Total Data Transferred:	10.61 HITO HITO Chau 5.02 ANAT SE ANAT		ATST Application Resource Optimizer
Effects:	314, (out of 500) 238, (out of 500) 552, (out of 1000)		
TESTSCONDUCTED	File Download: Test File Compression	•	Connections: Inefficient Connections - Connection Closing Problems
0	File Download: Duplicate Content	0	Connections: Inefficient Connections - Offloading to WiFi when Possible
0	File Download Cache Control	•	Connections: 400, 500 HTTP Status Response Codes
<b>②</b>	File Download: Content Expiration	<b>②</b>	Connections: 301, 302 HTTP Status Response Codes
0	File Download: Content Pre-fetching	0	Connections: 3rd Party Scripts
<b>②</b>	File Download: Combine JS and CSS Requests	<b>②</b>	HTML: Asynchronous Load of JavaScript in HTML
0	File Download: Resize Images for Mobile	0	HTML: HTTP 1.0 Usage
<b>②</b>	File Download: Minify CSS, JS, JSON and HTML	•	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	0	HTML: FLASH
<b>②</b>	Connections: Unnecessary Connections - Multiple Simultaneous Connections	•	HTML: "display.none" in CSS
0	Connections: Inefficient Connections - Periodic Transfers	0	Other: Accessing Peripheral Applications
<b>②</b>	Connections: Inefficient Connections - Screen Rotation		

AT&T Application Resource Optimizer

Test: Test File Compression

About: Sending compressed files over the network will speed delivery, and unappring files on a delice is a very low overhead operation. Ensure that all your test files are compressed while being sent over the network. Learn more...

Results: AT&T ARO detected 0 text files above 850 bytes were sent without compression. Adding compression will see of the delivery of your content to your customers. (Note: Only files larger than 850 bytes are filesced.)

Test: Duplicate Content

About: This test measures diplicate content. Encess displicate content means that content was downloaded multiple times, which leads to slower applications and wasted bandwidth. <u>Learn more.</u>

Results: Your trace passes with an acceptable level of duplicate content. Your trace had less than 3 duplicate items downloaded.

Test: Cache Control
About: This lost measures the presence of cache headers. For all content that should be stored in the cache the best practice is to make sure that your server is adding the appropriate cache headers.

Results: AT&T ARO detected the absence of <u>cache\_beaders</u> 50% of times. Cache headers prevent your files from being downloaded in a duplicate manner.

Test: Content Expiration

About: This list compares the number of "304 not modified" requests versus files that should be cached but were downloaded multiple times. Learn more...

Results: It appears that content expiration is being handled properly. No caching issues were detected in this trace and it passes this test.

Tast: Connect Practability

About. The or recommendation for legal bursts all in a row. Professing may help speed up an app in these situations. Countricating files "as reacted" can slow the user experience. If a user scrolls through the main screen of your application and has to wait for resigns to lead, the application appears above. Liam mores. Results: The files in this trace seem to be downloaded in reasonable bursts, and it passes this test. Remember that this may need to change as user behavior changes.

Test: Combine JS and CSS Requests

About: Multiple requests for CSS or JS can slow loading. Whenever possible, combine into as few files as possible. Learn more...

Results: ARO found no issues with multiple CSS requests nor with multiple JavaScript requests.

Test: Reside images for Mobile

About: Images that are not correctly sized for mobile can cause extreme delays in rendering. Before delivering content to a mobile, resize it to fit the available area. Learn more...

Results: Your trace passes. There are no image files that are 110% larger than the area specified for them.

Test: Minity CSS, JS, JSON and HTML
About: Many text files contain access 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.

Results: Your trace passes.

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

Results: Your trace passes.

AT&T Application Resource Optimizer O Test: About: Connection Opening
This test helps ensure corrections are opened properly. Some connection startups consists of an input burst, followed by a series of bursts spread out over time which can characterly slow down the application's response time and waste energy on the device. This is a set first. Learn mode... tion: If you see many application-initiated bursts, consider a transaction manager to group these more closely together. Unecessary Connections - Multiple Stimultaneous Connections
This but measures button but could be now lightly grouped. Spring all of your data connections can help reduce the amount of time your application is on the nations, nationing the buttery death. That will also make your content appear to bear for the red of time from the red of time f Test:
About: Results: It appears that the data in this trace is grouped together well, and it passes this test. Test:
About: 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. Indifficient Connections - Severa Riteration
This last trads scoren relation is seen if the age is pringing the server on orientation changes, or actually completely retransent content. If you see this in your trace - consider a new layout for existing content (pather than re-developed) or sending the certainty compress later as a part of a larger data transmission. Learn more. Test:
About: Either no screen rotations were noted or the screen rotations did not trigger network activity. Inefficient Connections - Connection Closing Problems
This test checks that connections are closed promptly. If not effectively closed with the last data, the server smeant can turn the radio on just to close your connections, which wastes power and bandwidth. <u>Learn more</u>... C Test: About: Results: AT&T ARO detected that 24.1 Joules (30.7% of the total energy) was used to control these connections. By closing connections promptly, you will reduce battery drain. Inefficient Cenections - Officialing to WiFI when Possible
This test is a check to see if you are transmitting large churks of data. When this occurs you may consider officialing to WiFI when appropriate. Learn more... O Test: There were not many large bursts of data seen in this trace, and it passes this test. Test:
About: 400, 500 HTTP Status Response Codes
HTTP status response codes in the 4ox range indicate a client request error, and 5xx codes indicate a server error. There should be zero such errors in your application. Learn more... No 4xx or 5xx HTTP status response codes were detected during the trace. Results: Test:
About: 301, 302 HTTP Status Response Codes
Redirects are an easy way to switch users to different versions of your data. However, redirects also add significant latercy to your application. Use with care. Learn more... No 301 or 302 HTTP status response codes were detected during the trace.

Test: 3de Puny Soriges
Connecting to 3de party content can create slowdowns in your app. If these external files fail to load, you can have a hope effect on the customer experience and load times. Consider loading these in an asynchroncal manner. <u>Learn more</u>

Your trace passes.

Deer Mar 17, 2015 6.00 14 PM
Trace Application(s) Remar Variance University Application(s) Remar Variance University Application(s) Remar Variance University Application(s) Remar Variance University Application(s) Remark AT&T Application Resource Optimizer Test: Asynchronous Load of JavaScript in HTML

About: JavaScript loading blooks parallel downloads, and files downloaded in the HEAD of your HTML will block the rendering of your HTML if you must load JavaScript in the HEAD load asynchronously. Learn more... Results: AT&T ARO discovered 0 HTML files loaded synchronously and it passes the test. 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 pillforms 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 diserbladed to the mobile device. These exists objects (that are rever displayed to the sear), will store device only provide date. Little MRSS.

LIST SERVICE AND ADMINISTRATION OF THE MRSS.

Results: Your trace passes.

Results: ARO discovered 0 files with no CSS rule "display:none" and it passes the test.

AT&T Application Resource Optimizer

Dale: Mar 17, 2015 60-61 PM
Trace: Familiags\_Society, Test
Application(s) Name: Viersinc: Useron-Rap
Back Collector Viersinc: Viersince: V

Test: Accessing Peripheral Applications

Annual Test but review accessing decide horizons applications like commons, CPS, Blaction's speakers and WF, which can drain the ballery. Theirs not a problem if your app is utilizing those peripherals, but many apps access peripherals applications.

Results: Peripherals appear to be managed properly. Takes above CPS was active for 0's of the time. Blactioth was active for 0's of the time.