



# Boundless Integrations

The Boundless Integrations REST API Adapter provides a REST-style interface to IBM Sterling B2B Integrator. The functionality it provides will handle all use cases of the existing XAPI interfaces plus missing functionality.

## Prerequisites:

- Install 3<sup>rd</sup> Party Vendor JAR: `boundless_integrations_core.jar`. Available free with first Boundless Integrations license
- `BoundlessIntegrations.properties.in`: Available with any Boundless Integrations license (reminder: run `setupfiles(.sh or .cmd)` after placing in the properties directory of each node)
- Make note of any hot fixes currently installed and make sure to have a copy of the jar file available

## Installation:

- Download `RestAPI_Adapter_1020402.0.0.jar`: After purchasing the REST API Adapter license, the jar file will be available for download
- Generate, download, and place `BoundlessIntegrations.properties_restapi_ext.in` file into the properties directory of each node
- Stop B2Bi Node(s)
- Place in a location accessible to each node and run `bin/installService(.sh or .cmd)`
- Reapply latest hot fix (as installing new services will remove any hot fixes)
- If on a cluster environment, perform the previous two steps on all nodes before running `bin/startCluster #` (where # is the node number) starting with Node 1.
- Check `properties/lang/en` directory for `RestAPI_Adapter_en.properties` file. If not present, download and copy to that directory. If other languages are available, you may do the same copy to the appropriate language directory for the appropriate language properties file.
- Start B2Bi Node(s)
- Configure at least one REST API Adapter within B2Bi (see below)

## License Update:

- If manually paying for the next year's maintenance, do so.
- After payment has been received (whether automatic or manual), generate, download, and place `BoundlessIntegrations.properties_restapi_ext.in` file into the properties directory of each node.
- Run `bin/setupfile(.sh or .cmd)`.
- Either bounce each node or execute `BNDINT_RefreshCache` Business Process.

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## Configure REST API Adapter:

- Port: The port where the REST API Adapter listens on the Node or AC

## HTTP Methods Supported:

- GET: Search for one or more entities
- PUT: Create an new entity
- POST: Update an existing entity (will not create if it does not exist)
- DELETE: Delete an existing entity (will return 404 if it does not exist)
- HEAD: Performs a GET and returns only the HTTP Headers
- OPTIONS: Returns XML showing URI and Request in XML format
- TRACE: Returns the request body as the response body

## Authentication and Authorization:

Basic authentication is required. If basic authentication is not provided, a 401 response code is returned. Credentials are validated against B2Bi. If the credentials are not for a super user account, permission is checked against B2Bi for a permission matching the RESTAPI\_<ENTITY>\_<METHOD> format (i.e. RESTAPI\_MAILBOX\_GET). Credentials without permission will get a 403 response code.

## URI's (Entity):

- /Mailbox[/<id>[/<subRequest[/subRequestValue]]]:
  - id: Numeric Mailbox ID (not provided or 0 for all)
  - subRequest: Optional modifier for GET requests
    - PathQuery: subRequestValue is part of the Mailbox Path
    - VirtualRootUser: subRequestValue is a B2Bi user account
    - Children: Include child mailboxes for specific Mailbox
    - VirtualRoots: Include virtual root users for specific Mailbox
    - RoutingRules: Include routing rules for specific Mailbox
    - Messages: Include all messages for specific Mailbox
- /VirtualRoot[/<id>[/<subRequest[/subRequestValue]]]:
  - id: Virtual Root User Account (not provided or + for all)
  - subRequest: Optional modifier for GET requests
    - PathQuery: subRequestValue is the absolute Mailbox Path
    - MailboxId: subRequestValue is a MailboxId
    - User: Include user information for specific Account
    - Mailbox: Include mailbox information for specific Account
  - NOTE: A credential which has a virtual root overrides <id>



