Registering Search Interface to SAS® Content as a Federated Location in Microsoft SharePoint Search Server

Search Interface to SAS Content can be integrated with Microsoft SharePoint Search Server as a federated search location. All SharePoint Search products that support integrating federated search locations can be integrated with Search Interface to SAS Content.

Search Interface to SAS Content supports two kinds of search results:

- Reports search - supports searching of SAS Web Report Studio reports, Stored Process reports, SAS BI Dashboard 4.3 (and later) and images.
- Data search - supports searching of Information Maps.

To search both types of content together, Search Interface to SAS Content must be registered as two separate federated locations. The sections below describe the steps required to configure Search Interface to SAS Content as a federated location.

There are two steps to configure Search Interface to SAS Content with Microsoft SharePoint Search Server:

- import and modify the federated location

- add the federated location WebPart with the search results

Importing and Modifying the Federated Location

As a first step to integrate Search Interface to SAS Content with Microsoft SharePoint Search Server, Search Interface to SAS Content has to be registered as a federated location with Microsoft SharePoint Search Server. To ease the registration process, an FLD (Federated Location Definition) file is included with the installer and you can import this FLD file and modify the necessary configuration. To import and modify the federated location, follow the steps below.

Note: *For the time being, importing the same FLD file provided with the installer to add more than one location is not supported, but the work-around is to import once and create copies of the same and make necessary changes to add more than one locations.*

1. Open the Search Server administration page.

2. At the left side of the page under the **Queries and Results** section, click on the **Federated Locations** link.

3. On the **Manage Federated Location** page, click on the **Import Location** link.

4. On the **Import Federated Location** page, click the **Browse** button to import the Federated Location Definition File.

5. Point to the `SearchInterfaceToSASContent.FLD` file that resides under the `MICROSOFT` subdirectory of your Search Interface to SAS Content home directory. You can locate the SearchInterfaceToSASContent.FLD file in the following default locations:
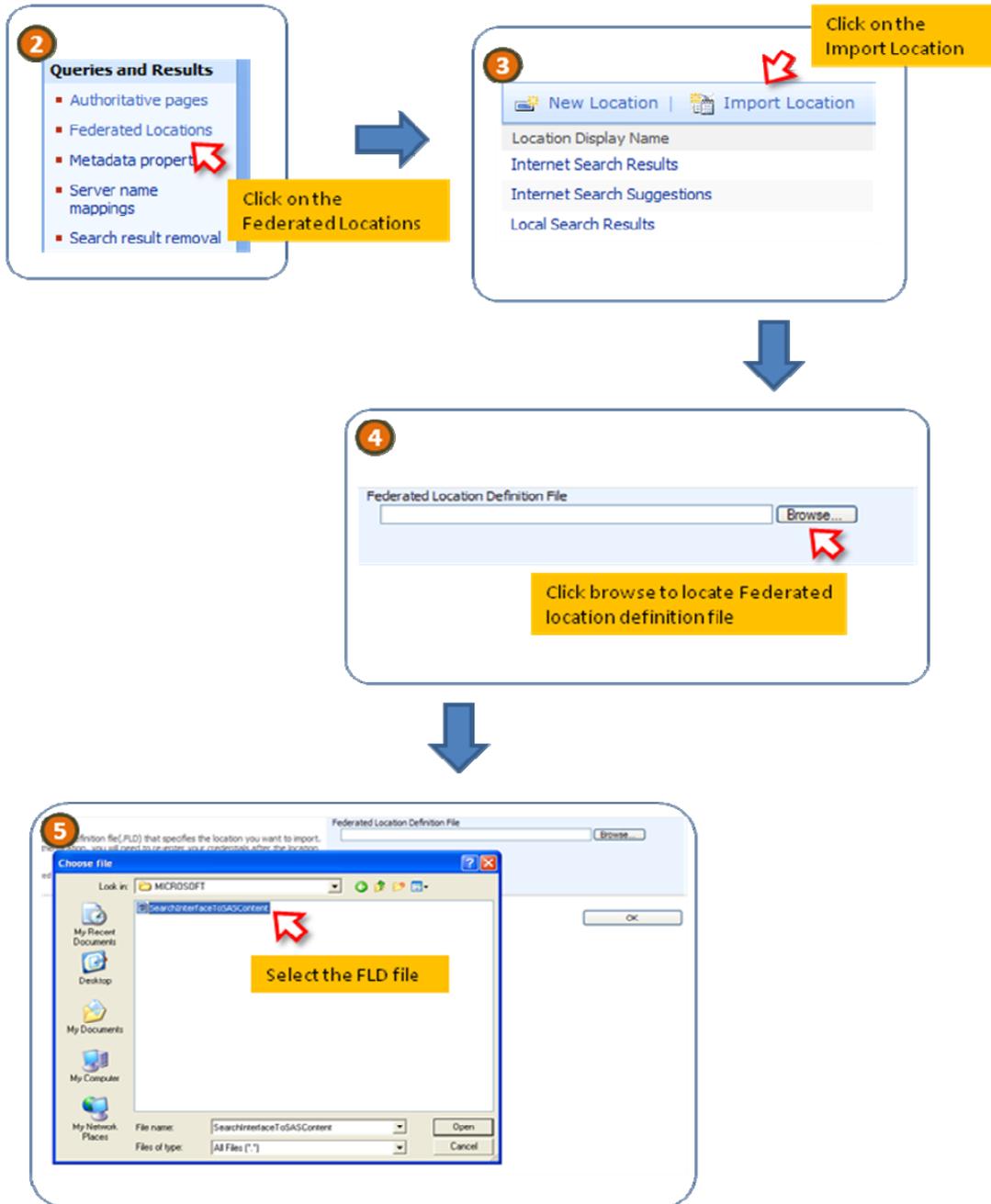
- For Windows:

  ```
  C:\Program Files\SAS\SearchInterfaceToSASContent\1.5\MICROSOFT\
  SearchInterfaceToSASContent.FLD
  ```

