

<i>Author</i>	<i>Pasquale Cavone</i>	<i>Date Created</i> 31/01/2022
<i>Client</i>	<i>Internal</i>	<i>Date Edited</i> 01/02/2024
<i>Document</i>	<i>Web Service Easy Tracking</i>	<i>Version</i> 9.0
<i>Reviewer</i>	<i>Leonardo Scardamaglio</i>	

Sommario

1. Document Version	2
2. Introduction	4
3. Authentication	5
4. List of Passive Invoices	6
5. Download Booking	8
6. Download Booking select type.....	9
7. Download	10
8. Set Phase 1.....	11
9. Clear Phase 1	12
10. Set Phase 2	13
11. Clear Phase 2.....	14
12. Example of a response of a file zip	15



1. Document Version

Version	Date	Description
4.0	20/01/2023	-New route v2. -In the passive-invoices, query string fields correction.
4.1	20/03/2023	-Added examples of a zip file response.
5.0	11/05/2023	-New route v3. -In the passive-invoices, added phase1, phase2, and top fields to the query string. -In the passive-invoices, enriched the response payload with sdild, dataRicezione and Zilettype. Furthermore, it is possible to provide values for both ReceiverPIVA and ReceiverCF. -New methods: set-fase-1, clear-fase-1, set-fase-2 and clear-fase-2.
5.1	18/05/2023	-Used the camelCase convention for resource names. -Minor corrections to the document.
6.0	19/06/2023	-New route v4. -In the jobs/{jobId} is added filetype "FU" for unsigned invoice. -Used <route> in call description.
7.0	22/11/2023	-New route v5. -New method jobs-select-type. -In the jobs/{jobId} added filetype "FI" for intermediario invoice file.
8.0	03/01/2024	-New route v6. -No changes from v5.
9.0	01/02/2024	-New route v7. -No changes from v6.

		<p>-In the jobs-select-type corrected fatturaOriginale, metadatoSDI, fatturaNonFirmata, fatturaIntermediario are in payload request.</p> <p>-In the passive-invoices corrected invoices instead of invoces.</p>
--	--	---



2. Introduction

! IMPORTANT: Before using the Web Service calls, contact assistance for the environment configuration.

The Web Service Easy Tracking exposes an interface for downloading the invoices received from SDI on the platform.

Exposed calls:

- The request for a list of passive invoices to download based on certain parameters. It is possible to use the phase 1 field (and/or phase 2) to download only “new” invoices if, after downloading an invoice, you use the set-fase-1 (and/or set-fase-2) method.
- Booking (job) for downloading n passive invoices, where n ranges from 1 to 100.
- Download of invoices contained within a job.

Authentication of the calls: Calls must be authenticated according to the OAuth standard through the request of a JWT token and its inclusion as a Bearer token in the header of all calls.

Definition of constants:

The <baseUrl> varies depending on the environments:

VarHub NG production (Empoli) = <https://servizi.varhub.it>

VarHub NG staging (Empoli) = <https://servizitest.varhub.it>

Ditech production (Bologna) = <https://servizi.intermediario.ditechonline.it>

Ditech staging (Bologna) = <https://servizi.intermediariotest.ditechonline.it>

The <authBaseUrl> varies depending on the environments:

VarHub NG production (Empoli) = <https://isentry.varhub.it>

VarHub NG staging (Empoli) = <https://isentrytest.varhub.it>

Ditech production (Bologna) = <https://isentry.intermediario.ditechonline.it>

Ditech staging (Bologna) = <https://isentry.intermediariotest.ditechonline.it>

<route> = v7

3. Authentication

Web Service to Call	<authBaseUrl>/api/Token/AccessToken
Http Method	POST
Headers	Content-Type: application/json Accept: application/json
Response Status	Status Code: 200 - OK Status Code: 401 - Unauthorized
Payload Request	{ "apiName": "openBusiness.scope.serviziweb.api", "clientName": "openBusiness.client.serviziweb.api", "clientSecret": "uKNtPmq49yjLkaYv", "password": "<password>", "username": "<username>" }
Payload Response	In case of 200: "<token>"
Notes	<username>: username assigned to the client. <password>: password assigned to the client. <token>: JWT token encoded in base64. The response payload is a string that starts and ends with double quotation marks (") enclosing the actual token itself.