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- /RoutingRule[/<id>[/<subRequest[/subRequestValue]]]:
  - id: Routing Rule ID (not provided or + for all)
  - subRequest: Optional modifier for GET requests
    - PathQuery: subRequestValue is the relative Mailbox Path
    - MailboxId: subRequestValue is a MailboxId
  - NOTE: A credential which has a virtual root is limited to those mailboxes.
- /Message[/<id>[/<subRequest[/subRequestValue]]]:
  - id: Message ID (not provided or 0 for all)
  - subRequest: Optional modifier for GET and POST requests
    - PathQuery: subRequestValue is the relative Mailbox Path (GET)
    - VirtualRootUser: subRequestValue is a B2Bi user account (GET)
    - Extractable: subRequestValue is true/false for extractability (GET)
    - MessageName: subRequestValue is a name pattern to match (GET)
    - MessageBody: Include Message Body for specific Message (GET)
    - Document: Returns actual document instead of metadata (GET)
    - ExtractBegin: subRequestValue is true/false to commit now (POST)
    - ExtractCommit: Commits a previous ExtractBegin (POST)
    - ExtractAbort: Aborts a previous ExtractBegin (POST)



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## Request and Response bodies:

### Mailbox Request (PUT, POST):

```
<mailbox>
  <relativePath>[Relative Mailbox Path for user]</relativePath>
  <description>[Description of Mailbox]</description>
  <mailboxType>[Regular, Shared, or Linked]</mailboxType>
  <linkedTo>[Absolute Mailbox Path]</linkedTo>
</mailbox>
```

### Mailbox Response (GET with specific <id>, PUT, POST):

```
<mailbox>
  <id>[Long Integer identifying a unique Mailbox]</id>
  <description>[Description of Mailbox]</description>
  <nodeName>[Name of Mailbox within Parent Mailbox]</nodeName>
  <mailboxType>[Regular, Shared, or Linked]</mailboxType>
  <linkedTo>[Absolute Mailbox Path for a Linked Mailbox]</linkedTo>
  <parentId>[Long Integer identifying Parent Mailbox]</parentId>
  <parentPath>[Relative Path of Parent Mailbox]</parentPath>
  <relativePath>[Relative Path of Mailbox]</relativePath>
  <lastModifiedDate>[Date and Time last modified]</lastModifiedDate>
  <children>
    <childMailbox>
      <id>[Long Integer identifying Child Mailbox]</id>
      <nodeName>[Node Name of Child Mailbox]</nodeName>
    </childMailbox>
  </children>
  <virtualRoots>
    <virtualRoot>
      <userId>[User ID where this Mailbox is a virtual root]</userId>
    </virtualRoot>
  </virtualRoots>
  <routingRules>
    <routingRule>
      <id>[String ID representing a unique Routing Rule]</id>
      <description>[Description of Routing Rule]</description>
      <namePattern>[Pattern to select messages for rule]</namePattern>
    </routingRule>
  </routingRules>
  <messages>
    <message>
      <id>[Long Integer uniquely identifying a Message]</id>
      <messageName>[Name of Message]</messageName>
      <size>[Document Size]</size>
      <createDateTime>[Date and Time Document stored]</createDateTime>
      <contentType>[Content Type of Message]</contentType>
      <createUser>[User Account that created the Message]</createUser>
      <isExtractable>[Logical indicating Message is available]</isExtractable>
    </message>
  </messages>
</mailbox>
```



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## Mailbox Response (GET with no or 0 <id>):

```
<mailboxList>
  <mailox>[See above]</mailbox>
</mailboxList>
```

## Mailbox Response (DELETE):

```
<mailbox />
```

## Virtual Root Request (PUT, POST):

```
<virtualRoot>
  <mailboxPath>[Absolute Mailbox Path for Virtual Root]</mailboxPath>
</virtualRoot>
```

