

Tiles and Notifications: Bring your apps to life

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Agenda

- ▶ Basic Tiles
- ▶ Live Tiles
- ▶ Toast Notifications
- ▶ Windows Push Notification Service

You'll leave with examples of how to:

- ▶ Create compelling tiles and notifications that bring users back to your app

Make your app alive with activity
using Tiles and Notifications



demo

Start Screen

The background is a solid green color with a subtle gradient. It is decorated with several white circles of varying sizes, some of which are partially cut off by the edges of the frame. The word "Tiles" is written in a white, sans-serif font on the left side of the image.

Tiles

Basic Tiles

- ▶ Tap on tile to launch or switch to an app
- ▶ Static default tile specified in app manifest
- ▶ Two sizes:



Square (1x1)



Wide (2x1)

- ▶ Both sizes can have live updates

Live Tiles

Tiles updated
using pre-defined
templates

Templates
provide rich
rendering options

Text-only,
image-only or
combination

JPEG or PNG only,
max size 150 KB

Optional “peek”
animation

Local or cloud
updates



Matt Berg
Congratulations, I'm really excited to celebrate with you all. Thanks for the invi...

Mail

12

mattberg@live.com
RE: Wedding Announcement
Congratulations, I'm really excited to celebrate with you all. Thanks for the ...



Your order has shipped!
Thank you.



1



Paused
Eliza
Viper Creek Club
Letters



545 (3 mins) Downtown Seattle
119 (8 min) Ashway park & ride
225 (19 min) Eastgate / Overlake
545 (24 min) Downtown Seattle

Bus stops

1

Baby's first year crucial to bilingual language development - Raising bilingual children is an important goal for many South Texas families. A new study ...



First ever surfboard kickflip recorded in Santa Cruz by

34



Hey, you there?
Txt me when you're back



Missed calls
Karolina Bryant - 10:45 AM
Aziz Hassouneh - Yesterday 6:32 PM
Sidney Akers - Thursday 3:21 PM



5

Investments ▲ 2.3%
▲ 03.6 % Roth IRA (TD Ameritrade)
▲ 11.7 % 401K Fund (Fidelity)
▼ 01.4 % Investment Portfolio



Make awesome apps
BUILD conference
9:00 AM - 11:00 AM

13
TUESDAY



Seattle to New York (JFK)
Flight #224, Boeing 737
8:15 AM (On time)
Gate 13D

Flights

4

Top scores
1st Nail Knocker (46552 points)
2nd Major Nelson (46006 points)
3rd r0nchalant (24092 points)



People

3



Jim Corbin



demo

Live Tiles

Notification Queuing

By default only last notification shown

Opt-in to automatically cycle tile through last five notifications

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12



First ever surfboard kickflip
recorded in Santa Cruz

Secondary Tiles

Tiles created by “pinning” content from app

Pin initiated by app via simple runtime call

User confirms pin operation via system UI

Exposes a personalized surface for app

Same capabilities as app tiles

Launch leads to relevant content





demo

Secondary Tiles

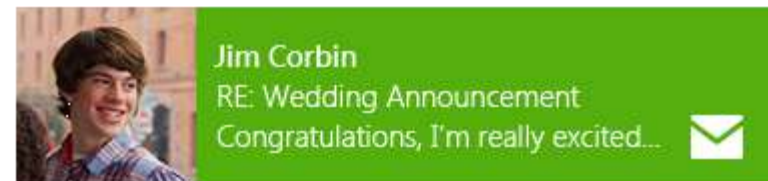
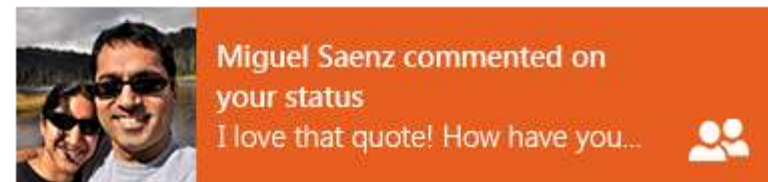
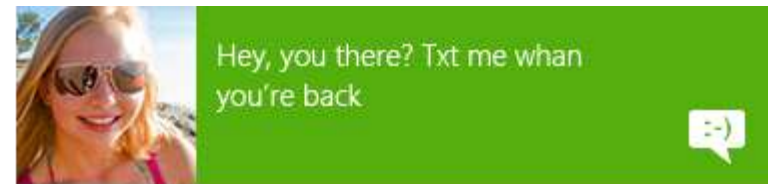
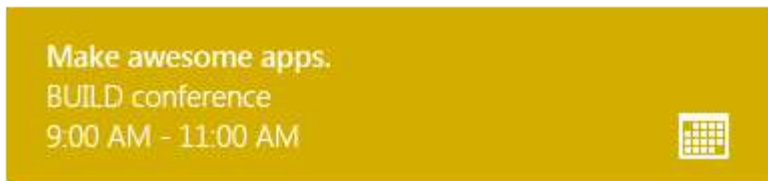
Toast Notifications

