# GSA Feed "connector" using Push SDK

## The Repository

### Simple repository description

The GSA(Google search appliance) connector as two purposes, having a way to index the content of GSA Feed and to have an example of a connector that uses the Push API SDK.

The GSA feed gives the possibility to push documents with XML directly to the index.

Two types of XML documents can be given, the feed XML and the XML groups.

The lastest version is available at : corp.coveo.com\dfs  in \Softwares\Tools\GSAFeedPushConverter.zip

### An overview of the repository item/document types

The feed XML is composed of two main items, the ACL and the records, both can be grouped in groups elements to simplify the usage. The ACL are either a sub-element of a record or they have an Url to link them with a document.

The records are the equivalent of our documents. They contain many elements such as "displayurl", last-modified and can also contain metadata.

### An overview of the repository security model

The ACL can be a standalone element with an Url or a sub-element of a record. The ACL can have four inheritance type:

- Parent-overrides: We put the parent permissions in a higher level.
- Child-overrides: We put the parent permissions in a lower level.
- And-both-permit: We put the parent and the child the same level but in different sets.
- Leaf-node: The Acl should not have children, the parser will stop the inheritance if it hit a "leaf-node" as a parent.
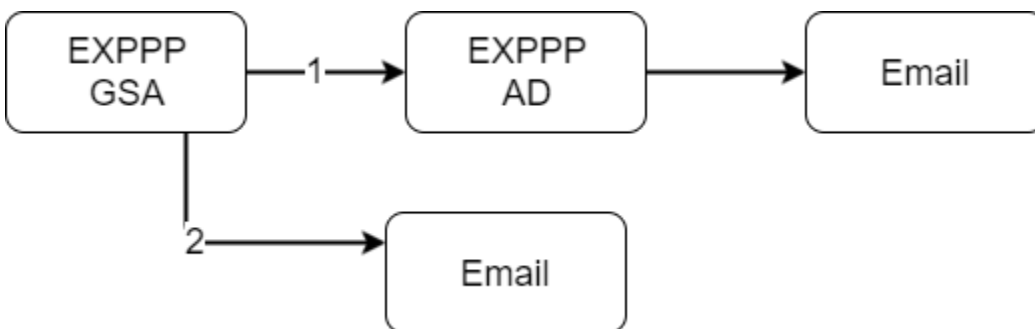


The documents in the feed are all linked to two virtual groups, one for the denied users and one for the allowed users. The members of these groups are referred as mapping so they are linked to the cascaded security provider (Case one: to another EXPPP for Active Directory. Case two: to a cloud provider like the email provider).

> **Example of config of EXPPP**

## Available Documentation

The GSA PreDeveloppement Analysis: https://docs.google.com/document/d/1HXbPaFov8DZgQnzzheOhY8zVJ1HJ6iSF3h6w3MLm_zU/edit

Feeds Protocol Developer's Guide: web version: https://www.google.com/support/enterprise/static/gsa/docs/admin/72/gsa_doc_set/feedsguide/feedsguide.html#1074265

pdf version: https://static.googleusercontent.com/media/www.google.com/en//support/enterprise/static/gsa/docs/admin/72/gsa_doc_set/feedsguide/feedsguide.pdf

GSA Connectors Developer's Guide: http://static.googleusercontent.com/media/www.google.com/en/us/support/enterprise/static/gsa/docs/admin/connectors/40/410/GSAConnectorsDeveloperGuide.pdf

GSA feed samples: https://support.google.com/gsa/answer/6069358

GSA Help: https://support.google.com/gsa#topic=2707703

## How to setup the repository

Currently, we do not have any GSA setup, so we need to used the examples from the GSA website. But, we can use the examples for the POC.

## How it works

The POC is a simple console application that opens a web server on http://localhost:19900/xmlfeed/, the same URL config as the GSA.

We are currently using Postman to make the requests to the POC. The request needs to be a POST method and contain the "feedtype" and the "datasource" in parameters. The easiest way to send the feed is with XML files that contain the feed and send it as a binary body of the POST request.

## Item Types

| Name | Description | Sub Item Types |
|------|-------------|----------------|
| Record | The GSA version of the Coveo documents | They can have metadata and ACL |
| ACL | The permissions for the documents(sub-item of record or contain a link to the related resource. | |

The complete DTD for the XML of GSA Feed:

> **Structure of XML Feed**

## What's New / Change Log

This table contains the new stuff/bug fixes. Each merged user story should have an entry here.

| ChangeSet | Description | CES Version | Reviewed By | TP/Mantis | Unit Test |
|-----------|-------------|-------------|-------------|-----------|-----------|
| TODO: Fill this... | TODO: Fill this... | TODO: Fill this... | TODO: Fill this... | TODO: Fill this... | TODO: Fill this... |

## Known Bugs / Limitations

| Key | Summary | T | Created | Updated | Due | Assignee | Reporter | P | Status | Resolution |
|-----|---------|---|---------|---------|-----|----------|----------|---|--------|------------|
| CT-2755 | Productize the GSA offer | | May 15, 2017 | Jul 13, 2017 | | Unassigned | Matthieu Theriault | | ON HOLD | |

1 issue

## Nice-to-Have Features (from a developer perspective)

**TODO >** Add some parameter