMLPORT and WMLEXCEPT</p>	System Value <u>Name</u>	Default <u>Value</u>	WMLHOME	"" (null string)	WMLPROXY	"" (null string)	WMLPORT	"8000"	WMLEXCEPT	"" (null string)
System Value <u>Name</u>	Default <u>Value</u>										
WMLHOME	"" (null string)										
WMLPROXY	"" (null string)										
WMLPORT	"8000"										
WMLEXCEPT	"" (null string)										

	do not matter.	
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Technical Details, WML Issues...

TECH_1	Section: TECHNICAL	
Question	How can I uniquely identify/detect the Web Browser?	
Answer	Please see release table for specifics: This user-agent string is set as part of the HTTP header field "User-Agent".	
Release	1.71	4620_IP_Phone_Web_Browser/0.1 libwww/unknown
	1.72	4620_IP_Phone_Web_Browser/0.1 libwww/unknown
	1.73	4620_IP_Phone_Web_Browser/0.1 libwww/unknown
	1.8	<p>The 4620 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v1.8+(4620x)/0.1"</p> <p>Where:</p> <p>Avaya : Company Name IGEN : Product Family Name v1.8 : Firmware version no 4620 : Set Type x : Reserved Extensions 0.1 : Minor Version Number</p>
	2.0	<p>The 4620 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2+(4620x)/0.1"</p> <p>Where:</p> <p>Avaya : Company Name IGEN : Product Family Name V2+ : Firmware version no 4620 : Set Type x : Reserved Extensions 0.1 : Minor Version Number</p> <p>The 4610 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2.0+(4610x)/0.1"</p> <p>Where:</p> <p>Avaya : Company Name IGEN : Product Family Name V2.0 : Firmware version no 4610 : Set Type x : Reserved Extensions 0.1 : Minor Version Number</p>

	2.1	<p>The 4620 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2.1+(4620x)/0.1"</p> <p>Where:</p> <ul style="list-style-type: none"> Avaya : Company Name IGEN : Product Family Name V2.1 : Firmware version no 4620 : Set Type x : Reserved Extensions 0.1 : Minor Version Number <p>The 4610 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2.1+(4610x)/0.1"</p> <p>Where:</p> <ul style="list-style-type: none"> Avaya : Company Name IGEN : Product Family Name V2.1 : Firmware version no 4610 : Set Type x : Reserved Extensions 0.1 : Minor Version Number
	2.2	<p>The 4620 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2.2+(4620x)/0.0"</p> <p>Where:</p> <ul style="list-style-type: none"> Avaya : Company Name IGEN : Product Family Name V2.2 : Firmware version no 4620 : Set Type x : Reserved Extensions 0.1 : Minor Version Number <p>The 4610 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2.2+(4610x)/0.0"</p> <p>Where:</p> <ul style="list-style-type: none"> Avaya : Company Name IGEN : Product Family Name V2.2 : Firmware version no 4610 : Set Type x : Reserved Extensions 0.1 : Minor Version Number

	2.5	<p>The 4625 WML Web Browser can be identified using the following user agent string</p> <p>"AVAYA/IGEN/v2.5+(4625)/0.0"</p> <p>Where:</p> <p>Avaya : Company Name IGEN : Product Family Name V2.5 : Firmware version no 4625 : Set Type x : Reserved Extensions 0.0 : Minor Version Number</p>
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TECH_2	Section: TECHNICAL	
Question	I see the "AVAYA" label on one of the softkey labels even though I have specified a label for the softkey?	
Answer	<p>The Web Browser will use the "AVAYA" softkey label for a <do> tag if it finds an unknown <do> tag.</p> <p>A <do> tag is considered an UNKNOWN type if the type attribute for the <do> tag is missing or the type attribute specified by the author does not correspond to one of the acceptable types as specified in the WML 1.3 specs. (Remember WML files are case sensitive and type attributes must be in lower case).</p>	

TECH_3	Section: TECHNICAL	
Question	How does the Web Browser handle long softkey labels?	
Answer	Please see release specifics below	
Release	1.71	Do labels rendered in the soft key label area get truncated on the LEFT and RIGHT of the text string when the label is too long to fit.
	1.72	Do labels rendered in the soft key label area get truncated on the RIGHT of the text string when the label is too long to fit.
	1.73	Do labels rendered in the soft key label area get truncated on the RIGHT of the text string when the label is too long to fit.
	1.8	Do labels rendered in the soft key label area get truncated on the RIGHT of the text string when the label is too long to fit.