## Virtual Root Response (GET with specific <id>, PUT, POST):

```
<virtualRoot>
  <userId>[User ID where the associated Mailbox is the virtual root]</userId>
  <mailboxPath>[Mailbox Path]</mailboxPath>
  <user>
    <fullName>[Full Name of User Account]</fullName>
    <firstName>[First Name of User Account]</firstName>
    <lastName>[Last Name of User Account]</lastName>
    <email>[Email Address of User Account]</email>
    <pager>[Pager of User Account]</pager>
    <entityId>[Entity associated to User Account]</entityId>
    <language>[Language selection of User Account]</language>
    <parentId>[Parent ID associated to User Account]</parentId>
  </user>
  <mailbox>
    <id>[Long Integer uniquely identifying the Mailbox]</id>
    <description>[Description of Mailbox]</description>
    <mailboxType>[Regular, Shared, or Linked]</mailboxType>
    <nodeName>[Name of Mailbox within Parent Mailbox]</nodeName>
    <linkedTo>[Absolute Mailbox Path for a Linked Mailbox]</linkedTo>
    <lastModifiedDate>[Date and Time last modified]</lastModifiedDate>
  </mailbox>
</virtualRoot>
```

## Virtual Root Response (GET with no or + <id>):

```
<virtualRootList>
  <virtualRoot>[See above]</virtualRoot>
</virtualRootList>
```

## Virtual Root Response (DELETE):

```
<virtualRoot />
```



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## Routing Rule Request (PUT, POST):

```
<routingRule>
  <ruleName>[Unique Rule Name]</ruleName>
  <automaticRule>[Evaluate Rule Automatically: true/false]</automaticRule>
  <businessProcess>[Name of Business Process to execute]</businessProcess>
  <contractId>[Contract ID to execute]</contractId>
  <contractName>[Contract Name to execute]</contractName>
  <runAsUser>[Credentials to execute under]</runAsUser>
  <namePattern>[Message Name Pattern to monitor]</namePattern>
  <mailboxes>[One or more mailbox nodes is required]
    <mailbox>
      <mailboxId>[Mailbox Id to monitor]</mailboxId>
      <mailboxPath>[Relative Mailbox Path to monitor]</mailboxPath>
    </mailbox>
  </mailboxes>
</routingRule>
```

**NOTE:** One of `businessProcess`, `contractId`, or `contractName` is required for PUT.

## Routing Rule Response (GET with specific <id>, PUT, POST):

```
<routingRule>
  <ruleId>[Unique ID for Rule]</ruleId>
  <ruleName>[Unique Rule Name]</ruleName>
  <createdBy>[User Account that created Routing Rule]</createdBy>
  <createDateTime>[Date and Time the Routing Rule was created]</createDateTime>
  <automaticRule>[Evaluate Rule Automatically: true/false]</automaticRule>
  <businessProcess>[Name of Business Process to execute]</businessProcess>
  <contractId>[Contract ID to execute]</contractId>
  <contractName>[Contract Name to execute]</contractName>
  <runAsUser>[Credentials to execute under]</runAsUser>
  <namePattern>[Message Name Pattern to monitor]</namePattern>
  <mailboxes>
    <mailbox>
      <mailboxId>[Mailbox Id to monitor]</mailboxId>
      <mailboxPath>[Relative Mailbox Path to monitor]</mailboxPath>
    </mailbox>
  </mailboxes>
</routingRule>
```

## Routing Rule Response (GET with no or + <id>):

```
<routingRuleList>
  <routingRule>[See above]</routingRule>
</routingRuleList>
```

## Routing Rule Response (DELETE):

```
<routingRule />
```



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## Message Request (PUT):

```
<message>
  <mailboxPath>[Relative Mailbox Path]</mailboxPath>
  <messageName>[Name of Message]</messageName>
  <contentType>[Content Type of Message]</contentType>
  <createDateTime>[Date and Time Message was created]</createDateTime>
  <extractCount>[Number of times Message can be extracted]</extractCount>
  <extractableUntil>[Time until Message is no longer extractable]</extractableUntil>
  <alwaysExtractable>[Specified if Message is always extractable]</alwaysExtractable>
  <messageBody>[One or more bodyChunk nodes is required]
    <bodyChunk>[CDATA with a chunk of the Message's document]</bodyChunk>
  </messageBody>
</message>
```

## NOTES:

- One of extractCount, extractableUntil, or alwaysExtractable is required for PUT.
- createDateTime is only updated on a PUT if <id> is also specified.
- bodyChunk nodes do not need to be consistent in size.
- bodyChunk nodes must include line terminators for text-based documents.

