Date: Trace: Application(s) Name: V Data Collector Version: Data Collector Version: Dollar Version: Network Type(s): Profila: Profila: SUMMARY TESISTATISTICS HITTPS data not analyze Duration Total Data Transferred: Energy Consumed: Trace Score Canada: Ca	: 10.61 samung / SMSIAC-SO4-077 4.3.1 ATT 50.0 ATT 50.0 ATT 50.0 ATT 50.0		ATAT Application Resource Optimizer
TESTSCONDUCTED	File Download: Text File Compression		Connections: Inefficient Connections - Connection Closing Problems
		0	
S	File Download: Duplicate Content	S	Connections: Inefficient Connections - Offloading to WiFi when Possible
•	File Download: Cache Control	0	Connections: 400, 500 HTTP Status Response Codes
②	File Download: Content Expiration	0	Connections: 301, 302 HTTP Status Response Codes
②	File Download: Content Pre-fetching	0	Connections: 3rd Party Scripts
②	File Download: Combine JS and CSS Requests	②	HTML: Asynchronous Load of JavaScript in HTML
②	File Download: Resize Images for Mobile	0	HTML: HTTP 1.0 Usage
②	File Download: Minify CSS, JS, JSCN and HTML	0	HTML: File Order
Ø	File Download: Use CSS Sprites for Images	•	HTML: Empty Source and Link Attributes
0	Connections: Connection Opening	•	HTML: FLASH
②	Connections: Unnecessary Connections - Multiple Simultaneous Connections	•	HTML: "display:none" in CSS
Ø	Connections: Inefficient Connections - Periodic Transfers	•	Other: Accessing Peripheral Applications
٥	Connections: Inefficient Connections - Screen Rotation		

ILE D	OWNL	OAD				PASS			
Date: Trace:			May 2, 2015 5:53:25 PM 2048_in_Background			AT&T Application Resource Optimizer			
			Unknown App						
	lector Vers		1.0.0.1 samsum / SAMSI NGLSCHLI727						
	orm Versio		samsung / savasunu-sun-i/2/						
	Type(s):		WIFI						
Profile:	,,,,,		AT&T 3G						
Reducing	the usage	e of network	for file downloads can reduce your a	pplication's b	ttery consumption.				
•	Test: About:	Text File Co	Test File Compression Sinding compressed files over the network will speed delivery, and usaging files on a delivic is a very low overhead operation. Ensure that all your land files are compressed while being sent over the network. Latert more.						
	Results:	AT&T ARO	FST ARO delected 5 KB of fact files were sent without compression. Adding compression will speed the delivery of your content to your customers, filest: Cnity files larger than 655 bytes are flagged.)						
		Time			File Name	+			
		5.760	ads.mopub.com	5703	/m/ad?v=68id=501acfd555114de58b8bf7eb1aafa6498nv=3.2.28idn=samsung%2CSAMSUNG-SGH-1727%2CSGH-17278udid=ifa%3Aaf764d18-2d02-4d15-a4c4	0867b2501b7d8z=-04008.			
0		Duplicate C This test m		olicate conten	means that content was downloaded multiple times, which hads to slower applications and wasted bendwidth. Learn more				
	Results:	Your trace p	easses with an acceptable level of dup	olicate conten	. Your trace had less than 3 duplicate items downloaded.				
•	Test: About:	Cache Con This test me	rol assures the presence of cache headers	s. For all con	erf 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.				
	Results:	AT&T ARO	detected the absence of <u>cache_header</u>	<u>s</u> 100% of 5	nes. Cache headers prevent your files from being downloaded in a duplicate manner.				
		Content Ex		ied" requests	versus files that should be cached but were downloaded multiple times. Learn more.				
	Results:	It appears t	hat content expiration is being handled	properly. No	caching issues were detected in this trace and it passes this test.				
0	About:	This test m	I Pre-Entaking If measures milities user impact busts all in a row. Prefetching may help speed up an app in those shadrons. Coverloading files "as needed" can slow the user apparance. If a user scrole through the main screen of your application and well for images to bus, the application appears size. Lates scrole.						
	Results:	The files in	this trace seem to be downloaded in	reasonable b	asts, and it passes this test. Remember that this may need to change as user behavior changes.				
②			onebine VS and CSS Respects diple requests for CSS or JS can slow loading. Wherever possible, combine into as few files as possible. <u>Learn more</u>						
	Results:	ARO found	no issues with multiple CSS requests	nor with mu	liple JavaScript requests.				
			rimages for Mobile that are not correctly shard for mobile can cause extreme delays in rendering. Before delivering content to a mobile, reside it to fit the available area. Lairn more						
	Results:	Your trace (sasses. There are no image files that a	are 110% lan	er than the area specified for them.				
			CSS, IS, ISON and HTML text files contain excess whitespace to allow for better human coding. Run these files through a minifer to remove the whitespace in order to reduce file size. Lawre more.						
	Results:	Your trace	nasses.						
0			orites for Images s can be combined into Sprites, and t	hen rendered	with CSS. This will reduce the number of HTTP requests and speed the loading of your app. Learn more				
	Results:	Your trace	passes.			J			