TECH_4	Section: TECHNICAL	
Question	Does the Web Browser support WML variables?	
Answer	Please see release table for specifics:	
Release	1.71	Yes. Only supports the format \$(variable_name).
	1.72	Yes. Only supports the format \$(variable_name).
	1.73	Yes. Only supports the format \$(variable_name).
	1.8	Yes. Supports both \$ variable_name and the \$(variable_name) format.

TECH_5	Section: TECHNICAL	
Question	What is the size limit on a WML file?	

Answer	<p>No specific size limit. However there may be performance issues that a user might see with larger WML files.</p> <p>There is a character limit between a single <p> ... </p> tag that exists as specified below. If the number of characters increases beyond this limit, the browser will display a "Page cannot be rendered" error even for a valid WML page.</p>	
Release	1.71	256 characters
	1.72	1024 characters

TECH_6	Section: TECHNICAL	
Question	What form methods are supported in the Web Browser?	
Answer	Both HTTP GET and POST methods are supported with Release 2.1	

TECH_7	Section: TECHNICAL	
Question	What other buttons are available for access key mappings?	
Answer	Only the 12 dial pad keys are supported for access key URL mappings.	
Release	2.2	12 dial pad keys

TECH_8	Section: TECHNICAL	
Question	When a dialpad key such as "2" is pressed, what is reported to the server in the element that is associated with dialpad key "2"?	
Answer	<p>For example:</p> <pre>Click here</pre> <p>When a user presses the link "Click here", a URL is launched "http://URL1", and the element "2" is reported to the Server that is linked in "http://URL1". The browser will not report the characters associated with dialpad key "2" such as "A", "B", or "C".</p>	
Release	2.2	No, only the numbers

TECH_9	Section: TECHNICAL	
Question	Can the text-entry mode and the access key feature be on the same page?	
Answer	This is not supported. The page author should control this interaction. However if the <input> tag was in-place, then the text-entry mode is disabled and selecting the input field box is not allowed.	
Release	2.2	No, text-entry mode is disabled

TECH_10	Section: TECHNICAL	
Question	What is the size of the softkey label to use for JPEG images?	
Answer	The size of the JPEG images for softkey labels area use is 79 (W) x 29 (H) in pixels.	
Release	2.5	4625SW IP Phone 79 x 29, up to 16 softkeys, 4 at a time.

TECH_11	Section:	TECHNICAL
Question	Can I link an external stylesheet to a WML page?	
Answer	No, the 4625 phone does not support the external linkage of stylesheets.	
Release	2.5	No, only in-line stylesheets are supported

TECH_12	Section:	TECHNICAL
Question	Is font coloring supported?	
Answer	<p>Yes, the font coloring is supported by using the "foreground" as the selector for CSS. Please see the example below.</p> <p><u>Example:</u> In this case, the <code>background</code> is set to blue color and the text "Sample Text" is displayed in red color. <pre><p style="background-color:blue; text:red;"> Sample Text </p></pre></p> <p>You can also have a style for a <p> tag or an <a> tag as below: <u>Example:</u> <pre>Call 7325551234</pre> So, in this case, the phone number "Call 7325551234" is displayed in blue color.</p>	
Release	2.5	Yes

Image support (WBMP Issues...)

