



## **BLC Wireless Oy**

### **Mobilizing SharePoint - Case Team Work Site**

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## 1 About this document

This document is a step-by-step set of instructions for mobilizing different web parts of Microsoft SharePoint Portal Server using Waplane version 2.6.4 or later and Web Services Query Tool by Sofor Wireless Ltd. This sample case is also included as a part of our software documentation.

## 2 Background information:

Microsoft SharePoint Portal Server offers a portfolio of collaboration and communication services designed to connect people, information, processes, and systems both within and beyond the organizational firewall. SharePoint also contains a document based Web Services API with a set of WSDL definitions.

A document based web service differs from an RPC based one with the inclusion of Any elements. Any elements are XML structures that are used for transferring data between the web service and the client application. For additional information on this, read the instructions forward, where you'll also be directed to the corresponding location in the SharePoint documentation.

Team Work Site is a site template that can be downloaded and installed to your SharePoint Server. It allows you to run a collaborative portal that contains action items, team announcements, team member information etc. Download link below (Chapter: Links).

## 3 Mobilization - Goals and requirements

The goal is to mobilize the following three web parts of Team Work Site  
Team announcements  
Action items  
Meetings



This is achieved by creating three web services queries that access the site via its web services API. Each query will correspond to one of the three web parts and will be categorised into a single Waplane application. For step by step instructions on each part and on how to build the connection from Waplane, read forward.

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### 3.1 Prerequisites

- A running, properly configured SharePoint server
  - TeamWork site up and running
  - The file **Lists.wSDL** in your local file system, or otherwise accessible by WSQ Tool.  
This file can be retrieved from your TeamWork site as follows:
1. Open the web service **Lists.asmx** in the browser ([http://<your domain>/<path>/<your teamwork site name>/\\_vti\\_bin/Lists.asmx](http://<your domain>/<path>/<your teamwork site name>/_vti_bin/Lists.asmx) )
  2. Download the service definition file **Lists.xml** from the link at the top of the page. The file might also be named **Lists.asmx.xml**, depending on your browser
  3. Rename the downloaded definition file: **Lists.wSDL**

Structural knowledge:

- **Any elements (XML):** Refer to the Sharepoint documentation to find the necessary XML structures
- **List ID's and field names:** A handy tool for researching the necessary list ID's is SharePoint Services Web Service Browser, which can be downloaded from the web. See additional information about the browser from chapter 6 of this document.

### 3.2 Links

Microsoft SharePoint Product home:

<http://www.microsoft.com/sharepoint/default.aspx>

Team Work Site and other SharePoint applications:

<http://www.microsoft.com/technet/prodtechnol/sppt/wssapps/default.aspx#teamworksites>

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## 4 Mobilization in practise

### 4.1 Mobilizing Team Announcements

1. Open the WSQ Tool
2. Press [...] and open the file Lists.wsdl (browse to the path where you downloaded the WSDL file)
3. Press **Show operations** to form an operation tree
4. Set a name for your application, eg. Teamwork site. Give all three queries the same application name, so you'll find them under the same application in Waplane Admin client's queries list.
5. Select the line **getListItems** from the operations list and fill out the required query info on the right hand column:

**Query name:** Give a name for the query (Announcements)

**Service URL:** Insert the full URL address of your teamwork site

(Example: [http://myserver.company.com:80/sites/mobile/TeamWorkSite/\\_vti\\_bin/Lists.asmx](http://myserver.company.com:80/sites/mobile/TeamWorkSite/_vti_bin/Lists.asmx))  
Search type: Search

**Follow-up query:** No (leave unchecked)

**Image address:** Address for the image that will be used as an icon for this query in Waplane.

**Authentication:** Either press Browse, if you've previously created an XML file with correct credentials or Create new.