## Message Request (POST):

```
<message>
  <mailboxPath>[Relative Mailbox Path]</mailboxPath>
  <messageName>[Name of Message]</messageName>
  <contentType>[Content Type of Message]</contentType>
  <createDateTime>[Date and Time Message was created]</createDateTime>
  <extractCount>[Number of times Message can be extracted]</extractCount>
  <extractableUntil>[Time until Message is no longer extractable]</extractableUntil>
  <alwaysExtractable>[Specified if Message is always extractable]</alwaysExtractable>
</message>
```

## NOTES:

- One of extractCount, extractableUntil, or alwaysExtractable is optional for POST.
- mailboxPath, messageName, contentType, and createDateTime can be updated.
- Message document cannot be updated (only metadata).



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Message Response (GET with specific <id>, PUT, POST):

```
<message>
  <messageId>[Unique Numeric Message ID]</messageId>
  <mailboxPath>[Relative Mailbox Path]</mailboxPath>
  <messageName>[Name of Message]</messageName>
  <size>[Size of the Message's document]</size>
  <createDateTime>[Date and Time Message was created]</createDateTime>
  <contentType>[Content Type of Message]</contentType>
  <createUser>[B2Bi Account that created the Message]</createUser>
  <isExtractable>[True/False value indicating if the Message is available]</isExtractable>
  <extractCount>[Number of times Message can be extracted]</extractCount>
  <extractableUntil>[Time until Message is no longer extractable]</extractableUntil>
  <alwaysExtractable>[Specified if Message is always extractable]</alwaysExtractable>
  <messageBody chunkSize="<subRequestValue">
    <bodyChunk>[CDATA with a chunk of the Message's document]</bodyChunk>
  </messageBody>
</message>
```

NOTE: subRequestValue for the MessageBody subRequest specifies chunkSize. Default chunkSize is 1024 bytes.

Message Response (GET with no or 0 <id>):

```
<messageList>
  <message>[See above]</message>
</messageList>
```

Message Response (DELETE):

```
<message />
```





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## Examples:

/Mailbox/0/PathQuery/%2FInbound (as admin):

```
<mailboxList>
  <mailbox>
    <id>28</id>
    <description>AS2 Inbound for Acme</description>
    <nodeName>Inbound</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>26</parentId>
    <parentPath>/AS2/Acme</parentPath>
    <relativePath>/AS2/Acme/Inbound</relativePath>
    <lastModifiedDate>2014-12-26 15:34:52.0</lastModifiedDate>
  </mailbox>
  <mailbox>
    <id>32</id>
    <description>Inbound Parent Mailbox</description>
    <nodeName>Inbound</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>1</parentId>
    <parentPath>/</parentPath>
    <relativePath>/Inbound</relativePath>
    <lastModifiedDate>2014-12-27 10:44:19.0</lastModifiedDate>
  </mailbox>
  <mailbox>
    <id>33</id>
    <description>Inbound for EDI</description>
    <nodeName>EDI</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>32</parentId>
    <parentPath>/Inbound</parentPath>
    <relativePath>/Inbound/EDI</relativePath>
    <lastModifiedDate>2014-12-27 10:46:23.0</lastModifiedDate>
  </mailbox>
  <mailbox>
    <id>34</id>
    <description>Inbound for XML</description>
    <nodeName>XML</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>32</parentId>
    <parentPath>/Inbound</parentPath>
    <relativePath>/Inbound/XML</relativePath>
    <lastModifiedDate>2014-12-27 10:47:54.0</lastModifiedDate>
  </mailbox>
</mailboxList>
```