TECH_13	Section: TECHNICAL	
Question	What is the memory size limit on a WBMP image?	
Answer	A cache of at least 32 Kbytes will be maintained in volatile memory for image files. Any image greater than 32 Kbytes will be truncated. If many images are contained on a card and the total memory for the collection of images is greater than 32 Kbytes, only 32Kbytes of images will be rendered. At the point when 32Kbytes of memory is exhausted, all remaining images will be rendered as alt tags. For example, if 10 images of 10 Kbytes each are contained on a card, the first 3 images will be rendered in total, and the alt tag of the remaining image will be presented.	
Release	1.8	32 Kb max

TECH_14	Section: TECHNICAL	
Question	Is there a limit on the number of WBMP images per WML file?	
Answer	Yes. In the 1.8 release, a maximum number of 10 images up to the memory limit of 32 KB will be retrieved per WML file. For all other images, the alt tag will be presented.	
Release	1.8	10 images

TECH_15	Section: TECHNICAL	
Question	What is the physical size limit on a WBMP image?	
Answer	A "1" pixel padding is added on all four sides to the image. With this padding the maximum width of an image is 150 pixels (152 - 2 pixels). The maximum height is 96 lines (1534 pixels=1536-2). Images greater than the maximums will be truncated. Also for an image to fit in a line the max height can be 14 pixels (16-2 pixels).	
Release	1.8	10 images

TECH_16	Section: TECHNICAL	
Question	What is the memory size limit on a JPEG image?	
Answer	A cache of 3MB will be maintained in the volatile memory for image files. If many images are contained on a card and the total memory for the collection of images is greater than 3MB, only 3MB of images will be rendered. At the point when 3MB of memory is exhausted, all remaining images will be rendered as alt tags.	
Release	2.5	3MB max

TECH_17	Section: TECHNICAL	
Question	Is there a limit on the number of JPEG images per WML file?	
Answer	Yes. In the 2.5 release, a maximum number of 16 will be retrieved per WML file. For all other images, the alt tag will be presented. The 16 images is the total number of images that can be either in the middle	

	content area or in the softkey area.	
Release	2.5	16 images

TECH_18	Section: TECHNICAL	
Question	What is the physical size limit on a JPEG image?	
Answer	<p>A "1" pixel padding is added on all four sides to the image.</p> <p>With this padding the maximum width of an image is 291 pixels (152 - 2 pixels). The maximum height is 96 lines (1536 pixels). Images greater than the maximums will be truncated.</p> <p>Also for an image to fit in a line the max height can be 30 pixels.</p>	
Release	2.5	291 (W) x 1536 (H) in pixels

Known Issues

ISSUE_1	Release:	2.2 Only	Section:	KNOWN ISSUES
Issue	<do> tag's {optional="true false"} attribute is not implemented			
Description	<p>Example:</p> <pre><do type="prev" name="prev1" label="prev1" optional="true"> <prev/> </do></pre> <p>So by definition, when the optional attribute is set to true in a <do> tag, that particular <do> tag is not supposed to be displayed. But, in this case, the <do> tag is displayed and the optional attribute is ignored while parsing.</p>			

ISSUE_2	Release:	2.2 Only	Section:	KNOWN ISSUES
Issue	All duplicate <do> tags inside the <template> tags are parsed and displayed			
Description	<p>Example:</p> <pre><template> <do type="accept" name="home" label="Home"> <go href="home.wml"/> </do> <do type="accept" name="home" label="Apps"> <go href="apps.wml"/> </do> </template></pre> <p>If there are more than one <do> tags inside the <template> tag with the same name attribute, then the last parsed tag should be displayed. Instead, both are displayed in this software release.</p>			

ISSUE_3	Release:	2.2 Only	Section:	KNOWN ISSUES
Issue	All event attributes inside the <template> tag are not functional			
Description	<p>All <onevent> attributes such as 'ontimer', 'onenterbackward', 'onenterforward', are not functional when used inside the <template> tag. Any action implemented by these events will not be carried out. Please use alternate form to execute these events outside of the <template> tag.</p>			

