What's New in App Publishing with iTunes Connect

Session 512

Max Müller

Director, iTunes Store, Digital Supply Chain Engineering

These are confidential sessions—please refrain from streaming, blogging, or taking pictures

Overview

- Welcome Mac OS X developers
 - Mac App store: Number one mac software store
- Graduating from the basics this year
 - Previous years sessions available with developer on iTunes
 - WWDC 2010, Session 310—App Publishing with iTunes Connect





App Publishing with iTunes Connect

What we'll cover

- What's new with:
 - Contracts
 - Game Center
 - In-App Purchases
 - App Review Resolution Center
 - iTunes Connect mobile
 - Application Loader
- Introduce setup for new iOS 5/Lion features
 - iCloud Storage
 - Newsstand
- Best practices and common pitfalls

Today's Agenda

What's New



Best Practices and Pitfalls



iOS 5 and Lion





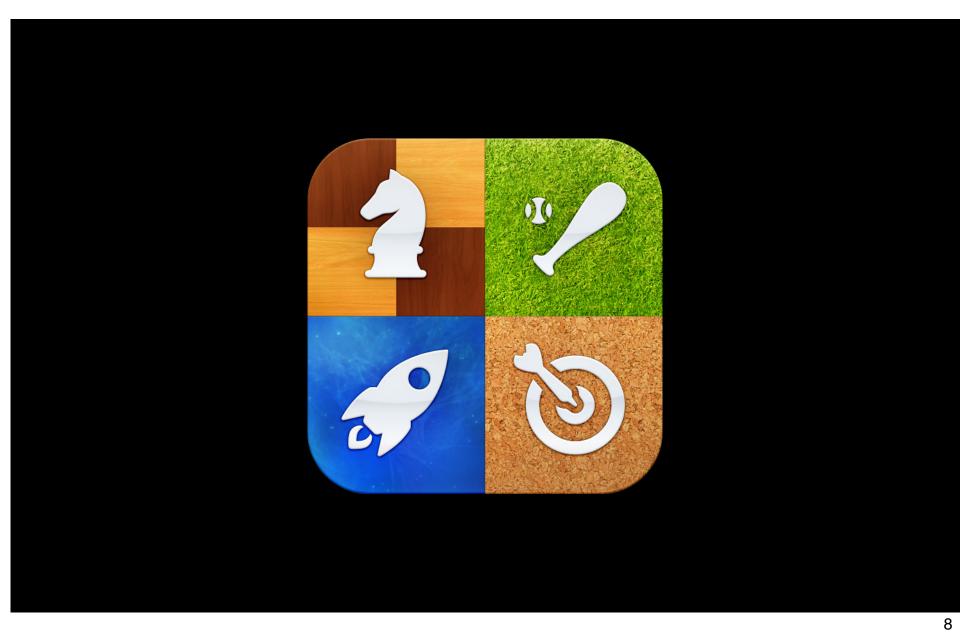
New iOS and Mac OS Contracts

- Updated iOS program license agreement
 - iOS 5 features
 - iCloud Storage
 - Newsstand



New iOS and Mac OS Contracts

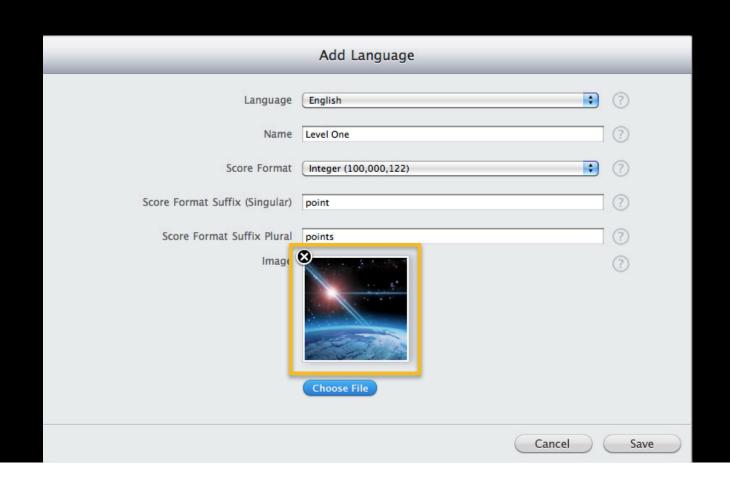
- Updated Mac developer program license agreement
 - Push notifications
 - iCloud Storage
- Updated Mac OS X schedule 2
 - In-App Purchases



Game Center: Leaderboard icons

- Leaderboard icons
 - Developer supplied icons for each leaderboard
 - Image must be 512x512, 72-dpi and JPEG, TIFF, or PNG format
 - Each leaderboard localization can have a different icon
 - Enabled in iOS 5 GM for Game Center

