

Sample Code with steps on how to use the Aria-SFDC SDK from within Salesforce

Aria-SFDC SDK features:

1. The Aria-SFDC SDK is built on the Force.com platform leveraging the Salesforce Force.com platform
2. No need to to explicitly make callouts to Aria system. The callouts are encapsulated as Apex classes that can be used out of the box. This makes custom development/configuration on salesforce for intregrating with Aria system quicker, easy and faster.
3. No need to parse and read responses from callouts made to aria system. The response is encapsulated as Apex classes and methods. The user can quickly use the Apex class/methods of the SDK to read response in SFDC format
4. The methods in the SDK are named after the aria API methods making it easier to identify the SFDC method to be used to make a callout to a specific aria API method

Aria-SFDC SDK Methods/callouts for core Aria API Suite

1. The Apex class **AriaServiceGeneral.cls** contains the method calls of the Aria-SFDC SDK for the core Aria API Suite
2. To view the methods of the SDK open the class **AriaServiceGeneral.cls**. To open the class to view the SDK methods follow the steps below
 - Go To Setup | App Setup | Develop | Apex Classes
 - Click "Next Page" pagination link to search for class **AriaServiceGeneral**
 - Click on the class to open the class. All the methods of the SDK are listed in this class
3. The methods in the **AriaServiceGeneral** class follow the naming convention of the Aria API's, making it easier and simpler to match the SDK method corresponding to the core Aria API method.
4. The document "Aria-SFDC SDK Helper" lists the request response Apex structures to be used as input and return parameters to the SDK methods in the **AriaServiceGeneral** class

Prerequisite:

1. Aria Salesforce Connector must be installed and configured

Sample functionality used in this document on how to use the Aria-SFDC SDK to built a custom functionality in Salesforce:

- Description: Capability to view account hierarchy from a button on the account.
- Assumption: The Account in Aria exists in Salesforce and the Account in Aria has a Account Hierarchy

Steps to create this functionality

1. Create a new Apex class by clicking Setup -> App Setup -> Develop -> Apex Classes from the top right corner. This class will be used as the controller class for the Visual Force page that will display the account hierarchy

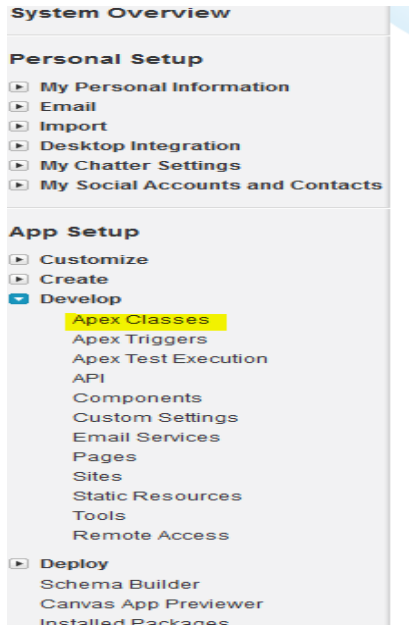


Fig - 1

2. Click on “New” button to create a new class and copy the code below to the body of the new class and then click “Save”

<Previous Page | Next Page>

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other | All

Action	Name ↑	Namespace Prefix	Api Version	Status	Size Without Comments	Last Modified By	Override Log Filters
Edit	AccountPaymentModeExtension	ASF	27.0	Active	29,358	Dileep Singhal, 1/5/2014 1:35 AM	<input type="checkbox"/>
Edit	AriaAccountBatchAndSchedulerTests	ASF	24.0	Active	6,394	Dileep Singhal, 1/5/2014 1:35 AM	<input type="checkbox"/>
Edit	AriaAccountHistoryAPIHelper	ASF	27.0	Active	14,385	Dileep Singhal, 1/5/2014 1:35 AM	<input type="checkbox"/>
Edit	AriaAccountHistoryExtn	ASF	29.0	Active	11,664	Dileep Singhal, 1/5/2014 1:35 AM	<input type="checkbox"/>
Edit	AriaAccountHistoryExtnTest	ASF	27.0	Active	2,218	Dileep Singhal, 1/5/2014 1:35 AM	<input type="checkbox"/>
Edit	AriaAccountPaymentHelper	ASF	24.0	Active	36,300	Dileep Singhal, 1/5/2014 1:35 AM	<input type="checkbox"/>

```
public class ViewAccountHierarchyController{
    // initialize public class variables
    public string acct_no { get; set; }
```

```

    public ASF.AriaRequestResponse.get_acct_hierarchy_details_response
aria_acct_history {get; set;}

    public list<account_hierarchy> accounts { get; set; }

    map<string,account_hierarchy> accountmap = new
map<string,account_hierarchy>();

    map<string,list<string>> parentChildMap = new map<string,list<string>>();

    string root_account = '';

    // Constructor

    public ViewAccountHierarchyController(ApexPages.StandardController
controller) {

        string accId = controller.getId();

        if(accId == null){

            return;

        }

        list<Account> accs = [select ASF__Aria_Id__c,Name from Account WHERE
Id =:accId limit 1];

        acct_no = accs[0].ASF__Aria_Id__c;

        if(acct_no == null){

            // No Aria Id found on the account then return a message on page

            ApexPages.addMessage(new
ApexPages.Message(ApexPages.Severity.ERROR, 'No aria id found on Account.));

            return ;

        }

        get_account_hierarchy(acct_no);

    }

    //Instantiate the SDK request object and get the response in the SDK
response object

    private void get_account_hierarchy(string acct_no){

