

IMT Standards IMT Standards Oversight Committee Government of Alberta	Effective Date: 2012-12-07 Scheduled Review: 2019-09-21 Last Reviewed: 2018-09-21
	Type: Technical Standard¹
Standard number – A000034	
Mobile Application Development	
Category: Software² Keywords: iOS, Android, Mobile Application, Development, QA, Testing	

Description of Standard

The Mobile Application Development Technical Standard is for the development of mobile applications for the Government of Alberta. These Standards are to be used when developing or updating mobile applications either for external distribution (via Apple Store, Google Play Store and Windows App Store) or internal GoA distribution. The standards are a combination of Government of Alberta requirements and mobile requirements from mobile platforms such as Android, iOS and Windows.

Standard Specification

Coding Style

When developing a mobile application, one (1) coding style must be followed throughout the whole application. All code written must be consistent with the coding style selected.

This includes, but not limited to:

- Naming conventions
- Commenting of code
- Header comments
- Coding style

Instruments Reports

All mobile applications developed must use Instruments to ensure that their applications do not contain memory leaks or is consuming all the memory of the device and are running as efficient as possible.

Source Code Repositories

All mobile applications must use a source code repository for maintaining source code during the development cycle.

¹ See Appendix A for description

² See separate GoA Standards Taxonomy Document for list of categories and keywords

Versioning

All source code must be versioned and tagged within the source code repository when the mobile application is submitted or updated. Each update submitted to the corresponding mobile application marketplace or for internal distribution must contain new version number.

Bug Tracking

All new and existing bugs and issues must be tracked.

Testing and Quality Assurance (QA)

All mobile applications that are to be submitted to mobile marketplaces (via Apple App Store, Google Play Store and Windows App Store) must be fully tested and be production ready before sending to Service Alberta for submission. Testing is crucial to make sure the mobile application does not crash, contain memory leaks and runs as expected.

Where to Apply This Standard

The standard should be applied to all new or existing mobile applications in development for either internal GoA distribution or external distribution via marketplaces such as Apple App Store, Google Play Store.

Authority and Exceptions

Internal Use Only

Supporting Documentation

[Mobile Application UI Design Technical Standards](#)
[Mobile Application Submission Standards](#)

Owner

Service Alberta, Office of the Corporate Chief Information Officer, Digital Service Technologies – Ranjoat Panesar, Solution Architect

Contact

GoA IMT Standards at imt.standards@gov.ab.ca

Additional Information

Audience	Mobile Application Developers
Source	All GoA Ministries
Sensitivity	Public
Proposed Date	2012-12-07
Proposed By	Service Alberta, Service Modernization, Digital Service Transformation – Ranjoat Panesar, Solution Architect

Appendix A

Types of Standards	Description
Technical Standard	These are detailed, unique standards that have developed in response to government IMT policies. Technical standards are intended to be replicable, transferable, and adaptable across ministries and other government agencies. Examples of these could include address data standards or specifications for a single identifier for transacting with government electronically.
Product Standard	An IMT product or specific technology oriented standard that facilitates the task of planning for enhancements and acquisitions within the government's broad information systems environment. As a definitive list of the numerous technologies either employed or under evaluation by Workplace Technology Services, product standards are critical in establishing conformity, interoperability and interchange-ability. Examples of these could include a government-wide standard for document, record management and database, and the list of core products for government workstations.
Process Standard	An established, mandatory business practice that supports IMT projects and existing systems to improve the outcome, diminish risks, and increase reliability. Examples could include business continuity planning processes, threat risk assessment processes, etc.
Reference Standard	An IMT industry standard (either a national or international formal or de facto standard) that has been adopted for use by the Province of Alberta. A Reference Standard may be adopted either as stand-alone or as a precursor to a customized standard or policy document. Examples could include the 1024 bit RSA standard for public key encryption.