

Yellowfin
YellowfinYellowfinWeb
WebWeb

Yellowfin

LoginId	String	Yellowfin WebIDIDID Yellowfin Yellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	Web ADDUSER
Person	AdministrationPerson	
OrgRef	String	ID

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	Yellowfin
FirstName	String	
LastName	String	
RoleCode	String	YFREPORTCONSUMER YellowfinSQLSELECT * FROM OrgRole
EmailAddress	String	

SOAP XML

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>ADDUSER</function>
        <person>
          <userId>binish.sheikh@yellowfin.com.au</userId>
          <emailAddress>binish.sheikh@yellowfin.com.au</emailAddress>
          <password>admin</password>
          <firstName>Binish</firstName>
          <lastName>Sheikh</lastName>
          <roleCode>YFREPORTCONSUMER</roleCode>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>

```

StatusCode	String	Web
		<ul style="list-style-type: none"> • SUCCESS • FAILURE

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Creating New User via Webservices...</messages>
        <messages>Creating SessionBean for webservices user...</messages>
        <messages>Looking up user...</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>8090cb7879f7d5e72eab9625772c00b5</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

- YellowfinWeb

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("ADDUSER");
```

-

```
rsr.setOrgRef("org1");           // A new user will be added to the client org with "org1" as an organization
reference ID
```

orgRef

- ADDUSERYellowfinAdministrationPerson

```
AdministrationPerson ap = new AdministrationPerson();
```

- UserIdFirstNameLastNameRoleCodePasswordEmailAddress

```
ap.setUserId("john.smith@yellowfin.com.au");           // if Yellowfin authentication option is set to "email
address"
ap.setFirstName("John");
ap.setLastName("Smith");
ap.setRoleCode("YFREPORCONSUMER");                    // Yellowfin role codes can be found performing this
query against                                         // Yellowfin configuration database: SELECT * FROM
OrgRole

ap.setPassword("test");                                // Password must comply with your Yellowfin
password policy
ap.setEmailAddress("john.smith@yellowfin.com.au");
```

AdministrationPerson

- ap

```
rsr.setPerson(ap);
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

web

- StatusCode

ADDUSER

1. **ws_adduser.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_adduser.jsp**

```
<%
/*          ws_adduser.jsp          */
%>

<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web service admin account
rsr.setPassword("test");          // change this to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("ADDUSER");

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");          // If Yellowfin authentication option is set to "email
address"
ap.setFirstName("John");
ap.setLastName("Smith");
ap.setRoleCode("YFREPORCONSUMER");          // Yellowfin role codes can be found performing this query
against          // Yellowfin configuration database: SELECT * FROM OrgRole

ap.setPassword("test");          // Password must comply with your Yellowfin password policy
ap.setEmailAddress("john.smith@yellowfin.com.au");
rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if
("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("Success");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode());
}
%>
```

ADDUSERAdministrationPerson

LoginId	String	Yellowfin WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebADDUSERS
Person	AdministrationPerson []	
OrgRef	String	ID

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	Yellowfin
FirstName	String	
LastName	String	
RoleCode	String	YFREPORTCONSUMER YellowfinSQLSELECT * FROM OrgRole
EmailAddress	String	

StatusCode	String	Web <ul style="list-style-type: none">SUCCESSFAILURE

Java

- YellowfinWeb

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("ADDUSERS");
```

-

```
rsr.setOrgRef("org1");
```

orgRef

- YellowfinAdministrationPerson

```
AdministrationPerson[] ap = new AdministrationPerson[2];
```

- UserIdFirstNameLastNameRoleCodePasswordEmailAddress

```
ap[0] = new AdministrationPerson();
ap[0].setUserId("user1@yellowfin.com.au");
ap[0].setFirstName("user1");
ap[0].setLastName("Lastname1");
ap[0].setRoleCode("YFREPORCONSUMER");
ap[0].setPassword("test");
ap[0].setEmailAddress("user1@yellowfin.com.au");
```

AdministrationPerson

-

```
ap[1] = new AdministrationPerson();
ap[1].setUserId("user2@yellowfin.com.au");
ap[1].setFirstName("user2");
ap[1].setLastName("Lastname2");
ap[1].setRoleCode("YFREPORCONSUMER");
ap[1].setPassword("test");
ap[1].setEmailAddress("user2@yellowfin.com.au");
```

- **ap**

```
rsr.setPeople(ap);
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

web

- StatusCode

ADDUSERSuser1@yellowfin.com.auuser2@yellowfin.com.au2

1. **ws_addusers.jsp**
2. rootYellowfin/appserver/webapps/ROOT

- 3.
4. `http://<host>:<port>/ws_addusers.jsp`