Toast Notifications

- ▶ Toast notifications deliver transient messages outside the context of the app
- ▶ Use toast notifications to get user's attention immediately
- ▶ User is in control and can permanently turn off toast notifications from your app
- ▶ Allows quick navigation to a contextually relevant location in your app
- ▶ Toast notifications are easy to invoke from your app or from the cloud

Toast Templates

- ▶ Toast notifications use the same template architecture as Live Tiles
- ▶ Rich set of rendering options available





demo

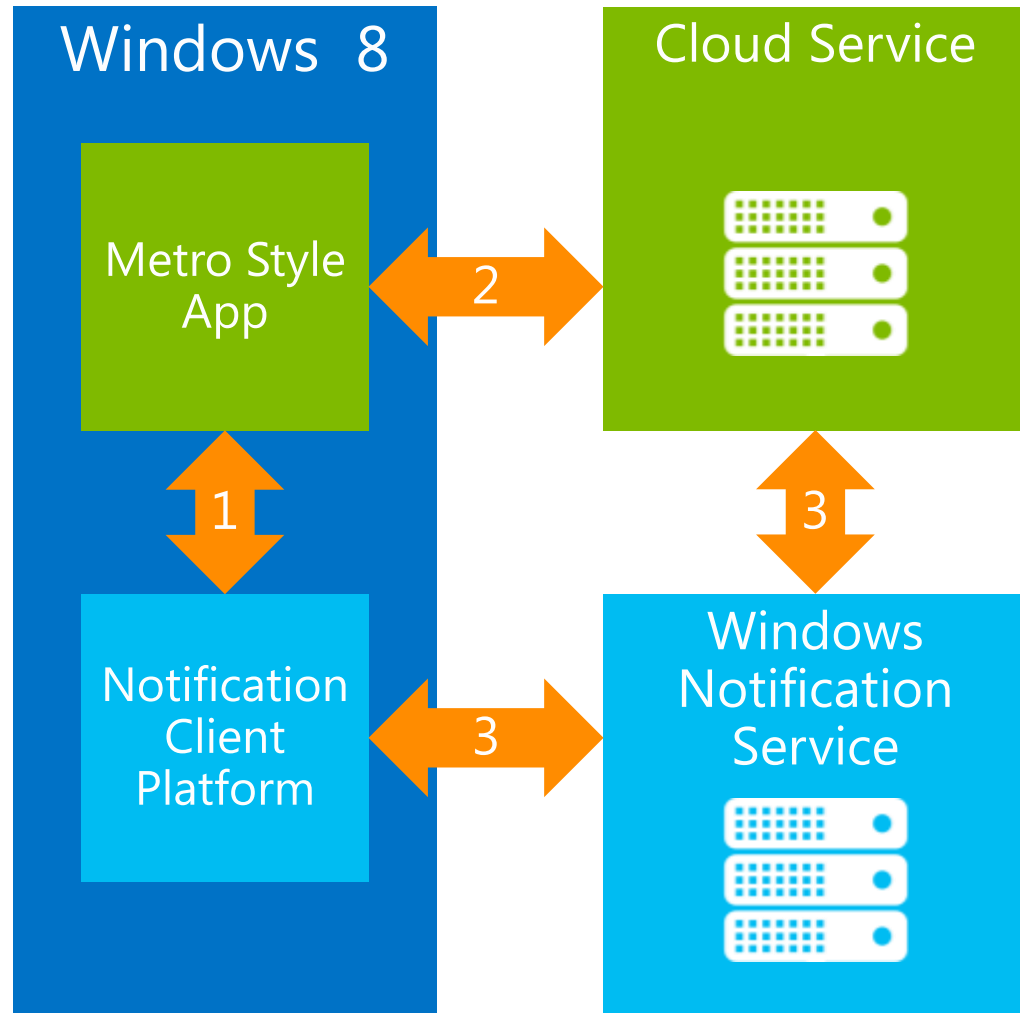
Toast Notifications

Windows Notification Service (WNS)