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/Mailbox/0/PathQuery/%2FInbound (as acme\_as2\_user):

```
<mailboxList>
  <mailbox>
    <id>28</id>
    <description>AS2 Inbound for Acme</description>
    <nodeName>Inbound</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>26</parentId>
    <parentPath>/</parentPath>
    <relativePath>/Inbound</relativePath>
    <lastModifiedDate>2014-12-26 15:34:52.0</lastModifiedDate>
  </mailbox>
</mailboxList>
```

/Mailbox/0/VirtualRootUser/acme\_user (as admin):

```
<mailboxList>
  <mailbox>
    <id>26</id>
    <description>AS2 Virtual Root for Acme</description>
    <nodeName>Acme</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>21</parentId>
    <parentPath>/AS2</parentPath>
    <relativePath>/AS2/Acme</relativePath>
    <lastModifiedDate>2014-12-26 15:30:14.0</lastModifiedDate>
  </mailbox>
  <mailbox>
    <id>27</id>
    <description>AS2 Outbound for Acme</description>
    <nodeName>Outbound</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>26</parentId>
    <parentPath>/AS2/Acme</parentPath>
    <relativePath>/AS2/Acme/Outbound</relativePath>
    <lastModifiedDate>2014-12-26 15:32:33.0</lastModifiedDate>
  </mailbox>
  <mailbox>
    <id>28</id>
    <description>AS2 Inbound for Acme</description>
    <nodeName>Inbound</nodeName>
    <mailboxType>Regular</mailboxType>
    <parentId>26</parentId>
    <parentPath>/AS2/Acme</parentPath>
    <relativePath>/AS2/Acme/Inbound</relativePath>
    <lastModifiedDate>2014-12-26 15:34:52.0</lastModifiedDate>
  </mailbox>
</mailboxList>
```



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/Mailbox/26/Children (as acme\_as2\_user):

```
<mailbox>
  <id>26</id>
  <description>AS2 Virtual Root for Acme</description>
  <mailboxType>Regular</mailboxType>
  <relativePath>/</relativePath>
  <lastModifiedDate>2014-12-26 15:30:14.0</lastModifiedDate>
  <children>
    <childMailbox>
      <id>27</id>
      <nodeName>Outbound</nodeName>
    </childMailbox>
    <childMailbox>
      <id>28</id>
      <nodeName>Inbound</nodeName>
    </childMailbox>
  </children>
</mailbox>
```

/VirtualRoot (as admin):

```
<virtualRootList>
  <virtualRoot>
    <userId>acme_as2_user</userId>
    <mailboxPath>/AS2/Acme</mailboxPath>
  </virtualRoot>
  <virtualRoot>
    <userId>Bob</userId>
    <mailboxPath>/Adhoc/Bob</mailboxPath>
  </virtualRoot>
  <virtualRoot>
    <userId>Mary</userId>
    <mailboxPath>/Adhoc/Mary</mailboxPath>
  </virtualRoot>
</virtualRootList>
```

/VirtualRoot/+ /MailboxId/26 (as admin):

```
<virtualRootList>
  <virtualRoot>
    <userId>acme_as2_user</userId>
    <mailboxPath>/AS2/Acme</mailboxPath>
  </virtualRoot>
</virtualRootList>
```

/VirtualRoot (as acme\_as2\_user):

```
<virtualRootList>
  <virtualRoot>
    <userId>acme_as2_user</userId>
    <mailboxPath>/</mailboxPath>
  </virtualRoot>
</virtualRootList>
```



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/VirtualRoot/Bob/User (as admin):

```
<virtualRoot>
  <userId>Bob</userId>
  <mailboxPath>/Adhoc/Bob</mailboxPath>
  <user>
    <fullName>Bob Smith</fullName>
    <firstName>Bob</firstName>
    <lastName>Smith</lastName>
    <email>bsmith@usa.net</email>
    <pager>469-555-8484</pager>
    <entityId>DEFAULT</entityId>
    <language>xx</language>
    <parentId />
  </user>
</virtualRoot>
```

