



## Riva Integration Components

Riva provides a flexible set of tools to help you move information between Riva and other applications. The components allow you to leverage your existing sources of data, eliminate duplicate data entry and unify disparate data sources into an enterprise view of your assets.

This document describes the:

- Import Wizard
- Asset Synchronization
- Excel export
- SAP Integration
- GIS Integration
- External Data Sources
- File Import and Export Mapping component

## Import Wizard

The Import Wizard allows Riva to bring in data from most structured flat files. This includes importing your assets, attributes, inspection and measures.

It allows you to preview the file as you set your options and ensure the data will flow in properly.

Riva will automatically add attributes

as you are importing them and link them to your asset type definitions. This includes numbers, text, dates and multiple choice lists.

### Import File

Source File

C:\Users\jwoodbury\Documents\Mains.txt Browse...

**Upload**

### Import File

Source File  
c:\users\jwoodbury\documents\mains.txt

**File Preview**

Parent	Name	Title	Type	Code	InstallDate
MDC	Watermains	Watermains	Watermains	Group	Watermains
Watermains	CI	CI	Group	CI	
Watermains	UNK	UNK	Group	UNK	
Watermains	CU	CU	Group	CU	

**Import Type**

Import Entities  
 Import Inspections  
 Import Relation  
 Import Response Choice  
 Import Response Memo  
 Import Response Number  
 Import Response Text  
 Import Values

**Import Options**

Has headers on the first row

yes  
 no

**Delimiter**

[tab]  
 [pipe]  
 [comma]  
 other

**Next**

### Import Preview

Parent	Name	Title	Type	Code	Active Date
CU	GIS3078778	GIS3078778	Watermain	GIS3078778	2016-01-01
CU	GIS3076834	GIS3076834	Watermain	GIS3076834	1967-01-01
CU	GIS3076835	GIS3076835	Watermain	GIS3076835	1967-01-01
CU	GIS3076836	GIS3076836	Watermain	GIS3076836	1967-01-01
CU	GIS3082596	GIS3082596	Watermain	GIS3082596	1967-01-01
UNK	GIS3300003	GIS3300003	Watermain	GIS3300003	1987-01-01
CI	GIS3300047	GIS3300047	Watermain	GIS3300047	1970-01-01
CI	GIS3300052	GIS3300052	Watermain	GIS3300052	1970-01-01
CI	GIS3300054	GIS3300054	Watermain	GIS3300054	1970-01-01
DI	GIS3306022	GIS3306022	Watermain	GIS3306022	1998-01-01
DI	GIS3306023	GIS3306023	Watermain	GIS3306023	1998-01-01
DI	GIS3306031	GIS3306031	Watermain	GIS3306031	1998-01-01
DI	GIS3307044	GIS3307044	Watermain	GIS3307044	2003-01-01
DI	GIS3307045	GIS3307045	Watermain	GIS3307045	2003-01-01

**Back Next**

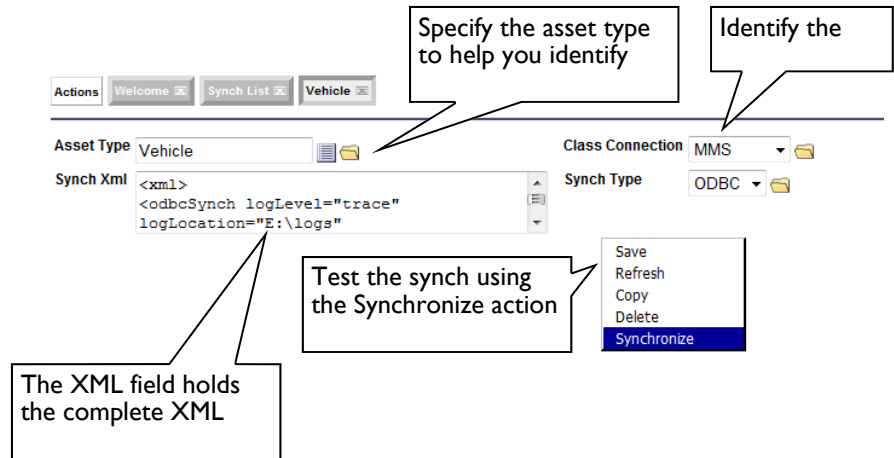
## Asset Synchronization

The most common synchronization component is the Asset Synch. This component allows you to synchronize the contents of Riva from almost any data source. That includes most Maintenance Management Systems, data warehouses, departmental applications and even spreadsheets and local MS Access databases.

The flexible structure allows you to align the contents of a data source with one Asset Type in Riva. The component will then keep the two in synch so that the information in Riva directly leverages your operational applications.

You can build and test your synchronization interactively and then turn it into an automated process. After that

it will run automatically in the background based on the schedule you set.



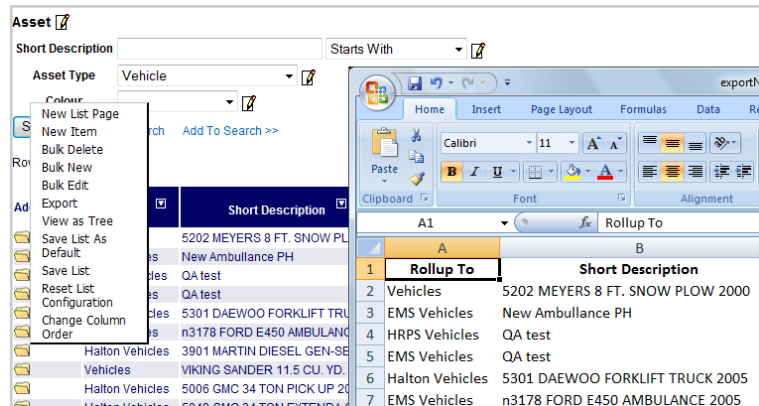
The screenshot shows the 'Vehicle' configuration window for an Asset Synch. Callouts highlight the following features:

- Specify the asset type to help you identify:** Points to the 'Asset Type' dropdown menu set to 'Vehicle'.
- Identify the:** Points to the 'Class Connection' dropdown menu set to 'MMS'.
- Test the synch using the Synchronize action:** Points to the 'Synchronize' button in the context menu.
- The XML field holds the complete XML:** Points to the 'Synch Xml' text area containing the following XML:
 

```
<xml>
<odbcSynch logLevel="trace"
logLocation="E:\logs"
```

## Excel Export

All search lists and reports support direct export to Excel file format as well as delimited text formats and XML format. This provides you with your data in a form that can readily be manipulated and formatted to meet any needs. It also makes it easy to pull data out of Riva for loading into other systems.



The screenshot shows the 'Asset' search list window with an Excel export window open. The export window displays a table with the following data:

Rollup To	Short Description
1	Rollup To
2	Vehicles 5202 MEYERS 8 FT. SNOW PLOW 2000
3	EMS Vehicles New Ambulance PH
4	HRPS Vehicles QA test
5	EMS Vehicles QA test
6	Halton Vehicles 5301 DAEWOO FORKLIFT TRUCK 2005
7	EMS Vehicles n3178 FORD E450 AMBULANCE 2005

## SAP Integration

Riva provides integration components that will allow you to pull in information from SAP Plant Management (SAP PM) and SAP Asset Accounting (SAP AA). It also provides outbound messaging to SAP AA to create and update assets in the accounting module.

This integration leverages the SAP

iDocs messaging structures. This scalable and low cost integration strategy has a proven track record for enterprise implementations. It also has the flexibility to adjust to differences between organizations, so that the appropriate information can be passed.

The integration includes staging tables that build a representation of the most recent state of the SAP applications. This, combined with special activity reports can keep SAP and Riva in Synch.



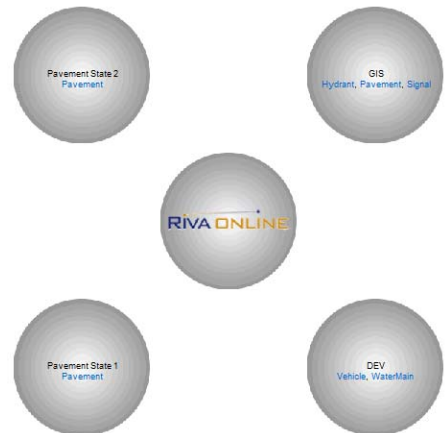
## GIS Integration

Riva provides a full, integrated GIS browser. It interacts directly with our lists so you can view the results of searches on a map as well as in a table.

Riva can connect directly to your cor-

porate GIS server to pull the latest GIS information. It can read this information to build a map like the one below, or to populate the attributes you need in Riva, like the length or a road or the area of a park.

You can also use the Riva thematic mapper to build and save thematic maps, illustrating where your assets are in the worst condition, or where you are spending the most money.



## External Data Sources and the Link Manager

Riva allows you to link to data in any number of external databases. These links can be used to execute synchro-

nizations, run queries, build reports or update values. The Link Manager helps you keep track of those external

data sources and see how they are being used within your configured Riva application.

## File Import and Export

For more complex integrations to file formats, like EDI, custom XML, formatted documents and other message structures, Riva provides a full file import and export mapping utility. It allows you to define the sections

and elements in a file format and then either read them into Riva or construct the file from data in Riva.

This utility includes a map creation and testing interface that generates the XML-based maps. The finished

definitions can be run as background processes in the Riva process engine to enable the movement of large data volumes.