

F O R U M N O K I A

Mobile Web Server: Known Issues

Version 1.0; March 26, 2008

Mobile Web Server

NOKIA

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Change history

March 26, 2008	Version 1.0	Initial document release

1 Current limitations and known issues in Mobile Web Server

1.1 Apache

Category:	C++
Subcategory:	C++: Networking
Subject:	Some WebDAV clients may show errors even if the file has been transferred successfully.
Description:	
Solution:	Use different client or manually check the transfer result.

Category:	C++
Subcategory:	C++: Networking
Subject:	MWS includes only single thread implementation.
Description:	If the user allows the loading of large files, this can cause a situation that all other request from the server are blocked. The Web server can only handle one request at a time, the requests are served in the order that they are come.
Solution:	Do not share large files at your MWS.

1.2 Python

Category:	Python
Subcategory:	Other
Subject:	Python for S60 does not release memory.
Description:	Python for S60 does not release memory back to the operating system. Only objects larger than 256 bytes, contents of lists, and list objects when there are more than 80 unused lists reserved, are released.
Solution:	Not available

1.3 Content

Category:	Content
Subcategory:	Other
Subject:	A blank page shown in the browser after an SMS has been sent.
Description:	Sometimes when using a slow cellular network connection, a blank page is displayed to the user after he/she has sent an SMS by using the web application.
Solution:	Press browser refresh button or change the network connection.

Category:	Content
Subcategory:	Other
Subject:	SMS recipient is sender
Description:	Incoming (saved instant message) from web server shows the sender as a recipient. To reproduce the error, create an SMS message from MWS "Contact me" web pages. Go to the phone messages application and view the generated message. The message shows the sender in the recipient field.
Solution:	

Category:	Content
Subcategory:	Other
Subject:	Mashup example asks IAP
Description:	When using Mashup example, master side software asks IAP when it is being accessed for the first time.
Solution:	Select the IAP which is been used by MWS.

Category:	Content
Subcategory:	Other
Subject:	Webchat broken on some S60 browsers
Description:	XMLHttpRequests used by webchat are broken on some older versions of the S60 browser. Sometimes as the user is writing a new message while there is an ongoing request, the browser will stop all XMLHttpRequests.
Solution:	Update the device software/S60 browser to a new version if possible.

1.4 Gateway

Category:	Content
Subcategory:	GW and MWS
Subject:	Content caching must be controlled with HTTP headers
Description:	<p>Mobsite gateway implements a web cache feature. The purpose of the feature is to save bandwidth of the mobsites. Static content is cached based on the mobsite Apache configuration. By default images , for example, are cached, only if GW-authentication is off.</p> <p>Mobsite administrators or application developers must take the caching feature into account when designing dynamic scripts, for example Python applications. Caching can be controlled using HTTP headers.</p> <p>If connection filtering is on, requests are authenticated by using HTTP authentication. HTTP specification prohibits caching of authenticated content in GW cache, unless specifically allowed with HTTP headers. However, the browser is very likely to cache such content. For details, see 0.</p> <p>Cache is implemented with the Squid Web proxy cache, which implements HTTP 1.0, but does not fully implement all HTTP 1.1 features.</p> <p>For more information of Squid caching features, see http://www.squid-cache.org/ .</p>
Solution:	

Category:	Content	
Subcategory:	GW	
Subject:	HTTPS is implemented on Mobsite GW	
Reported against:	Platform:	Device (SW version):
	Mobsite GW	1.0
Description:	<p>Data traffic is encrypted before sending and is by default channeled through HTTPS to Mobsites, port 443 of the gateway. The gateway acts as a HTTPS terminator, decrypts the traffic, and proxies it to the mobile Apache clear-text. The gateway-terminal connection is secured by using other encryption techniques.</p> <p>This design has the following implications:</p> <ol style="list-style-type: none"> 1. The traffic is secured from third parties as it is sent over the Internet 2. The traffic is clear-text as it flows through the gateway 3. Local connections (for example, the local access directly to the terminal IP through WLAN) are clear-text 	
Solution:		

Category:	Content	
Subcategory:		
Subject:	Mobsite subdomains are not allowed	
Reported against:	Platform:	Device (SW version):
	Mobsite GW	1.0
Description:	<p>In registration, each mobsite is given a domain name, for example, bob.mymobilisite.net. Subdomains under the given domain are not allowed, and requests to such domains are not forwarded to the mobsite. For example, requests to sub.bob.mymobilisite.net are not forwarded to the mobsite.</p>	
Solution:		

Category:	Content	
Subcategory:	GW & MWS	
Subject:	It is not possible to have multiple mobsites running with the same domain name.	
Description:	<p>Connecting to more than one terminal with the same domain name disconnects the first one and may lead to connect-disconnect oscillation. If a mobsite is connected to Internet through the gateway from terminal A, connecting to terminal B with the same mobsite account will first disconnect A, and then connect B. A then automatically reconnects, and B is disconnected. This may lead to situation where neither of the terminals remain online.</p>	
Solution:		

Category:	Content	
Subcategory:	GW & MWS	
Subject:	Mymobilesite.net error page shown during browsing	
Reported against:	Platform:	Device (SW version):
	Mobsite GW	1.0
Description:	If MWS goes offline (connection breaks, server shuts down) while someone is browsing the mobsite, the latest request that was processed is redirected to http://mymobilesite.net/error/ instead of the offline page. This is due to a limitation in connection error handling logic in GW. Later requests are forwarded to the offline page correctly.	
Solution:		

1.5 Other

Category:	Other
Subcategory:	Other
Subject:	3G connection goes to suspend mode in some cases.
Description:	In some cases the 3G connection goes to suspend mode when the user answers the incoming call. This feature blocks all data traffic between the phone and the gateway. After the voice call, everything returns to as it was before the call.
Solution:	

2 Terms and abbreviations

Term or abbreviation	Meaning
GW	Gateway
IAP	Internet Access Point
Mobsite	Mobile Web site
MWS	Mobile Web Server
WebDAV	Web-based Distributed Authoring and Versioning

3 References

Fielding, J. Gettys, J. Mogul, H. Frystyk, L. Masinter, P. Leach, T. Berners-Lee, "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999

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