```

```

        //Instantiate request object & assign request parameter

        ASF.AriaRequestResponse.get_acct_hierarchy_details_Request req = new
ASF.AriaRequestResponse.get_acct_hierarchy_details_Request();

        req.client_no = '';

        req.auth_key = '';

        req.remote_site_url = '';

        req.acct_no = acct_no;

        req.hierarchy_filter = '0';

        req.include_current_acct = '1';

        aria_acct_history = new
ASF.AriaRequestResponse.get_acct_hierarchy_details_response ();

        //get response

        aria_acct_history =
ASF.AriaServiceGeneral.get_acct_hierarchy_details(req);

        //prepare the response for display

        prepareHierarchy();

    }

    //method to prepare account hierarchy from response from Aria

    //put the response in a map as a map of accounts

    private void prepareHierarchy(){

        if(aria_acct_history.error_code != 0){

            // if response returned error then display an error message on page

            ApexPages.addMessage(new
ApexPages.Message(ApexPages.Severity.ERROR,aria_acct_history.error_msg));

            return;

        }

        accounts = new list<account_hierarchy>();

        account_hierarchy rel_acct;

```

```

        //senior_acct_no

        for (ASF.AriaRequestResponse.acct_hierarchy_detail
acc_detail:aria_acct_history.acct_hierarchy_details) {

            rel_acct = new account_hierarchy();

            rel_acct.acct_no = ''+acc_detail.acct_no;

            rel_acct.balance = acc_detail.balance;

            rel_acct.status = ''+acc_detail.status_cd;

            rel_acct.senior_acct_no = acc_detail.senior_acct_no;

            rel_acct.acct_name = acc_detail.company_name;

            if (rel_acct.senior_acct_no == '' || rel_acct.senior_acct_no ==
null) {

                root_account = rel_acct.acct_no;

            }else{

                // get parent account and add some value to it

                if (parentChildMap.containsKey(rel_acct.senior_acct_no)) {

parentChildMap.get(rel_acct.senior_acct_no).add(rel_acct.acct_no);

                    }

                    else{

                        parentChildMap.put(rel_acct.senior_acct_no, new
list<string>{rel_acct.acct_no});

                    }

                }

                accountmap.put(rel_acct.acct_no, rel_acct);

            }

            //set the order of account to have on page in parent-child hierarchy
setposition(root_account);

        }

```

```

// for display account in proper formatting for this adding some style
here

private void setposition(string acct_no){

    account_hierarchy leaf_acct = accountmap.get(acct_no);

    if(root_account == leaf_acct.acct_no){

        leaf_acct.pad_left = 0;

    }

    else{

        leaf_acct.pad_left =
accountmap.get(leaf_acct.senior_acct_no).pad_left + 5;

    }

    accounts.add(leaf_acct);

    if(parentChildMap.get(acct_no)!=null){

        for(string child:parentChildMap.get(acct_no)){

            setposition(child);

        }

    }

}

//return the map of accounts to the visual force page

public Pagereference get_Hierarchy(){

    accounts = new list<account_hierarchy> ();

    accountmap = new map<string,account_hierarchy>();

    parentChildMap = new map<string,list<string>>();

    if(acct_no == null || acct_no == ''){

        ApexPages.addMessage(new
ApexPages.Message(ApexPages.Severity.ERROR,'Please provide valid Aria id to
get Result.');
```