4. List of Passive Invoices

Web Service to Call	<baseUrl>/api/<route>/DownloadInvoices/passive-invoices?field1=value&fieldN=value																				
Http Method	GET																				
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json																				
Response Status	Status Code: 200 - OK Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 413 - Payload Too Large (greater than 100000 elementi)																				
Query string	<table border="1"> <thead> <tr> <th>Field</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>invoiceDateFrom</td> <td>yyyy-MM-dd</td> </tr> <tr> <td>invoiceDateTo</td> <td>yyyy-MM-dd</td> </tr> <tr> <td>invoiceReceivedDateTimeFrom</td> <td>yyyy-MM-dd HH:mm:ss</td> </tr> <tr> <td>invoiceReceivedDateTimeTo</td> <td>yyyy-MM-dd HH:mm:ss</td> </tr> <tr> <td>receiverPIVA</td> <td>string (es. 0200777777)</td> </tr> <tr> <td>receiverCF</td> <td>string</td> </tr> <tr> <td>fase1</td> <td>bool (true/false)</td> </tr> <tr> <td>fase2</td> <td>bool (true/false)</td> </tr> <tr> <td>top</td> <td>Int (<= 100000)</td> </tr> </tbody> </table>	Field	Format	invoiceDateFrom	yyyy-MM-dd	invoiceDateTo	yyyy-MM-dd	invoiceReceivedDateTimeFrom	yyyy-MM-dd HH:mm:ss	invoiceReceivedDateTimeTo	yyyy-MM-dd HH:mm:ss	receiverPIVA	string (es. 0200777777)	receiverCF	string	fase1	bool (true/false)	fase2	bool (true/false)	top	Int (<= 100000)
Field	Format																				
invoiceDateFrom	yyyy-MM-dd																				
invoiceDateTo	yyyy-MM-dd																				
invoiceReceivedDateTimeFrom	yyyy-MM-dd HH:mm:ss																				
invoiceReceivedDateTimeTo	yyyy-MM-dd HH:mm:ss																				
receiverPIVA	string (es. 0200777777)																				
receiverCF	string																				
fase1	bool (true/false)																				
fase2	bool (true/false)																				
top	Int (<= 100000)																				
Payload Response	<p>In case of 200:</p> <pre>{ "invoices": [{ "id": <id>, "senderPIVA": "02005004003", "senderCF": "", "receiverPIVA": "0200777777", "receiverCF": "", "data": "2012-04-23", "number": "77/C", "documentType": "TD01", "sdild": "1204005", "dataRicezione": "2012-05-01 09:09:02", "fileName": "filenamefattura.xml p7m" }, { "id": <id>, "senderPIVA": "02005088888", "senderCF": "", "receiverPIVA": "0200777777", "receiverCF": "", "data": "2012-04-23",</pre>																				

	<pre> “number”: “78/C”, “documentType”: “TD01”, “sdild”: “1204006”, “dataRicezione”: “2012-04-23 19:09:02”, “fileName”: “filenamefattura.xml p7m” }, { “id”: <id>, “senderPIVA”: “02005033333”, “senderCF”: “”, “receiverPIVA”: “02007777777”, “receiverCF”: “”, “data”: “2012-04-28”, “number”: “10-A”, “documentType”: “TD01”, “sdild”: “1204007”, “dataRicezione”: “2012-04-28 19:09:02”, “fileName”: “filenamefattura.xml p7m” }], “total”: 3 } In case of 400: { “message”: <errore> } </pre>
Notes	<p><id>: unique code (integer) identifier of the invoice to be used in the booking download request.</p> <p><errore>: explanatory string of the error generated by the request.</p> <p>In the Request:</p> <ul style="list-style-type: none"> - The date range cannot exceed 31 days. Only one type of date range can be specified, either document date or received date. - It is possible to provide a value for either VAT Number (PIVA) or fiscal code (CF), or neither of them, or both - if phase1 and/or phase2, the allowed date range extends to 365 days. <p>If Top is not specified, it is assumed to be equal to 100000.</p>

5. Download Booking

Web Service to Call	<baseUrl>/api/<route>/DownloadInvoices/jobs
Http Method	POST
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 202 - Accepted Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	List of document ids, max 100 { "docIds": [id1, id2, ..., id100] }
Payload Response	In case of 202: { "jobId": <jobId> } In case of 400: { "message": <errore> }
Notes	<jobId>: 36-character string (GUID) that should be used in job status requests. Once the job is created, it has a validity of 24 hours. After that, it will be deleted even if not downloaded. <errore>: explanatory string of the error generated by the request. Job created with fileType "FA", "MT", "FU"

Response Status

HTTP 202 (Accepted): job in progress

HTTP 400 (Bad Request): invalid input data

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): one or more document ids not found or for which the user does not have permissions

6. Download Booking select type

Web Service to Call	<baseUrl>/api/<route>/DownloadInvoices/jobs-select-type
Http Method	POST
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 202 - Accepted Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	List of document ids, max 100 { "docIds": [id1, id2, ..., id100], "fatturaOriginale": <bool>, "metadatoSDI": <bool>, "fatturaNonFirmata": <bool>, "fatturalIntermediario": <bool> }
Payload Response	In case of 202: { "jobId": <jobId> } In case of 400: { "message": <errore> }
Notes	<jobId>: 36-character string (GUID) that should be used in job status requests. Once the job is created, it has a validity of 24 hours. After that, it will be deleted even if not downloaded. <bool>: true o false <errore>: explanatory string of the error generated by the request. Matching payload parameters with fileType: - "fatturaOriginale": "FA" - "metadatoSDI": "MT" - "fatturaNonFirmata": "FU" - "fatturalIntermediario": "FI"

Response Status

HTTP 202 (Accepted): job in progress

HTTP 400 (Bad Request): invalid input data or "fatturaOriginale", "metadatoSDI", "fatturaNonFirmata", "fatturalIntermediario" are all false

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): one or more document ids not found or for which the user does not have permissions

7. Download

Web Service to Call	<baseUrl>/api/<route>/DownloadInvoices/jobs/{jobId}
Http Method	GET
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 200 - OK Status Code: 202 - Accepted Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	
Payload Response	File Zip
Notes	

Response Status

HTTP 202 (Accepted): job in progress

HTTP 400 (Bad Request): invalid input data (invalid GUID)

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): GUID not found or for which the user does not have permissions

HTTP 200 (OK): The response contains a zip file with the invoice files and an indice.json file. The job will be reset after the response. To be able to download it again, a new job must be created. Il payload di The response payload is a binary file with the content type application/octet-stream.