```
<%
/*          ws_addusers.jsp          */
%>

<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>

<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("ADDUSERS");

AdministrationPerson[] ap = new AdministrationPerson[2];

ap[0] = new AdministrationPerson();
ap[0].setUserId("user1@yellowfin.com.au");
ap[0].setFirstName("user1");
ap[0].setLastName("Lastname1");
ap[0].setRoleCode("YFREPORTCONSUMER");
ap[0].setPassword("test");
ap[0].setEmailAddress("user1@yellowfin.com.au");

ap[1] = new AdministrationPerson();
ap[1].setUserId("user2@yellowfin.com.au");
ap[1].setFirstName("user2");
ap[1].setLastName("Lastname2");
ap[1].setRoleCode("YFREPORTCONSUMER");
ap[1].setPassword("test");
ap[1].setEmailAddress("user2@yellowfin.com.au");

rsr.setPeople(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if
("SUCCESS".equals(rs.getStatusCode() ) ) {
    out.write("Success");
} else {
    out.write("Failure");
}
out.write("Code: " + rs.getErrorCode() );
}
%>
```

ADDUSERSIDAdministrationPerson

--	--	--

LoginId	String	Yellowfin WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebADDUSERSIGNREDUPLICATES
Person	AdministrationPerson []	
OrgRef	String	ID

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	Yellowfin
FirstName	String	
LastName	String	
RoleCode	String	YFREPORTCONSUMER YellowfinSQLSELECT * FROM OrgRole
EmailAddress	String	

StatusCode	String	Web <ul style="list-style-type: none"> SUCCESS FAILURE
People	AdministrationPerson []	

Java

- YellowfinWeb

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("ADDUSERSIGNOREDUPLICATES");
```

-

```
rsr.setOrgRef("org1");
```


orgRef

- YellowfinAdministrationPerson

```
AdministrationPerson[] ap = new AdministrationPerson[2];
```

- UserIdFirstNameLastNameRoleCodePasswordEmailAddress

```
ap[0] = new AdministrationPerson();
ap[0].setUserId("user1@yellowfin.com.au");
ap[0].setFirstName("user1");
ap[0].setLastName("Lastname1");
ap[0].setRoleCode("YFREPORTCONSUMER");
ap[0].setPassword("test");
ap[0].setEmailAddress("user1@yellowfin.com.au");
```

AdministrationPerson

-

```
ap[1] = new AdministrationPerson();
ap[1].setUserId("user2@yellowfin.com.au");
ap[1].setFirstName("user2");
ap[1].setLastName("Lastname2");
ap[1].setRoleCode("YFREPORTCONSUMER");
ap[1].setPassword("test");
ap[1].setEmailAddress("user2@yellowfin.com.au");
```

- **ap**

```
rsr.setPeople(ap);
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

web

- StatusCodePeople

-

```
AdministrationPerson[] failed_users = rs.getPeople();
```

LoginId	String	Yellowfin WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebDELETEUSERDELUSER
Person	AdministrationPerson[]	
OrgRef	String	ID

AdministrationPerson

AdministrationPerson		
UserId	String	IDYellowfin IDID

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>DELETEUSER</function>
        <person>
          <userId>binish.sheikh@yellowfin.com.au</userId>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none"> SUCCESS FAILURE

SOAP

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>cc8c2b81d06485fdd20fe4cd24f5f70c</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("DELETEUSER");
```

- AdministrationPersonIDIDIDID

```
AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("test@yellowfin.com.au"); // test@yellowfin.com.au should be an existing
Yellowfin user.
rsr.setPerson(ap);
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

DELETEUSER

1. **ws_deleteuser.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_deleteuser.jsp**

```

<%
/*          ws_deleteuser.jsp          */
%>

<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>

<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("DELETEUSER");

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("test@yellowfin.com.au");
rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ( "SUCCESS".equals(rs.getStatusCode() ) ) {
    out.write("Success");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

WebAdministrationPersonUser IDAdministrationPersonNULL

YellowfinAdministrationPersonAdministrationPerson

LoginId	String	WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebGETUSER
Person	AdministrationPerson	
OrgRef	String	ID

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>GETUSER</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none">SUCCESSFAILURE
Person	AdministrationPerson	

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Getting user information...</messages>
        <messages>Getting user information...</messages>
        <messages>Web Service Request Complete</messages>
        <person>
          <emailAddress>admin@yellowfin.com.au</emailAddress>
          <firstName>System</firstName>
          <initial/>
          <ipId>5</ipId>
          <languageCode>EN</languageCode>
          <lastName>Administrator</lastName>
          <roleCode>YFADMIN</roleCode>
          <salutationCode/>
          <status>ACTIVE</status>
          <timeZoneCode>AUSTRALIA/SYDNEY</timeZoneCode>
          <userId>admin@yellowfin.com.au</userId>
        </person>
        <sessionId>70dc3c7158a340e19b590f0ed6ea6a8b</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