What's New? Game Center: leaderboard icons



Game Center: leaderboard icons



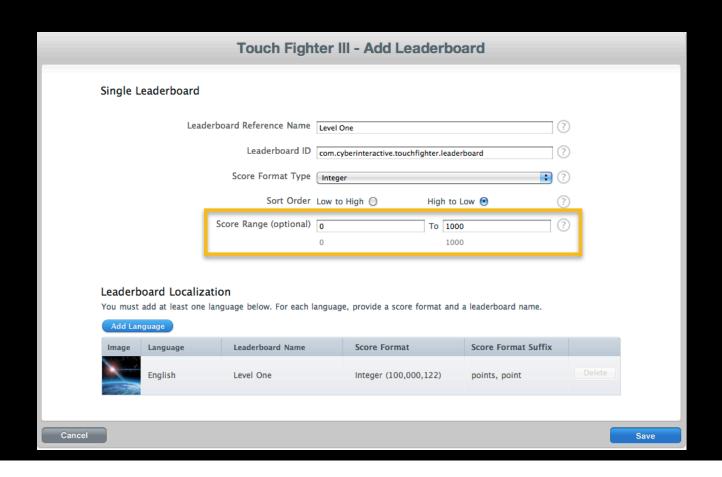
Game Center: leaderboard icons



Game Center: min/max values

- Leaderboard min/max values
 - Developer-controlled limits on leaderboards
 - Helps prevent gaming of leaderboard scores
 - Scores outside provided range are automatically deleted
 - Min/maxes must be signed 64 bit integer

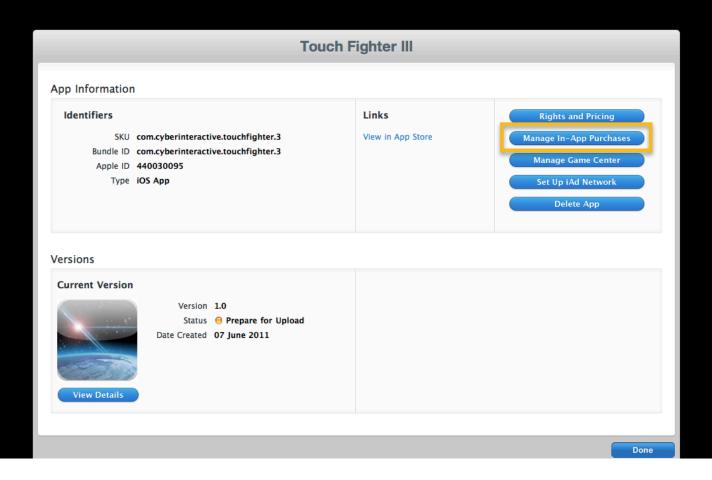
Game Center: min/max values

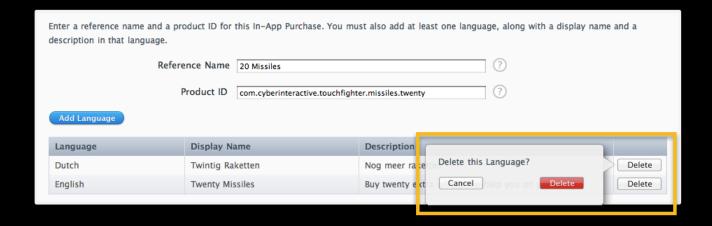


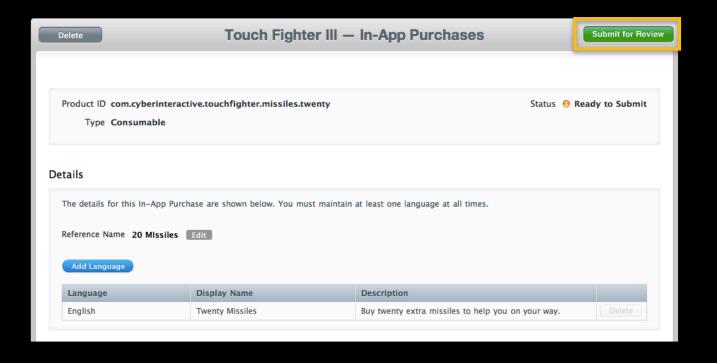


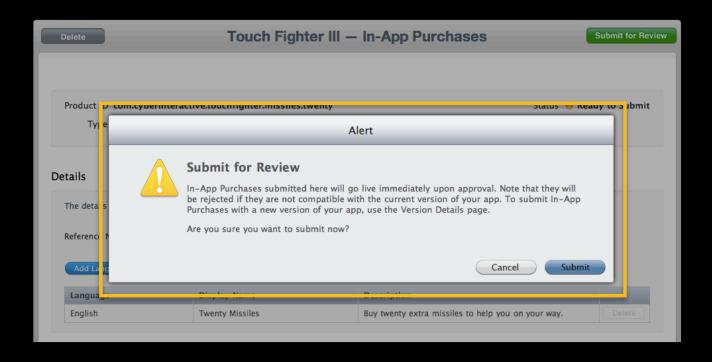
- Improved layout and searching
- Streamlined sign off/developer approval
- Mass submit