/RoutingRule (as admin):

```
<routingRuleList>
  <routingRule>
    <ruleId>-13db:546f2a:23ff</ruleId>
    <ruleName>AS2 Outbound for Acme</ruleName>
    <createdBy>admin</createdBy>
    <createDateTime>2014-12-26 15:32:45.0</createDateTime>
    <automaticRule>true</automaticRule>
    <contractName>ORG_TO_Acme</contractName>
    <runAsUser>aft_user</runAsUser>
    <namePattern>*</namePattern>
    <mailboxes>
      <mailbox>
        <mailboxId>27</mailboxPath>
        <mailboxPath>/AS2/Acme/Outbound</mailboxPath>
      </mailbox>
    </mailboxes>
  </routingRule>
  <routingRule>
    <ruleId>-4fe1:a3c5d6:12ad</ruleId>
    <ruleName>Generic Inbound XML Handler</ruleName>
    <createdBy>admin</createdBy>
    <createDateTime>2014-12-27 11:19:32.0</createDateTime>
    <automaticRule>false</automaticRule>
    <businessProcess>Handle_Inbound_XML</businessProcess>
    <runAsUser>admin</runAsUser>
    <namePattern>*.xml</namePattern>
    <mailboxes>
      <mailbox>
        <mailboxId>34</mailboxPath>
        <mailboxPath>/Inbound/XML</mailboxPath>
      </mailbox>
    </mailboxes>
  </routingRule>
</routingRuleList>
```



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/RoutingRule (as acme\_as2\_user):

```
<routingRuleList>
  <routingRule>
    <ruleId>-13db:546f2a:23ff</ruleId>
    <ruleName>AS2 Outbound for Acme</ruleName>
    <createdBy>admin</createdBy>
    <createDateTime>2014-12-26 15:32:45.0</createDateTime>
    <automaticRule>true</automaticRule>
    <contractName>ORG_TO_Acme</contractName>
    <runAsUser>aft_user</runAsUser>
    <namePattern>*</namePattern>
    <mailboxes>
      <mailbox>
        <mailboxId>27</mailboxPath>
        <mailboxPath>/Outbound</mailboxPath>
      </mailbox>
    </mailboxes>
  </routingRule>
</routingRuleList>
```

/RoutingRule/-13db:546f2a:23ff (as acme\_as2\_user):

```
<routingRule>
  <ruleId>-13db:546f2a:23ff</ruleId>
  <ruleName>AS2 Outbound for Acme</ruleName>
  <createdBy>admin</createdBy>
  <createDateTime>2014-12-26 15:32:45.0</createDateTime>
  <automaticRule>true</automaticRule>
  <contractName>ORG_TO_Acme</contractName>
  <runAsUser>aft_user</runAsUser>
  <namePattern>*</namePattern>
  <mailboxes>
    <mailbox>
      <mailboxId>27</mailboxPath>
      <mailboxPath>/Outbound</mailboxPath>
    </mailbox>
  </mailboxes>
</routingRule>
```

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/RoutingRule/+ /MailboxId/27 (as acme\_as2\_user):

```
<routingRule>
  <ruleId>-13db:546f2a:23ff</ruleId>
  <ruleName>AS2 Outbound for Acme</ruleName>
  <createdBy>admin</createdBy>
  <createDateTime>2014-12-26 15:32:45.0</createDateTime>
  <automaticRule>true</automaticRule>
  <contractName>ORG_TO_Acme</contractName>
  <runAsUser>aft_user</runAsUser>
  <namePattern>*</namePattern>
  <mailboxes>
    <mailbox>
      <mailboxId>27</mailboxPath>
      <mailboxPath>/Outbound</mailboxPath>
    </mailbox>
  </mailboxes>
</routingRule>
```

