

Acumatica

Virtual DevCon

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Acumatica Mobile Framework

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Agenda

❑ **Mobile Framework Architecture**

- ❑ Behind the scenes
- ❑ Customization (MSDL)
- ❑ App Installation

❑ **Demo**

- ❑ Create a Generic Inquire (GI) screen
- ❑ Create Simple Dashboard
- ❑ Mobile Customization

❑ **Overview**

- ❑ Tips
- ❑ Questions

Acumatica Mobile Framework

Acumatica Mobile Framework

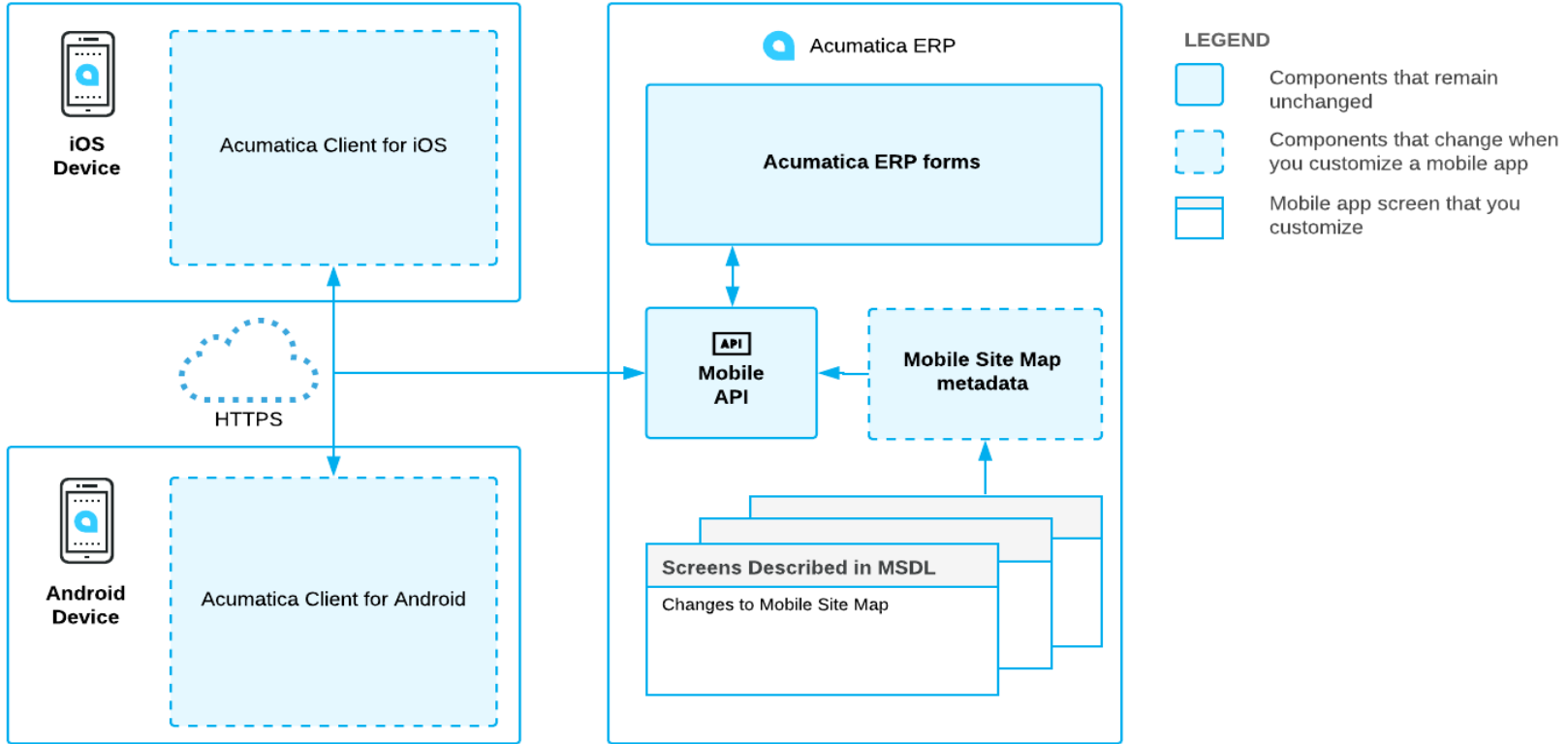
Key Features:

- Real-time access
- Mobile device integration
- Ease of Customization

Framework Components:

- The native mobile client application. (for iOS devices)
- The native mobile client application (for Android devices)
- The Mobile API

Behind the scenes



Acumatica Mobile Customization

- **User Interface Structure**

- Main Menu (Site Map)
- Sidebar Menu
- Screens

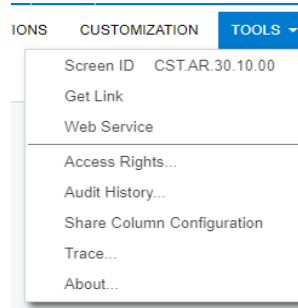
- **Mobile Site Map Definition Language (MSDL)**

- Instructions (Add, Remove, update, placeAt)
- Object Types (field, container, folder, screen)
- Constants (true, 'SomeString', 543)

Acumatica Mobile Customization

Getting the WSDL Schema:

- On the title bar of the form, click **Tools > Web Service**
- Click on **Service Description**



AR.30.10.00

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [Login](#)
Logs in to the system
- [Logout](#)
- [SetLocaleName](#)
Changes the interface language accepting the name, such as "en-US" or "fr-CA"
- [SetBusinessDate](#)
Changes the business date
- [SetSchemaMode](#)
Instructs the system to extend results with element descriptors in subsequent calls

WSDL Schema:

