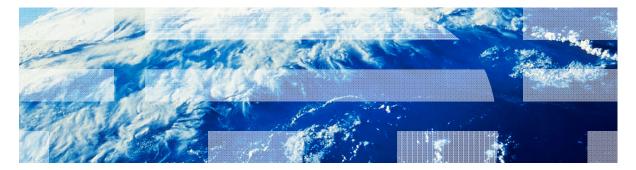


IBM Worklight V5.0.5 Getting Started

Module 60.2 – Running the Dojo-based Mysurance End-to-End Sample



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About IBM

See <u>http://www.ibm.com/ibm/us/en/</u>



Agenda

- General information
- Running the Mysurance End-to-End sample for Android
- Running the Mysurance End-to-End sample for iOS



About this task

- The Mysurance sample app is a hybrid sample application that illustrates an end-to-end insurance scenario.
- Two projects are provided in the Mysurance sample app:
 - module_60_2_Mysurance is a project for both the Android and iOS client platforms.
 - module_60_2_MysuranceWar is a web project that runs on the application server.
- The Mysurance sample app is a hybrid sample application. Hybrid applications consist of an application that is developed with web technologies such as HTML, CSS, and JavaScript.
 - The JavaScript invocations call into a JavaScript native bridge.
 - The bridge enables hybrid applications to access native device capabilities (such as GPS or a camera) and to use native device UI controls and navigation.

About this task

- This style of application enables developers to use their existing web skills without needing to learn to program in other languages such as Objective-C or Java[™]
 - It also frees them from writing multiple versions of the same application for various different platforms
 - A hybrid application tends to have a similar performance and look and feel to a pure native application
- The Mysurance sample app is a business-to-consumer example which demonstrates different capabilities of a hybrid application in an end-to-end insurance scenario
 - The scenario covers an individual who is involved in a road traffic accident
 - The individual can record and document pertinent information on-site and submit necessary documentation to the insurance company for further processing and handling



Starting the application server

- This task is only required if you want the client to send information to the service
- Start the service by using the following instructions:
 - 1. Deploy the mysurance.war file provided in module_60_2_MysuranceWar to an active application server
 - module_60_2_MysuranceWar is included in module_60_2_Mysurance.zip
 - See your server administration guide for instructions
 - Confirm that the Mysurance application started normally by accessing URL: http://<host>:<port>/mysurance/

The following message on your browser indicates that the service is started and ready to accept requests: simple index.html



GPS capabilities

 To allow GPS capabilities to function correctly, ensure WiFi or cellular data is enabled on your device



Previewing Mysurance with the Mobile Browser Simulator

- Note: This version of Mysurance cannot be previewed with the Mobile Browser Simulator
 - Mysurance uses data synchronization which is not supported by the Mobile Browser Simulator



Agenda

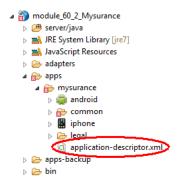
- General information
- Running the Mysurance End-to-End sample for Android
- Running the Mysurance End-to-End sample for iOS



- See the following modules for how to build and deploy the Showcase:
 - Module 2 Setting Up Your Development Environment
 - Module 2.2 Setting Up Your Android Development Environment

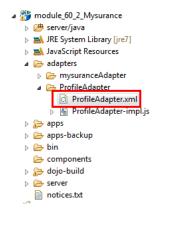


- Enable Push Notification
 - The Push Notification feature uses the Google Cloud Messaging (GCM) service
 - Perform the following steps to configure the Showcase to use the GCM service:
 - Follow the instructions at <u>http://developer.android.com/guide/google/gcm/gs.html</u> to create a GCM sender ID and API key
 - You need to create a Google Gmail account, if you do not already have one
 - Edit application-descriptor.xml in the /apps/mysurance folder of the Android project
 - Add the following element:
 - <pushSender key="API_key" senderId="GCM_sender_ID"/>