- Web

```

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("GETUSER");

```

- AdministrationPersonID

```

AdministrationPerson ap = new AdministrationPerson();
ap.setUserId("john.smith@yellowfin.com.au");
rsr.setPerson(ap);

```

-

```

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

```

Web

- StatusCodePerson

•

```
if ( "SUCCESS".equals(rs.getStatusCode()) ) {
    ap = rs.getPerson();
    out.write("UserId:" + ap.getUserId() + "<br>");
    out.write("Password:" + ap.getPassword() + "<br>");
    out.write("FirstName:" + ap.getFirstName() + "<br>");
    out.write("LastName:" + ap.getLastName() + "<br>");
    out.write("Initial:" + ap.getInitial() + "<br>");
    out.write("SalutationCode:" + ap.getSalutationCode() + "<br>");
    out.write("RoleCode:" + ap.getRoleCode() + "<br>");
    out.write("EmailAddress:" + ap.getEmailAddress() + "<br>");
    out.write("LanguageCode:" + ap.getLanguageCode() + "<br>");
    out.write("IpId:" + ap.getIpId() + "<br>");
    out.write("TimeZoneCode:" + ap.getTimeZoneCode() + "<br>");
    out.write("Status:" + ap.getStatus() + "<br>");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode());
}
```

GETUSER

1. **ws_getuser.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_getuser.jsp**

```

<%
/*          ws_getuser.jsp          */
%>

<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("GETUSER");

AdministrationPerson ap = new AdministrationPerson();
ap.setUserId("john.smith@yellowfin.com.au");
rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    ap = rs.getPerson();
    out.write("User Id:" + ap.getUserId() + "<br>");
    out.write("Password:" + ap.getPassword() + "<br>");
    out.write("First Name:" + ap.getFirstName() + "<br>");
    out.write("Last Name:" + ap.getLastName() + "<br>");
    out.write("Initial:" + ap.getInitial() + "<br>");
    out.write("Salutation Code:" + ap.getSalutationCode() + "<br>");
    out.write("Role Code:" + ap.getRoleCode() + "<br>");
    out.write("Email Address:" + ap.getEmailAddress() + "<br>");
    out.write("Language Code:" + ap.getLanguageCode() + "<br>");
    out.write("IpId:" + ap.getIpId() + "<br>");
    out.write("Time Zone Code:" + ap.getTimeZoneCode() + "<br>");
    out.write("Status:" + ap.getStatus() + "<br>");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

AdministrationPersonsetParameters()**NULL**

LoginId	String	WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebGETUSER
OrgRef	String	ID

Client	AdministrationClientOrg	
--------	-------------------------	--

AdministrationClientOrg		
ClientReferenceID	String	ID

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>GETALLUSERS</function>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none">• SUCCESS• FAILURE
People	AdministrationPerson	

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <people>
          <firstName>System</firstName>
          <ipId>5</ipId>
          <lastName>Administrator</lastName>
          <userId>admin@yellowfin.com.au</userId>
        </people>
        <sessionId>2c32528279baa26b730f9e3c8787880d</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

-

```

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

```

-

```

AdministrationClientOrg client = new AdministrationClientOrg();
client.setClientReferenceId("org1");
rsr.setClient(client);

```

-

```

rsr.setFunction("GETALLUSERS");

```

- GETALLUSERS2searchingCriteria[0]%John%Yellowfin@seachingCriteria[1]Yellowfin

```

String[] searchingCriteria = new String[] { "John", "yellowfin.com.au" };
rsr.setParameters(searchingCriteria);

```

-

```

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

```

Web

- StatusCodePeople

GETALLUSERS

1. **ws_getallusers.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_getallusers.jsp**

```
<%
/* ws_getallusers.jsp */
%>

<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false); // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

AdministrationClientOrg client = new AdministrationClientOrg();
client.setClientReferenceId("org1");
rsr.setClient(client);

rsr.setFunction("GETALLUSERS");

