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# SharePoint 2013: Create push notifications in SharePoint for Windows Phone apps

This documentation is preliminary and is subject to change.

Summary:  Create a solution in SharePoint Server 2013 Preview for sending push notifications that can be received by Windows Phone apps.

Using the Microsoft Push Notification Service (MPNS), Windows Phone apps can receive notifications through the Internet of events triggered by SharePoint Server. The phone app doesn't have to poll the server for changes, for example, to the items in a list on which the phone app is based. The app can be registered to receive notifications from the server, and an event receiver can initiate a notification and send it to the receiving app for handling. The push notification is relayed to Windows Phone devices by MPNS.

An event relevant to a given phone app might occur (such as, for example, a list item being added to a list) when the app isn't running in the foreground on the phone (that is, when the app is tombstoned or closed). You could develop a background service on the phone with a periodic task that might check for changes to the list on the server, but this approach consumes resources (such as network bandwidth and battery power) on the phone. With MPNS and the components that support notifications built into the Windows Phone 7 OS, the phone itself can receive a notification relevant to the context of a given app—even when that app isn't running—and the user can be given the opportunity to start the relevant app in response to the notification. (For more information about push notifications, see [Push Notifications Overview for Windows Phone](http://msdn.microsoft.com/en-us/library/ff402558(VS.92).aspx).)

## Description of the sample

The server-side solution can be either an app for SharePoint deployed in an isolated SPWeb object, or a SharePoint farm solution packaged as a SharePoint solution package (that is, a .wsp file) that contains a web-scoped Feature. In the procedures in this code sample, you develop a simple SharePoint solution that creates a target list that activates the push notification mechanism on the server. After creating a server-side SharePoint list with notification, a developer can create a mobile app that receives push notifications on mobile devices. For more information about creating mobile app to receive push notification on mobile devices, see **How to: Configure and use push notifications in SharePoint 2013 apps for Windows Phone**.

## Prerequisites

This sample requires the following:

* Visual Studio 2012
* An installation of SharePoint 2013 Preview, with administrative privileges

## Key components of the sample

The sample contains the following:

* PushNotificationsList project, which contains ListItemEventReceiver.cs, PushNotification.cs, and the PushNotificationsList.ps1 Windows PowerShell script.
* The ListItemEventReceiver.cs file, which contains the event-receiver class for a list.
* The PushNotification.cs file, which contains classes for managing push notifications.
* The PushNotificationsList.ps1 Windows PowerShell script. You can run the CreateProductOrdersList.ps1 Windows PowerShell script from the SharePoint Management Shell on your target server to create the SharePoint list on which this project is based.

## Configure the sample

Follow this step to configure the sample.

* Change the value of the solution property from "http://localhost" to the URL of the home page of your SharePoint website.

## Run and test the sample

1. Choose the F5 key to build.
2. Deploy the solution on SharePoint Server 2013 Preview.

## Change log

| Version | Date |
| --- | --- |
| First version | July 16, 2012 |

## Related content

* **How to: Configure and use push notifications in SharePoint 2013 apps for Windows Phone**
* **How to: Configure and use push notifications in SharePoint 2013 apps for Windows Phone**
* [Push Notifications Overview for Windows Phone](http://msdn.microsoft.com/en-us/library/ff402558(VS.92).aspx)
* [Push Notifications foe Windows Phone development](http://create.msdn.com/en-US/education/quickstarts/push_notifications)