**Use common user ID and password:** Insert the credentials in the corresponding fields below.

**Use user's Login ID and password:** User's ID/Password from Waplane will be used for accessing the SharePoint site.

**Ask user ID:** When user accesses TeamWorkSite from his portal, the user ID and password will be asked.

6. After you've created an authentication method, press Save and give a name to your authentication XML file. (Example: TeamWorkAuthentication.xml).
7. Open the operation tree into getListItems - Request - getListItems – listName
8. Check the box in front of listName
9. Highlight the line listName and fill the Request field information in the right hand column:

- Field type: Static

- **Default value:** Insert the ID for Team Announcements.

Example: {A97B008C-D20A-4F10-8863-F8F84A65993D}. Note that the ID varies for each site.

For instructions on finding the ID for Team Announcements, see **chapter 6** of this document.

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10. Open the tree into getListItems - Request - getListItems - Query - *\_any*  
Any is an XML element that that is used for both sending requests to the target service and formatting the responses for Waplane.
11. Check the box in front of the Any element.
12. Right-click the Any line and select Insert from XML. Paste the following XML structure into the text area :

```
<Query>
  <OrderBy>
    <FieldRef Name="Created" Ascending="FALSE"></FieldRef>
  </OrderBy>
</Query>
```

The *Query* any element is used for limiting and redefining the request, and isn't a mandatory parameter. In the above example, the any element is used to order the announcements into a descending list, sorted by creation date. Refer to your SharePoint documentation for the precise XML structures that can be used in requests and responses (**MS Windows SharePoint Services -> Reference -> Web services -> Methods -> getListItems method**)

13. Open the operation tree into getListItems - Request - getListItems - viewFields - *\_Any*
14. Check the box in front of the **Any** element.
15. Right-click the Any element and select **Insert from XML**. The viewFields element defines the fields that are retrieved by the query from the web service. In this XML sample we retrieve the title, author, creation date, the actual content body and ID (mandatory) for each team announcement.

```
<ViewFields>
  <FieldRef Name="Title" />
  <FieldRef Name="Author" />
  <FieldRef Name="Created" />
  <FieldRef Name="Body" />
  <FieldRef Name="ID" />
</ViewFields>
```

The above fields in Team Announcements were located from the Team Work Site using the web service browser client mentioned earlier in this document. If you want to do this yourself, select the method **getList** in the lists service in the browser client.

16. Insert Team Announcements list ID into the List name field and press **Execute web method**. As a result, all the fields in the Team Announcements are shown. This way you can find all the possible fields you can include in ViewFields, and then modify the above XML structure before placing it in the Any element to match your needs.

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17. Open the operation tree to getListItems - Response - getListItemsResponse - getListItemsResult - \_any
18. Check the box in front of the Any element
19. Right-click the Any line and select Insert from XML. Paste the following XML structure into the text area:

```
<listitems>
  <data ItemCount="">
    <row ows_Title="" ows_Author="" ows_Created="" ows_Body="" ows_ID="" />
  </data>
</listitems>
```

This is the format of the response which needs to include all the fields that were included in the viewFields section of the request. Note that the row parameter is pulled from an actual response which was received using the separate Share Point web service browser. You can also find sample response XML structures from the SharePoint documentation, where they are referred to as *return values*.

The response originally contained multiple rows, which were reduced to one for this purpose. WSQ Tool parses the line and finds the response fields it then expects to find in the actual query, replacing the empty field values in this structure with actual result values.

20. Uncheck the box from the **ItemCount** line.
21. Change the type of the response element from row to **array**. Right-click on the row element and select **Convert to array**. An icon will appear next to the row element to indicate that its type is now array. This is done because the row now contains multiple variables with their values.

