StageR BDC Plugin Introduction

Introduction

The StageR BDC Plugin for SharePoint 2013 and 2016 will enable both SharePoint 2013 and 2016 to absorb documents into its index through a .Net Assembly Business Data Connectivity (BDC) connector.

Features

Some of the features of the StageR Plugin include:

- Tried and tested approach of using a .Net Assembly SharePoint BDC Connector as a means of integration.
- Encapsulated functionality. SharePoint is agnostic of the underlying implementation within the plugin.
- Secure communication with StageR via SSL certificates.
- Flexible configuration of fields that are ingested into SharePoint.

Restrictions

Important limitations and assumptions of the plugin:

- Installation of the plugin requires Administrator permissions to run the deployment scripts from the SharePoint Management Shell (PowerShell).
- While a single installation of the plugin's .wsp file is necessary, a separate execution of the model deployment script is needed for each different Content Source that is published into StageR.

Architecture
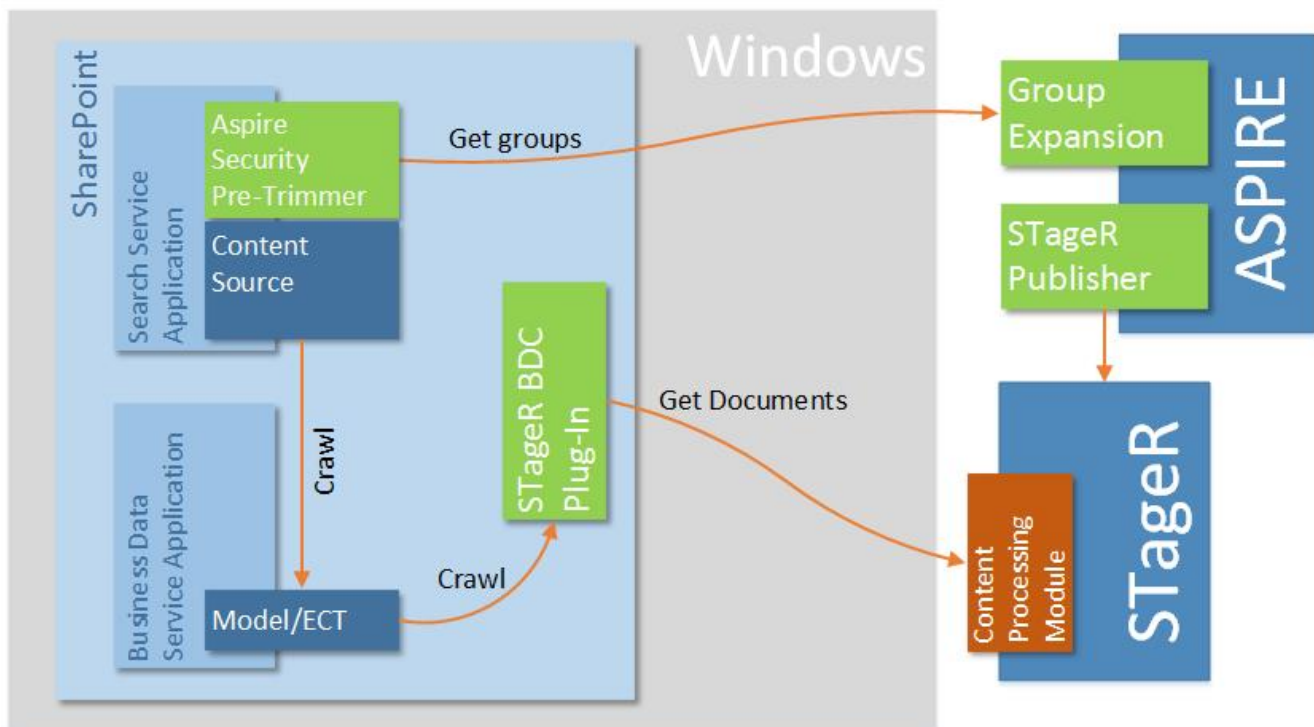
SharePoint Components

StagerBDCPlugin

The plugin is deployed as a .wsp file that gets deployed as a global farm solution. It implements the SharePoint BDC standard for custom connectors and gets executed from a SharePoint content source to extract the contents from StageR and hand them to SharePoint for indexing.

Security Trimming

Security trimming is available within SharePoint itself. To make this work, a SecurityTrimmerPre interface must be created (see SharePoint Security Pre-Trimmer 3.2).

The ISecurityTrimmerPre interface adds "claims" to the query prior to the security trimming, so it executes "pre" (prior to) the security trimmer. With the exception of *deny ACLs*, the function of the ISecurityTrimmerPre module is to always add results to the result set, rather than to remove them. In this sense, it is the opposite of a security trimmer.

> It is critical to understand that if the ISecurityTrimmerPre interface malfunctions, then you get no secure search results. (If it performed "classic" security trimming and malfunctioned, then you would get back extra unauthorized results.) On each search request, the Security Pre-Trimmer is invoked to enhance the search query with ACL information. This information is retrieved from an Aspire Group Expander (LDAP, Lotus Notes ...)