- For UNIX:

  ```
  /usr/local/SAS/SearchInterfaceToSASContent/1.5/MICROSOFT/
  SearchInterfaceToSASContent.FLD
  ```

Steps 2 to 5 are illustrated in the following diagram.

6. Once the FLD file is imported successfully, you will get a success message: **The location "Search Interface to SAS 1.5" was successfully imported.** Click **OK** to proceed.

7. After the FLD file is imported successfully, click the **Edit Location** button.

8. In the **Edit Federated Location** page, expand the **Location Information** Section.

   By default the Federated Location will be registered for Report Search. For report search, the Query template will be as follows:

   ```
   http://<host>:<port>/SASSearchService/Controller?forward=Search&q
   uery={searchTerms}&searchType=reports&authType=none
   ```

   If you want to register for Data search (for searching information maps), modify the searchType parameter value to "data".

   After the change, the URL will look like

   ```
   http://<host>:<port>//SASSearchService/Controller?forward=Search&
   query={searchTerms}&searchType=data&authType=none
   ```

9. Change the hostname to the server name on which Search Interface to SAS Content is deployed. For example if you deploy the Search Interface to SAS Content in a server having the hostname "yyy.mycompany.com" and port "7001", then the Query template will be :

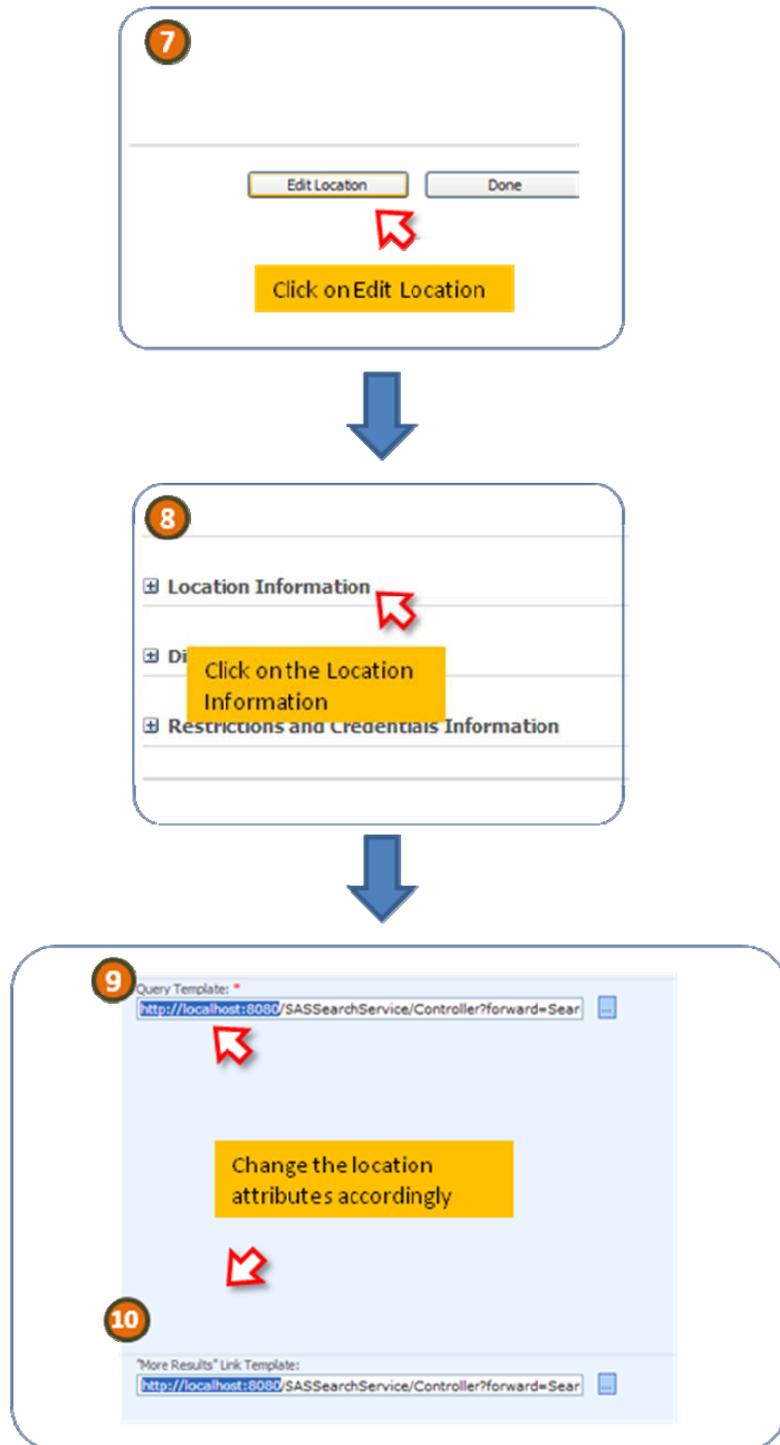   For reports:

   ```
   http://yyy.mycompany.com:7001/SASSearchService/Controller?forward
   =Search&query={searchTerms}&searchType=reports&authType=none
   ```

   For data:

   ```
   http://xxx.mycompany.com:7001/SASSearchService/Controller?forward
   =Search&query={searchTerms}&searchType=data&authType=none
   ```

10. Change the hostname in the "More Results" Link Template also as above.

Steps 7 to 10 are illustrated in the following diagram.

7

Edit Location   Done

Click on Edit Location

8

⊞ Location Information

⊞ Di   Click on the Location
       Information

⊞ Restrictions and Credentials Information

9 Query Template: *
http://localhost:8080/SASSearchService/Controller?forward=Sear

Change the location
attributes accordingly

10

"More Results" Link Template:
http://localhost:8080/SASSearchService/Controller?forward=Sear

11. Expand **Restrictions and Credentials Information** section.

12. Modify the access credential.

    By default, the access credentials for this location under **Specify Credentials** section will be **anonymous**. If the access credential is specified as anonymous, then Search Interface to SAS Content provides search results for user SAS Web Anonymous user. If you want to change the user to some other user, then you will have to modify the query template by removing the **authType=none** parameter and append the username and password.