- Containers
- Fields
- Actions

```
<?xml version="1.0" encoding="utf-8" ?>
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:tns="http://Acumatica.com/AR.30.10.00" targetNamespace="http://Acumatica.com/AR.30.10.00">
  <wsdl:complexType base="tns:Base" name="Actions">
    <wsdl:sequence>
      <wsdl:element minOccurs="0" maxOccurs="1" name="CancelCloseToList" type="tns:Action"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="SaveCloseToList" type="tns:Action"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Save" type="tns:Action"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Cancel" type="tns:Action"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Insert" type="tns:Action"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Delete" type="tns:Action"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="CopyDocumentCopyPaste" type="tns:Action"/>
    </wsdl:sequence>
  </wsdl:complexType>
  ...
  <wsdl:complexType base="tns:Base" name="InvoiceSummary">
    <wsdl:sequence>
      <wsdl:element minOccurs="0" maxOccurs="1" name="DisplayName" type="tns:string"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Type" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="ReferenceNbr" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Status" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Hold" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Date" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="PostPeriod" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="CustomerOrder" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="CurryViewState" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Description" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Customer" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Location" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Currency" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="Terms" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="DueDate" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="RetainageInvoice" type="tns:Field"/>
      <wsdl:element minOccurs="0" maxOccurs="1" name="ApplyRetainage" type="tns:Field"/>
    </wsdl:sequence>
  </wsdl:complexType>

```

Acumatica Mobile Customization

MSDL Code (Instructions, Object Types, Constants)

- Create a new screen

```
1 add screen GI001002 {
2   add container "Result" {
3     add field "OrderNbr"
4     add field "SOrderOrderTotal"
5     add field "LocationName"
6     add field "CustomerName"
7     add field "Date"
8     add field "Status"
9   }
10 }
11 }
12
13
14
15
16
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27
28
29
30
31
32
33
```

- Creating a new Dashboard (Widgets supported: Chart, Data Table, Score Card, Trend Card)

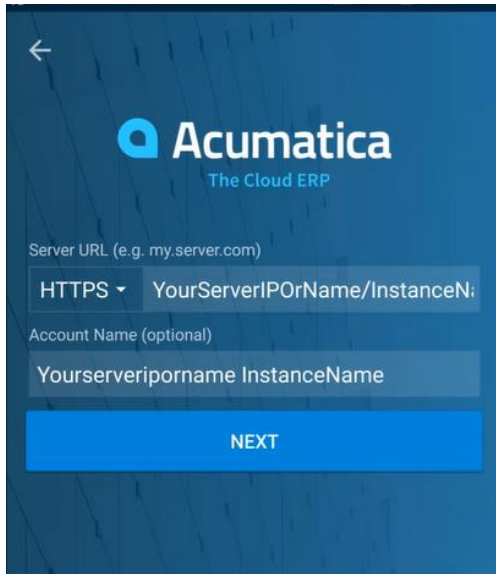
```
add screen DB000012 {
  type = Dashboard
}
```

- Updating Mobile Sitemap sample

```
update sitemap {
  add item "GI001002" {
    displayName = "My Sales Order GI"
    icon = "system://Box1"
  }
  add item "DB000012" {
    displayName = "Sales Operations"
    icon = "system://Graph1"
  }
}
```


Acumatica Mobile App Setup

- Download Acumatica mobile app from Apple Store or Google Play.
- Install and launch the app
- Enter the URL and optional name of your Acumatica site



←

Acumatica
The Cloud ERP

Server URL (e.g. my.server.com)

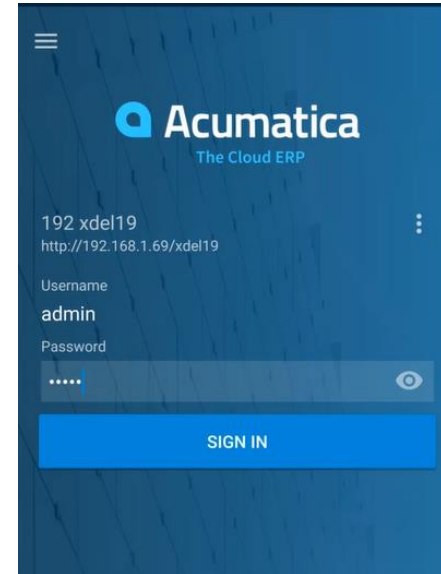
HTTPS ▾ YourServerIPOrName/InstanceN:

Account Name (optional)

Yourserveriporname InstanceName

NEXT

- Enter Credentials
- Sign In



☰

Acumatica
The Cloud ERP

192 xdel19
http://192.168.1.69/xdel19

Username
admin

Password
.....

SIGN IN

Mobile App Demo

Acumatica Mobile Framework

Overview:

- **Inspect the WSDL Schema**
- **Mobile Application Page**
- **Add & Update screens in Mobile App**
- **Expose Dashboard to Mobile App**
- **Make changes to Mobile Sitemap**
- **GI Navigation in Mobile**
 - Set Navigation on GI (web)
 - Map the “EditDetail” action (Mobile)
 - Destination Screen mapped (Mobile)

Tips:

- Build new (Large) screens by sections.
- Logout of the Mobile App to test latest changes.
- Names in WSDL schema usually match the label name
- When troubleshooting a screen error,
 - reduce it to a few fields only
 - reduce the screen graph to dataviews only
 - reduce DAC to main fields (remove non-essential attributes)

Developer Resources

- ❑ Free Mobile Developer Training (T400 & T410)
 - ❑ <https://www.acumatica.com/acumatica-developer-training/>

- ❑ Acumatica Help site:
 - ❑ <https://help.acumatica.com>
 - ❑ Select a version
 - ❑ Under “Developer” section
 - ❑ Select “Mobile Framework Guide”

Questions



Thank You

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