return null;

```

    }
}

```

```
    get_account_hierarchy(acct_no);

    return null;
}

//wrapper class to hold the data to be displayed or bind to the visual
force page

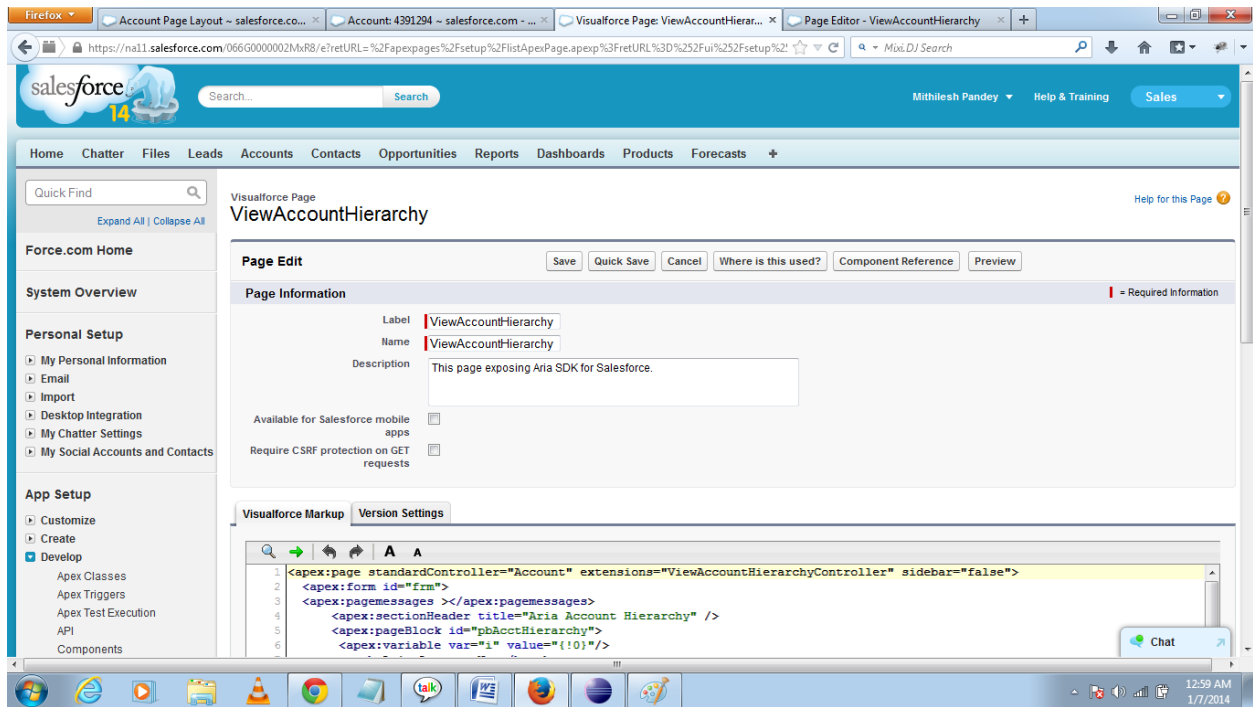
public class account_hierarchy{

    public string acct_no          { get; set; }
    public string acct_name        { get; set; }
    public string balance          { get; set; }
    public string status           { get; set; }
    public string senior_acct_no   { get; set; }
    public integer pad_left        { get; set; }

}

}
```

3. To create a Visual Force page click Setup ->App Setup -> Develop -> Pages



4. Click on "New" button to create a new Visual Force Page

Enter the Visual Force Label and Name as "ViewAccountHierarchy"