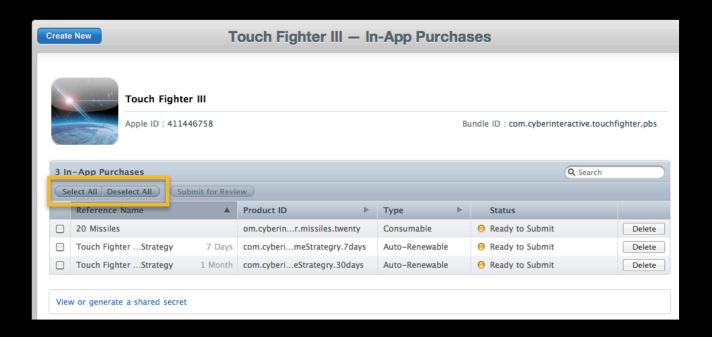












In-App Purchases: auto-renewables

- Enables automatically renewing subscriptions to customers
- Subscription renewed at the end of the subscription period
 - Customer given option to opt out in iTunes or on iOS
- Duration options
 - 7 days, 1 month, 2 months, 3 months, 6 months, 1 year
- Only available on iOS

In-App Purchases: auto-renewables

- Developer responsible for checking receipts to validate subscriptions
- Shared secret required to validate auto-renewables
- Marketing opt-in incentive
 - Customers receive free subscription extension for opting in
 - Duration chosen by developer/publisher in iTunes Connect
 - Publisher responsible for displaying duration bonus in their UI
- Publisher's privacy URL required
 - Shown on customer's invoice

In-App Purchases: auto-renewables

Select Type

Consumable

A consumable In-App Purchase must be purchased every time the user downloads it. One-time services, such as fish food in a fishing app, are usually implemented as consumables.



Non-Consumable

A non-consumable In-App Purchase only needs to be purchased once by the user. Services that do not expire or decrease with use, such as a new race track for a game app, are usually implemented as non-consumables.

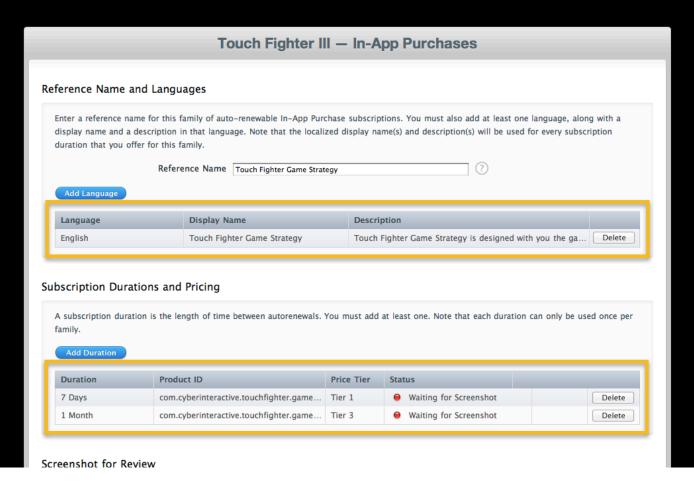


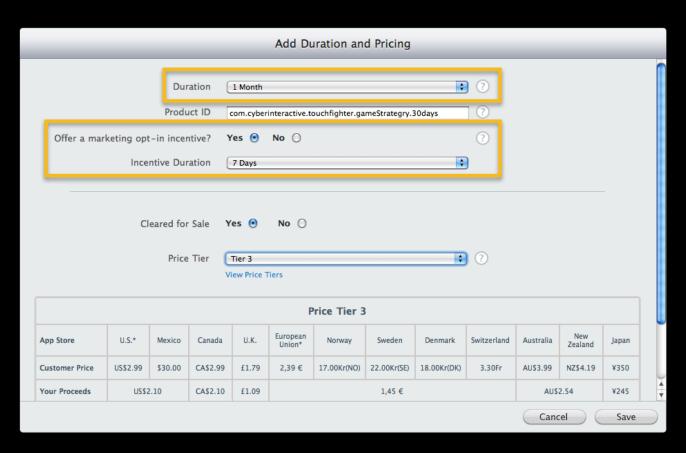
Auto-Renewable Subscriptions

An auto-renewable In-App Purchase subscription allows the user to purchase in-app content for a set duration of time. At the end of that duration the subscription will renew itself, unless the user opts out. An example of an auto-renewable subscription would be a magazine or newspaper that takes advantage of the auto-renewing functionality built into iOS.