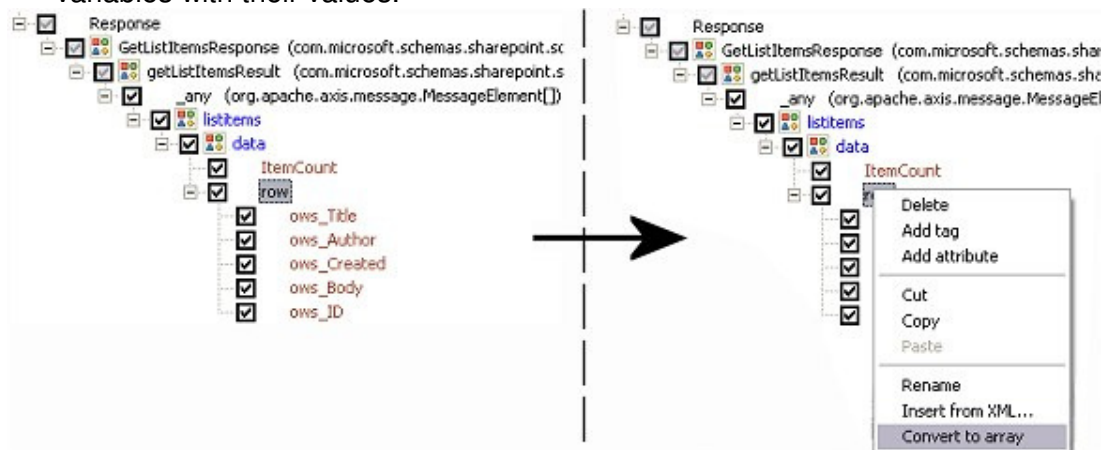


Image: Convert the response from Row to Array

22. Select each item under the row one by one:
  - **Show field in result list:**
 Check the box in the right hand column to choose whether you want the item to show in the result list

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- **Show item in detailed result:**

Check the box in the right hand column to choose whether you want the item to show in detailed view of each result.

- **Title in detail:** Type in a descriptive title for each item to show under in the portal. For instance, a more user friendly title for *ows\_Author* would be *Author*.

23. Make sure that the main level of the operation (**getListItems**) is checked from the tree.
24. Press **File - Save...** from the top menu to save your web service query into a .qew- file for further editing.
25. Press **File - Generate query definition** to export your query into an XML file that can then be imported into Waplane.
26. Select a location and give a descriptive name (e.g. TeamWorkSite-Announcements) to the XML file and press **Save**.
27. Press **File - Generate JAR** to create a JAR file containing the WSDL definitions for the Lists service.
28. Name the file **Lists.jar** and place it in an active class path (e.g. the *lib* directory of your Tomcat server)

**NOTE:** The JAR file only needs to be generated once per WSDL file, so if you create it in this step, you won't have to do it again later.

## 4.2 Mobilizing Action Items

1. Open the WSQ Tool
2. Press [...] and open the file **Lists.wsdl** (browse to the path where you downloaded the WSDL file)
3. Press **Show operations** to form an operation tree
4. Set a name for your application, eg. Teamwork site. You should use the same name as you did with Team Announcements.
5. Select the line **getListItems** from the operations list and fill out the required query info on the right hand column:

**Query name:** Give a name for the query (Action Items)

**Service URL:** Insert the full URL address of your teamwork site

(e.g. [http://myserver.company.com:80/sites/mobile/TeamWorkSite/\\_vti\\_bin/Lists.asmx](http://myserver.company.com:80/sites/mobile/TeamWorkSite/_vti_bin/Lists.asmx))

Search type: Search

**Follow-up query:** No (leave unchecked)

**Image address:** Address for the image that will be used as an icon for this query in Waplane. By default, a Waplane service icon is used.

**Authentication:** Either press **Browse**, if you've previously created an XML file with correct credentials or **Create new**.

**Use common user ID and password:** Insert the credentials in the corresponding fields below.

**Use user's Login ID and password:** Each user's ID/Password from Waplane will be used for accessing SharePoint.

**Ask user ID:** When user accesses TeamWorkSite from his portal, the user ID and password will be asked.

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6. After you've created an authentication method, press **Save** and give a name to your authentication XML file (e.g. TeamWorkAuthentication.xml).
7. Open the operation tree into getListItems - Request - getListItems - listName
8. Check the box in front of **listName**
9. Highlight the line **listName** and fill the Request field information in the right hand column:
  - Field type: Static
  - **Default value:** Insert the ID for Action Item Views.Example: {A97B008C-D20A-4F10-8863-F8F84A65993D}.