String[] searchingCriteria = new String[] {"John","yellowfin.com.au"};
rsr.setParameters(searchingCriteria);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
out.write("Success. " + rs.getPeople().length + " people found.");
} else {
out.write("Failure");
out.write(" Code: " + rs.getErrorCode() );
}
%>
```

IPIDYYellowfin**Person**IdAdministrationPersonAdministrationPerson

LoginId	String	WebIDIDID Yellowfin Yellowfin Web
Password	String	
OrgId	Integer	YellowfinID1

Function	String	Web GETUSERBYIP
Person	AdministrationPerson	

AdministrationPerson

AdministrationPerson		
IpId	Integer	IP ID

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>GETUSERBYIP</function>
        <person>
          <ipId>5</ipId>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none"> • SUCCESS • FAILURE
Person	AdministrationPerson	

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Getting user information...</messages>
        <messages>Getting user information...</messages>
        <messages>Web Service Request Complete</messages>
        <person>
          <emailAddress>admin@yellowfin.com.au</emailAddress>
          <firstName>System</firstName>
          <initial/>
          <ipId>5</ipId>
          <languageCode>EN</languageCode>
          <lastName>Administrator</lastName>
          <roleCode>YFADMIN</roleCode>
          <salutationCode/>
          <status>ACTIVE</status>
          <timeZoneCode>AUSTRALIA/SYDNEY</timeZoneCode>
          <userId>admin@yellowfin.com.au</userId>
        </person>
        <sessionId>81e76f1222d0dd12d9871efc7cbf0811</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

- Web

```

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("GETUSERBYIP");

```

- IpIdAdministrationPerson

```

AdministrationPerson ap = new AdministrationPerson();

ap.setIpId(5); //IpId of the admin@yellowfin.com.au account
rsr.setPerson(ap);

```

-

```

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

```

Web

- StatusCodePerson

•

```
if ( "SUCCESS".equals(rs.getStatusCode()) ) {
    ap = rs.getPerson();
    out.write("UserId: " + ap.getUserId() + "<br>");
    out.write("Password: " + ap.getPassword() + "<br>");
    out.write("FirstName: " + ap.getFirstName() + "<br>");
    out.write("LastName: " + ap.getLastName() + "<br>");
    out.write("Initial: " + ap.getInitial() + "<br>");
    out.write("SalutationCode: " + ap.getSalutationCode() + "<br>");
    out.write("RoleCode: " + ap.getRoleCode() + "<br>");
    out.write("EmailAddress: " + ap.getEmailAddress() + "<br>");
    out.write("LanguageCode: " + ap.getLanguageCode() + "<br>");
    out.write("IpId: " + ap.getIpId() + "<br>");
    out.write("TimeZoneCode: " + ap.getTimeZoneCode() + "<br>");
    out.write("Status: " + ap.getStatus() + "<br>");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode());
}
```

GETUSERBYIP

1. **ws_getuserbyip.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_getuserbyip.jsp**

```

<%
/*          ws_getuserbyip.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("GETUSERBYIP");

AdministrationPerson ap = new AdministrationPerson();

ap.setIpId(5);
rsr.setPerson(ap);
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    ap = rs.getPerson();
    out.write("User Id: " + ap.getUserId() + "<br>");
    out.write("Password: " + ap.getPassword() + "<br>");
    out.write("First Name: " + ap.getFirstName() + "<br>");
    out.write("Last Name: " + ap.getLastName() + "<br>");
    out.write("Initial: " + ap.getInitial() + "<br>");
    out.write("Salutation Code: " + ap.getSalutationCode() + "<br>");
    out.write("Role Code: " + ap.getRoleCode() + "<br>");
    out.write("Email Address: " + ap.getEmailAddress() + "<br>");
    out.write("Language Code: " + ap.getLanguageCode() + "<br>");
    out.write("IpId: " + ap.getIpId() + "<br>");
    out.write("Time Zone Code: " + ap.getTimeZoneCode() + "<br>");
    out.write("Status: " + ap.getStatus() + "<br>");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

WebYellowfinIDIP ID

LoginId	String	Yellowfin WebIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebGETAVATARS
Parameters	String[]	YellowfinIDIpIdIDIntegerString

SOAP XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>GETAVATARS</function>
        <parameters>5</parameters>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none">• SUCCESS• FAILURE
binaryAttachments	ReportBinaryObject[]	

SOAP

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <binaryAttachments>
          <data>iVBORw0KGgoAAAANSUHEUgAAA ... your image string</data>
        </binaryAttachments>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>5547ebe153fd0fc7fcf63014ffe61b5c</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web


```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("GETAVATARS");
```

- IP ID

```
rsr.setParameters(new String[] { "5", "13073" });
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCodeBinaryAttachment

-

```
byte[] data = response.getBinaryAttachments[0].getData();
```

Web

1. **ws_getavatar.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_getavatar.jsp**