    For example, change the Query Template in the **Location Information** as below:

    ```
    http://yyy.mycompany.com:7001/SASSearchService/Controller?forward
    =Search&query={searchTerms}&searchType=reports&userName=sasguest@sasp
    w&password=xxxxxxx
    ```

    If you specify the **Basic Authentication – Specify a user name and password** under the **Common** section, you will have to change the **authType** parameter in the Query Template in the Location information as below:

    ```
    http://<host>:<port>//SASSearchService/Controller?forward=Search&
    query={searchTerms}&searchType=reports&authType=basic
    ```

    and for the account and password section for Basic Authentication under Common section specify valid SAS credentials which will be used to during search.

    If you specify the **Basic Authentication - User provides user name and password** under the **User** section, you will have to create a **Custom Federated Search Web Part with Credentials UI.**
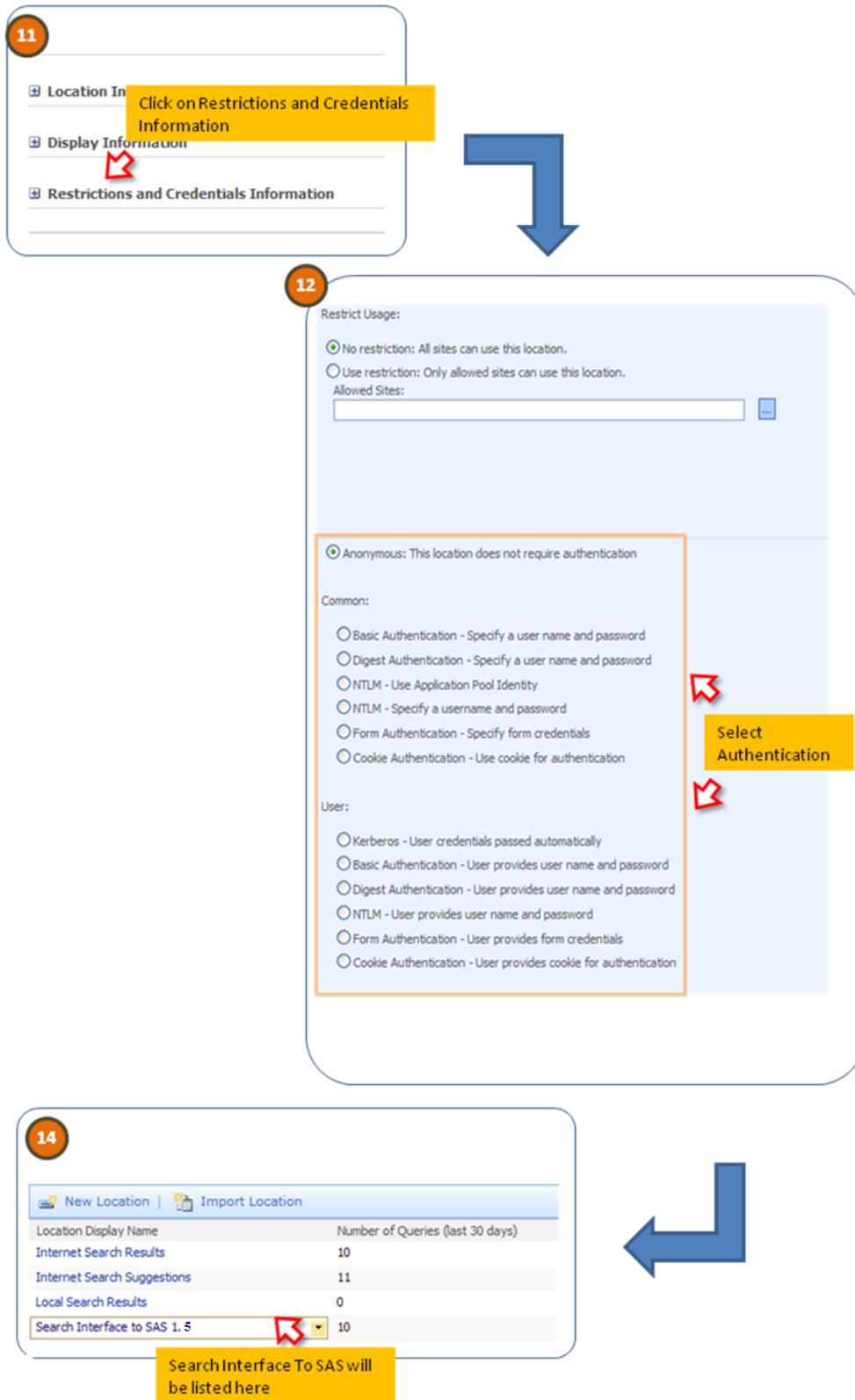
    For more information please visit MDSN site.