Note that the ID varies for each site. For instructions on finding the ID for Action Item Views, see chapter 6 of this document.

10. Press the small plus signs to open the tree into getListItems - Request - getListItems - Query - any

**Any** is an XML element that that is used for both sending requests to the target service and formatting the responses for Waplane.

11. Check the box in front of the Any element
12. Right-click the Any line and select Insert from XML. Paste the following XML structure into the text area:

```
<Query>
  <OrderBy>
    <FieldRef Name="AssignedTo" Ascending="TRUE"></FieldRef>
  </OrderBy>
</Query>
```

The *Query* any element is used for limiting and redefining the request, and isn't a mandatory parameter. Refer to your SharePoint documentation for the precise XML structures that can be used in requests and responses (**MS Windows SharePoint Services -> Reference -> Web services -> Methods -> getListItems method**). The above Query will sort the action items by people they're assigned to in an ascending order.

13. Open the operation tree into getListItems - Request - getListItems - viewFields - any
14. Check the box in front of the **Any** element
15. Right-click the Any element and select **Insert from XML**. The viewFields element defines the fields that are retrieved by the query from the web service. In this XML sample we retrieve the due date, status, assigned person, title, author and ID (mandatory) for each action item.

```
<ViewFields>
  <FieldRef Name="DueDate" />
  <FieldRef Name="Status" />
  <FieldRef Name="AssignedTo" />
  <FieldRef Name="Title" />
  <FieldRef Name="Author" />
  <FieldRef Name="ID" />
</ViewFields>
```

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The names of each field can be found using the web service browser client that was mentioned earlier in this document. If you want to do this yourself, select the method **getList** in the lists service in the browser client. Insert Action Items list ID into the List name field and press **Execute web method**. As a result, all the fields in the Action Items are shown. This way you can find all the possible fields you can include in ViewFields, and then modify the above XML structure before placing it in the Any element to match your needs.

16. Open the tree into getListItems - Response - getListItemsResponse - getListItemsResult - \_any
17. Check the box in front of the **Any** element
18. Right-click the **Any** line and select **Insert from XML**. Paste the following XML structure into the text area:

```
<listitems>
  <data ItemCount="">
    <row ows_DueDate="" ows_Status="" ows_AssignedTo="" ows_Title=""
ows_Author="" ows_ID="" />
  </data>
</listitems>
```

This is the format of the response which needs to include all the fields that were included in the viewFields section of the request. Note that the *row* parameter is pulled from an actual response which was received using the separate Share Point web service browser. You can also find sample responses from the SharePoint documentation, where they are referred to as *return values*.

The response originally contained multiple rows, which were reduced to one for this purpose. WSQ Tool parses the line and finds the response fields it then expects to find in the actual query, replacing the empty field values in this structure with actual result values.

19. Uncheck the box from the **ItemCount** line.
20. Change the type of the response element from row to **array**. Right-click on the row element and select **Convert to array**. An icon will appear next to the row element to indicate that its type is now array. This is done because the row now contains multiple variables with their values.

21. Select each item under the row one by one:

**- Show field in result list:**

Check the box in the right hand column to choose whether you want the item to show in the result list

**- Show item in detailed result:**

Check the box in the right hand column to choose whether you want the item to show in detailed view of each result.

**- Title in detail:**

22. Type in a descriptive title for each item to show under in the portal. For instance, a more user friendly title for *ows\_Author* would be *Author*

23. Make sure that the main level of the operation (**getListItems**) is checked from the tree. Press **File - Save...** from the top menu to save your web service query into a .qew- file for

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further editing.

24. Press **File - Generate query definition** to export your query into an XML file that can then be imported into Waplane.

25. Select a location and give a descriptive name (e.g. TeamWorkSite-ActionItems) to the XML file and press **Save**.

**Optional:** Press **File - Generate JAR** to create a JAR file containing the WSDL definitions for the Lists service. Name the file **Lists.jar** and place it in an active class path.

**NOTE:** The JAR file only needs to be generated once per WSDL file, so if you created it previously, you don't have to do it again now.