```

<%
/*          ws_getavatars.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<html>
<body>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number
AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // set to the password of the above account
rsr.setOrgId(1);

rsr.setFunction("GETAVATARS");
rsr.setParameters(new String[] {"5","13073"});
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    ReportBinaryObject[] objects = rs.getBinaryAttachments();
    if (objects != null) {
        byte[] data,encodeBase64;
        String base64Encoded;

        for(ReportBinaryObject o: objects){
            data = o.getData();
            if (data != null){

                encodeBase64 = java.util.Base64.getEncoder().encode(data);
                base64Encoded = new String(encodeBase64, "UTF-8");
                if (base64Encoded != null)
                    out.write("<br>");
                %>
                
                <%
            }
        }
    }
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode());
}
%>
</body>
</html>

```

YellowfinAdministrationPerson

SUCCESS25COULD_NOT_AUTHENTICATE_USER

LoginId	String	WebIDIDID YellowfinYellowfin Web
Password	String	

OrgId	Integer	YellowfinID1
Function	String	WebVALIDATEUSER
Person	AdministrationPerson	
OrgRef	String	ID

AdministrationPerson

AdministrationPerson		
User ID	String	IDIDID
Password	String	

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>VALIDATEUSER</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
          <password>test</password>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none"> SUCCESS FAILURE
Person	AdministrationPerson	

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <person>
          <ipId>5</ipId>
          <userId>admin@yellowfin.com.au</userId>
        </person>
        <sessionId>0ee8ae23d21ff01f365d1e03ea49c47a</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

- Web

```

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("VALIDATEUSER");

```

- AdministrationPersonID

```

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");
ap.setPassword("test");

rsr.setPerson(ap);

```

- ID

```

rsr.setOrgRef("org1");

```

OrgRef

-

```

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

```

Web

- StatusCode

VALIDATEUSER

- 1. **ws_validateuser.jsp**
- 2. rootYellowfin/appserver/webapps/ROOT
- 3.
- 4. **http://<host>:<port>/ws_validateuser.jsp**

```
<%
/*          ws_validateuser.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("VALIDATEUSER");

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");
ap.setPassword("test");

rsr.setPerson(ap);
rsr.setOrgRef("org1");

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("User is authenticated");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode());
}
%>
```

StatusCodeSUCCESSFAILURE

YellowfinSUCCESSYellowfin

LoginId	String	Yellowfin WebIDIDID YellowfinYellowfin Web

Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebVALIDATE PASSWORD
Person	AdministrationPerson	

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>VALIDATEPASSWORD</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
          <password>test</password>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none"> SUCCESS FAILURE

SOAP

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>fb024963bdc94034557f95b01f53a138</sessionId>
        <statusCode>FAILURE</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("VALIDATEPASSWORD");
```

- AdministrationPersonID

```
AdministrationPerson ap = new AdministrationPerson();
ap.setUserId("john.smith@yellowfin.com.au");
ap.setPassword("test");

rsr.setPerson(ap);
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

VALIDATEPASSWORD

1. **ws_validatepassword.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_validatepassword.jsp**

```

<%
/*          ws_validatepwd.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_admin = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_admin.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("VALIDATEPASSWORD");

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");
ap.setPassword("test");
rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
if ("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("Password is expired");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

WebAdministrationPersonUser IDAdministrationPerson

YellowfinIDIDIDAdministrationPerson

LoginId	String	Yellowfin WebIDIDID Yellowfin Yellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	Web CHANGEPASSWORD
Person	AdministrationPerson	

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	Yellowfin

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>CHANGEPASSWORD</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
          <password>test321</password>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web
		<ul style="list-style-type: none">• SUCCESS• FAILURE

SOAP

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>f6bdc33348cd76d7898f3bed3e54ff31</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("CHANGEPASSWORD");
```

- AdministrationPerson

```
AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");
ap.setPassword("test123");
rsr.setPerson(ap);
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

CHANGEPASSWORD

1. **ws_changepassword.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_changepassword.jsp**

```

<%
/*          ws_changepwd.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("CHANGEPASSWORD");

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");
ap.setPassword("test123");

rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("Password is reset");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

Yellowfin[CHANGEPASSWORD](#)

LoginId	String	Yellowfin WebIDIDID Yellowfin Yellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	Web RESETPASSWORD
Person	AdministrationPerson	

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	

SOAP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test321</password>
        <orgId>1</orgId>
        <function>RESETPASSWD</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
          <password>test321</password>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web
		<ul style="list-style-type: none">• SUCCESS• FAILURE

SOAP

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>beabd94a9ffaa562a8b9ba823fc291a0</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("RESETPASSWD");
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

RESETPASSWORD

1. **ws_resetpassword.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_resetpassword.jsp**

```

<%
/*          ws_ resetpwd.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the account above
rsr.setOrgId(1);
rsr.setFunction("RESETPASSWD");

