2/5/2015 ARO Best Practices

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#### Suggested Best Practices for File Download



### **Suggested Best Practices for Connections**

Opening Connections Describes the impact that opening connections inefficiently can have on a wireless application and offers

recommendations on how to open connections more efficiently.

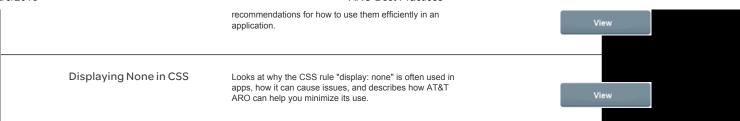
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Multiple Simultaneous TCP Connections	Takes a look at how TCP connections are established to see why persistent connections are more efficient, examines the issue of latency when multiple persistent connections are opened on a wireless network, and offers recommendations for smarter connection management in mobile apps to deal with this issue.	View
Periodic Transfers	Explains how periodic transfers can cause an application to drain energy and offers recommendations on how to use periodic transfers effectively so that they have the least effect on user experience and network resources.	View
Screen Rotations	Looks at how accelerometers are used in mobile apps, describes the issues involved in managing screen rotation, and provides a recommendation for how to manage screen rotation more efficiently.	View
Closing Connections	Describes the ways in which TCP connections can be closed, examines an issue that occurs when TCP connections are not deliberately closed, and offers recommendations for closing connections more efficiently.	View
Offloading to Wi-Fi	Discusses the costs and benefits of using Wi-Fi in an application.	View
Third-Party Scripts	Looks at the issues involved with using third-party scripts and provides recommendations for reducing the impact of third-party scripts on an app.	View

## Suggested Best Practices for HTML

HTTP 400 and 500 Status Codes	Provides some background on what the different classes of HTTP Status Codes represent, describes the issues raised by the most common 400 and 500 Status Codes, and discusses possible resolutions for them.	
		View
Asynchronous Load of JavaScript	Provides some background on what the different classes of HTTP Status Codes represent, describes the issues raised by the most common 300 Status Codes, and discusses possible resolutions for them.  Describes how you can speed up the rendering of pages in your app by downloading JavaScript files asynchronously.	View
		View
HTTP 1.0 Usage	Describes the improvements that were added in the HTTP 1.1 protocol and discusses the issues faced by apps that use the older protocol HTTP 1.0.	
		View
File Order of External Style Sheets and Scripts	Looks at different types of peripheral applications and the issues involved in using them, and provides recommendations for how to use them efficiently in an application.	
		View
Empty Source and Link Attributes	Describes how leaving source or link attributes empty can cause extra overhead and delays in your app, and tells you how AT&T ARO can help identify files that contain empty attributes so you can mitigate the issue.	
		View
Flash Files	Looks at different types of peripheral applications and the issues involved in using them, and provides	

2/5/2015 ARO Best Practices



#### Other Suggested Best Practices

Accessing Peripherals Looks at different types of peripheral applications and the issues involved in using them, and provides

recommendations for how to use them efficiently in an application.

# View

#### **General Topics**

Image File Compression Discusses image resolution and compression, describes the issues involved with managing image sizes, and provides recommendations for reducing the file size of images to provide the best quality images for the lowest overhead on a wireless network. Comparing LTE and 3G Describes the differences in the state machines and power usage of the LTE and 3G networks, and shows you how **Energy Consumption** AT&T ARO displays those differences so you can be aware of how your app is performing on both networks. Content Optimization for **Mobile Devices** Content design and management for mobile devices has long been a challenge due to screen size and network speeds. Even as devices and networks have made amazing improvements, developers still need to carefully manage their content and look for ways to optimize it.

APIS & TOOLS

ADDITIONAL RESOURCES

SUPPORT

Technical Library

SDKs, Plugins, & More
Success Stories

AT&T Text Button

ADDITIONAL RESOURCES

SUPPORT

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GitHub

FAQs



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