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### 4.3 Mobilizing Meetings

1. Open the WSQ Tool
2. Press [...] and open the file **Lists.wsdl** (browse to the path where you downloaded the WSDL file).
3. Press **Show operations** to form an operation tree
4. Set a name for your application, eg. Teamwork site. Give all three queries the same application name, so you'll find them under the same application in Waplane Admin client's queries list.
5. Select the line **getListItems** from the operations list and fill out the required query info on the right hand column:

**Query name:** Give a name for the query (Meetings)

**Service URL:** Insert the full URL address of your teamwork site

(Example: [http://myserver.company.com:80/sites/mobile/TeamWorkSite/\\_vti\\_bin/Lists.asmx](http://myserver.company.com:80/sites/mobile/TeamWorkSite/_vti_bin/Lists.asmx))

Search type: Search

**Follow-up query:** No (leave unchecked)

**Image address:** Address for the image that will be used as an icon for this query in Waplane. By default, a Waplane service icon is used.

**Authentication:** Either press **Browse**, if you've previously created an XML file with correct credentials or **Create new**.

**Use common user ID and password:** Insert the credentials in the corresponding fields below.

**Use user's Login ID and password:** User's ID/Password from Waplane will be used to access the SharePoint site.

**Ask user ID:** When user accesses TeamWorkSite from his portal, the user ID and password will be asked.

6. After you've created an authentication method, press **Save** and give a name to your authentication XML file (Example: TeamWorkAuthentication.xml).
7. Press the small plus signs to open the tree into **getListItems - Request - getListItems - listName**
8. Check the box in front of **listName**
9. Highlight the line **listName** and fill the Request field information in the right hand column:

Field type: Static

**Default value:** Insert the ID for Meetings. Example: {A97B008C-D20A-4F10-8863-F8F84A65993D}. Note that the ID varies for each site.

For instructions on finding the ID for Meetings, see **chapter 6** of this document.

Open the tree into **getListItems - Request - getListItems - Query - \_Any**

**Any** is an XML element that that is used for both sending requests to the target service and formatting the responses for Waplane.

10. Check the box in front of the **Any** element.

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11. Right-click the **Any** line and select **Insert from XML**. Paste the following XML structure into the text area :

```
<Query>
  <OrderBy>
    <FieldRef Name="EventDate" Ascending="FALSE"></FieldRef>
    <FieldRef Name="Title" Ascending="TRUE"></FieldRef>
  </OrderBy>
</Query>
```

The *Query* any element is used for limiting and redefining the request, and isn't a mandatory parameter. In the above example, the any element is used to order the meetings primarily into a descending list, sorted by event date (newest first). Refer to your SharePoint documentation for the precise XML structures that can be used in requests and responses (**MS Windows SharePoint Services -> Reference -> Web services -> Methods -> getListItems method**)

12. Open the operation tree into getListItems - Request - getListItems - viewFields - Any
13. Check the box in front of the Any element.
14. Right-click the Any element and select **Insert from XML**. The viewFields element defines the fields that are retrieved by the query from the web service. In this XML sample we retrieve the event date, end date, title, location, attendees, description and ID (mandatory) for each meeting.

```
<ViewFields>
  <FieldRef Name="EventDate" />
  <FieldRef Name="EndDate" />
  <FieldRef Name="Title" />
  <FieldRef Name="Location" />
  <FieldRef Name="Attendees" />
  <FieldRef Name="Description" />
  <FieldRef Name="ID" />
</ViewFields>
```

The above fields in Meetings were located from the Team Work Site using the web service browser client mentioned earlier in this document. If you want to do this yourself, select the method **getList** in the lists service in the browser client. Insert Team Announcements list ID into the List name field and press **Execute web method**. As a result, all the fields in the Team Announcements are shown. This way you can find all the possible fields you can include in ViewFields, and then modify the above XML structure before placing it in the Any element to match your needs.