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");
rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("Account is reset");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

IDIDIDAdministrationPerson

AdministrationPerson

[CHANGEPASSWORD](#)

LoginId	String	Yellowfin WebIDIDID Yellowfin Yellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	Web UPDATEUSER
Person	AdministrationPerson	

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID

SOAPInactive

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>UPDATEUSER</function>
        <person>
          <userId>binish.sheikh@yellowfin.com.au</userId>
          <status>ACTIVE</status>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none">• SUCCESS• FAILURE
Person	AdministrationPerson	

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Getting user information...</messages>
        <messages>Getting user information...</messages>
        <messages>Web Service Request Complete</messages>
        <person>
          <emailAddress>binish.sheikh@yellowfin.com.au</emailAddress>
          <firstName>Binish</firstName>
          <ipId>13000</ipId>
          <lastName>Sheikh</lastName>
          <roleCode>YFADMIN</roleCode>
          <status>ACTIVE</status>
          <timeZoneCode>AUSTRALIA/BRISBANE</timeZoneCode>
          <userId>binish.sheikh@yellowfin.com.au</userId>
        </person>
        <sessionId>586e172a7c4850bb3edbaaf5264a312d</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

- Web

```

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("UPDATEUSER");

```

- AdministrationPerson

```

AdministrationPerson ap = new AdministrationPerson();

ap.setUserId("john.smith@yellowfin.com.au");

```

- Inactive

```

ap.setStatus("INACTIVE"); // This shows that the user "john.smith@yellowfin.com.au" will
not be able to log in

rsr.setPerson(ap);

```

-


```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCodePerson

UPDATEUSER

1. **ws_updateuser.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_updateuser.jsp**

```

<%
/*          ws_updateuser.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_admin = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_admin.
getAdministrationService();

AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("UPDATEUSER");

AdministrationPerson ap = new AdministrationPerson();
ap.setUserId("john.smith@yellowfin.com.au");
ap.setStatus("INACTIVE");
rsr.setPerson(ap);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
if ("SUCCESS".equals(rs.getStatusCode()) ) {
    ap = rs.getPerson();
    out.write("User Id: " + ap.getUserId() + "<br>");
    out.write("Password: " + ap.getPassword() + "<br>");
    out.write("First Name: " + ap.getFirstName() + "<br>");
    out.write("Last Name: " + ap.getLastName() + "<br>");
    out.write("Initial: " + ap.getInitial() + "<br>");
    out.write("Salutation Code: " + ap.getSalutationCode() + "<br>");
    out.write("Role Code: " + ap.getRoleCode() + "<br>");
    out.write("Email Address: " + ap.getEmailAddress() + "<br>");
    out.write("Language Code: " + ap.getLanguageCode() + "<br>");
    out.write("IpId: " + ap.getIpId() + "<br>");
    out.write("Time Zone Code: " + ap.getTimeZoneCode() + "<br>");
    out.write("Status: " + ap.getStatus() + "<br>");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode() );
}
%>

```

WebUTF-8

LoginId	String	Yellowfin WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebSETAVATARIMAGE
Person	AdministrationPerson	

Parameters	String[]	UTF-8
------------	----------	-------

AdministrationPerson

AdministrationPerson		
IpId	Integer	Yellowfin IP IDYellowfinPersonIpId

SOAP XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>SETAVATARIMAGE</function>
        <person>
          <ipId>5</ipId>
        </person>
        <parameters>
          <string>iVBORw0KGgoAAAANSUheUgAAAdsAAA ... your image string</string>
        </parameters>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web
		<ul style="list-style-type: none"> SUCCESS FAILURE

SOAP

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>5fbbf0f2d8a6f4902adde5bfb659fed7</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("SETAVATARIMAGE");
```

- IP ID

```
AdministrationPerson ap = new AdministrationPerson();
ap.setIpId(5);

rsr.setPerson(ap);
```

- java.nio.file

```
Path path = Paths.get("D:/TMP/fish.jpg"); // existing image file
byte[] data = Files.readAllBytes(path);
byte[] encodeBase64 = java.util.Base64.getEncoder().encode(data);
String img = new String(encodeBase64, "UTF-8");

rsr.setParameters(new String[] {img});
```