- Set the <domain> element in ProfileAdapter.xml
 - Edit ProfileAdapter.xml in the /adapter/ProfileAdapter folder of the generated project
 - Set the <domain> element to the running IBM® Worklight® Server IP address



```
<?xml version="1.0" encoding="UIF-8" standalone="no"?>
<!--
   Licensed Materials - Property of IBM
   5725-G92 (C) Copyright IBM Corp. 2011, 2012. All Rights Reserved.
   US Government Users Restricted Rights - Use, duplication or
    disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
--><wl:adapter xmlns:wl="http://www.worklight.com/integration" xmlns:
    <displayName>ProfileAdapter</displayName>
    <description>ProfileAdapter</description>
    <connectivity>
        <connectionPolicy xsi:type="http:HTTPConnectionPolicyType">
            orotocol>http</protocol>
            domain>9.181.110.33</domain>
            <port>80</port>
        </connectionPolicy>
        <loadConstraints maxConcurrentConnectionsPerNode="2"/>
    </connectivity>
   <procedure name="getAllProfile"/>
    <procedure name="getProfile"/>
    <procedure name="updateProfile"/>
   <procedure name="removeProfile"/>
    <procedure name="addProfile"/>
```



Known limitations

There are some known limitations in this Showcase. The following instructions describe how to implement workarounds to these limitations:

- Zooming on Android tablets
 - On Android 3.0+ tablets, the Showcase is automatically zoomed which gives a poor user experience
 - To disable zooming, perform the following steps to set the SDK version to 11 or above:
 - Right-click the generated Android project and then Properties

		Android			
Android	^	Project Build Target			
- Android Lint Preferences - Builders		Target Name	Vendor	Platform	API Level
- Java Build Path		Android 2.2	Android Open Source Project	2.2	8
 Java Code Style 	=	Android 4.0.3	Android Open Source Project	4.0.3	15
E-Java Compiler					
- Java Editor					
- Javadoc Location					
e-Links		~Library			
Project Facets		Is Ubrary			
- Project References					
Run/Debug Settings	~	Reference	Project		Add

- Click Android in the properties list
- Change Project Build Target to Android 3.0 or above and click OK
- Edit AndroidManifest.xml in the root of the generated project
 - Set android:minSdkVersion to the API level of the Project Build Target

```
</application>
<uses-sdk android:minSdkVersion="15" />
</manifest>
```



Known limitations

Enable Showcase features

- Edit AndroidManifest.xml in the root of the generated project
 - Add the following permission elements:

<uses-permission android:name="android.permission.CAMERA"></uses-permission>	Allows access to the camera device
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"></uses-permission>	Allows access to a coarse location such as Cell-ID or WiFi
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"></uses-permission>	Allows access to a fine location such as GPS
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"></uses-permission>	Allows access to write to external storage

Please also check the product Release Notes for information about known defects



Explore the demos

- Load the Mysurance Showcase app
 - The Login screen is displayed
- Log in to the app
 - User name = demo
 - Password = demo
- Click Login
 - The main screen is displayed

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	IBM
	Powered by
	WebSphere.
	username
	password
	Login



Explore the demos

- A tab bar at the top of the screen separates the different demo features
- There are four features:
 - About
 - Toolkit
 - Profile
 - Accident
- Click the About tab to read a brief introduction about the app



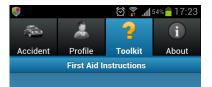


- Click the Toolkit tab
- There are three features:
 - Application Settings
 - Find a Tow Truck
 - First Aid Instructions

💽 🔊	Profile	© ͡͡	5% 17:22 i About
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First	Aid Instruc	tions	>
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- Click First Aid Instructions
- You are shown useful emergency and first aid information in case you are involved in an accident
- Ensure that the view is scrollable



1. CALL

Check the victim for unresponsiveness. If the person is not responsive and not breathing or not breathing normally, call **911** and return to the victim. In most locations the emergency dispatcher can assist you with CPR instructions.

