Date: Trace: Application(s) Name: 1 Data Cotector Version Davice Make/Mode: OS/Platform Version: Network Type(s): Profils: SUMMARY TESTSTATSTICS HTTPS data not analya Duration: Total Data Transferred: Energy Consumed: Trace Score	10.01 samung / SMRUAG-SGH-727 4.3.1 WIT ATAT 30 sict 7.7%, st/ 23.78(8) 27.2880 bytes 302.0.2 (Every)		ATET Application Resource Optimber			
Causes: Effects: Total:	(22) (cut of 500) 331 (cut of 500) 329 (cut of 1000)					
TESTSCONDUCTE	D File Download: Text File Compression	8	Connections: Inefficient Connections - Connection Clicking Problems			
		~				
•	File Download: Duplicate Content	•	Connections: Inefficient Connections - Offloading to WiFi when Possible			
	File Download: Cache Control	•	Connections: 400, 500 HTTP Status Response Codes			
<b>②</b>	File Download: Content Expiration	<b>②</b>	Connections: 901, 302 HTTP Status Response Codes			
<b>②</b>	File Download: Content Pre-fetching	•	Connections: 3rd Party Scripts			
<b>②</b>	File Download: Combine JS and CSS Requests	<b>②</b>	HTML: Asynchronous Load of JavaScript in HTML			
<b>Ø</b>	File Download: Resize Images for Mobile	<b>②</b>	HTML: HTTP 1.0 Usage			
<b>3</b>	File Download: Minify CSS, JS, JSON and HTML	<b>②</b>	HTML: File Order			
<b>②</b>	File Download: Use CSS Sprites for Images	<b>②</b>	HTML: Empty Source and Link Attributes			
0	Connections: Connection Opening	•	HTML: FLASH			
<b>②</b>	Connections: Unnecessary Connections - Multiple Simultaneous Connections	<b>②</b>	HTML: "display:none" in CSS			
<b>②</b>	Connections: Inefficient Connections - Periodic Transfers	<b>②</b>	Other: Accessing Peripheral Applications			
<b>②</b>	Connections: Inefficient Connections - Screen Rotation					