The indice.json file contains the list of invoices inside the zip file, indicating for each the id, the fileName and the fileType.

The fileType can have the following values:

- "FA": original invoice received from SDI (xml or p7m)
- "MT": SDI metadata
- "FU": unsigned invoice
- "FI": intermediario invoice



8. Set Phase 1

Web Service to Call	<baseUrl>/api/<route>/PassiveInvoices/set-fase-1
Http Method	POST
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 200 - OK Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	List of document ids, max 100 { "docIds": [id1, id2, ..., id100] }
Payload Response	In case of 400: { "message": <errore> }
Notes	

Response Status

HTTP 200 (OK): operation executed

HTTP 400 (Bad Request): invalid data input

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): one or more document ids not found or for which the user does not have permissions

9. Clear Phase 1

Web Service to Call	<baseUrl>/api/<route>/PassiveInvoices/clear-fase-1
Http Method	POST
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 200 - OK Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	List of document ids, max 100 { "docIds": [id1, id2, ..., id100] }
Payload Response	In case of 400: { "message": <errore> }
Notes	

Response Status

HTTP 200 (OK): operation executed

HTTP 400 (Bad Request): invalid data input

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): one or more document ids not found or for which the user does not have permissions

10. Set Phase 2

Web Service to Call	<baseUrl>/api/<route>/PassiveInvoices/set-fase-2
Http Method	POST
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 200 - OK Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	List of document ids, max 100 { "docIds": [id1, id2, ..., id100] }
Payload Response	In case of 400: { "message": <errore> }
Notes	

Response Status

HTTP 200 (OK): operation executed

HTTP 400 (Bad Request): invalid data input

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): one or more document ids not found or for which the user does not have permissions

11. Clear Phase 2

Web Service to Call	<baseUrl>/api/<route>/PassiveInvoices/clear-fase-2
Http Method	POST
Headers	Authorization: Bearer <token> Content-Type: application/json Accept: application/json
Response Status	Status Code: 200 - OK Status Code: 400 - Bad Request Status Code: 401 - Unauthorized Status Code: 403 - Forbidden
Payload Request	List of document ids, max 100 { "docIds": [id1, id2, ..., id100] }
Payload Response	In case of 400: { "message": <errore> }
Notes	

Response Status

HTTP 200 (OK): operation executed








HTTP 400 (Bad Request): invalid data input

HTTP 401 (Unauthorized): invalid token

HTTP 403 (Forbidden): one or more document ids not found or for which the user does not have permissions

12. Example of a response of a file zip

Content of the zip file

Name	Date modified	Type	Size
 IT07031780484_4582619.xml	19/06/2023 15:43	XML File	12 KB
 IT07031780484_4581939.xml	19/06/2023 15:43	XML File	78 KB
 20230619_152243878.ef_IT016417907022023Y_05Xa6_MT_001.xml	19/06/2023 15:43	XML File	1 KB
 20230619_152243878.ef_IT016417907022023Y_05Xa6.xml	19/06/2023 15:43	XML File	12 KB
 20230619_141959147.a7_IT06628860964_9FKju_MT_001.xml	19/06/2023 15:44	XML File	1 KB
 20230619_141959147.a7_IT06628860964_9FKju.xml.p7m	19/06/2023 15:43	P7M File	83 KB
 indice.json	19/06/2023 15:48	JSON File	1 KB

Content of the indice.json file:

```
{
  "files": [
    {
      "id": 4574622,
      "fileName": "20230619_141959147.a7_IT06628860964_9FKju.xml.p7m",
      "fileType": "FA"
    },
    {
      "id": 4574622,
      "fileName": "20230619_141959147.a7_IT06628860964_9FKju_MT_001.xml",
      "fileType": "MT"
    },
    {
      "id": 4574622,
      "fileName": "IT07031780484_4581939.xml",
      "fileType": "FU"
    },
    {
      "id": 4575300,
      "fileName": "20230619_152243878.ef_IT016417907022023Y_05Xa6.xml",
      "fileType": "FA"
    },
    {
      "id": 4575300,
      "fileName": "20230619_152243878.ef_IT016417907022023Y_05Xa6_MT_001.xml",
      "fileType": "MT"
    },
    {
      "id": 4575300,
      "fileName": "IT07031780484_4582619.xml",
      "fileType": "FU"
    }
  ]
}
```