15. Open the operation tree to getListItem - Response - getListItemResponse - getListItemResult - \_any
16. Check the box in front of the Any element
17. Right-click the Any line and select Insert from XML. Paste the following XML structure into the text area:

```
<listitems>
  <data ItemCount="">
    <row ows_EventDate="" ows_EndDate="" ows_Title="" ows_Location=""
ows_Attendees="" ows_Description="" ows_ID="" />
  </data>
</listitems>
```

This is the format of the response which needs to include all the fields that were included in the viewFields section of the request. Note that the *row* parameter is pulled from an actual response which was received using the separate SharePoint Web service browser. You can also find sample responses from the SharePoint documentation, where they are referred to as *return values*.

The response originally contained multiple rows, which were reduced to one for this purpose. WSQ Tool parses the line and finds the response fields it then expects to find in the actual query, replacing the empty field values in this structure with actual result values.

18. Uncheck the box from the **ItemCount** line.
19. Change the type of the response element from row to **array**. Right-click on the row element and select **Convert to array**. An icon will appear next to the row element to indicate that its type is now array. This is done because the row now contains multiple variables with their values.

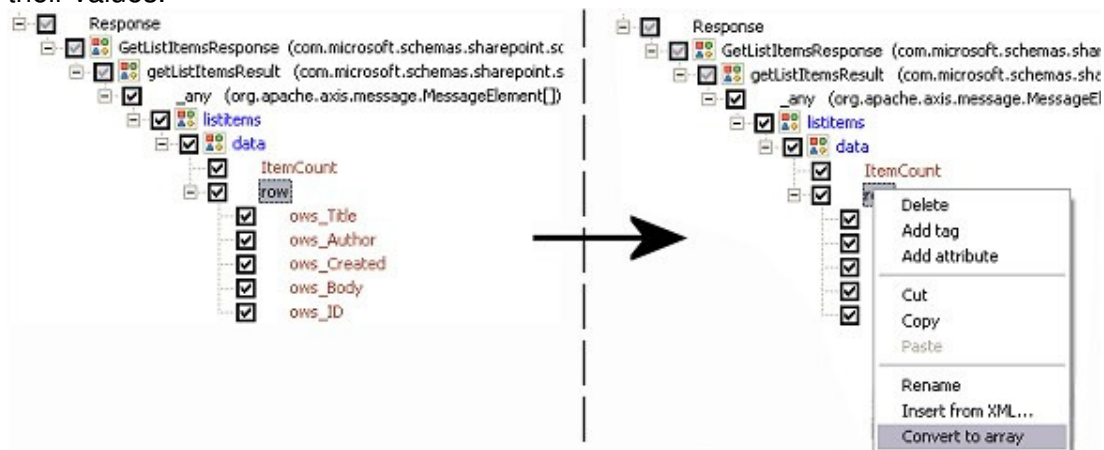


Image: Convert the response from Row to Array

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20. Select each item under the row one by one:

Show field in result list:

Check the box in the right hand column to choose whether you want the item to show in the result list

Show item in detailed result:

Check the box in the right hand column to choose whether you want the item to show in detailed view of each result.

Title in detail:

Type in a descriptive title for each item to show under in the portal. For instance, a more user friendly title for *ows\_Author* would be *Author*.

21. Make sure that the main level of the operation (**getListItems**) is checked from the tree.

22. Press **File - Save...** from the top menu to save your web service query into a .qew- file for further editing.

23. Press **File - Generate query definition...** to export your query into an XML file that can then be imported into Waplane.

24. Select a location and give a descriptive name (e.g. TeamWorkSite-Announcements) to the XML file and press **Save**.

25. **Optional:** Press **File - Generate JAR...** to create a JAR file containing the WSDL definitions for the Lists service. Name the file **Lists.jar** and place it in an active class path.

**NOTE:** The JAR file only needs to be generated once per WSDL file, so if you created it previously, you don't have to do it again now.

## 5 Building the application in Waplane

Now you have generated three XML files that contain a query for each of the three parts of TeamWorkSite that we're mobilizing:

- TeamWorkSite-Announcements.xml
- TeamWorkSite-ActionItems.xml
- TeamWorkSite-Meetings.xml

You also have the **Lists.jar** file you generated from the Lists.wsdl file.