FILE C	OWNL	OAD								
Date:			Apr 29, 2015 10:00:23 PM		AT&T Application Resource	Opti				
Trace:			2048_WiFi_GamePlay							
	tion(s) Nan elector Ver		Unknown App 1.0.0.1							
	Make/Mode		samsung / SAMSUNG-SGH-I7:	97						
	form Versi		43.1	21						
	k Type(s):	UII.	WE							
Profile:			AT&T 3G							
			for file downloads can reduce							
reducin	g tree usage	e or nework	for the downloads can reduce	your applications	dutatry Consumption.					
	Test:	Text File C	ompression							
	About:	Sending co	mpressed files over the network	will speed delivery	y, and unzipping files on a device is a very low overhead operation. Ensure that all your text files are compressed while being sent over the network. Learn more					
	Possite:	ATRY ADO	AT ARO detected 19 KB of text files were sent without compression. Adding compression will speed the delivery of your content to your customers. (Note: Only files larger than 850 bytes are flagged.)							
	nezunz.	AIMI AIG	DESIGNATION OF TEXT THE WELL	e sen menou co	spreadure Auding Compression was appeal and Generally or your Contents at					
		Time	Host Name	File Size	File Name	+				
		21.869	ads.mopub.com	4262	/m/ad?v=68id=501acfd555114de58b8bf7eb1aafa6498nv=3.2.28idn=samsung%2CSAMSUNG-SGH-1727%2CSGH-17278udid=sha%34653fec4edcca3f1c134cfd15bcsed7657ed79bb18z=					
		25.225	ads.mopub.com	4256	/m/ad7v=68id=501acdd555114de5808bf7eb1aafa649knv=3.2.28idn=samsung%2CSAM5UNG-SGH-1727%aCSGH-1727%aUdd=sha%3A653fec4edcca3f1c134cfd15bceed7657ed798b18z=					
		27.178	ads.mopub.com	11634	/m/ad7v=68id=501acfd555114de5808bf7eb1aafa6498nv=3.2.28idn=samsung%2CSAMSUNG-SGH-I727%cCSGH-I727%cdid=sha%3A653fec4cdcca3f1c134cfd15bceed7657ed79bb18z=					
•	Test:	Duplicate (	Content							
	About:	This test r	neasures duplicate content. Exce	ss duplicate conte	ent means that content was downloaded multiple times, which leads to slower applications and wasted bandwidth. Learn more					
		Maria teasa			ent. Your trace had less than 3 dualicate items downloaded.					
	results:	TOUR DWCH	passes with an acceptable level	or outpicase cores	INC. YOUR DIACE THE ROSS STAIN 3 CUPICARE REPORT COMMENSION.					
•	Test:	Cache Cor	trol							
	About:	This test m	easures the presence of cache I	neaders. For all co	ontent that should be stored in the cache the best practice is to make sure that your server is adding the appropriate cache headers. Learn more.					
	Possibe:	ATRY ADO	detected the obsesses of costs	bandon 49% of 6	imes. Cache headers prevent your files from being downloaded in a duplicate manner.					
	nezunz.	AIMIANO	CONCLESS ON MEMORITOR OF CARCON	43 / 0 / 0	THE CASE PARTIES PORTE YOU THE TOTAL DELIG CONTINUES OF A CAPICAGE THE TOTAL PROPERTY.					
	Test:	Content E	piration							
•	About:	This test of	ompares the number of "304 not	modified* request	ts versus files that should be cached but were downloaded multiple times. Learn more					
	Results:	It appears	that content expiration is being h	andled properly. N	No caching issues were detected in this trace and it passes this test.					
	Test	Content P	e_fetching							
	About:	This test n	easures multiple user input burst	a all in a row. Pr	refetching may help speed up an app in these situations. Downloading files "as needed" can slow the user experience. If a user scrolls through the main screen of your applicati	ion ar				
			for images to load, the applicat							
	Possibe:	The Stee is	this trace coom to be download	fad in reasonable	bursts, and it passes this test. Remember that this may need to change as user behavior changes.					
	Test:		S and CSS Requests							
•	About:	Multiple re-	juests for CSS or JS can slow I	oading. Whenever	possible, combine into as few files as possible. Learn more					
		4DO 6	no issues with multiple CSS re		while the first and the second					
	Mesurs:	ANU found	no issues with multiple CSS re	quests nor with m	surpre Javascript requests.					
_	Test:									
$\sim$			ges for Mobile		eme delays in rendering. Before delivering content to a mobile, resize it to fit the available area. Learn more					
	ADDUIT:	images tra	are not correctly sized for mod	se can cause exist	are dealy in tensoring. Denote delivering content to a model, rescal it to in the available afeat. Learn more					
	Results:	Your trace	passes. There are no image files	that are 110% is	arger than the area specified for them.					
0	Test:	Minify CSS	, JS, JSON and HTML							
•	About:	Many text	lies contain excess whitespace to	allow for better	human coding. Run these files through a minifier to remove the whitespace in order to reduce file size. Learn more.					
					ofication, resulting in 2 kB savings.					
	Mesults:									
		Time	Host Name	Saving [%]	Saving (B) File Name	+				

Table: Use CSS Sprites for Images

About: Small images can be combined into Sprites, and their rendered with CSS. This will reduce the number of HTTP requests and speed the bading of your app. Learn more...

Results: Your bace passes.