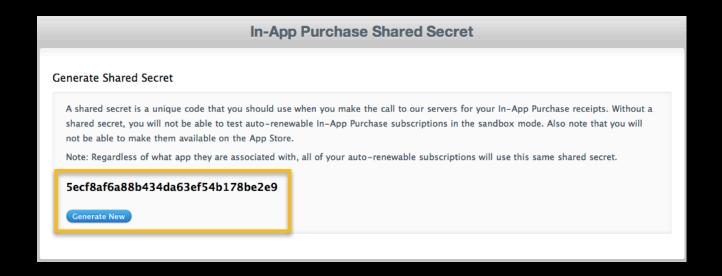
Auto-renewable subscriptions will be delivered to all devices associated with the user's Apple ID. When you create an auto-renewable subscription in iTunes Connect, you begin by selecting the duration(s) that you will offer. When a duration ends, the App Store will automatically renew the subscription. Note that if the user has opted out of this functionality, the subscription will expire at the end of that duration. You must make sure that your app can determine whether a subscription is currently active and renewable.

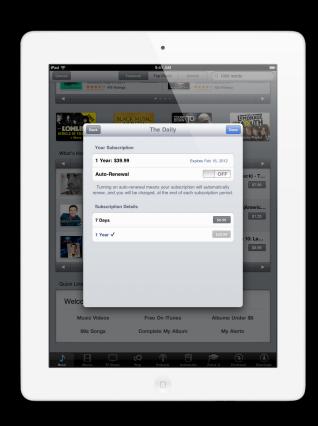






Add Privacy Policy URL To save this family of auto-renewable In-App Purchase subscriptions, you must add a URL that links to your company's privacy policy. Privacy policy URLs are required for all apps that offer auto-renewable subscriptions. Customers will see this URL on their invoice and on the subscription confirmation email they receive. Enter a privacy policy URL for each language listed below. You will be able to view or edit these localized URLs on the Version Details page for your app. English http://touchfighter.com/Privacy

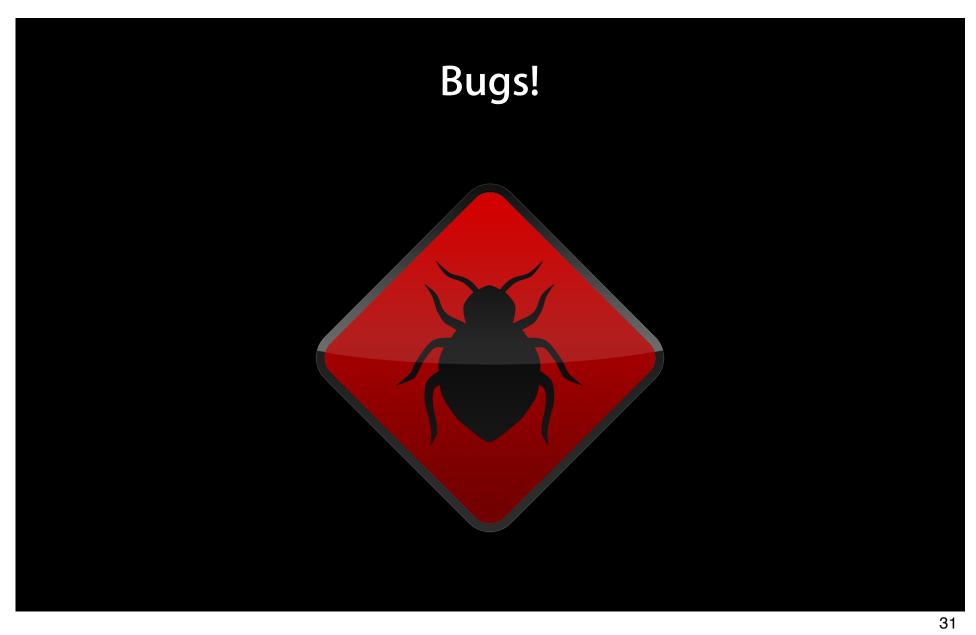




Demo In-App Purchases in iTC

Aloke Bhatnagar

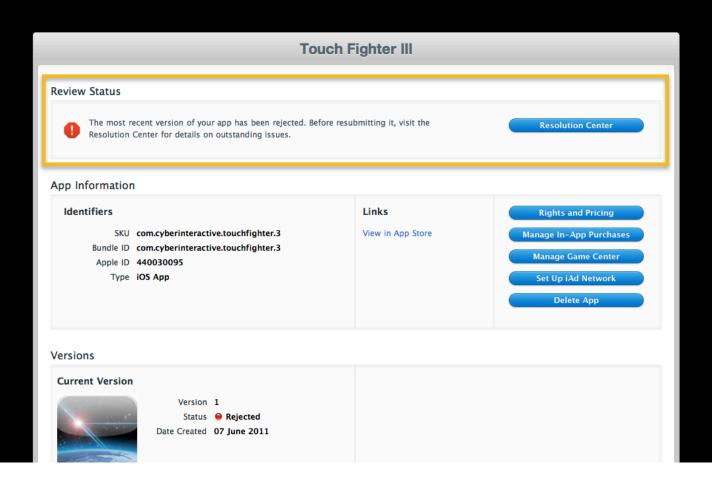
Engineering Manager, iTunes Store, iTunes Connect



