

Session Title Goes Here Use Two Lines if Needed

Speaker Name
Title
Organization

Level: Intermediate, etc.





Let's talk Windows 10 and UWP....

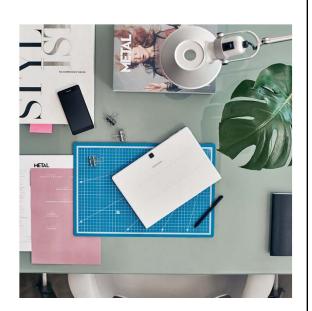


Users have multiple devices

60% of users in US, China, India and Brazil use a PC, Phone *and* Tablet

~42% begin an activity on one device and finish on another

82% of consumers live in a heterogeneous environment





Project Rome

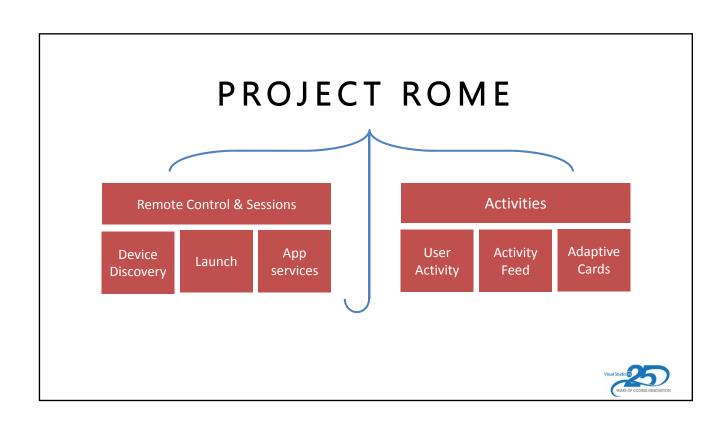
Enables the user to connect, manage and control any connected app or device, proximally or from the cloud

Exposes the user's device graph, enabling the app developer to pivot on the devices, apps, platforms and services

Empowers human centric experiences that evolve with understanding of the individual's environment







Smart Glass

Added a second screen to Xbox apps

Connects Phone and PC to Xbox

Cross platform on Windows/iOS/Android

Proximal connections on the same network



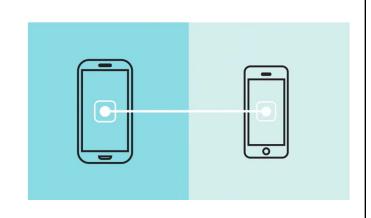


App2App Communications

Launch apps via Contract or Uri

Simple communication between apps

Background services that can share functionality between apps





Native experiences for URIs

APP URI HANDLERS

Custom Protocols

Register a custom protocol handler with Windows (i.e. myapp://)

Could share deep links between machines or users

If app is not present on the machine, the App Store opens to the app



App Uri Handlers

Register app on Windows machine to handle basic web uris

If you selects uri, routed to app instead of website

If app is not on machine, user continues on to website





DEMOImplementing AppUriHandlers

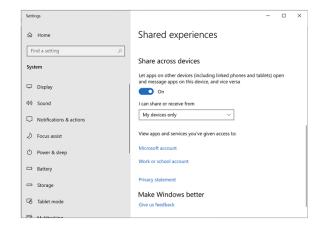


Enabling Shared Experiences

User can enable sharing between their devices or others around them

Have the ability to enable/disable certain apps

Enable Nearby Share



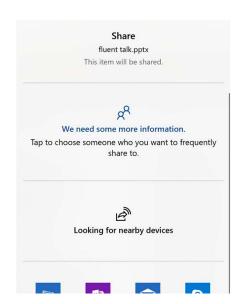


Nearby Share

Built in to Windows (April 2018 update)

Shares by Bluetooth proximity

Built into the SDK via the RemoteSystemWatcher







Extending the experience

CROSS DEVICE INTERACTIONS

Extending the experience

Launch app on a difference device

Share information between devices





Augment the experience

Create companion experiences

Provide additional information to second screen

Allow user interaction from second screen





Enrich the experience

Remote control experience

Enabling messaging between devices





DEMORemote Control

Remote App Services

Remember those app services we talked about in the beginning?

Any service can be enabled to be accessed remotely

Now apps can talk to each other across machines





Enable Remote App Service

AppServiceConnection exposes an isRemote property to identify if services are remote

Manifest

<uap:Extension Category="windows.appService"
IsRemote="true" EntryPoint="AudioPlayer.AudioPlayerTask">

Maximum messaging size is 64k



Remote App Service Lifetime

Service is created on request and lasts the length of the connection

Client has the ability to terminate the service

App service is subject to UWP life cycle events



Time to have a party...