CONN	ECTIONS	FAI
Date:		Acr 20, 2015 10:00:23 PM AY&T Application Resource Optimizer
Trace:		2048. WFI. GamsPlay
	inn(s) Name - Ver	Control of the Contro
	Sector Version:	1001
	Make/Model:	samsung / SAMSUNG-80H-I727
	form Version	samuray / sources-cur-1/2/
OsiPlatform Version: Network Type(s):		4.5.1 WFI
	Type(s):	
Profile:		ATET 9G
Optimizi	ng how you use th	ne device's radio will speed the delivery of content and reduce your application's battery consumption.
_	Test:	Connection Connina
U	About:	This test helps ensure connections are opened properly. Some connection startups consists of an input burst, followed by a series of bursts scread out over time which can dramatically slow down the application's response time and
		waste energy on the device. This is a self test. Learn more
	Self Evaluation:	If you see many application-initiated bursts, consider a transaction manager to group these more closely together.
	Test:	Unnecessary Connections - Multiple Simultaneous Connections
~	About:	This test measures bursts that could be more tightly grouped. Syncing all of your data connections can help reduce the amount of time your application is on the network, reducing the battery drain. That will also make your content appear to
		load faster to the user. Learn more
	Results:	It appears that the data in this trace is grouped together well, and it passes this test.
	Test	Inefficient Connections - Periodic Transfers
$\sim$	About:	This test helps ensure that your periodic connections are truly needed for the customer, which if not handled properly could cause excessive power drain. Learn more
	ADDUS.	The last region than you period. Otherwise are may record on the Carbinal, which is not residuely properly could clause excessive power creat.
	Results:	No periodic transfers were detected in this trace. It may be worthwhile to look for connections that happened regularly, but are not at exact intervals. This can cause excessive battery drain.
•	Test:	Inefficient Commections - Screen Rotation
~	About:	This test tracks screen rotation, to see if the app is pinging the server on orientation changes, or actually completely retransmit content. If you see this in your trace - consider a new layout for existing content (rather than re-download) or
		sending the orientation change later as a part of a larger data transmission. Learn more
	Results	
	Mesuits:	Either no screen rotations were noted or the screen rotations did not trigger network activity.
O	Test:	Inefficient Connections - Connection Closing Problems
•	About:	This test checks that connections are closed promptly. If not effectively closed with the last data, the server timeout can turn the radio on just to close your connections, which wastes power and bandwidth. Learn more.
	Results:	AT&T ARO detected that 37.9 Joules (53.7% of the total energy) was used to control these connections. By closing connections promptly, you will reduce battery drain.
	Test:	Inefficient Connections - Officeding to WiFi when Possible
	About:	This test is a check to see if you are transmitting large chunks of data. When this occurs you may consider offloading to WiFi when appropriate. Learn more.
	Results:	There were not many large bursts of data seen in this trace, and it passes this test.
	Test:	400, 500 HTTP Status Response Codes
•	About:	HTTP status response codes in the 4xx range indicate a client request error, and 5xx codes indicate a server error. There should be zero such errors in your application. Learn more
	Results:	No 4xx or 5xx HTTP status response codes were detected during the trace.
	Test:	301, 302 HTTP Status Response Codes
	About:	Redirects are an easy way to switch users to different versions of your data. However, redirects also add significant latency to your application. Use with care. Learn more.
	Results:	No 301 or 302 HTTP status response codes were detected during the trace.
	Test:	3rd Party Scripts
~	About:	Connecting to 3rd party content can create slowdowns in your app. If these external files fail to load, you can have a huge effect on the customer experience and load times. Consider loading these in an asynchronous manner. Learn more

Dise: Apr 23, 2515 10 0221 PM
Trace: 208, WVC, Grandiny
Application(s) Remar Variance: Underson Application(s) Remar Variance: Underson Application(s) Remark Variance: Underson Application(s) Remark Variance: Underson Application(s) Remark Variance: Underson Application Variance: Underson Var AT&T Application Resource Optimizer Test: Asynchronous Load of JaveScript in HTML
About: JaveScript loading thocks parallel downloads, and files downloaded in the HEAD of your HTML will block the nedding of your HTML. If you must load JaveScript in the HEAD load asynchronously. Learn more... Results: AT&T ARO discovered 0 HTML files loaded synchronously and it passes the test. Tast: HTTP 1.0 bags
About: This list is just review to make zure you are saing HTTP 1.1, which allows multiple items to be downbashed per connection, which is more efficient for your app. <u>Laser minor</u>. Results: AT&T ARO detected 0 HTTP 1.0 headers, and it passes this test. Test: File Order

About: In the HEAD of your HTMs, CSS files should always be loaded before JS files to ensure faster loading of your website. Learn more... Results: ARO discovered 0 HTML file where JS is loaded immediately before CSS. Test: Empty Source and Link Attributes

About: Many browsers still attempt to connect even if there is no urf. This can cause delays in loading your site. Learn more... Results: Your trace passes.

Tast: "daplayment" in CSS

Tax CSD all "dappyment" is and it hids held objects from being shown on a page. However, this does not provent the objects from being disembadied to the mobile device. These exists objects (that are rever displayed to the sear), will store device only go be it seemed date. Little MIRITIA.

Test: FLASH
About: Arboid and ICS pistforms do not support Flash, therefore your content is unmaddled to your users. Consider using an HTMLS video player instead. <u>Learn month</u>.

Results: Your trace passes.

Results: ARO discovered 0 files with no CSS rule "displaymone" and it passes the test.

Dale: Apr 20, 2015 10 00.22 PM
Trace: 2041, WVI, Quantillay
Application) Name: Versinch: Ustroom App
Back Collector Versinch: 10.01
Device Make/Model: 0.10.01
Device Model: 0. AT&T Application Resource Optimizer

Text: Accessing Peripheral Applications

And This set reviews accessing decide hardware applications like cameras, CPS, Blackoth, appeales and WFI, which can drain the balley. That's not a problem if your app is utilizing those peripherals, but many apps access peripherals they never utility.

Results: Peripherals appear to be managed properly. Tisses shows CPS was active for 0's of the time. Camera was active for 0's of the time.