Next you need to import these queries into Waplane under the same application category, create a connection from Waplane to the SharePoint web service service and place these queries in your portal so you can use them in your device.

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## 5.1 Importing queries and connection

1. Open your Waplane Administration Client in your web browser
2. Go to Import/Export
3. From **Step 1**, press **Browse**.
4. Find the XML file for Announcements, and press **Open**.
5. From Step 2, press Import/Update.

Repeat steps 3-5 for the other two service XML files and the authentication XML.



Image: Import each of the queries and the authentication file into Waplane

6. Go to Query Edit Tool - Queries. You now have three queries under the same application name (Select TeamWorkSite from the Application list to check).

If one or more of the queries are improperly categorized you can edit their application name from QE tool's Step 1 to match with the others.

## 5.2 Creating connection

1. Go to Query Edit Tool - Connections.
2. Select the connection (authentication) file you imported in chapter 4.1 and press Edit.
3. Select your Team Work Site application name from the list as the application.
4. Check that the authentication method for your connection is the one you wanted.
5. Save the connection
6. Go to Query Edit tool - Queries.

Edit each of the Team Work Site queries and from Step 1 change their Connection name to the Team Work Site connection and save the queries.

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### 5.3 Building the portal

1. Go to Submenus
2. Press **New**
3. Give a title, e.g. TeamWorkSite to your submenu
4. One by one, select the queries Announcements, Action Items and Meetings from the list on the right and press ←.
5. Press **Save**.

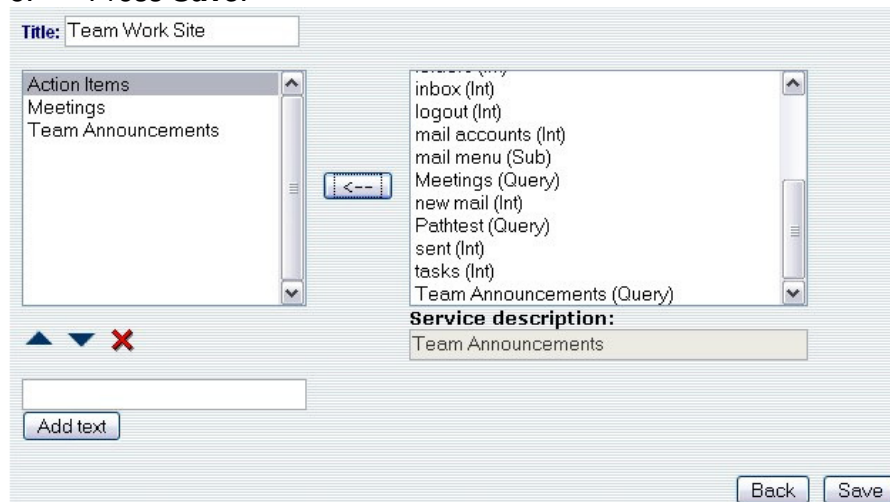


Image: Create a submenu for your Team Work Site queries

You now have the TeamWorkSite mobile application ready to be added to your user's portals.

Edit the user profiles or templates you wish to grant mobile access to the teamwork site and add the **Team Work Site** submenu to their portals.

## 6 Using the SharePoint Web Services Browser

SharePoint Web Services Browser is a third party tool. With correct credentials it can be used to access the WS API of a SharePoint site. The tool can be used to retrieve list collections with list ID's and retrieve individual lists with all the corresponding fields.

In the following example we use the browser to locate the Team Announcements web part and list its fields, so we can take the field names to be used when mobilizing the service.