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

Web

1. **ws_setavatarimage.jsp**
2. rootYellowfin/appserver/webapps/ROOT
- 3.
4. **http://<host>:<port>/ws_setavatarimage.jsp**

```

<%
/*          ws_setavatarimage.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%@ page import="java.nio.file.Files" %>
<%@ page import="java.nio.file.Paths" %>
<%@ page import="java.nio.file.Path" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number
AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin
account
rsr.setPassword("test");          // change to the password of the above account
rsr.setOrgId(1);
rsr.setFunction("SETAVATARIMAGE");

AdministrationPerson ap = new AdministrationPerson();
ap.setIpId(5);

rsr.setPerson(ap);

Path path = Paths.get("D:/TMP/fish.jpg"); // existing image file
byte[] data = Files.readAllBytes(path);
byte[] encodeBase64 = java.util.Base64.getEncoder().encode(data);
String img = new String(encodeBase64, "UTF-8");

rsr.setParameters(new String[] {img});

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("<br>Success");
} else {
    out.write("Failure");
    out.write(" Code: " + rs.getErrorCode());
}
%>

```

Yellowfin

Yellowfin**LoginSessionId**LOGINUSERLOGINUSERNOPASSWORDLoginSessionId

```
String token = response.getLoginSessionId();
```

LOGOUTUSER

```
request.setLoginSessionId(token);
```

LoginId	String	Yellowfin WebIDIDID YellowfinYellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	WebLOGOUTUSER
Person	AdministrationPerson	
LoginSessionId	String	Yellowfin

AdministrationPerson

AdministrationPerson		
UserId	String	IDIDID
Password	String	

SOAP XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>LOGOUTUSER</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
          <password>test</password>
        </person>
        <loginSessionId>39fb11047affb98c9d081fb48bed0093</loginSessionId>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>
```

StatusCode	String	Web <ul style="list-style-type: none"> SUCCESS FAILURE

SOAP XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>9cad6c76734e329c298e7b15c57a19db</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>
```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("LOGOUTUSER");
```

- ID

```
rsr.setLoginSessionId(token);
```

- Tomcat

```
String[] _sessionId = new String[]{sessionId}; // log out by Tomcat session Id (cookies JSESSIONID)
rsr.setParameters(_sessionId);
```

TomcatIDYellowfin

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

LOGOUTUSER

- LoginSessionIdLOGINUSER
- Yellowfinjohn.smith@yellowfin.com.auYellowfinuserId
-

1. **logoutuser.jsp**
2. rootYellowfin/appserver/webapps/ROOT
3. /
4. **http://<host>:<port>/logoutuser.jsp**

```
<%
/*          logoutuser.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_adm = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number
AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_adm.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

String token = request.getParameter("token");

if (token == null) {

    //login the admin user:

    rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
    rsr.setPassword("test");          // change to the password of the above account
    rsr.setOrgId(1);
    rsr.setFunction("LOGINUSER");

    AdministrationPerson ap = new AdministrationPerson();

    String userId = "john.smith@yellowfin.com.au";

    ap.setUserId(userId);
    ap.setPassword("test");

    rsr.setPerson(ap);

    AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

    if ("SUCCESS".equals(rs.getStatusCode()) ) {
        String token_ = rs.getLoginSessionId();
        out.write("Login by opening the link in a new subtab prior to Logout. The tomcat session must be
initialized...");
        out.write("<BR>Login: <A href='http://localhost:8080/logon.i4?LoginWebserviceId=" + token_ + "'>");
        out.write("http://localhost:8080/logon.i4?LoginWebserviceId=" + token_ + "</a><br>");
        out.write("<BR>Logout: <A href='http://localhost:8080/test.jsp?token=" + token_ + "&userId=" + userId +
"'>");
        out.write("http://localhost:8080/test.jsp?token=" + token_ + "&userId=" + userId + "</a><br>");
    } else {
        out.write("Failure");
        out.write(" Code: " + rs.getErrorCode() );
        return;
    }
} else {

    //logout the user:

    out.write("Trying to logout " + token + " session...<br>");
```



```

rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");           // provide your Yellowfin web services admin account
rsr.setPassword("test");                           // set the password of the above account
rsr.setOrgId(1);

rsr.setFunction("LOGOUTUSER");

rsr.setLoginSessionId(token);

AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

if ("SUCCESS".equals(rs.getStatusCode()) ) {
    out.write("Logout: Success");
} else {
    out.write("Failure");
    out.write("Code: " + rs.getErrorCode() );
}
}
%>

```

LOGOUTUSERIDIDIDIDIP IDYellowfinPersonIpId

IDIpIdAdministrationPerson

LoginId	String	Yellowfin WebIDIDID Yellowfin Yellowfin Web
Password	String	
OrgId	Integer	YellowfinID1
Function	String	Web LOGOUTBYUSERID
Person	AdministrationPerson	

AdministrationPerson

AdministrationPerson		
UserId	String	YellowfinIDIDID
IpId	String	Ip ID

XML SOAP

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.web.mi.hof.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <web:remoteAdministrationCall>
      <arg0>
        <loginId>admin@yellowfin.com.au</loginId>
        <password>test</password>
        <orgId>1</orgId>
        <function>LOGOUTBYUSERID</function>
        <person>
          <userId>admin@yellowfin.com.au</userId>
          <password>test</password>
        </person>
      </arg0>
    </web:remoteAdministrationCall>
  </soapenv:Body>
</soapenv:Envelope>