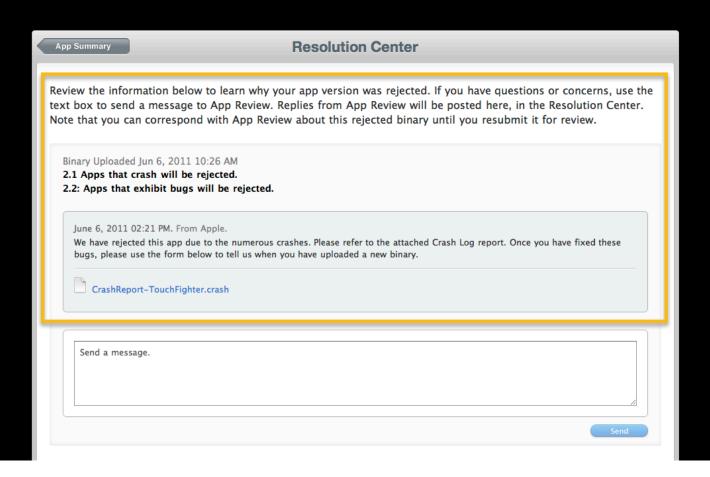
App Review Resolution Center

- Allows for centralized access to rejection information
- Apple may provide screenshots of your app
- Developer can input feedback on the issue
- History of app version's issues can be reviewed at anytime

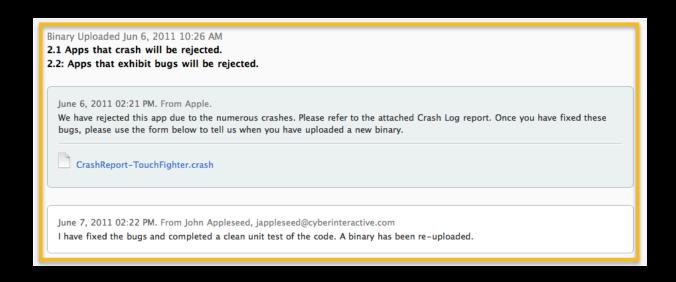
What's New? App Review Resolution Center



What's New? App Review Resolution Center



What's New? App Review Resolution Center





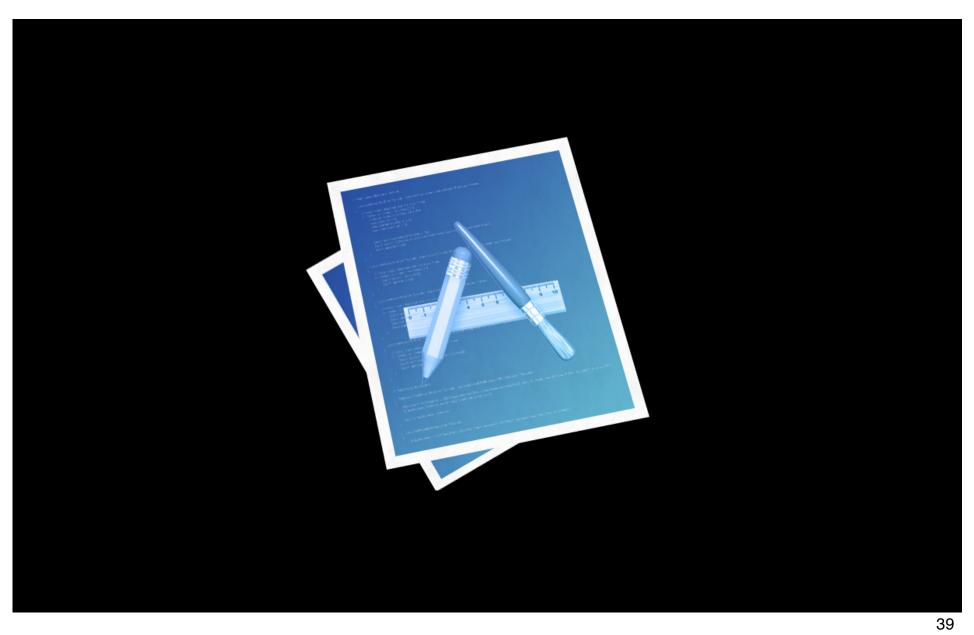
What's New? iTC Mobile 1.1

- iPad support
- iTC Mobile 1.2
 - Push notification support
 - Enables push alerts for app state transitions
 - Opt-in using default iOS push notification settings
 - App state transitions
 - Ready for sale, pending developer release, invalid binary, etc.



