Item Number	Version	Required	Best Practice	Conformant	Conformance Criteria	Notes
					Packaging	
1	C1	x			Every plugin must have a unique ID. The ID format follows java package naming conventions. The Zowe project reserves org.zowe	
2	C1	x			Every plugin and each of its services must have a version	
3	C1	x			Directory layout adheres to the App filesystem structure	
4	C1		x		Source code is also recommended, but not required to adhere to the App filesystem structure for tooling consistency	
					Web Uis All	
5	C1	x			All Apps must contain an icon image file to represent it, located at web/assets/icon.png within the App's package	
					Web UI Iframe	
6	C1	x			IFrame Apps (apps with framework type "iframe") which embed a top-level iframe within (example: https://github.com/zowe/api-layer/blob/master/zlux-api-catalog/web/index.html) must use the ID "zluxIframe" for that element. This is required for the app to be a recipient of app to app communication.	
7	C1	x			Zowe resources must be accessed via the iframe-adapter located within zlux-app-manager/bootstrap/web. Use of window.parent or window.top to access the ZoweZLUX object is non-permissible.	
8	C1	x			Documentation or automated addition of the "iframe" plugin to the Zowe desktop must be performed by executing the script 'zowe-install-app.sh' script in the Zowe instance directory	
					Web UI Non-Iframe	
9	C1	x			DOM elements originating from your App should always be a child of the Zowe viewport DOM element, "com-rs-mvd-viewport"	
10	C1	x			Network requests to the Zowe App Server must never be done without the use of the URI Broker	
11	C1		x		Access to resources outside the App Server should also be made through the URI Broker whenever possible	
12	C1	x			Apps must not pollute the global namespace with regards Javascript, HTML, and CSS	
13	C1	x			When using a library present in the Zowe App Framework core, you must depend on the same version	
14	C1		x		Web apps should extend the framework's default build scripts for webpack and typescript.	
					UI Design	
15	C1		x		Apps should follow the UI Design guidelines at https://github.com/zowe/zlc/blob/master/process/UI_GUIDELINES.md	

Item Number	Version	Required	Best Practice	Conformant	Conformance Criteria	Notes
					Localization and Internationalization (l10n and l18n)	
16	C1	x			The active language to be used for string selection must be retrieved using ZoweZLUX.globalization. getLanguage(), which determines language by multiple factors	
17	C1		x		No strings visible in a UI should be hard-coded, rather resource strings must be used in accordance with one of the existing internationalization support mechanisms	
					App Server	
18	C1	x			Data services should be written such that all synchronous and asynchronous errors are caught. Utilize try-catch and check the existence of error objects from asynchronous calls. Uncaught exceptions effect server responsiveness and disrupt clients	
					Documentation	
19	C1	x			Every HTTP API must be documented in swagger 2.0. The swagger document must be stored in doc/swagger	
20	C1		x		In addition, it is recommended to have documentation about the format of any Websocket APIs, to be placed within doc	
					Logging	
21	C1	x			An Apps non-IFrame web components, or App Framework dataservices (eg Javascript and Typescript) must log only through the "zlux" logger	
22	C1	x			ZSS services log only through the Zowe ZSS Logger	
23	C1	x			Passwords must never be logged	
24	C1		x		Error reporting should follow the standard tooling	
					Encoding	
25	C1	x			If you want your Apps to work with z/OS Node.js version 12 or greater, all application files must be tagged according to their content type	
26	C1		x		Testing Apps via the install-app script is advisable to allow end users to utilize Zowe plugin management tooling	
					Storage	
27	C1	x			User preferences, if applicable to a plugin, must be stored through the configuration data service	

Item Number	Version	Required	Best Practice	Conformant	Conformance Criteria	Notes
28	C1	x			For other plugin storage needs, storing data outside of the configuration dataservice is permitted only within $INSTANCE_DIR/workspace/app-server or $INSTANCE_DIR/workspace/app-server/pluginStatic with a top-level folder equal to their plugin ID. Plugins must not store information anywhere else in any Zowe directories such as $INSTANCE_DIR or $ROOT_DIR in order to prevent conflict with future Zowe versions and other plugins	
29	C1		x		It is advisable for the storage of user preferences to use environment variables for locating directories. Use of the instance directory environment variable is not required, but should be considered to subvert the use of hard-coded paths	
					Directory and File Ownership Permissions	
30	C1	x			A conformant application must not modify the contents of the Zowe runtime USS directory and it must not change any directory or file permissions or ownership	
31	C1		x		A conformant application must not modify the permissions or ownership of a Zowe instance directory workspace	
					Lifecycling as a Zowe address space	
32		Applicable IF LIFECYCLED			If the service should be lifecycled by Zowe then	
	C1	x			it should provide a fully qualified path in the instance. env file for the Zowe workspace which points to the location of a directory containing a start.sh script	
	C1		x		a validate.sh script	
	C1		x		a configure.sh script	
33	C1	x			If the service introduces new variables to the instance. env file, these should be prefixed by the provider ID to avoid collisions	
					Support	
34	C1	x			Submitter describes how Support is provided and Support details are clearly documented	