```

StatusCode	String	Web
		<ul style="list-style-type: none"> • SUCCESS • FAILURE

SOAP

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:remoteAdministrationCallResponse xmlns:ns2="http://webservices.web.mi.hof.com/">
      <return>
        <errorCode>0</errorCode>
        <messages>Successfully Authenticated User: admin@yellowfin.com.au</messages>
        <messages>Web Service Request Complete</messages>
        <sessionId>f8a04d7c9530ff18f65f95048e6a4500</sessionId>
        <statusCode>SUCCESS</statusCode>
      </return>
    </ns2:remoteAdministrationCallResponse>
  </S:Body>
</S:Envelope>

```

Java

- Web

```
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

rsr.setLoginId("admin@yellowfin.com.au");
rsr.setPassword("test");
rsr.setOrgId(1);

rsr.setFunction("LOGOUTBYUSERID");
```

- IDlpId

```
AdministrationPerson ap = new AdministrationPerson();
ap.setUserId(userId);

rsr.setPerson(ap);
```

- Tomcat

```
String[] _sessionId = new String[]{sessionId}; // log out by Tomcat session Id (cookies JSESSIONID)
rsr.setParameters(_sessionId);
```

TomcatIDYellowfin

-

```
AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);
```

Web

- StatusCode

- Yellowfinjohn.smith@yellowfin.com.auYellowfinuserId
-

1. **test.jsp**
2. rootYellowfin/appserver/webapps/ROOT
3. /
4. **http://<host>:<port>/test.jsp**

```
<%
/*          test.jsp          */
%>
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<%@ page import="com.hof.util.*, java.util.*, java.text.*" %>
<%@ page import="com.hof.web.form.*" %>
```

```

<%@ page import="com.hof.mi.web.service.*" %>
<%
AdministrationServiceService s_admin = new AdministrationServiceServiceLocator("localhost",8080, "/services
/AdministrationService", false);          // adjust host and port number

AdministrationServiceSoapBindingStub adminService = (AdministrationServiceSoapBindingStub) s_admin.
getAdministrationService();
AdministrationServiceRequest rsr = new AdministrationServiceRequest();

String userId = request.getParameter("userId");

if (userId == null) {

    //login the admin user:

    rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
    rsr.setPassword("test");                          // set the password of the above account
    rsr.setOrgId(1);
    rsr.setFunction("LOGINUSER");

    AdministrationPerson ap = new AdministrationPerson();

    userId = "john.smith@yellowfin.com.au";

    ap.setUserId(userId);
    ap.setPassword("test");

    rsr.setPerson(ap);

    AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

    if ("SUCCESS".equals(rs.getStatusCode()) ) {
        String token_ = rs.getLoginSessionId();
        out.write("Login by opening the link in a new subtab prior to Logout. The tomcat session must be
initialized...");
        out.write("<BR>Login: <A href='http://localhost:8080/logon.i4?LoginWebserviceId=" + token_ + "'>");
        out.write("http://localhost:8080/logon.i4?LoginWebserviceId=" + token_ + "</a><br>");

        out.write("<BR>Logout: <A href='http://localhost:8080/test.jsp?token=" + token_ + "&userId=" + userId +
"'>");
        out.write("http://localhost:8080/test.jsp?token=" + token_ + "&userId=" + userId + "</a><br>");

    }else {
        out.write("Failure");
        out.write(" Code: " + rs.getErrorCode() );
        return;
    }
} else {

    //logout the user:

    out.write("Trying to logout " + userId + " session...<br>");

    rsr = new AdministrationServiceRequest();

    rsr.setLoginId("admin@yellowfin.com.au");          // provide your Yellowfin web services admin account
    rsr.setPassword("test");                          // change to the password of the above account
    rsr.setOrgId(1);

    rsr.setFunction("LOGOUTBYUSERID");

    AdministrationPerson ap = new AdministrationPerson();
    ap.setUserId(userId);

    rsr.setPerson(ap);

    AdministrationServiceResponse rs = adminService.remoteAdministrationCall(rsr);

```

```
if ( "SUCCESS".equals(rs.getStatusCode()) ) {  
    out.write("Logout: Success");  
} else {  
    out.write("Failure");  
    out.write(" Code: " + rs.getErrorCode() );  
}  
}  
%>
```