What's New? iTC Mobile 1.2

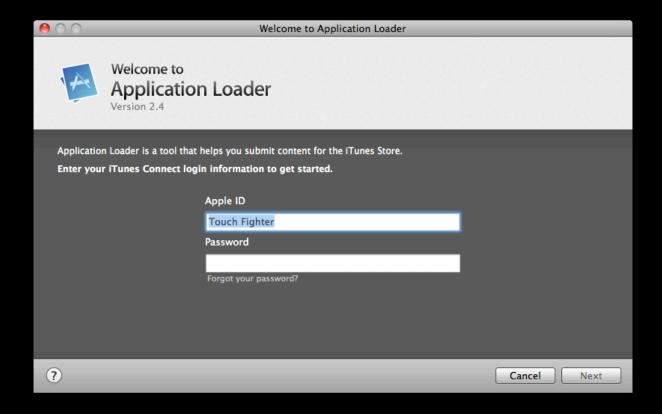


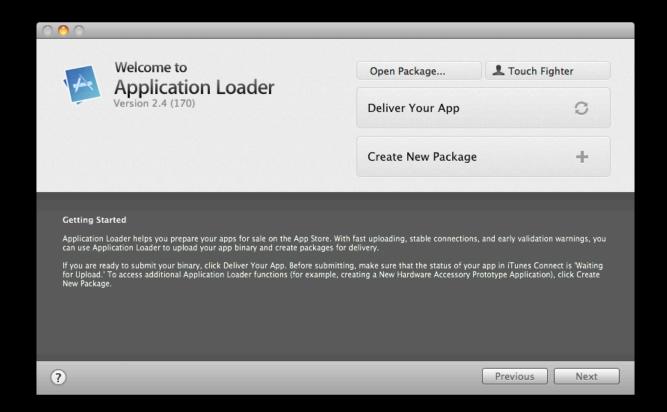


What's New?

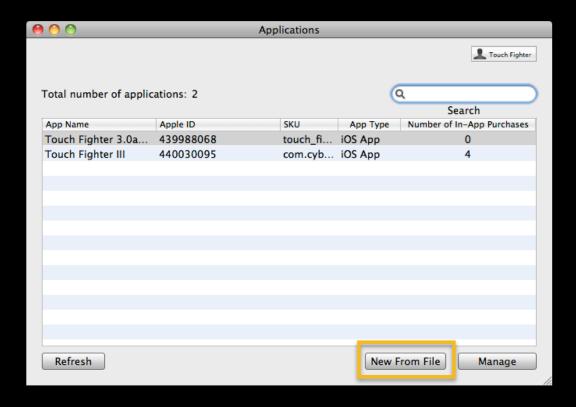
Application Loader

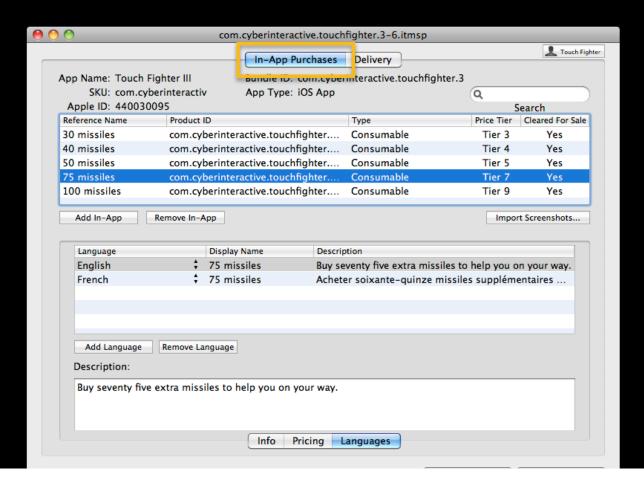
- Creation of In-App Purchase metadata is time consuming
- In-App Purchase metadata workflow introduced in Application Loader
- Enables mass import In-App Purchase metadata from a tab delimited file
- In-App Purchase submission can be ad hoc or with a binary
- Coming later this fall for iOS and OS X apps...