Windows Notification Service

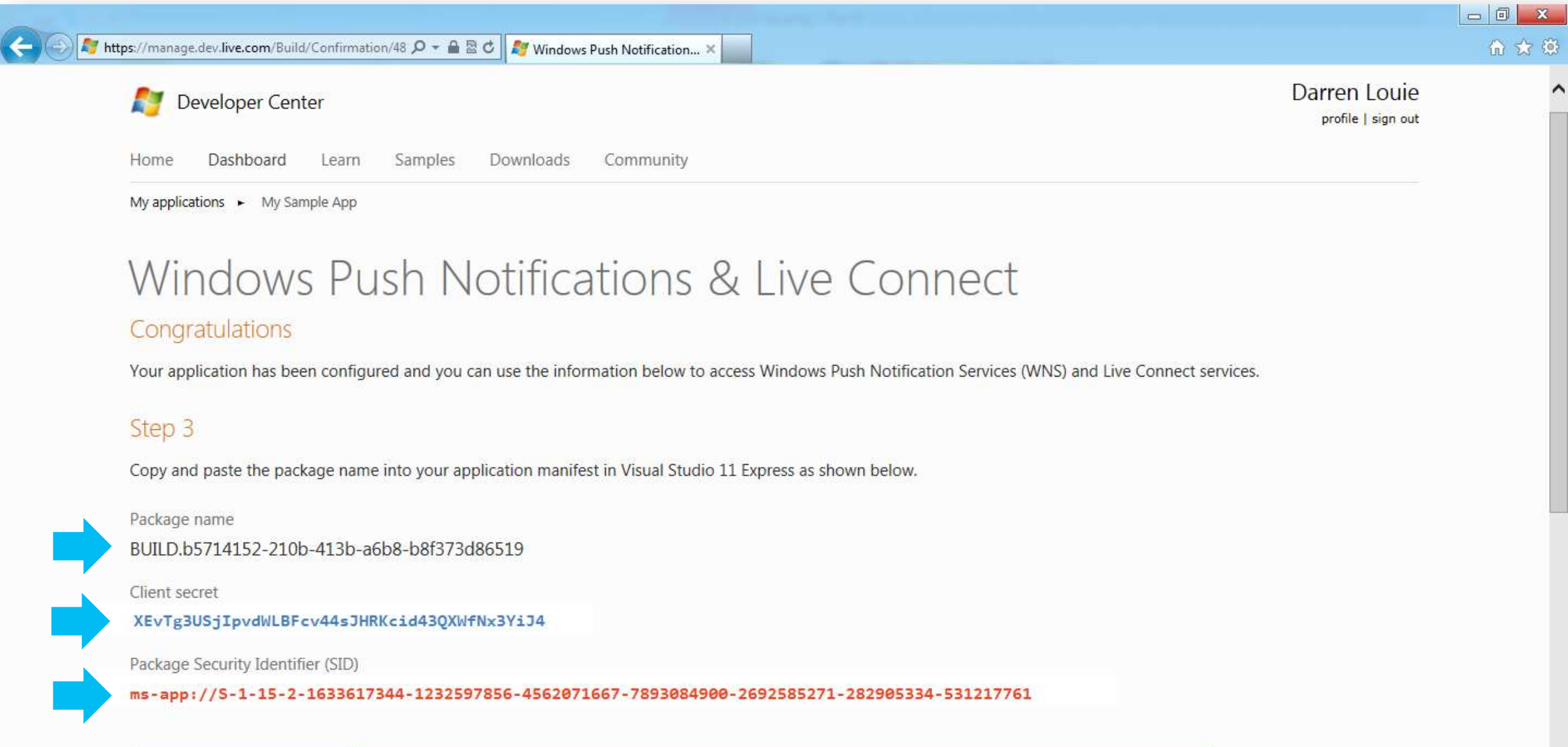
- ▶ Enables delivery of tile and toast notifications over the internet.
- ▶ Tile updates and notifications shown to the user even if your app is not running.
- ▶ WNS handles communication with your app
- ▶ Scales to millions of users
- ▶ WNS is a free service for your app to use