CONN	ECTIONS	FACE OF THE STATE
Data Co Device I OS/Plat Network Profile:	Make/Model: form Version: Type(s):	May 2, 2015 5:3125 PM ATAT Application Resource Optimizer 2018 Ip, Budgorard 10.01 1
0	Test: About: Self Evaluation:	Connection Opening. The sext law everus connections are opened properly, from connection startings consists of an input bunk, bilineed by a sextee of burits spread auf over time which can distantically size down the application's response time and water comply of the destrict has a set filter. Lies material. If you we many application-initiated bursts, consists a transaction manager to group these more closely linguisher.
9	Test: About:	Unnecessary Connections - Multiple Simultaneous Connections This isst measures banks that cost be more tightly graped. Spring all of your data connections can help notice the amount of time your application is on the network, reducing the battery drain. That will also make your content appear to load feater to the user <u>Lavan more</u> .
9	Results: Test: About: Results:	It appears that death in this stock is project together well, and it passes this text. Institution Commercious - Perfectic Transform
9	Test: About:	Inefficient Connections - Screen Rotation This lost tracks access rotation, to see if the age is priging the source on crientation changes, or actually completely referensed content. If you see this in your trace - consider a new layout for existing content pather than re-desertionally or sending the collection changes later as a part of a larger data transmission. Latern more.
٥	Results: Test: About: Results:	Ether no screen relations were related or the screen rotations did not sligger related activity. **Intelligent Connections**. Connections Connections Connections Connections activities problems This lost ordered and connections are closed promptly. If or difficulties glosed with the last date, the saviner femous can bum the radio on just to close your connections, which wastes power and bandwidth. **Later manage.** ATAT ATIO distinction and 23.3 Juliance (4.9.9.9. of the total energy) was used to control these processings. By change promptly, you will reduce bettery state.
9	Test: About:	halfficient Connections. Officiating in IMFI when Publishin This has it is officed to see if you are treameting larger channed disks. When this occurs you may consider officiating to IMFI when appropriate.
0	Results: Test: About:	There were not may bey shared of disk seen in the trace, and it passes the bate. 40,00 STPT Flastics response codes HTTP delian response codes in the 4x regres indicate a closer request error, and 5x codes indicate a server error. There should be zero each errors in your application. <u>Learn manual.</u>
9	Results: Test: About:	No des of the HTTP states response controls were distincted during the today. **No AND TEST TEST AND EXPENSE CONTROL OF THE STATE OF T
9	Results: Test: About:	No. 201 or 2017TH data response codes were detended using the trace. Let Purity Surject Consoling to the purity optimist can create developers in your app. If these externed fles felt to load, you can have a large effect on the customer experience and load times. Consider loading these in an asynchronous moreon. Lett. Basic Purity Surject Lett. Basic Purity Su

Deer May 2, 2015 58135 PM
Trace May 2, 2015 58135 PM
Trace Application(s) Remar Variance Unknown Application(s) Remar Variance Unknown Application(s) Remar Variance Unknown Application(s) Remark Variance Unknown Application School (School Variance) Application Variance School (School Variance) Application Variance Va 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. 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>.

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.

Results: Your trace passes.

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

Date: May 2, 2015 SS125 PM
Trace: 2043, Ip., Backgrand
Application) Name: Versinch: Useron-Rep
Back Collector Versinch: Useron-Rep
Back Collector Versinch: USER 1

Device: MakerMobile: ammary: 5MSSLPA-SOH-277

Obtraction Versinch: 4.11
Method Typeld: WIT
Poulls: A137 30

Risduring the usage of device periphrash and optimizing your HTTP connectivity can further reduce your application's battery consumption. AT&T Application Resource Optimizer

Test: Accessing Peripheral Applications

And This last review accessing direct hardware applications like cameras, CPS, Blactooth, speakers and WFI, which can drain the battery. That's not a problem if your app is affiling those peripherals, but many apps access peripherals they reconstitute.

Resulte: Peripherals appear to be managed properly. Trace shows CPS was active for 0'f of the ferm. Camera was active for 0 % of the time.