DemoApplication Loader

Jason Fosback

Engineering Manager, iTunes Store, Content Delivery

New iOS and Lion Features

Ricardo Cortes

Engineering Manager, iTunes Store, Provider Services

Today's Agenda

What`s New



Best Practices and Pitfalls



iOS 5 and Lion



New iOS 5 and Lion Features



iCloud Storage



Newsstand

New



Overview

- New for iOS 5 and Lion
- Enables cloud storage of app document data
 - Documents
 - Key Value Data
- Works across iOS and OS X apps
 - Example: Touch Fighter for desktop and Tough Fighter mobile

Setup and configuration

- Enable iCloud Storage in the iOS developer portal
- Two new relevant entitlements:
 - Documents
 - com.apple.developer.ubiquity-container-identifiers
 - Key Value Data
 - com.apple.developer.ubiquity-kvstore-identifier
 - Governed by provisioning profile
- Enter entitlement keys and values in Entitlements.plist
 - Each entry prefixed with Team ID

Setup and configuration: Document Storage

- com.apple.developer.ubiquity-container-identifiers
 - Denotes the identifiers used by related apps to write to the same Document Storage space
 - Must only contain identifiers from the same developer
 - Example:

```
com.apple.developer.ubiquity-container-identifiers = {
   "<TEAMID>.com.cyberinteractive.touchfighter.osx",
   "<TEAMID>.com.cyberinteractive.touchfighter.lite",
   ...
};
```

Setup and configuration: Key Value Data

- com.apple.developer.ubiquity-kvstore-identifier
 - Denotes identifier used to access the default iCloud Key Value store
- Example

```
com.apple.developer.ubiquity-kvstore-identifier =
"<TEAMID>.com.cyberinteractive.touchfighter.store";
```

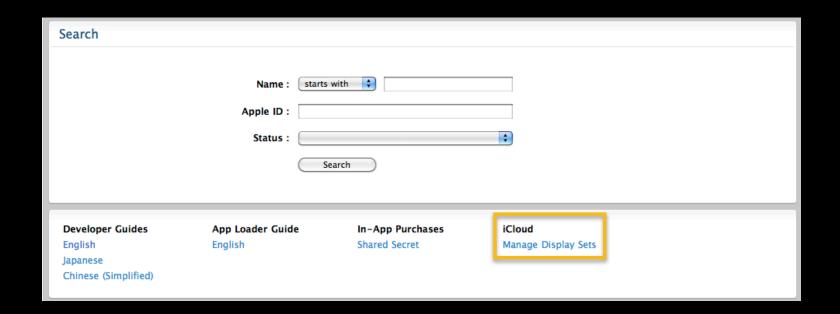
Setup and configuration: Document Storage

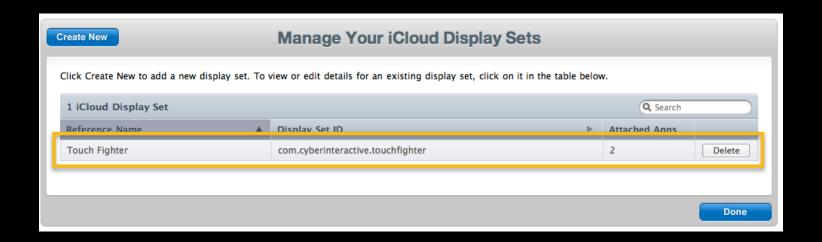
- One new Info.plist key:
 - NSUbiquitousDisplaySet
 - Defines a grouping key for iCloud Storage display purposes; allows QuotaService to collapse results for multiple document sets into a single grouping (i.e. Settings.app)
 - Must match a display set configured in iTunes Connect
 - Reverse-domain syntax is recommended
 - "com.apple.iwork.keynote" for iOS and OS X Keynote