Push Notification Overview



1. Request Channel URI
2. Register with your Cloud Service
3. Authenticate & Push Notification

Register your App



The screenshot shows a web browser window with the URL `https://manage.dev.live.com/Build/Confirmation/48`. The page is titled 'Developer Center' and shows the user 'Darren Louie' is logged in. The navigation bar includes links for Home, Dashboard, Learn, Samples, Downloads, and Community. The breadcrumb trail shows 'My applications' > 'My Sample App'.

Windows Push Notifications & Live Connect

Congratulations

Your application has been configured and you can use the information below to access Windows Push Notification Services (WNS) and Live Connect services.

Step 3

Copy and paste the package name into your application manifest in Visual Studio 11 Express as shown below.

Package name	BUILD.b5714152-210b-413b-a6b8-b8f373d86519
Client secret	XEvTg3USjIpvdWLBfcv44sJHRKcid43QXWfNx3YiJ4
Package Security Identifier (SID)	ms-app://S-1-15-2-1633617344-1232597856-4562071667-7893084900-2692585271-282905334-531217761

Windows Azure Toolkit for Windows 8

Building a Floating Service with Windows Azure

What a service needs to support

Windows 8

Secure, web based API for channel URI registration.

Metro Style App

Persistent storage of channel URI.

Storage for tile and toast images.

Notification Client Platform

Cloud Service



3

Windows Notification Service



How do I do that with Windows Azure?

Request Channel URI

Register with your Cloud Service
Windows Azure Compute

• Web Role
Authenticate & Push Notification

- Full IIS support
- WCF REST and ASP.NET MVC

Windows Azure Storage

- Table Storage
- Blob Storage

The background is a solid orange color with several white, semi-transparent abstract shapes scattered across it. These shapes include circles, teardrop-like forms, and rounded rectangles, some of which are partially cut off by the edges of the frame.

demo

Windows Push Notifications Service using
Windows Azure

Recap

- ▶ Basic Tiles
- ▶ Live Tiles
- ▶ Toast Notifications
- ▶ Windows Push Notification Service

The background is a solid blue gradient. Scattered across the image are numerous circles of varying sizes, all rendered in a light green color. Some circles are complete, while others are partially cut off by the edges of the frame. The circles are distributed across the entire area, with a higher concentration in the upper right and lower right sections.

Recap

Make your app alive with activity
using Tiles and Notifications

Use Windows Notifications Service
when app is not running

Leverage Windows Azure to provide
cloud service infrastructure

Resources

Register your app

<http://manage.dev.live.com/build>

Download the
Windows Azure
Toolkit for Windows 8

<http://watwindows8.codeplex.com/>

Windows 8 Developer
Documentation

<http://dev.windows.com>

Further reading and documentation

Quickstart: Creating a tile notification

Creating tiles and toast

UX guidelines for tiles

Creating and managing tiles, toast, and Windows push notifications

Push notification client sample

<http://msdn.microsoft.com/en-us/library/windows/apps/Hh779725.aspx>

Sessions (BUILD)

[APP-396T]	Using tiles and notifications
[SAC-850T]	Getting started with Windows Azure
[SAC-858T]	Identity and access management for Windows Azure apps
[SAC-868T]	Building device & cloud apps
[SAC-869T]	Building global and highly-available services using Windows Azure
[SAC-870T]	Building scalable web apps with Windows Azure
[SAC-871T]	Building social games for Windows 8 with Windows Azure
[SAC-961T]	Inside Windows Azure storage: what's new and under the hood deep dive

The Microsoft logo is centered on a solid blue background. The logo itself is white and features the word "Microsoft" in a bold, italicized sans-serif font, followed by a registered trademark symbol (®). The background is decorated with several white-outlined squares of various sizes, some of which are partially cut off by the edges of the frame, creating a geometric pattern.

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