REMOTE SESSIONS

Remote Sessions

Allow others to share a connected experience

Connects over Bluetooth or LAN

Communicates through ValueSets





Creating Remote Sessions

Create a new session with a RemoteSystemSessionController

Discover and connect to sessions with a RemoteSessionWatcher

Broadcast ValueSets to group or individuals



Ideas for Remote Sessions

Scrum Poker

Voting Apps

Messaging App

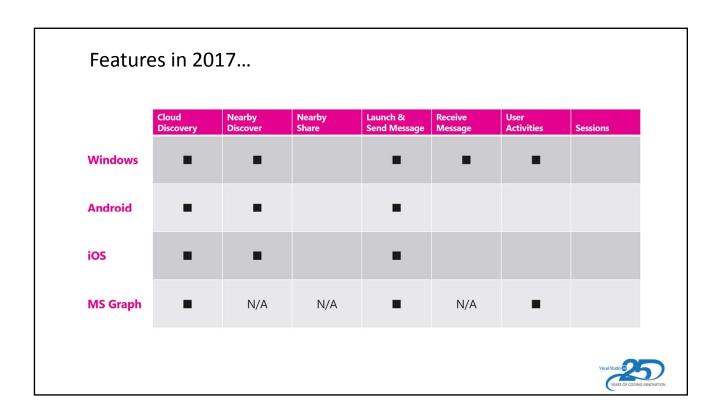


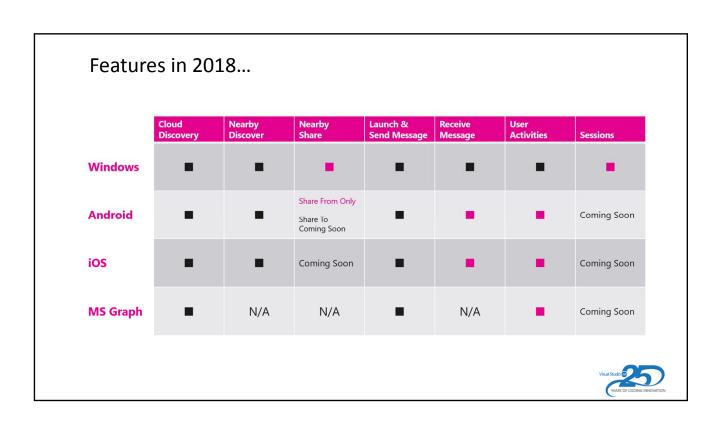
DEMOTeam Messanger

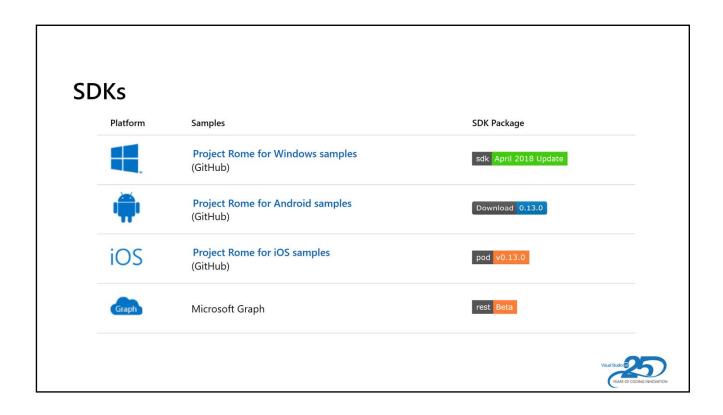
Past, present, and future

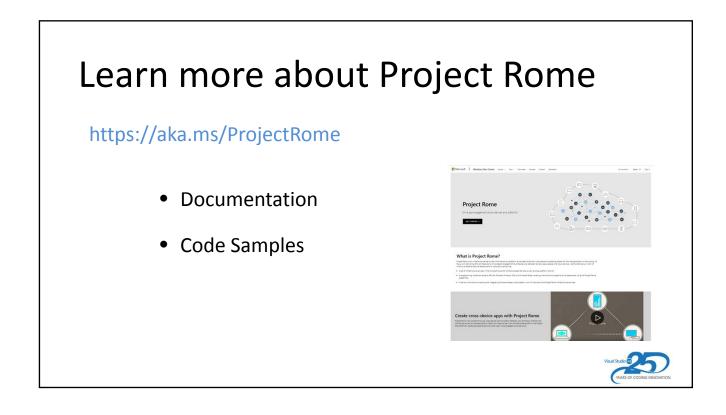
CURRENT STATE

Visual Studio Live! San Diego 2018









THANK YOU

QUESTIONS OR COMMENTS?

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