



OSIsoft Cloud Services

Part 4 of 4

- Data Visualization -

Presented by **Kevin Gordon, Paul Kaiser**
Laurent Garrigues

Extend the Platform and Add New Offerings

More Commercial Offerings

Cloud Connect



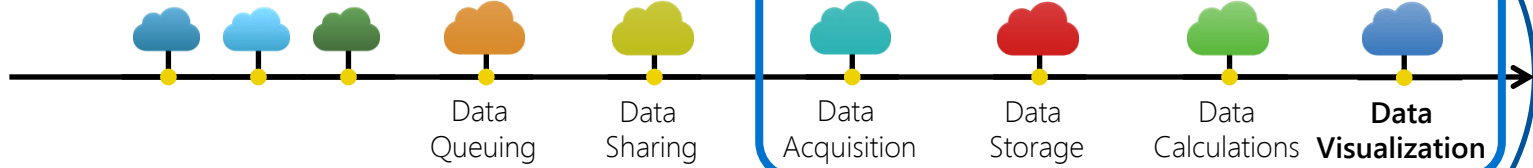
Data Sharing



Display Sharing



Partners App.



Cloud Services Platform

Agenda

- OCS Programmatic Access
- Latest Technologies
- Setting up an Angular Dev Environment
- Building an OCS Data Visualization App
- Explanation of Security
- More Demonstration
- Recap
- Wrap Up



OCS Programmatic Access

- RESTful
 - HTTP Access to OSIssoft Cloud Services, using common verbs like GET, POST, PUT, DELETE, PATCH
- Layered Libraries
 - Set of Typescript files that wrap our REST API's on top of a special Security Library.
 - Delivered as Angular Services and Objects
 - Bundled & Packaged for 3rd Party Access

Latest Technologies

- SPA
- Node.js
- npm
- Angular 2
- angular CLI
- Visual Studio Code
- TypeScript
- D3.js

Fictitious Scenario for OSIsoft Cloud Services (OCS)

The Story of Unified Petroleum's Digital Transformation

Desire to improve safety and reduce cost

- Optimize drilling
- Share across regions
- Discourage isolation
- Smooth interaction w/ latest technologies
- Available everywhere
- Do not want to maintain an IT staff

Fictitious Scenario for OSIsoft Cloud Services (OCS)

- Data source
 - Wellsite Information Transfer Standard Markup Language (WITSML)
 - “*Standard*” for sharing well data in the petroleum industry.
- Unified Petroleum is actively drilling in...
 - Gulf of Mexico
 - North Sea
 - Lookout, Oklahoma





Recycle Bin



Google
Chrome



stuff

oosdemo.cloudapp.net

Untitled - Notepad

File Edit Format View Help

Setup a Machine for Angular2 Development

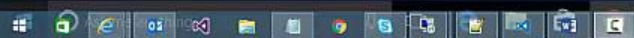
NodeJS (includes NPM)

GIT

Visual Studio Code

Angular-CLI

Your First Angular Application



Demo

- Describe "ocs-services" package
- Integrate security scaffolding & add code snippets
 - Application, menu, login/logout, routing
 - Data source view page
- Create D3 graphing control/directive
- Connect the control to OCS & show some data

Security Model

- WAAD – Windows Azure Active Directory
- OAUTH
 - Security Tokens
- ADAL – Active Directory Authentication Library
 - Purpose is to manage authentication, refresh tokens, and send proper security credentials on the HTTP calls to the OCS Services REST API's

Recap

- OCS Programmatic Access
- Latest Technologies
- Setting up an Angular Dev Environment
- Building an OCS Data Visualization App
- Explanation of Security

Next Steps...

UC NA 2017
San Francisco



UC EMEA 2017
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uservoice 

UC NA 2018
San Francisco



uservoice 

UC EMEA 2018



Gen. Av.

Open Beta

-  Storage
-  Ingress
-  Calculations
-  Visualization

CTP

-  Data Sharing
-  Display Sharing

-  Data Sharing
-  Display Sharing
-  Partners App.

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Questions

Please wait for the **microphone** before asking your questions



State your **name & company**

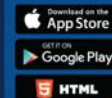
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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado