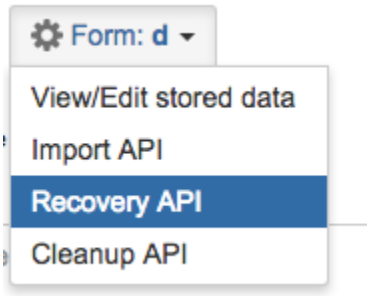
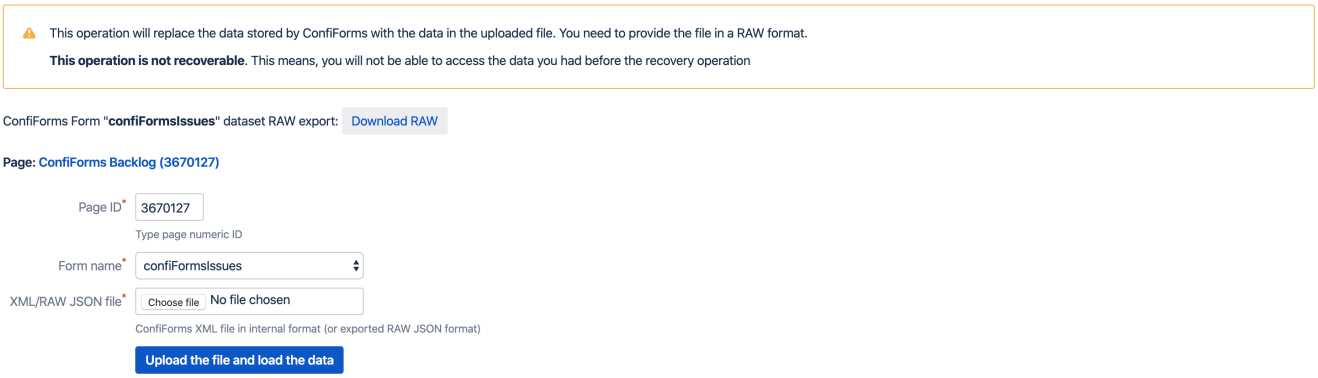
Migration and Recovery API

Generally available for ConfiForms form administrators with **Confluence admin permissions** and for users who are **Confluence space admins of the space where this form is located**

Manual process



You are presented with a screen similar to this



Uploading the data into the form will replace existing data. No IFTTT rules will be executed

Use case on Recovery API - How to copy the data from one form to another with the same structure

Automation

We have developed a simple Java based script that downloads the data in a RAW format from the source server/page and attempts to upload it to the target server

Script is pretty simple and all you have to do is to set the following properties

```
 // source server details and source form name and location
static String sourceServer = "https://wiki.vertuna.com/";
static String sourceFormName = "form1";
static long sourcePageId = 64063006;
static String sourceServerUsername = "";
static String sourceServerPassword = "";

// target server details and target form name and location
static String targetServer = "http://localhost:1990/confluence/";
static String targetFormName = "form1";
static long targetPageId = 786437;
static String targetServerUsername = "";
static String targetServerPassword = "";
```

Full listing of the script (same as in the zip file linked earlier)

```
package com.vertuna.plugins.confluence.migration;

import org.apache.commons.codec.binary.Base64;
import org.apache.commons.httpclient.HttpClient;
import org.apache.commons.httpclient.HttpMethod;
import org.apache.commons.httpclient.URI;
import org.apache.commons.httpclient.UsernamePasswordCredentials;
import org.apache.commons.httpclient.auth.AuthScope;
import org.apache.commons.httpclient.methods.GetMethod;
import org.apache.commons.httpclient.methods.PostMethod;
import org.apache.commons.httpclient.methods.multipart.FilePart;
import org.apache.commons.httpclient.methods.multipart.MultipartRequestEntity;
import org.apache.commons.httpclient.methods.multipart.Part;
import org.apache.commons.httpclient.methods.multipart.StringPart;
import org.apache.commons.io.FileUtils;

import java.io.File;
import java.io.IOException;
import java.util.logging.Level;

public class MigrateFormData {
  // source server details and source form name and location
  static String sourceServer = "https://wiki.vertuna.com/";
  static String sourceFormName = "form1";
  static long sourcePageId = 64063006;
  static String sourceServerUsername = "";
  static String sourceServerPassword = "";

  // target server details and target form name and location
  static String targetServer = "http://localhost:1990/confluence/";
```

```
  static String targetFormName = "form1";
  static long targetPageId = 786437;
  static String targetServerUsername = "";
  static String targetServerPassword = "";

  public static void main(String[] args) throws IOException {
    // no logging from http client
    java.util.logging.Logger.getLogger("org.apache.commons").setLevel(Level.OFF);

    File confiformsExportFile = File.createTempFile("confiforms", "");
    confiformsExportFile.deleteOnExit();

    try {
      String sourceUrl = sourceServer + "/ajax/confiforms/rest/raw.action?pageId=" + sourcePageId + "&fd=" +
sourceFormName + ":" + sourcePageId;
      System.out.println("Requesting source: " + sourceUrl);
      byte[] rawExportContents = makeRequest(sourceUrl, sourceServerUsername, sourceServerPassword, url -> new
GetMethod(url));
      FileUtils.writeByteArrayToFile(confiformsExportFile, rawExportContents);

      String targetUrl = targetServer + "/ajax/confiforms/rest/raw.action";
      System.out.println("Uploading to: " + targetUrl);

      makeRequest(targetUrl, targetServerUsername, targetServerPassword, url -> {
        Part[] parts = new Part[4];
        parts[0] = (new StringPart("pageId", String.valueOf(targetPageId)));
        parts[1] = (new StringPart("subAction", "replace"));
        parts[2] = (new StringPart("fd", targetFormName + ":" + targetPageId));
        parts[3] = (new FilePart("rawFile", confiformsExportFile));

        PostMethod m = new PostMethod(url);
        m.setRequestEntity(new MultipartRequestEntity(parts, m.getParams()));
        return m;
      });
  } finally {
    confiformsExportFile.delete();
  }
  System.out.println("Done");
}

interface PrepareMethodCallback {
  HttpMethod prepare(String url) throws IOException;
}

public static byte[] makeRequest(String url, String username, String password, PrepareMethodCallback
prepareMethodCallback) throws IOException {
  HttpClient client = new HttpClient();
  client.getState().setAuthenticationPreemptive(true);
  client.getState().setCredentials(AuthScope.ANY, new UsernamePasswordCredentials(username, password));

  HttpMethod m = prepareMethodCallback.prepare(url);
  try {
    m.addRequestHeader("Accept", "application/json");

    String encodedAuth = new String(Base64.encodeBase64((username + ":" + password).getBytes()));
    m.addRequestHeader("Authorization", "Basic " + encodedAuth);
    m.setDoAuthentication(true);

    int responseCode = client.executeMethod(m);
    if (responseCode == 301 || responseCode == 302) {
      String location = m.getResponseHeader("Location").getValue();
      m.setURI(new URI(location, false));
      responseCode = client.executeMethod(m);
      if (responseCode == 200 || responseCode == 201 || responseCode == 202 || responseCode == 204) {
        return m.getResponseBody();
      }
    } else {
      if (responseCode == 200 || responseCode == 201 || responseCode == 202 || responseCode == 204) {
        return m.getResponseBody();
      }
      throw new IOException("Requested to " + url + " has resulted in error. Response code = " + responseCode +
```

```
". Response contents: " + m.getResponseBodyAsString());
    }
  } finally {
    m.releaseConnection();
  }
  throw new IOException("Cannot complete request to " + url);
  }
}
```

And the following dependencies are configured in the maven pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>

<groupId>com.vertuna.plugins.confluence</groupId>
<artifactId>confiforms-data-migration</artifactId>
<version>1.0</version>

<properties>
<maven.compiler.source>8</maven.compiler.source>
<maven.compiler.target>8</maven.compiler.target>
</properties>

<repositories>
<repository>
<id>atlassian-public</id>
<url>https://maven.atlassian.com/maven-external</url>
<snapshots>
<enabled>true</enabled>
<updatePolicy>never</updatePolicy>
<checksumPolicy>warn</checksumPolicy>
</snapshots>
<releases>
<enabled>true</enabled>
<checksumPolicy>warn</checksumPolicy>
</releases>
</repository>
<repository>
<id>maven-atlassian-com</id>
<name>Atlassian Public Repository</name>
<url>https://packages.atlassian.com/maven/public</url>
</repository>
</repositories>

<dependencies>
<dependency>
<groupId>commons-httpclient</groupId>
<artifactId>commons-httpclient</artifactId>
<version>3.1-atlassian-2</version>
</dependency>
<dependency>
<groupId>commons-lang</groupId>
<artifactId>commons-lang</artifactId>
<version>2.6</version>
</dependency>
<dependency>
<groupId>commons-io</groupId>
<artifactId>commons-io</artifactId>
<version>2.6</version>
</dependency>
</dependencies>

</project>
```

How to run/execute this

You will need Apache Maven (https://maven.apache.org/download.cgi) and Java installed on your computer, then navigating to the directory where the pom.xml file is located, via command prompt, you will need to type the following commands

```
mvn compile
mvn exec:java -Dexec.mainClass=com.vertuna.plugins.confluence.migration.MigrateFormData
```