5. Copy the code below into the Visual Force Markup Section and click "Save"

```
<apex:page standardController="Account" extensions="ViewAccountHierarchyController"
sidebar="false" showHeader="false" tabStyle="Account">
```

```
<apex:form id="frm">
```

```
<apex:pagemessages ></apex:pagemessages>
```

```
<apex:sectionHeader title="Aria Account Hierarchy" />
```

```
<apex:pageBlock id="pbAcctHierarchy">
```

```
<apex:variable var="rowind" value="{!1}"/>
```

```
<b>Aria Account No.</b>&nbsp;
```

```
<apex:inputText value="{!acct_no}"/>
```

```
<apex:commandButton value="Get Hierarchy" action="{!get_Hierarchy}" reRender="frm"
status="status" />
```

```
<apex:actionStatus startStyle="color:red;font-weight:600;" startText=" Processing..."
```

```
id="status"/>
```



```

<apex:pageBlockSection columns="1">
  <apex:pageBlockSectionItem >

    <apex:pageBlockTable value="{!accounts}" var="a">

      <apex:column width="5%" headerValue="#" >{!rowind}
        <apex:variable var="rowind" value="{!rowind+1}"/>
      </apex:column>

      <apex:column width="40%" >
        <apex:facet name="header">Account No.</apex:facet>

        <apex:outputLabel style="float:left;padding-left:{!a.pad_left}%"><apex:image
rendered="{!IF(rowind==2,false,true)}" id="theImage"
value="https://cdn1.iconfinder.com/data/icons/fugue/icon/arrow-turn-000-left.png" width="16"
height="16"/>{!a.acct_no}</apex:outputLabel>

      </apex:column>

      <apex:column >
        <apex:facet name="header">Account Name</apex:facet>

        {!a.acct_name}
      </apex:column>

      <apex:column >
        <apex:facet name="header"><apex:outputLabel style="text-
align:center;">Balance</apex:outputLabel></apex:facet>

        <apex:outputLabel style="text-align:center;">{!a.balance}</apex:outputLabel>
      </apex:column>

      <apex:column >
        <apex:facet name="header">Status Code</apex:facet>

```

```
        {!a.status}
    </apex:column>

    <apex:column >
        <apex:facet name="header">Senior Account No.</apex:facet>
        {!a.senior_acct_no}
    </apex:column>

</apex:pageBlockTable>

</apex:pageBlockSectionItem>
</apex:pageBlockSection>
</apex:pageBlock>

</apex:form>
</apex:page>
```

- 6. To create a custom button on the account click Setup ->Customize ->Account->buttons, link and actions**

Desktop Integration
My Chatter Settings
My Social Accounts and Contacts

App Setup

- Customize
 - Tab Names and Labels
 - Home
 - Activities
 - Campaigns
 - Leads
 - Accounts
 - Fields
 - Related Lookup Filters
 - Validation Rules
 - Triggers
 - Partner Roles
 - Contact Roles
 - Page Layouts
 - Field Sets
 - Compact Layouts **New!**
 - Search Layouts
 - Buttons, Links, and Actions**
 - Record Types
 - Limits
 - Account Teams
 - Settings **New!**
 - Contacts
 - Opportunities
 - Quotes

Use this page to manage buttons, links, and actions.

Buttons, Links, and Actions New Action New Button or Link Default Custom Links Buttons, Links, and Actions Help

Action	Label	Name	Description	Type	Content Source	Icon	Overridden
Edit	Accounts Tab	Tab			Standard Salesforce.com Page		<input type="checkbox"/>
Edit Del	Altavista News	AltavistaNews		Detail Page Link	URL		<input type="checkbox"/>
Edit	Aria Account History	Aria_Account_History	A popup page will appear & display account history.	Detail Page Button	Visualforce Page		<input type="checkbox"/>
Edit	Aria Account URL	Aria_Account_URL	Show Aria account information	Detail Page Link	Visualforce Page		<input type="checkbox"/>
Edit	Aria Comments	Aria_Comments		Detail Page Button	Visualforce Page		<input type="checkbox"/>
Edit	Aria Statements	Aria_Statements		Detail Page Button	Visualforce Page		<input type="checkbox"/>
Edit	Aria Transactions	Aria_Transactions		Detail Page Button	Visualforce Page		<input type="checkbox"/>
Edit	Create/Modify Plan	Modify_Master_Plan		Detail Page Button	URL		<input type="checkbox"/>
Edit	Delete	Delete			Standard Salesforce.com Page		<input type="checkbox"/>
Edit	Edit	Edit			Standard Salesforce.com Page		<input type="checkbox"/>
Edit Del	Google Maps	GoogleMaps		Detail Page Link	URL		<input type="checkbox"/>
Edit Del	Google News	GoogleNews		Detail Page Link	URL		<input type="checkbox"/>
Edit Del	Google Search	GoogleSearch		Detail Page Link	URL		<input type="checkbox"/>
Edit Del	Hoovers Profile	HooversProfile		Detail Page Link	URL		<input type="checkbox"/>
Edit	List	List			Standard Salesforce.com Page		<input type="checkbox"/>
Edit	New	New			Standard Salesforce.com Page		<input type="checkbox"/>
Edit	Payments and Credits	Payments_and_Credits		Detail Page Button	Visualforce Page		<input type="checkbox"/>
Edit	Refresh from Aria	Refresh_from_Aria		Detail Page Button	OnClick JavaScript		<input type="checkbox"/>
Edit	Refresh Plans from Aria	Refresh_Plans_from_Aria		Detail Page Button	OnClick JavaScript		<input type="checkbox"/>