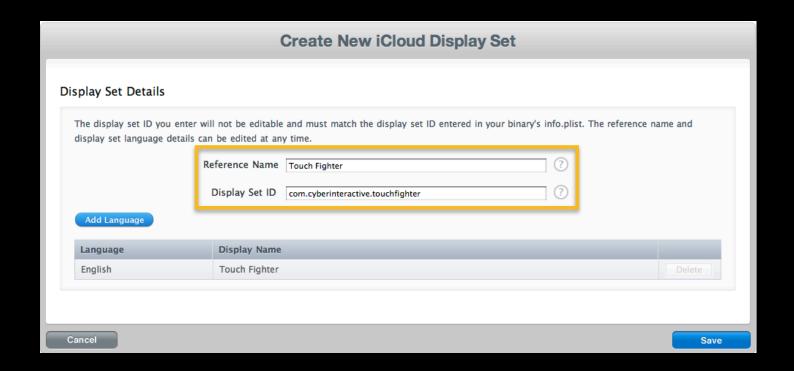


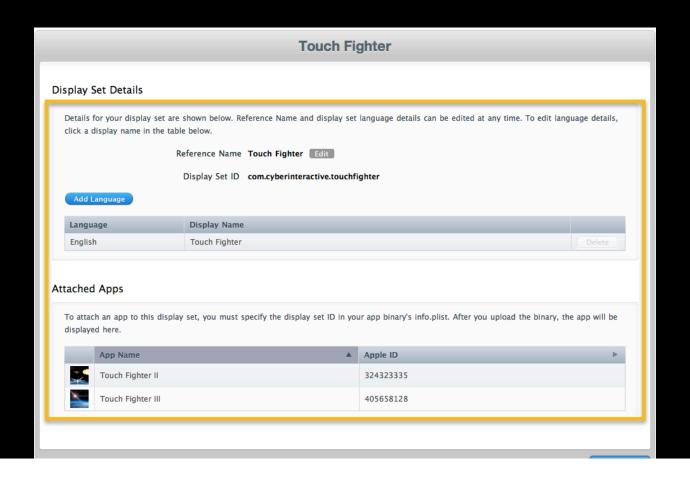












Demo iCloud Storage setup in iTC

Paul Turner

Engineering Manager, iTunes Store, Content Operations

Ricardo Cortes

Engineering Manager, iTunes Store, Provider Services

Overview

- New for iOS 5
- New area in the store specifically for our subscriptions and publications
- New framework called Newsstand Kit
- Enables dynamic delivery of asset covers and issue content
 - Backed by new push notification model
 - Upon receiving push, app communicates in background to developer's servers
 - Ongoing issue cover art and content delivered from publisher's servers
 - Default issue cover art supplied in iTunes Connect



Newsstand Setup and configuration

- Two new Info.plist keys
 - UINewsstandApp
 - UINewstandlcon
 - Defines look and feel of binary artwork

Newsstand Info.plist example

```
{
    CFBundleIcons = {
          UINewsstandIcon = {
               CFBundleIconFiles = ("News1x.png");
                UINewsstandBindingType = UINewsstandBindingTypeNewspaper;
               UINewsstandBindingEdge = UINewsstandBindingEdgeBottom;
        };
    };
};
```

Setup and configuration

- Optional developer supplied RSS Feed for dynamic updating of issue metadata and artwork
- iTunes Connect interface to see current and past issues
- Both RSS feed and iTunes Connect controls coming later this fall

Best Practices and Common Pitfalls

Max Müller

Director, iTunes Store, Digital Supply Chain Engineering

Today's Agenda

What's New



Best Practices and Pitfalls



iOS 5 and Lion



Best Practices and Pitfalls

- Functionality—app does not work as advertised
- Metadata—inappropriate information in supplied metadata
- Crashing—crashes on launch or during use
- Beta/trial—advertising app as a beta or trial version
- Ad hoc—limited utility where ad hoc is more suitable
- Icon mismatch small and large icons need to be similar
- Name inconsistency—name on App Store is not name in the binary
- Advertising—limited utility, only used for marketing/advertising
- Cell bandwidth—streaming too much bandwidth
- iPod touch—features such as dialing present on iPod touch

Best Practices and Pitfalls

- Apple trademark—guidelines for using the Apple trademark
- App signature new Lion features require a valid app signature
- Background multitasking—only approved background tasks
- In App Purchase types—non-consumable vs. consumable
- iCloud Storage—cached redownloadable content
- Lion testing—new and updated apps must work on Lion
- App consolidation—submitting the same app with different content
- Crashing—crashes on launch or during use

Summary

- Get ready with new iOS and Lion features
 - In-App Purchases (Lion)
 - Newsstand (iOS 5)
 - iCloud Storage (iOS 5, Lion)
- Binary submissions
 - Lion, coming soon
 - iOS 5, later this fall

More Information

Bill Dudney

Application Frameworks Evangelist dudney@apple.com

Documentation

iTunes Connect Developer User Guide http://itunesconnect.apple.com/docs/iTunesConnect_DeveloperGuide.pdf

Video

Development Videos http://developer.apple.com/videos

Apple Developer Forums

http://devforums.apple.com

Related Sessions

In-App Purchase for iOS and Mac OS X	Mission Thursday 09:00AM
iCloud Storage Overview	Presidio Tuesday 11:30AM
Storing Documents in iCloud using iOS 5	Presidio Wednesday 3:15PM
Building Newsstand Apps	Marina Tuesday 4:30PM
Building Newsstand Apps (repeat)	Russian Hill Thursday 11:30AM

Labs

App Publishing with iTunes Connect Lab	Internet and Web Lab A Thursday 2pm - 4:15pm
In-App Purchase Lab	Internet and Web Lab B Thursday 11:30am - 1:30pm
iOS App Review Lab	3rd Floor All Week by Reservation
Mac App Review Lab	3rd Floor All Week by Reservation
Developer Program Services Lab	3rd Floor All Week
iTunes Connect Developer Lab	3rd Floor All Week by Reservation