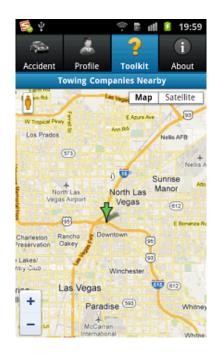
2. PUMP

If the victim is still not breathing normally, coughing or moving, begin chest compressions. Push down in the center of the chest 2 inches 30 times. Pump hard and fast at the rate of at least 100/minute, faster than once per second.



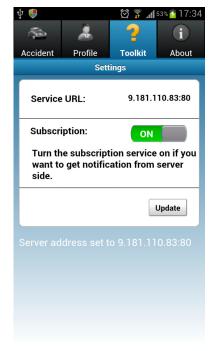
- Click Find a Tow Truck
- Check that Google Maps correctly identifies your current position* and displays nearby tow service suppliers

 * Assumes a working GPS or wireless-based location. By default, a map of Las Vegas is displayed if the current position cannot be established.





- Click Application Settings
- In the Service URL field, enter the correct URL in the format <host>:<port>
- Use the Subscription slider to turn on subscription and enable the notification feature
- Click Update
 - Message 'Server address set to <host>:<port>' is displayed
 - If the URL is not valid, message 'host not reachable' is displayed instead





Explore the demos: Profile – online mode

- Click the Profile tab
 - The existing profile is automatically loaded from the IBM Worklight Server
- You can update the retrieved profile data
 - Edit any of the profile fields and then click
 Update profile
- The profile data is updated on the IBM Worklight Server immediately



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Accident	Profile	Toolkit	About
	My	Profile	
License	e no:	001	
First N	ame:	carlos	
Last Na	ame:	andreu	
Date of	f Birth:	1978-03-14	
	Updat	e profile	



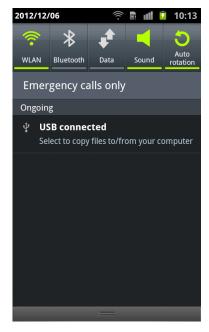
Explore the demos: Profile – offline mode

- Switch off WiFi to take the app offline
 - An alert informs you that data will now be saved in a local database



- Edit any of the profile fields and then click Update profile
 - An alert informs you that the data was saved in the local database







Explore the demos: Profile – offline mode

- Switch WiFi back on to take the app online again
 - An alert informs you that an online connection has been detected



- Click OK to synchronize the local data with the IBM Worklight Server
 - An alert informs you that the profile data is now updated on the IBM Worklight Server



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WLA	.N	Bluetooth	Data	Sound	Auto rotation
En	her	gency ca	alls only		
Ong	join	B			
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			_		



Explore the demos: Profile – offline mode

- If WiFi is already switched off when you start the app, an alert informs you that the app is in offline mode
- Now follow the same steps as just described:
 - Edit any of the profile fields and then click
 Update profile
 - Switch WiFi back on to take the app online again
 - Click **OK** to synchronize the local data with the IBM Worklight Server





- Click the Accident tab
 - This feature shows all the steps that are required to build and send an accident request
- Click Add a new accident to begin the process

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Accident	Profile	Toolkit	About
	Accide	ent List	
	Add a nev	v accident	



- Step 1: Record Accident Location
 - Enter the accident location details manually
 - Or obtain your current position* by clicking Retrieve Current Location
 - Click Next to proceed to Step 2

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Accident	Profile	Toolkit	About		
Step	Step1: Record Accident Location				
Street: 600 Las Vegas Blvd N					
City: Las		Las Vegas			
State:	Ν	evada	•		
Zip:		89101			
Retr	Retrieve Current Location				
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 * Assumes a working GPS or wireless-based location. By default, a Las Vegas location is displayed if the current position cannot be established.