7. Click on the button “New Button or Link” to create a new custom button

- Enter “Aria Account Hierarchy” as the label for the button and “Aria_Account_Hierarchy” as the Name for the button. This name will be referenced as the SFDC API name of the button
- Select “VisualForce Page” from the “Content Source” drop down
- Select “ViewAccountHierarchy” visualforce page from the “Content” dropdown

Account Custom Button or Link New Button or Link Help for this Page

Custom Button or Link Edit Save Quick Save Preview Cancel

Label:

Name:

Description:

Display Type:

- Detail Page Link [View example](#)
- Detail Page Button [View example](#)
- List Button [View example](#)

Behavior: [View Behavior Options](#)

Content Source:

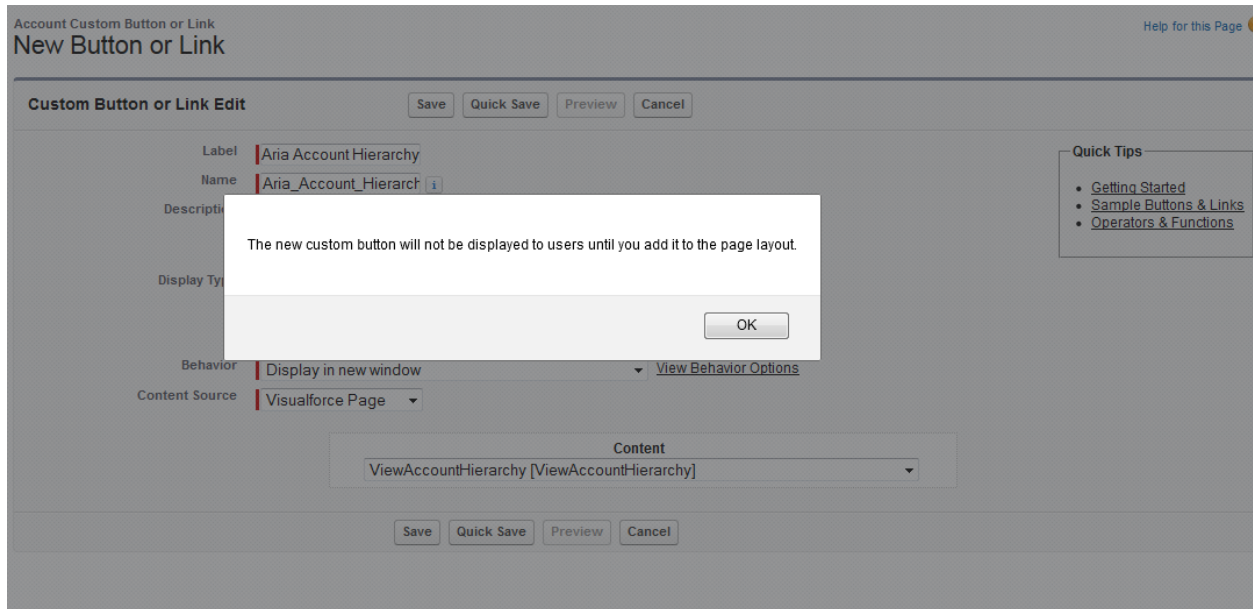
Content:

Save Quick Save Preview Cancel

Quick Tips

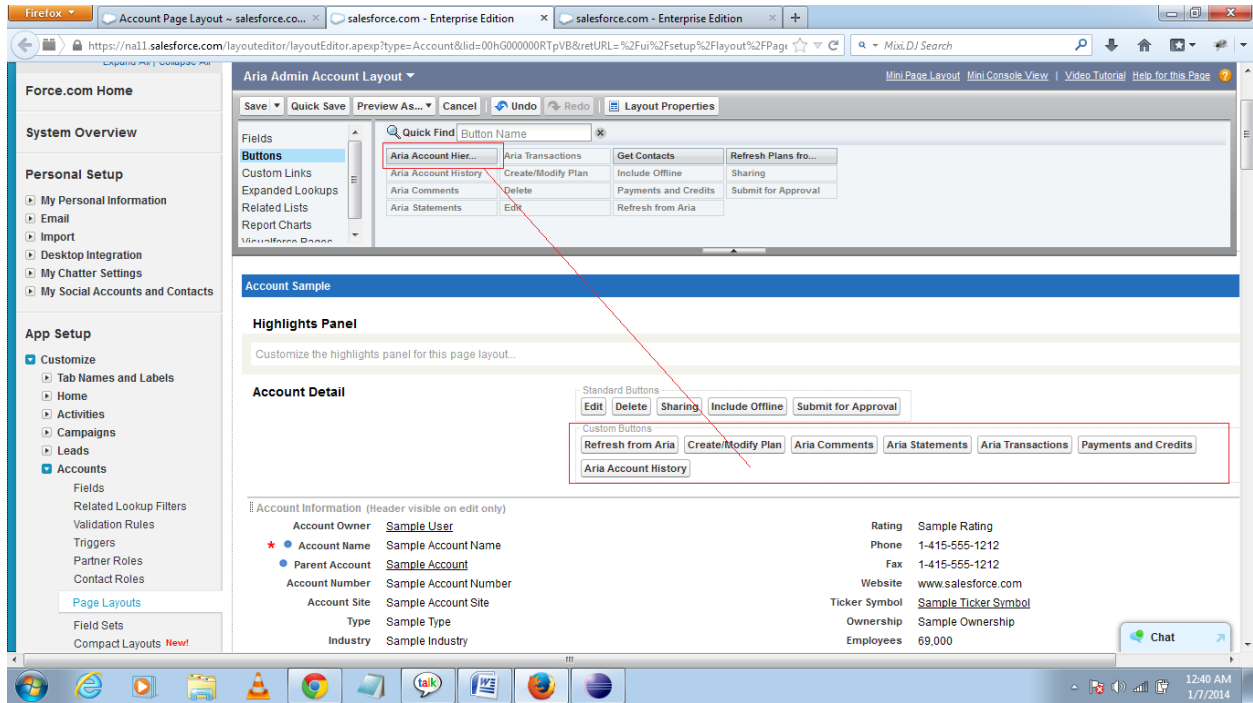
- [Getting Started](#)
- [Sample Buttons & Links](#)
- [Operators & Functions](#)

8. Click “Save” and then click “OK” if a pop up appears



9. Add the custom button created above to the account page layout

- Go to Setup->customize->account->page layout
- Edit “Aria admin account” layout and “Aria standard account” layout. These layouts are installed as part of the connector install. You can choose to add this custom button on any of your existing or new page layouts.
- Click on the “Buttons” link on the top section , left corner.
- Drag the button to custom button area as shown in below figure
- Click “Save”



10. View the account hierarchy from the account page layout

- Go to an account that also exists in Aria. An account in salesforce that also exists in Aria will always have the aria account number stamped on the "Aria Id" field of the account in salesforce
- Click on "Aria Account Hierarchy" button to see the account hierarchy view/screen as below

Firefox | Account Page Layout - salesforce.co... | Account: 4391294 - salesforce.com - ... | Visualforce Page: ViewAccountHierar... | Page Editor - ViewAccountHierarchy

Page Editor - ViewAccountHierarchy - Mozilla Firefox

https://c.na11.visual.force.com/apex/ViewAccountHierarchy?controlCaching=1&id=001G000001BgZLQ

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Home Chatter Files Leads Accounts Contacts Opportunities Reports Dashboards Products Forecasts

Aria Account Hierarchy

Aria Account No. Get Hierarchy

Account No.	Account Name	Balance	Status Code	Senior Account No.
4391294		3602.5	-99	
3685079		1230	-99	4391294
5242965	ABC 447	1485	-99	3685079
13940896	Test Acct SFDCDEV31_1	815.5	1	4391294
14038641	Test Acct QA160_1	150	-99	13940896

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Aria Currency Aria Discount Total 0.00 Disable Development Mode

1:07 AM 1/7/2014