    Note: *Search Interface to SAS Content is not tested with access credentials options other than Anonymous access and Basic Authentication – Specify a user name and password.*

13. Click **OK** to save the changes. If the configuration is successful, the "Manage Federated Locations" page will be displayed. If not successful, modify the necessary changes and continue.

14. In the list of Federated Location, "Search Interface to SAS 1.5" also will be listed.

Steps 11, 12, and 14 are illustrated in the following diagram.

11

⊞ Location In   Click on Restrictions and Credentials
Information

⊞ Display Information

⊞ Restrictions and Credentials Information

12

Restrict Usage:

◉ No restriction: All sites can use this location.
◯ Use restriction: Only allowed sites can use this location.
Allowed Sites:

◉ Anonymous: This location does not require authentication

Common:

◯ Basic Authentication - Specify a user name and password
◯ Digest Authentication - Specify a user name and password
◯ NTLM - Use Application Pool Identity
◯ NTLM - Specify a username and password
◯ Form Authentication - Specify form credentials
◯ Cookie Authentication - Use cookie for authentication

Select
Authentication

User:

◯ Kerberos - User credentials passed automatically
◯ Basic Authentication - User provides user name and password
◯ Digest Authentication - User provides user name and password
◯ NTLM - User provides user name and password
◯ Form Authentication - User provides form credentials
◯ Cookie Authentication - User provides cookie for authentication

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🖼 New Location | 🖼 Import Location

Location Display Name	Number of Queries (last 30 days)
Internet Search Results	10
Internet Search Suggestions	11
Local Search Results	0
Search Interface to SAS 1.5	10

Search Interface To SAS will
be listed here

Adding the Federated Location WebPart with the Search Results

To include the Search Result from Search Interface to Content with your default search result, you will have to add the Search Interface to SAS Federated Location in to a Top Federated Results WebPart. Follow the steps below to perform this task:

1. Go to the Search Results page by first opening the search home page, and then searching for any string. This will take you to the result page.

2. Click on the **Site Actions** link in the top right corner of the search page. Click on the **Edit page** menu item from the expanded menu.

3. Check whether "Top Federated Results" WebPart is already available on the page. If it is available, proceed to step 7. If it is not available continue with the next step.

4. Click on the **Add a Web Part** link on the Bottom Zone.

5. A popup window containing the list of WebParts will be shown.

6. Expand all WebPart sections and select the **Top Federated Results** WebPart under the **Search** sub-section. Click **Add** to continue.