ISSUE_4	Release:	2.5 Only	Section:	KNOWN ISSUES
Issue	<template> event attributes does not supercede <onevent> tag			
Description	<p>Example:</p> <pre><wml> <template ontimer="#card2"> <onevent type="ontimer"> <go href="#card3"/> </onevent></pre>			

```

<do type="prev" name="prev1" label="BACK">
  <prev/>
</do>
</template>
<card id="card1" title="template attrs over onevents">
  <timer value="50"/>
  <p>
    You should jump to Card 2 after 5 seconds because the
    template's ontimer attribute takes precedence over the onevent.
  </p>
  <do type="prev" name="prev1" label="BACK">
    <prev/>
  </do>
</card>
<card id="card2" title="template attrs over onevents">
  <onevent type="ontimer">
    <noop/>
  </onevent>
  <p>
    You should see this card (2) because the template's ontimer
    attribute takes precedence over the onevent.
  </p>
  <do type="prev" name="prev1" label="BACK">
    <prev/>
  </do>
</card>
<card id="card3" title="template attrs over onevents">
  <onevent type="ontimer">
    <noop/>
  </onevent>
  <p>
    You should NOT see this card (3) because the template's
    ontimer attribute takes precedence over the onevent.
  </p>
  <do type="prev" name="prev1" label="BACK">
    <prev/>
  </do>
</card>
</wml>

```

So, in the above example, the content is supposed to (refresh) reload card2 when the **ontimer** event expires. But instead the web browser loads card3.

ISSUE_5	Release:	2.5 Only	Section:	KNOWN ISSUES
Issue	The background color for the
 tag is not supported.			
Description	The CSS background color style for the tag is not supported. That is the tag will inherit color information from the parent tags such as <p> tag.			

ISSUE_6	Release:	All Releases	Section:	KNOWN ISSUES
Issue	Only one image per WML file should be configured for the splashscreen applications.			
Description	An Application Developer should only have one image (JPEG or WBMP) per WML file and not per card, when creating splashscreen applications.			

Troubleshooting...

	Section: TROUBLESHOOT
Question	I do not see the "Web" softkey on the phone screen?
Answer	The "Web" softkey only appears if there is a WMLHOME defined in the 46xxsettings.scr file or the 46xxsettings.txt file. If the WMLHOME parameter is missing or empty then the "Web" softkey does not appear on the screen.
Comments	If the WMLHOME setting is valid, check to see that the TFTP server is running.

	Section: TROUBLESHOOT
Question	After reboot, I clicked on the "Web" softkey and I get the "Page cannot be rendered" error:
Answer	Check to see WMLHOME is a valid WML file Check to see that WMLPROXY setting is correct Check to see WMLPORT is the correct port Check to see DNSSRV is set to a valid DNS server For a better dependency table please see Appendix D.

	Section: TROUBLESHOOT
Question	After reboot, I clicked on the "Web" softkey and I get the "400: Bad Request" error:
Answer	Check to see WMLHOME value is a valid URL For example: Set WMLHOME http:// will generate the above error.

	Section: TROUBLESHOOT
Question	After reboot, I clicked on the "Web" softkey and I get the "404: Not Found" error:
Answer	Check to see if the WMLHOME URL page exists on the server.

	Section: TROUBLESHOOT
Question	I can view a WML page on a cell phone WML browser but the Web Browser gives me the error "Page cannot be rendered"?
Answer	This problem has been fixed in release 1.8. Please upgrade to a 1.8 or a later release. Also see GEN_9 for more information.

	Section: TROUBLESHOOT
Question	The browser displays "Loading..." on the top line and does not do anything?
Answer	You are running an older version of the 4620 application software and

	<p>should upgrade to the latest version.</p> <p>Release 1.71 version did not implement time outs for HTTP requests. As a result network congestion and or network delays, the request may cause the browser to hang and require the phone to be reset. This was fixed in Release 1.72.</p>
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Appendix A: Read me file contents for Version 1.71

Avaya recommends upgrading to the latest release. Please check the support.avaya.com website for the latest release. The latest software release can be downloaded from the <http://www.avaya.com> web site using the following navigation path:

[Home](#) > [Support](#) > [4600 IP Telephones](#) > [Downloads](#)

Please Note: The following section only describes the read me file contents for the 4610/4620 WML Web Browser. For the complete read me file contents, please check the release documentation.

4620 WML Web Browser:

The 4620 WML Web Browser can be identified using the following user agent string "4620_IP_Phone_Web_Browser/0.1 libwww/unknown"

This useragent string is set as part of the HTTP header field "User-Agent".

Known Issues:

General

There is no timeout for HTTP requests. As a result network congestion and or network delays, the request may cause the browser to hang.