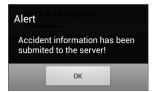


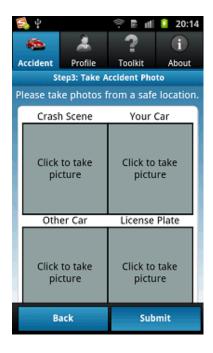
- Step 2: Record Driver Information
 - Enter driver information
 - Click Next to proceed to Step 3

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Accident	Profile	Toolkit	About
Step	2:Record Di	iver Informa	ation
Licens	e no:	Enter license	number
First Name: Enter first name		ame	
Last Name: Enter last name		me	
В	ack	Ne	ext



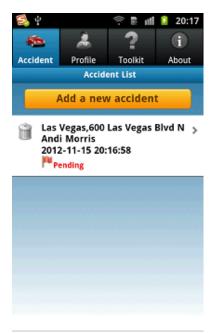
- Step 3: Take Accident Photo
 - Click a photo box to switch to your camera application
 - Take a photo
 - Control returns to the "Take Accident Photo" page and the photo image is displayed
 - Optionally repeat for further photos
 - Click Submit to submit the completed accident request to the IBM Worklight Server







 The submitted accident request is displayed on the "Accident List" page with status Pending





 If the Service URL is not configured, warning message 'Mysurance has not yet connected to a server' is displayed

Unable to Connect			
	Mysurance has not yet connected to a server.		
Cancel Connect			

 Click **Connect** to access the Toolkit "Application Settings" page and follow the instructions to enter the Service URL



- Server Notification
 - Go to the Mysurance server to send a notification after you submit the accident request
 - http://<host>:<port>/mysurance/accident.html
 - Subscription must already be turned on
 - Set the IBM Worklight Server address
 - Select one report from the User Request List
 - Click Approve

User Request List

Option	Id	User	Crash Scene	Customer's Car	Other Car	License Plate	Status
E	2	demo					Pending
					WorkLight Server Addres	s: <host>:<port></port></host>	Approve



- Client Notification
 - If the app is running in the foreground, an alert informs you that the request is approved

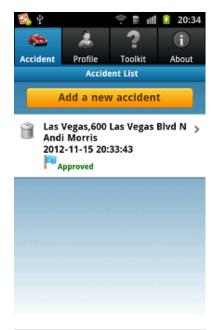
Aler	
	nsurance request has been ved by the admin
	ОК

- If the app is not running, the notification is displayed in the status bar
 - Click the notification to wake up the app





 The accident request status that is displayed on the "Accident List" page is now Approved





Agenda

- General information
- Running the Mysurance End-to-End sample for Android
- Running the Mysurance End-to-End sample for iOS



- See the following modules for how to build and deploy the Showcase:
 - Module 2 Setting Up Your Development Environment
 - Module 2.1 Setting Up Your iOS Development Environment



- Enable Push Notification
 - The Push Notification feature uses the Apple Push Notification service (APNs)
 - Perform the following steps to configure the Showcase to use APNs:
 - Configure App for APNs through the iOS Provisioning Portal:
 - 1. Create an App ID at the iOS Provisioning Portal
 - 2. Enable the App ID for APNs
 - 3. Generate an App ID-specific client Development Push SSL certificate
 - 4. Create an APNs-enabled provisioning profile for the App ID created in step 1
 - Export the APNs SSL Certificate:
 - 5. Download the certificate generated in step 3 onto your MAC
 - 6. Double-click the certificate (.cer file) to open it in Keychain
 - 7. Expand "My Certificates", and then expand your certificate
 - 8. Select the certificate and the private key, and export them as a Personal Information Exchange (.p12) file
 - The file name must be apns-certificate-sandbox.p12
 - 9. Specify a password to protect the certificate
 - 10. Save apns-certificate-sandbox.p12 into the /apps/mysurance folder of the Worklight project



Before you begin

- Configure Worklight Studio:
 - 11. Update the <ipad> and <iphone> sections in application-descriptor.xml to specify the password chosen in step 9
 - outputsering of the second second
 - 12. Update the bundleld attribute of the <ipad> and <iphone> elements in application-descriptor.xml to match the App ID created in step 1
- Verify project settings:
 - 13. Open the project in Xcode
 - 14. Ensure that the App Identifier matches the App ID created in step 1 and that the correct provisioning profiles are being used to build and sign the application



Known limitations

There are some known limitations in this Showcase. The following instructions describe how to implement workarounds to these limitations:

Screen rotation

- Apache Cordova disables screen rotation by default
- To enable free rotation, perform the following step:
 - Edit CDVMainViewController.m
 - Update method shouldAutorotateToInterfaceOrientation to always return YES in the generated native Xcode project

```
- (BOOL)shouldAutorotateToInterfaceOrientation:(UIInterfaceOrientation)interfaceOrientation
{
    // Return YES for supported orientations
    return (interfaceOrientation == YES);
}
```

Photo thumbnails

- The photo thumbnail does not display on the server in the Notifications feature due to a file path issue during the photo upload step
- This problem will be resolved in a future release



Known limitations

- Starting the application server
 - 'java.lang.NoClassDefFoundError' exception is thrown when the server is started
 - This exception does not affect the Showcase and can be ignored
- Please also check the product Release Notes for information about known defects



Explore the demos

- Load the Mysurance Showcase app
 - The Login screen is displayed
- Log in to the app
 - User name = demo
 - Password = demo
- Click Login
 - The main screen is displayed

No SIM 🧐	10:47	-
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	= = = = = = =	
	Powered by	
	WebSphere.	
	Technologies	
	username	ř
	password	
	password	
	Login	



Explore the demos

- A tab bar at the top of the screen separates the different demo features
- There are four features:
 - About
 - Toolkit
 - Profile
 - Accident
- Click the About tab to read a brief introduction about the app





- Click the Toolkit tab
- There are three features:
 - Application Settings
 - Find a Tow Truck
 - First Aid Instructions

No SIM 🛜	10:48		-
	Toolkit		
🔧 Applica	ition Settings		>
🚯 Find a	Tow Truck		>
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should first	e been in an a t move to a sa se an action a	afe location	
-	4		
Accident	Profile Tool	kit Abou	ut



- Click First Aid Instructions
- You are shown useful emergency and first aid information in case you are involved in an accident
- Ensure that the view is scrollable

No SIM 🛜	10:48	_
F	irst Aid Instructions	-
1. CALL		
Check the	victim for	
unresponsi	veness. If the person is	
not respons	sive and not breathing or	
not breathing normally, call 911 and		
	e victim. In most locations	
the emerge	ency dispatcher can assist	

2. PUMP

you with CPR instructions.

If the victim is still not breathing normally, coughing or moving, begin chest compressions. Push down in the center of the chest 2 inches 30





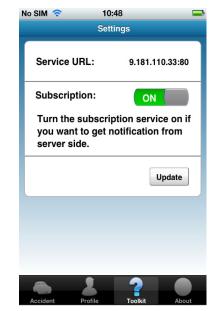
- Click Find a Tow Truck
- Check that Google Maps correctly identifies your current position* and displays nearby tow service suppliers



 * Assumes a working GPS or wireless-based location. By default, a map of Las Vegas is displayed if the current position cannot be established.



- Click Application Settings
- In the Service URL field, enter the correct URL in the format <host>:<port>
- Use the Subscription slider to turn on subscription and enable the notification feature
- Click Update
 - Message 'Server address set to <host>:<port>' is displayed
 - If the URL is not valid, message 'host not reachable' is displayed instead

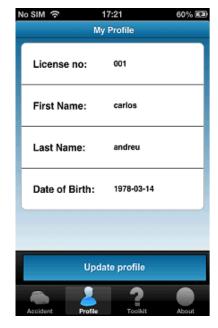




Explore the demos: Profile – online mode

- Click the Profile tab
 - The existing profile is automatically loaded from the IBM Worklight Server
- You can update the retrieved profile data
 - Edit any of the profile fields and then click
 Update profile
- The profile data is updated on the IBM Worklight Server immediately







Explore the demos: Profile – offline mode

- Switch off WiFi to take the app offline
 - An alert informs you that data will now be saved in a local database



- Edit any of the profile fields and then click Update profile
 - An alert informs you that the data was saved in the local database



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Settings	WLAN	
WLAN		
Choose a M	letwork	
СМСС		∻ ()
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Other		>
Ask to Joir	Networks	
Known	networks will b	e joined



