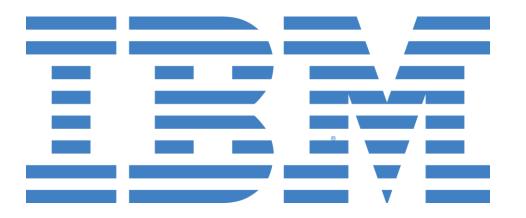# Manage your app in the background

KEEPING YOUR APP ALIVE WITH BACKGROUND TASKS

Background Tasks

- What are background tasks?

- Common uses

- Limitations

- Demo

What are background tasks?

- Lightweight classes that the operating system runs in the background on a separate process than your application

- Provide functionality when your application isn't running

Common uses

- Live tile and badge updates

- Data synchronization

- Lock screen

- Push and toast notifications

Limitations

▶ CPU

	CPU Usage Quota	Refresh Time
Windows App not on lock screen	1 second	2 hours
Windows App on the lock screen	2 seconds	15 minutes

CPU usage is based on code execution. If a task is waiting for a server's response this time is not counted towards the quota.

▶ Network

Refresh Period	15 minutes	2 hours	Daily
Data Limit (lock screen)	0.469 MB	n/a	45 MB
Data Limit	n/a	0.625 MB	7.5 MB

Note: network limitations are lifted when the device is on AC power.

Limitations

- Lack of advanced inter-process communications
  - Background Task Events
    - Completed
    - Progress
  - Local storage
  - Database

- Connected Standby
  - PCs that implement the connected standby power model run at very low power levels, but stay connected and up-to-date, even when they appear to the user to be turned off.

Demo

- Windows Store App

- Background Task Project

- Registering background tasks

- Maintenance Task

- Timer Task

- Update badge

- Send toast notification

- Monitor background downloads from foreground application

8/10/15 - 8/12/15