WMLEXCEPT: is not supported in this release

When internet access requires proxy authentication credentials and a Web request results in a HTTP 302 error (redirection to an alternate URL) the 4620 WML Web Browser displays the proxy authentication login screen

Run time variable substitution is not supported for the following tags and attributes:

- "title" attribute of the <card> tag
- "label" attribute for the <do> tag
- "title" attribute of the <select> tag
- "ivalue" attribute of the <select> tag
- "title" attribute of the <optgroup> tag
- "title" attribute of the <option> tag
- "title" attribute of the <input> tag
- "alt" attribute of the <image> tag
- "title" attribute of the <anchor> tag
- "title" attribute of the <a> tag

The 4620 WML Web Browser only supports US_ASCII encoding of the WML file

The 4620 WML browser does no cache any web pages. Hence every request to a web page is a new one.

If the user goes off-hook while in text entry mode in the 4620 WML browser application, the text entry mode will be lost. And the user will not recover it once the user goes back on-hook. Afterwards the text entry mode will not work properly.

Pressing refresh, Home or Phone/Exit button when the proxy authentication screen is displayed will lead to an unstable state

HTTP bugs

Form method "post" is not supported in this release. The 4620 WML Web Browser will beep and display the following message "method not supported" on the top line for a post action.

HTTP header variables:

The 4620 WML Web browser does not send the charsets supported by the browser. The HTTP header field "Accept-Charset" is not sent in the header of the HTTP request.

WML tag bugs

<meta> tag is not supported. For a detailed list please refer xyz document
<refresh> tag implementation in a WML page may lead to instability problems

Parsing Bugs

The 4620 WML Web Browser does not support soft-hyphen and space character entities in a WML file

The 4620 WML Web Browser does not support the use of & in a URL. This results in a parsing error and the following error message "Page cannot be rendered" is displayed on the top line.

Graphics:

Do labels rendered in the soft key label area get truncated on the left and right when the label is too long to fit.

The align attribute for <input> is not supported and all <input> tags are defaulted to LEFT

Text entry in a password input box is in clear text

Appendix B: Read me file contents for Version 1.72

Avaya recommends upgrading to the latest release. Please check the support.avaya.com website for the latest release. The latest software release can be downloaded from the <http://www.avaya.com> web site using the following navigation path:

[Home](#) > [Support](#) > [4600 IP Telephones](#) > [Downloads](#)

Please Note: The following section only describes the read me file contents for the 4620 WML Web Browser. For the complete read me file contents, please check the release documentation.

4620 WML Web Browser:

The 4620 WML Web Browser can be identified using the following user agent string "4620_IP_Phone_Web_Browser/0.1 libwww/unknown"

This useragent string is set as part of the HTTP header field "User-Agent".

Known Issues:

General

WML Web Browser Application: The parameter WMLEXCEPT (described in the LAN Administrators Guide available for download at support.avaya.com) works with IP addresses, but not with DNS names. If this parameter is needed, set it with IP addresses in the 46xxsettings.scr file, i.e. SET WMLEXCEPT 123.456.789.123

The 4620 WML Web Browser only supports US_ASCII encoding of the WML file

The 4620 WML browser does not cache any web pages. Hence every request to a web page is a new one.

HTTP bugs

Form method "post" is not supported in this release. The 4620 WML Web Browser will beep and display the following message "method not supported" on the top line for a post action.

HTTP header variables:

The 4620 WML Web browser does not send the charsets supported by the browser.

The HTTP header field "Accept-Charset" is not sent in the header of the HTTP request.

WML tag bugs

<meta> tag is not supported. For a detailed list please refer xyz document

Parsing Bugs

The 4620 WML Web Browser does not support soft-hyphen and space character entities in a WML file

The 4620 WML Web Browser does not support the use of & in a URL. This results in a parsing error and the following error message "Page cannot be rendered" is displayed on the top line.

Graphics:

The align attribute for <input> is not supported and all <input> tags are defaulted to LEFT

Text entry in a password input box is in clear text

Others:

WML Web Browser Application: <input> tag: emptyok attribute behavior is switched. In this release false permits empty values, while true forbids empty values.