7. Click on the **Edit** link provided in the **Top Federated Results** WebPart. Click on the **Modify Shared WebPart** from the expanded menu.
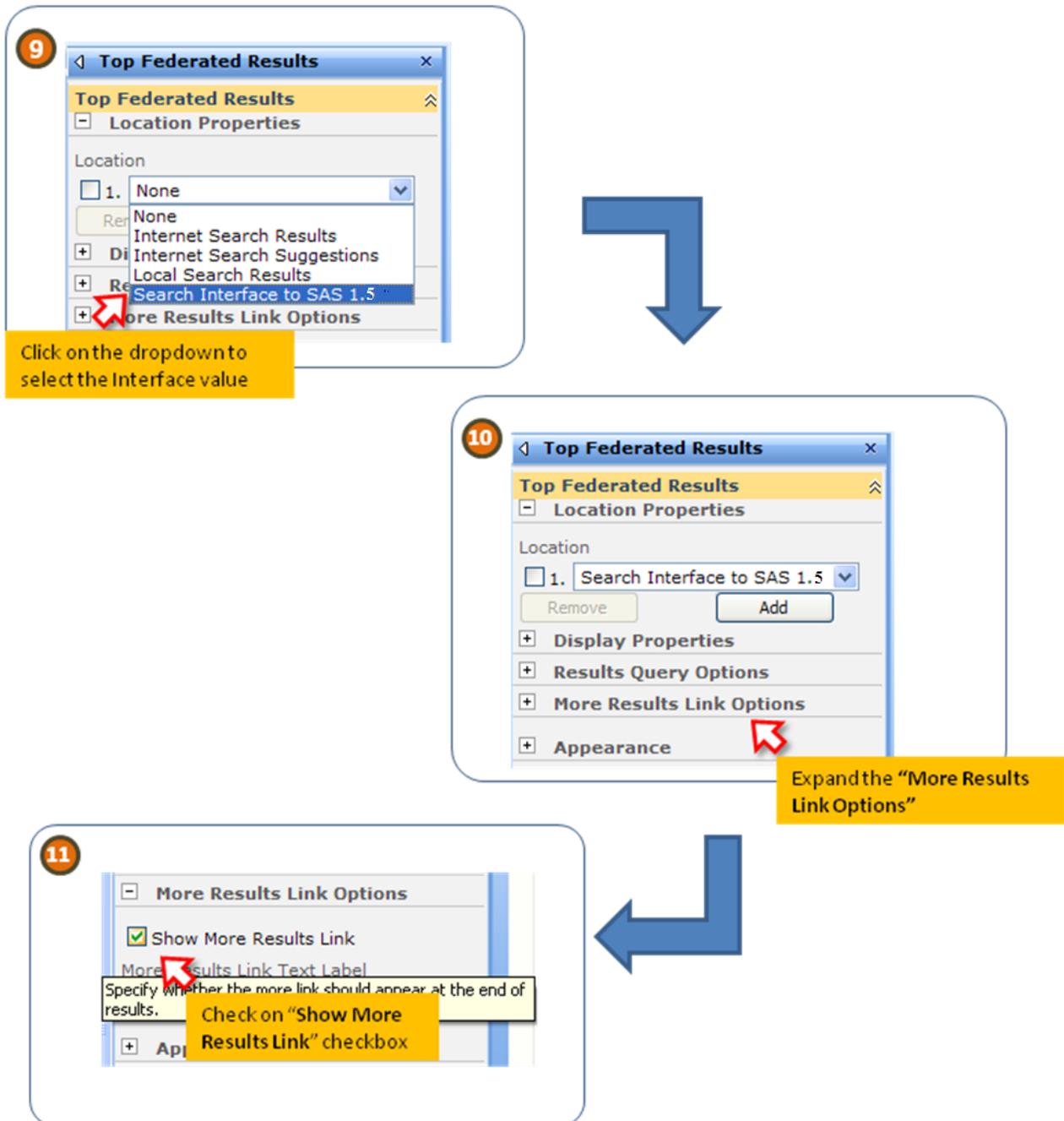
Steps 2 and 7 for adding Federated Locations in the WebPart are illustrated in the following diagram.

8. The property of Shared WebPart will be displayed in the right-hand side of the page.

9. From the Location List, Select **Search Interface to SAS 1.5**.

10. Expand the More Results Link Options.

11. Determine if the **Show More Results Link** option is selected. If not, select it.

Steps 9 to 11 for adding Federated Locations in the WebParts are illustrated in the following diagram.

12. Modify the Display Properties, if required.

13. Click **Apply** and then **OK** to continue.

14. Click **Exit Edit Mode** on the top right side of the page.

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