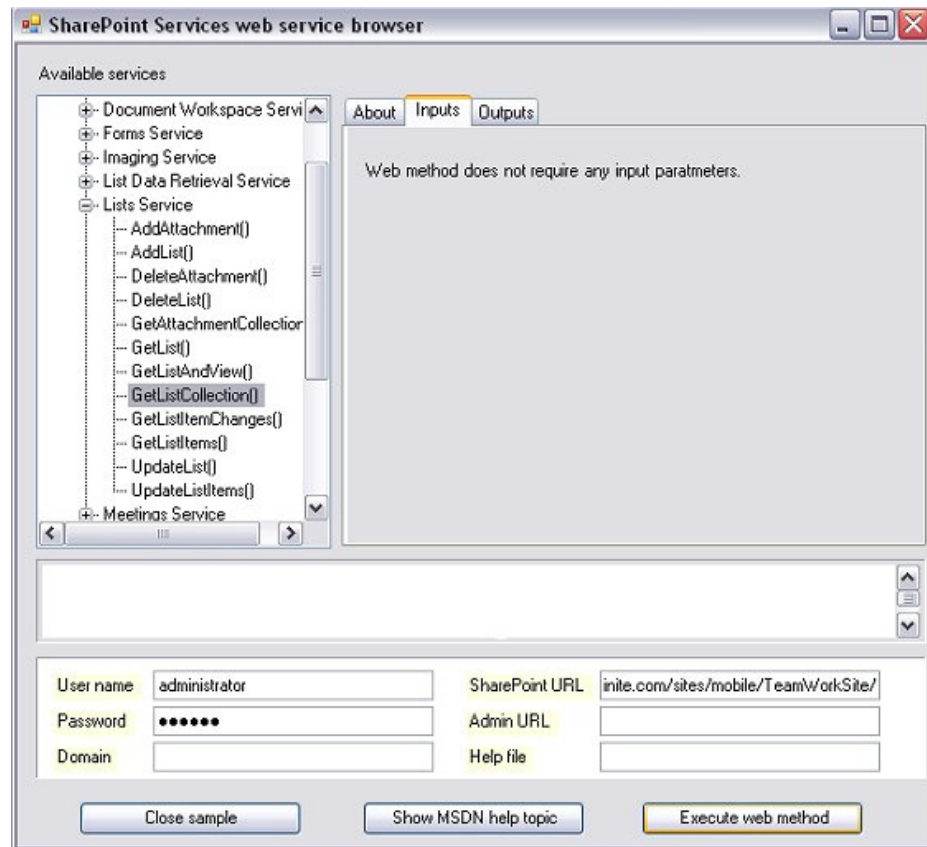


Image: Getting started; insert site URL and credentials.

### **1. Use the SharePoint Web service Browser to find the ID for Team Announcements:**

1. Launch the web browser
2. Insert username, password and URL address in full.  
( http://<your domain>/<path>/<your teamwork site name>/  
**Example:** http://mycompany.com/sites/TeamWorkSite/ )

You can omit the Admin URL line, help file and domain.

3. Select Lists Service - getListCollection().
4. Press **Execute web method**.

You'll get a collection of lists available in the TeamWorkSite web services API.

5. Find the line that contains **Team Announcements** and copy the ID from that line into the **listName** field in WSQ tool. You'll also need the ID to use as the list name for Team Announcements in WSQ Tool when mobilizing the web part.

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## 2. Use the SharePoint Web service Browser to find the field names for Team Announcements:

1. Go to the browser (if necessary, insert credentials and URL address for the TeamWorkSite. See: Line 2. above).
2. Select **Lists Service - getList()**.
3. Paste the ID for Team Announcements list into the field.
4. Press **Execute web method**.
5. From the HTML segment that opens, find the fields you need to mobilize and write down their names.

After you have the field names, you'll need to insert them into the *view fields* and *list fields* XML structures in order to use them as *\_Any* elements in the WSQ Tool.

Refer to your SharePoint help file for information on SharePoint's web services and XML elements:

- MS Windows SharePoint Services -> Reference -> Web services -> Methods -> getListItems method.

The document contains information and XML code blocks for:

- The **Query Any** element: Used for sorting the results.
- The **viewFields Any** element: Used for the specifying fields that are requested from the web service.
- The **listItems Any** element: Used for specifying the fields that are received as a response from the service. (Typically the same fields you have requested)

The XML blocks are also included in this case description. Read the mobilization case step by step to learn their use.

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