WML Web Browser Application: <p> tag: There is a 1024 character limit between <p> and </p>

WML Web Browser Application: WML Variables: the \$var_name format is not supported. All WML variables must be in the form \$(var_name)

Appendix C: Read me file contents for Version 1.73

Avaya recommends upgrading to the latest release. Please check the support.avaya.com website for the latest release. The latest software release can be downloaded from the <http://www.avaya.com> web site using the following navigation path:

[Home](#) > [Support](#) > [4600 IP Telephones](#) > [Downloads](#)

Please Note: The following section only describes the read me file contents for the 4620 WML Web Browser. For the complete read me file contents, please check the release documentation.

4620 WML Web Browser:

The 4620 WML Web Browser can be identified using the following user agent string "4620_IP_Phone_Web_Browser/0.1 libwww/unknown"

This user agent string is set as part of the HTTP header field "User-Agent".

Known Issues:

General

WML Web Browser Application: The parameter WMLEXCEPT (described in the LAN Administrators Guide available for download at support.avaya.com) works with IP addresses, but not with DNS names. If this parameter is needed, set it with IP addresses in the 46xxsettings.scr file, i.e. SET WMLEXCEPT 123.456.789.123

The 4620 WML Web Browser only supports US_ASCII encoding of the WML file

The 4620 WML browser does not cache any web pages. Hence every request to a web page is a new one.

HTTP bugs

Form method "post" is not supported in this release. The 4620 WML Web Browser will beep and display the following message "method not supported" on the top line for a post action.

HTTP header variables:

The 4620 WML Web browser does not send the charsets supported by the browser. The HTTP header field "Accept-Charset" is not sent in the header of the HTTP request.

WML tag bugs

<meta> tag is not supported. For a detailed list please refer xyz document

Parsing Bugs

The 4620 WML Web Browser does not support soft-hyphen and space character entities in a WML file

The 4620 WML Web Browser does not support the use of & in a URL. This results in a parsing error and the following error message "Page cannot be rendered" is displayed on the top line.

Graphics:

The align attribute for <input> is not supported and all <input> tags are defaulted to LEFT

Text entry in a password input box is in clear text

Others:

WML Web Browser Application: <input> tag: emptyok attribute behavior is switched. In this release false permits empty values, while true forbids empty values.

WML Web Browser Application: <p> tag: There is a 1024 character limit between <p> and </p>

WML Web Browser Application: WML Variables: the \$var_name format is not supported. All WML variables must be in the form \$(var_name)

Appendix D: Read me file contents for Version 1.8

Avaya recommends upgrading to the latest release. Please check the support.avaya.com website for the latest release. The latest software release can be downloaded from the <http://www.avaya.com> web site using the following navigation path:

[Home](#) > [Support](#) > [4600 IP Telephones](#) > [Downloads](#)

Please Note: The following section only describes the read me file contents for the 4620 WML Web Browser. For the complete read me file contents, please check the release documentation.

4620 WML Web Browser:

The 4620 WML Web Browser can be identified using the following user agent string "AVAYA/IGEN/v1.8+(4620x)/0.1 "

Where:

Avaya : Company Name
IGEN : Product Family Name
v1.8 : Firmware version no
4620 : Set Type
x : Reserved Extensions
0.1 : Minor Version Number

This user agent string is set as part of the HTTP header field "User-Agent".

New Features:

- Support of images (WBMPs) on the web application.
- Support of WTAI "add to phonebook" tag. Dialable phone numbers on web pages can now be added directly to speed dial.
- A new LDAP middleware application available for download at <http://support.avaya.com>. This application allows the 4620 to access an LDAP database server through the web application.
- A new, simple language selection screen with three new languages; Dutch, German and Portuguese bringing the total up to eight plus English.
- Enhanced local dialing lets you dial directly from web pages and incoming call logs.

General

WML Web Browser Application: The parameter WMLEXCEPT (described in the LAN Administrators Guide available for download at support.avaya.com) works with IP addresses, but not with DNS names. If this parameter is needed, set it with IP addresses in the 46xxsettings.scr file, i.e. SET WMLEXCEPT 123.456.789.123

The 4620 WML Web Browser only supports US_ASCII encoding of the WML file

The 4620 WML browser does not cache any web pages. Hence every request to a web page is a new one.

