

# Accounting Linker

The Accounting Linker is used to bulk-link Manitou information to accounting systems. Currently this is used only to perform the final step of the "offline linking" option of the Sedona Linker (please see the Sedona Linker documentation for further details of this). This final step will make the actual database updates to physically link the accounts. Note that this program can also be used to unlink accounts if so desired.

This program utilizes the Manitou REST API to perform the updates, which will invoke the Router to make the appropriate updates to the accounting data. Because the REST API is utilized, this program can be run from any machine that can access the API.

Any billable monitoring service information in Manitou should be configured prior to running the Accounting Linker. The Linker updates the Manitou customer A/R information which kicks off the updates to the accounting system, including creating recurring if so optioned.

When the program is first run, the form is displayed as follows:

Accounting Linker

**Manitou Connection Configuration**

User Name:

Password:

Login Type:  Manitou User  BoldNet User

API URL:

Safe Host (bypass certificate verification)  Save credentials

**Sedona Connection Configuration**

User Name:

Password:

API URL:

**File To Process**

Test Only

**Results Log:**

Manitou SerialNo	A/R Number	Message

Current Operation:

If this program has been run on the machine before, the last-saved connection information will be populated. The connection information and file to process must be validated before the Process button will be enabled.

## Manitou Connection Configuration

Enter the **User Name/Password** to be used as the login for the API requests. The user must have sufficient permissions to make the updates for the customers to be linked, otherwise the requests will be rejected.

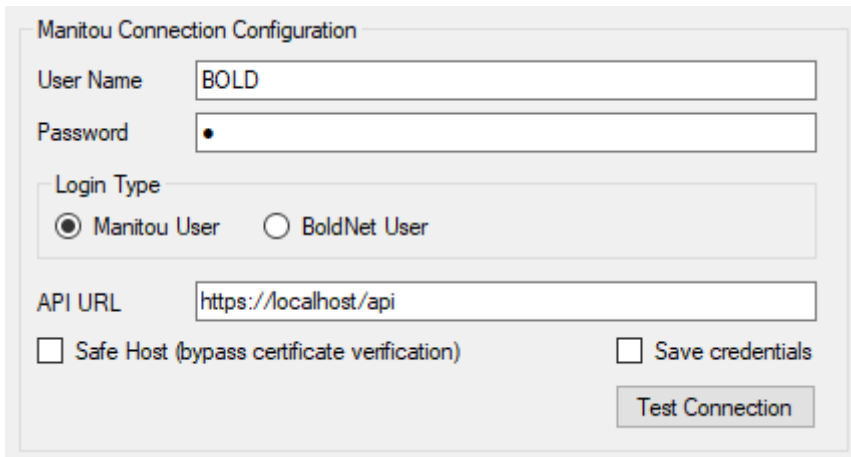
**Login Type** specifies if the user is a regular Manitou user or a BoldNet user. A BoldNet user must be at the monitoring company level to use the Linker.

**API URL** specifies the URL of the Manitou REST API. A trailing slash ('/') should not be included here.

**Safe Host** allows bypassing of certificate verification. If this is enabled, BE CERTAIN the correct server is being accessed - this is a security risk!

**Save Credentials** will store validated connection information for use the next time the program is run on the same machine (the connection information will be pre-populated with the saved information).

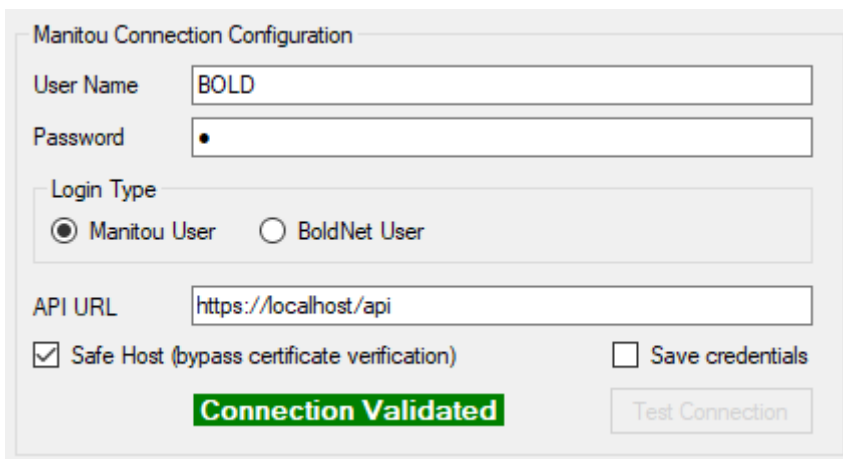
When any of these fields are changed (except Safe Host and Save Credentials), and all fields have been populated, the Test Connection button becomes enabled:



The screenshot shows a dialog box titled "Manitou Connection Configuration". It contains the following fields and controls:

- User Name: Text box containing "BOLD"
- Password: Password field with a single dot
- Login Type: Radio buttons for "Manitou User" (selected) and "BoldNet User"
- API URL: Text box containing "https://localhost/api"
- Safe Host (bypass certificate verification): Unchecked checkbox
- Save credentials: Unchecked checkbox
- Test Connection: Enabled button

**Test Connection** will validate that the entered information is satisfactory. If an error is encountered, it will be displayed and the connection information must be corrected before continuing. If the connection information is satisfactory, the "validated" banner is shown:



The screenshot shows the same dialog box as above, but with the following changes:

- Safe Host (bypass certificate verification): Checked checkbox
- Save credentials: Unchecked checkbox
- Connection Validated: A green banner with white text is displayed at the bottom left.
- Test Connection: Disabled button (greyed out)

## Sedona Connection Configuration

The intention is to ultimately use the Router for all accounting updates, but currently there are some updates that must be made directly via the Sedona API.

Sedona Connection Configuration

User Name

Password

API URL

You will need a valid SedonaCloud user and your company endpoint.

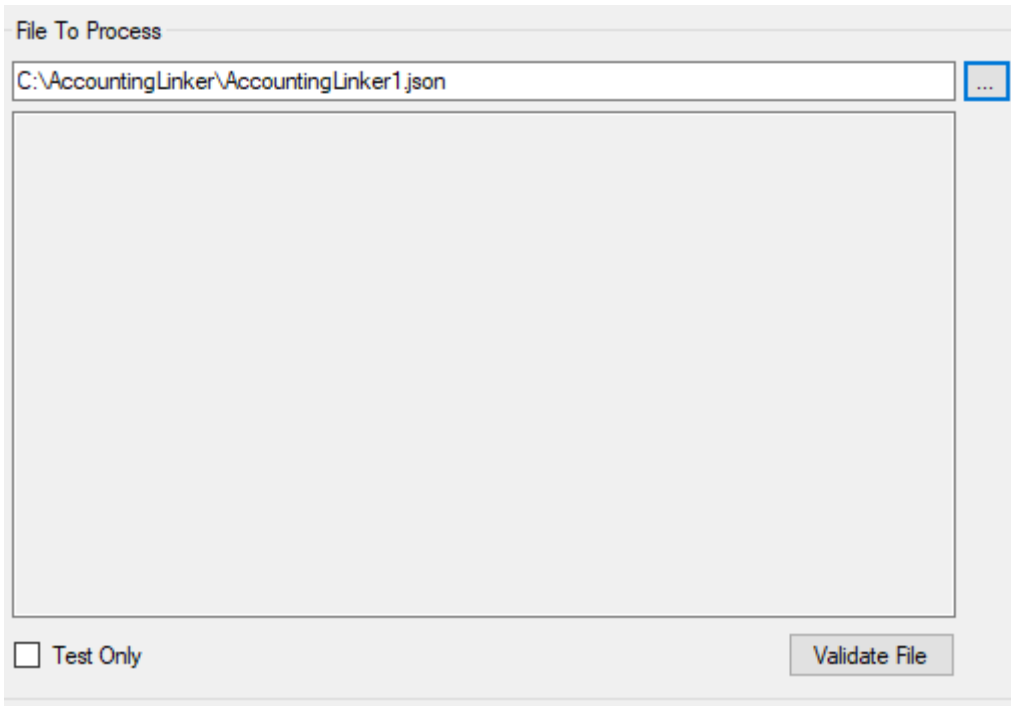
This section is populated and validated in the same manner as the Manitou Connection Configuration.

## File To Process

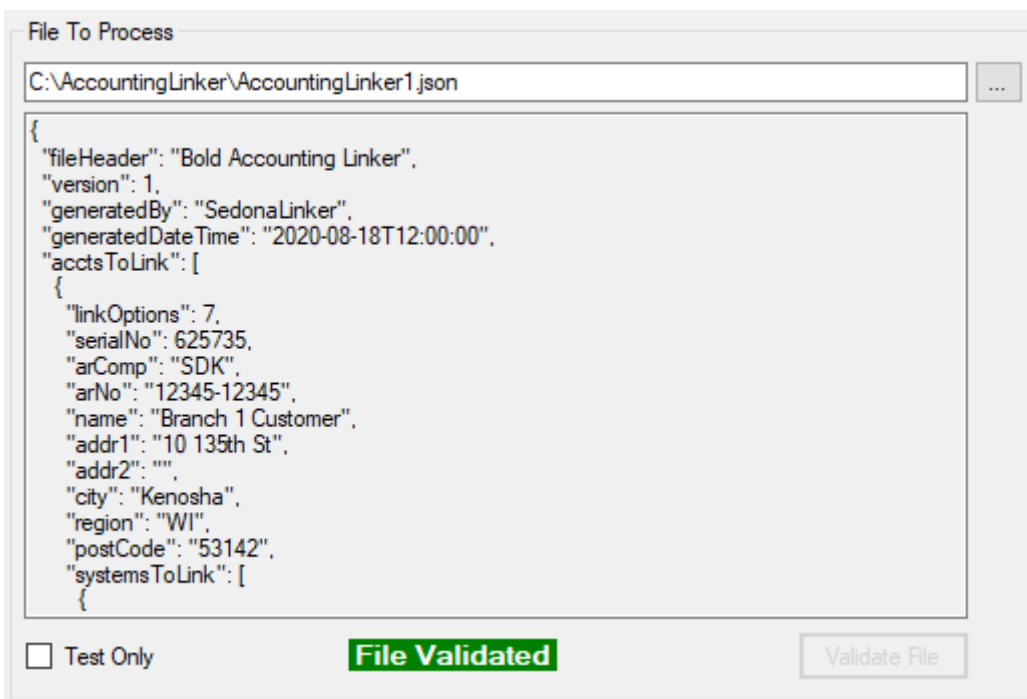
File To Process

Test Only

**File To Process** must be a JSON file formatted to the specifications of the Accounting Linker (see below). The Sedona Linker offline linking output file will be in the proper format. Once a file is specified, the Validate File button becomes enabled:



**Validate File** will ensure that the file is formatted appropriately. If not, an error will be displayed and a different file must be selected before continuing. If the file is formatted as expected, the contents of the beginning of the file are shown for reference and the "validated" banner is shown:



**Test Only** can be enabled to perform a test run of the Linker to check for blatant errors in the file, such as Manitou accounting companies or customers that do not exist. As no database updates will be attempted, there are only a limited number of errors that can be reported.

## Process Linking

Once the connection information and file to process have been validated, the Process button becomes enabled. During processing, **Current Operation** shows the current operation being performed, and linking results are added to the **Results Log**. When processing is finished, the results are written to <FileToProcess>LinkResults.txt in the same folder as the source JSON file. If any customers could not be linked due to an error, those entries are written to <FileToProcess>Reprocess.json, also in the same folder as the source JSON file. If it is possible to resolve any or all of the error conditions, the Reprocess file can be specified as the file to process after the errors are resolved, providing an easy way to re-attempt linking of previously failed customers.

## Linker File Format

Although the Sedona Linker will most easily produce the desired output, the file can be created by any means as long as it is in the expected JSON format. Following is an example and the specifications.

```
{
  "fileHeader": "Bold Accounting Linker",
  "version": 1,
  "generatedBy": "SedonaLinker",
  "generatedDateTime": "2020-08-18T12:00:00",
  "terminateRecurringDate": "2020-09-21T00:00:00",
  "useServiceStart": false,
  "acctsToLink": [
    {
      "linkOptions": 7,
      "serialNo": 625735,
      "arComp": "SDK",
      "arNo": "12345-12345",
      "name": "Branch 1 Customer",
      "addr1": "10 135th St",
      "addr2": "",
      "city": "Kenosha",
      "region": "WI",
      "postCode": "53142",
      "systemsToLink": [
        {
          "systemNo": 1,
          "systemId": "Sys ID",
          "systemDescr": "System description"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "systemNo": 2,
      "systemId": "Sys ID 2",
      "systemDescr": "System description 2"
    }
  ]
},
{
  "linkOptions": 7,
  "serialNo": 625736,
  "arComp": "SDK",
  "arNo": "12346-12346",
  "name": "Customer A of Branch 1",
  "addr1": "55 147th St",
  "addr2": "",
  "city": "Kenosha",
  "region": "WI",
  "postCode": "53142",
  "systemsToLink": [
  ]
}
]
}

```

**fileHeader** must be exactly as shown.

**version** number is not currently validated against anything, but may be in the future.

**generatedBy** is for reference only.

**generatedDateTime** is for reference only.

**terminateRecurringDate** contains the corresponding entry from the Sedona Linker.

**useServiceStart** contains the corresponding entry from the Sedona Linker.

**acctsToLink** must contain the list of accounts to be linked.

**linkOptions** is a bit-coded value as follows:

Bit 0: 1 = Link, 0 = Unlink (all other bits ignored)

Linking will add the specified A/R company and number to the Manitou customer. This will cause Manitou to perform the same functionality as if the A/R information were manually added in the client. The functionality actually performed depends on the destination accounting system and the options specified in Manitou's accounting company setup.

Unlinking will remove any existing A/R information from the Manitou customer. This will cause Manitou to perform the same functionality as if the A/R information were manually removed in the client. The functionality actually performed depends on the destination accounting system and the options specified in Manitou's accounting company setup.

Bit 1: 1 = Sync name/address information, 0 = Don't sync

Syncing will first update Manitou with the name and address information supplied in the file. The accounting side will then be updated according to the options specified in Manitou's accounting company setup, so the file's name/address may or may not ultimately get propagated to accounting.

**serialNo** is the serial number of the Manitou customer.

**arComp** is the accounting company to be assigned to the customer. This company must already be defined in Manitou's accounting company setup.

The setup options of the company will be followed during the linking process.

**arNo** is the accounting number to be assigned to the customer.

**name, addr1, addr2, city, region, postcode** contain the name and address information of the customer.

**systemsToLink** contains the list of the customer's systems to be included in the linking process. The list can be empty.

**systemNo** is the Manitou system number.

**systemId** is the system ID from the accounting system. This is written to the Manitou system as the system link.

**systemDescr** is the system description from the accounting system. This is written to the Manitou system as the description of the linked system.

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Created Tue, Oct 20, 2020 9:10 PM by Scott Bourdeau

Updated Mon, Apr 19, 2021 4:10 PM by Toby Prescott