Explore the demos: Profile – offline mode

- Switch WiFi back on to take the app online again
 - An alert informs you that an online connection has been detected



- Click OK to synchronize the local data with the IBM Worklight Server
 - An alert informs you that the profile data is now updated on the IBM Worklight Server

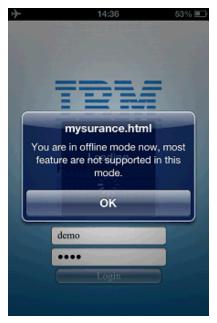


Settings WLAN	WLAN OFF	WLAN OFF Location accuracy is improved when
Location accuracy is improved when	Location accuracy is improved when	Location accuracy is improved when



Explore the demos: Profile – offline mode

- If WiFi is already switched off when you start the app, an alert informs you that the app is in offline mode
- Now follow the same steps as just described:
 - Edit any of the profile fields and then click
 Update profile
 - Switch WiFi back on to take the app online again
 - Click **OK** to synchronize the local data with the IBM Worklight Server





- Click the Accident tab
 - This feature shows all the steps that are required to build and send an accident request
- Click Add a new accident to begin the process





- Step 1: Record Accident Location
 - Enter the accident location details manually
 - Or obtain your current position* by clicking Retrieve Current Location
 - Click Next to proceed to Step 2

No SIM 奈	17:21	1 60% 🖘			
Step1: R	ecord Accident	Location			
Street:	600 Las	Vegas Bivd №			
City:	Las Veg	as			
State:	Nevad	a 🔽			
Zip:	89101				
Retriev	Retrieve Current Location				
Back		Next			
Accident	2 ?	t About			

 * Assumes a working GPS or wireless-based location. By default, a Las Vegas location is displayed if the current position cannot be established.



- Step 2: Record Driver Information
 - Enter driver information
 - Click Next to proceed to Step 3

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Step2:Recor	d Driver Information
<u> </u>	
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Last Name:	Enter last name
Back	Next
Accident Profile	Toolkit About



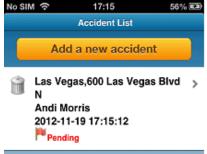
- Step 3: Take Accident Photo
 - Click a photo box to switch to your camera application
 - Take a photo
 - Control returns to the "Take Accident Photo" page and the photo image is displayed
 - Optionally repeat for further photos
 - Click Submit to submit the completed accident request to the IBM Worklight Server



N	oSIM 🗢 17	:21 60% 💷
	Step3: Take A	ccident Photo
P	lease take photos f	from a safe location.
	Crash Scene	Your Car
	Click to take picture	Click to take picture
	Other Car	License Plate
	Click to take	Click to take
	Back	Submit
	Accident Profile	7 About



 The submitted accident request is displayed on the "Accident List" page with status Pending









 If the Service URL is not configured, warning message 'Mysurance has not yet connected to a server' is displayed



 Click **Connect** to access the Toolkit "Application Settings" page and follow the instructions to enter the Service URL



- Server Notification
 - Go to the Mysurance server to send a notification after you submit the accident request
 - http://<host>:<port>/mysurance/accident.html
 - Subscription must already be turned on
 - Set the IBM Worklight Server address
 - Select one report from the User Request List
 - Click Approve

User Request List

Option	Id	User	Crash Scene	Customer's Car	Other Car	License Plate	Status
	2	demo					Pending
	WorkLight Server Address: https://worklight.server.address					Approve	



- Client Notification
 - If the app is running in the foreground, an alert informs you that the request is approved



- If the app is not running, the notification is displayed in the status bar
 - Click the notification to wake up the app





 The accident request status that is displayed on the "Accident List" page is now Approved







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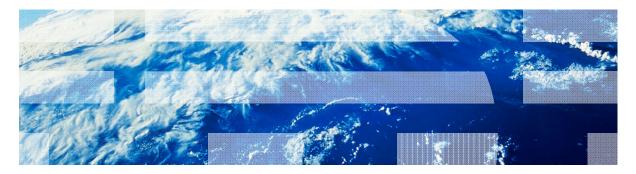
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