/Message (as admin)

```
<messageList>
  <message>
    <messageId>12</messageId>
    <mailoxPath>/AS2/BoundlessIntegrations/IBSA/Outbound</mailoxPath>
    <messageName>examples.csv</messageName>
    <size>308</size>
    <createDateTime>2014-09-23 22:01:47.0</createDateTime>
    <contentType>application/vnd.ms-excel</contentType>
    <createUser>john</createUser>
    <isExtractable>true</isExtractable>
    <alwaysExtractable>true</alwaysExtractable>
  </message>
  <message>
    <messageId>11</messageId>
    <mailoxPath>/ZIP/Inbound</mailoxPath>
    <messageName>example.xml</messageName>
    <size>972</size>
    <createDateTime>2014-09-22 17:58:35.0</createDateTime>
    <contentType>text/xml</contentType>
    <isExtractable>true</isExtractable>
    <extractCount>1</extractCount>
  </message>
</messageList>
```



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## /Message (as john)

```
<messageList>
  <message>
    <messageId>12</messageId>
    <mailoxPath>/Outbound</mailoxPath>
    <messageName>examples.csv</messageName>
    <size>308</size>
    <createDateTime>2014-09-23 22:01:47.0</createDateTime>
    <contentType>application/vnd.ms-excel</contentType>
    <createUser>john</createUser>
    <isExtractable>true</isExtractable>
    <alwaysExtractable>true</alwaysExtractable>
  </message>
</messageList>
```

## /Message/12/MessageBody (as john)

```
<messageList>
  <message>
    <messageId>12</messageId>
    <mailoxPath>/Outbound</mailoxPath>
    <messageName>examples.csv</messageName>
    <size>308</size>
    <createDateTime>2014-09-23 22:01:47.0</createDateTime>
    <contentType>application/vnd.ms-excel</contentType>
    <createUser>john</createUser>
    <isExtractable>true</isExtractable>
    <alwaysExtractable>true</alwaysExtractable>
    <messageBody chunkSize="1024">
      <bodyChunk><![CDATA[H,AQC,HLC,997,4030,ZZ,ZZ,Adam,Heather,1234
H,AQC,HLC,850,4030,ZZ,ZZ,Adam,Heather,2345
H,HLC,AQC,850,5030,12,12,Heather,Adam,9876
H,HLC,AQC,997,4010,01,01,Heather,Adam,8765
H,AQC,HLC,997,4030,ZZ,ZZ,Adam,Heather,3456
H,AQC,HLC,850,5030,12,12,Adam,Heather,4567
H,HLC,AQC,997,4010,01,01,Heather,Adam,7654
]]></bodyChunk>
    </messageBody>
  </message>
</messageList>
```

## /Message/12/Document

```
H,AQC,HLC,997,4030,ZZ,ZZ,Adam,Heather,1234
H,AQC,HLC,850,4030,ZZ,ZZ,Adam,Heather,2345
H,HLC,AQC,850,5030,12,12,Heather,Adam,9876
H,HLC,AQC,997,4010,01,01,Heather,Adam,8765
H,AQC,HLC,997,4030,ZZ,ZZ,Adam,Heather,3456
H,AQC,HLC,850,5030,12,12,Adam,Heather,4567
H,HLC,AQC,997,4010,01,01,Heather,Adam,7654
```



# Boundless Integrations

## Troubleshooting:

- RestAPI adapter returns a non-200 HTTP response.
  - Check BoundlessIntegrations\_Adapter\_RestAPI.log for details. Open an incident with Boundless Integrations if needed.

## Support:

Contact Boundless Integrations for any support need. As part of your license, the following support is included at no additional charge:

- Bug fixes
- Installation problems (not including rework of any existing assets)
- Enhancements requests
- General "How Do I" questions

The following services (and any others not explicitly listed above) are available as contract support billed by hour plus any expenses:

- Rework existing business processes/maps/XSLTs
- Custom business processes/maps/XSLTs

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