WML Web Browser Application: <p> tag: There is a 1024 character limit between <p> and </p>

HTTP bugs

Form method "post" is not supported in this release. The 4620 WML Web Browser will beep and display the following message "method not supported" on the top line for a post action.

HTTP header variables:

The 4620 WML Web browser does not send the charsets supported by the browser.

The HTTP header field "Accept-Charset" is not sent in the header of the HTTP request.

WML tag bugs

<meta> tag is not supported. For a detailed list please refer xyz document

Parsing Bugs

The 4620 WML Web Browser does not support soft-hyphen and space character entities in a WML file

The 4620 WML Web Browser does not support the use of & in a URL. This results in a parsing error and the following error message "Page cannot be rendered" is displayed on the top line.

Graphics:

The align attribute for <input> is not supported and all <input> tags are defaulted to LEFT

Appendix B: Read me file contents for Version 2.1.x

Avaya recommends upgrading to the latest release. Please check the support.avaya.com website for the latest release. The latest software release can be downloaded from the <http://www.avaya.com> web site using the following navigation path:

[Home](#) > [Support](#) > [4600 IP Telephones](#) > [Downloads](#)

Please Note: The following section only describes the read me file contents for the 4610/4620 WML Web Browser. For the complete read me file contents, please check the release documentation.

WML WEB Browser Application Notes:

The WML Web Browser Application will use the following format to specify User Agents -

"AVAYA/IGEN/vX.X+(4620x)/0.1"

Where:

Avaya: Company Name
IGEN: Product Family Name
vX.X: Firmware version no
4620: Set Type
0.1 : Minor Version Number

For release 2.0.1, the User Agent Strings for the different set types are:

- 4620 Agere: AVAYA/IGEN/v2.0+(4620a)/0.1
- 4620 SW: AVAYA/IGEN/v2.0+(4620b)/0.1
- 4610 : AVAYA/IGEN/v2.0+(4610)/0.1

This user agent string is set as part of the HTTP header field "User-Agent".

New Features:

- **Avaya IP Telephone Application Interface (Push):**
Push is the ability for an application to send unsolicited content to the web browser, to the Top Line of the display, or to the audio transducers of Avaya™ IP telephones.

Appendix D: Script Variables Dependencies and common error conditions

NO	Variable	Co-Factors	Behavior/Error Msg.
	SET WMLHOME	none	Web' is not displayed
	SET WMLHOME <spaces>	none	Web' is not displayed
	SET WMLHOME http://	none	400: Bad Request
	SET WMLHOME http://	WMLPROXY is set to invalid server	Page cannot be rendered
	SET WMLHOME <valid site but invalid page>	none	404: Not Found
	SET WMLHOME <valid WML intranet site>	WMLPROXY is set to invalid server	Will be able to get to sites inside the proxy server but will generate 'Page cannot be rendered' error on sites outside the proxy.
	SET WMLHOME <valid WML intranet site>	DNSRVR is set to invalid server	Web works for intranet sites only (takes long time) 'Page cannot be rendered' error on sites outside the proxy
	SET WMLHOME <valid WML intranet site>	WMLEXCEPT is true WMLPROXY is false	Will be able to get to sites inside the proxy server but will generate and, 'Page cannot be rendered' error on sites outside the proxy.
	SET WMLHOME <valid WML internet site>	WMLPROXY is set to invalid server	Page cannot be rendered
	SET WMLHOME <valid WML intranet site>	WMLPORT is set to invalid port WMLPROXY is set to valid server WMLEXCEPT is not present	Page cannot be rendered
	SET WMLHOME <valid WML intranet site>	WMLPORT is set to invalid port WMLPROXY is set to valid server WMLEXCEPT is present	Page cannot be rendered
	SET WMLHOME <valid WML intranet site>	WMLPORT is set to invalid port WMLPROXY is set to valid server WMLEXCEPT is present	Page cannot be rendered
	SET WMLHOME <valid WML internet site>	DNSRVR is set to invalid server	Page cannot be rendered

