



SDI 365 User Manual

Microsoft Dynamics 365 Business Central

**Andrea Cita
Microsys Srl
August 2020**



Summary

Introduction	3
Document purpose	3
Extension general information	3
Prerequisites	4
Activation key request	4
Setup	5
Stamp duty	5
Setup SDI	5
VAT posting setup	6
Split payment	7
VAT exemptions	7
PDF attached to the XML file	8
Withholding tax	9
Setup SDI	9
VAT identifier	9
Sales header	10
Enasarco	11
Setup SDI	11
VAT identifier	11
Sales header	12
Rule and template	13
Rule creation	13
Template creation	14
Associate template-rule	15
Multiple PA code	16
Our Bank Account	17
Customer Card	17
Sales Header	17
Combine shipment	17
Setup SDI	17
Electronic document formats	18

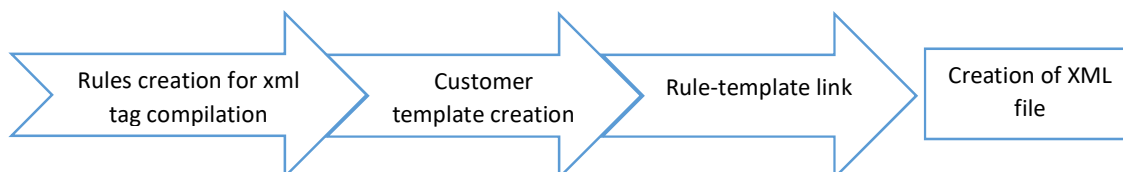


Rif. SDI 365 – EN – User Manual

Operation	19
Stamp duty	19
Split payment	21
Inserting rule on the document	22

Introduction

The **SDI 365** extension has as its purpose the automatic management of the xml file tags for sales and service invoices, through the creation of rules and templates, with the consequent creation of the same:



Document purpose

The document purpose is to explain how the extension works, starting from the setup and ending with the generation of the xml file.

Extension general information

The extension comes from the need to satisfy the various requests made by customers to their suppliers in the most flexible and automated way possible.

For this purpose, there are a series of setup pages for managing:

- Tag present in the xml file and its value
- Possible assignment of virtual stamp duty to be paid by the customer or not
- Split payment

This is what it looks like in the list of available extensions:



Prerequisites

The following app is requested in order to install SDI 365:

- Framework 365 (for the activation key)

Activation key request

Go to “Microsys Extension List”:

MICROSYS EXTENSION LIST | WORK DATE: 4/1/2020

Search	Edit List	Delete	Require Activation Key	Remove Activation Key	Open in Excel
Extension Name	Extension Module 1	Machine Code			
→ SDI 365	:	BF3ECE9E1A28897A428B08A053AE14D7			

Click on “Require Activation key” and a message will be prompted with the information required by Microsys to activate your solution:

 Send the following message to Microsys via e-mail at licensing@msys.it

Company Name : CRONUS IT
Heading : CRONUS IT
Phone No. : +39-02-660-6666
Email :

Extension;Module;MachineCode
SDI 365::BF3ECE9E1A28897A428B08A053AE14D7

OK

When you receive from Microsys the Activation Key, insert it in the “Activation Key” field and you will be notified regarding the right activation of the solution and the due date:

 The solution is now active until 31/12/20

OK

Setup

Stamp duty

The automatic stamp management uses the standard fields on the document sales header and, in case of debit to the customer, adds a line on the document.

This management can be activated by following the setups shown below.

Setup SDI

Enter the desired values:

- **Activation Amount:** is the minimum amount that the document must have to ensure that the stamp is assigned. This value is entered when the extension is installed.
- **Amount:** is the value of the stamp. This value is entered when the extension is installed.
- **Recharge:** specifies the account to be used in the automatic creation of the line on the sales document (only in the case of debit to the customer).
- **Line description:** specifies the line description to be used in the automatic creation of the line on the sales document (only in the case of debit to the customer).
- **VAT Prod. Posting Group:** specifies the category to be used in the automatic creation of the line on the sales document (only in the case of debit to the customer).

Stamp Duty

Activation Amount	77.47	Amount	2.00
Recharge	5780	Line Description	Stamp duty paid virtually.
VAT Prod. Posting Group			

VAT posting setup

Enter the desired management for each intersection where the stamp is expected:

- **XML only:** only in the xml document (not charged to the customer)
- **Customer charge:** a line is inserted on the document, charging it to the customer

VAT POSTING SETUP | WORK DATE: 1/27/2022

Search + New Edit List Delete Edit View Suggest Accounts Copy... Open in Excel							
VAT Bus: Posting Group ↑	VAT Prod. Posting Group ↑	Description	VAT Identifier	V... %	Virtual Duty	Incl... in VAT Tran...	Deductible %
	IVA10		IVA10	0		☐	100
	IVA20		IVA20	0		☐	100
	NO IVA		NO IVA	0		☐	100
ESPORTAZ	IVA10		IVA10	10		☐	100
ESPORTAZ	IVA20		IVA20	20		☐	100
→ ESPORTAZ	NO IVA		NO IVA	0		☐	100
NAZIONALE				0		☐	100
NAZIONALE	E13		E13	0		☐	100
NAZIONALE	IND50		IND50	20		☐	50
NAZIONALE	IVA10		IVA10	10		☐	100
NAZIONALE	IVA20		IVA20	20		☐	100
NAZIONALE	IVA22		IVA22	22		☐	100
NAZIONALE	IVA22SP		IVA22	22		☐	100
NAZIONALE	NO IVA		NO IVA	0		☐	100
UE	IVA10		IVA10	10		☐	100
UE	IVA20		IVA20	20		☐	100
UE	NO IVA		NO IVA	0		☐	100

If a document has two intersections in which the stamp management is different, the debit one prevails.

Split payment

Split payment management uses the standard Business Central setup:

VAT POSTING SETUP | WORK DATE: 1/27/2022 ✓ SAVED

VAT Bus. Posting Group	VAT Prod. Posting Group	Description	VAT Identifier	V... %	Virtual Duty	Incl... in VAT Tran...	Deductible %	VAT Calculation Type	Reversed VAT Bus. Post. Group	Reversed VAT Prod. Post. Group
→ NAZIONALE	IVA22		IVA22	22		☐	100	Normal VAT		
→ NAZIONALE	IVA22SP		IVA22	22		☐	100	Full VAT	NAZIONALE	IVA22

The automation is inserted when the document is released, with the insertion of the line for reversing full-VAT.

VAT exemptions

VAT exemptions management uses the standard Business Central setup. In order to facilitate the export of the electronic document, the "Telematic Protocol" field has been inserted:

VAT EXEMPTIONS | WORK DATE: 1/28/2022

VAT Exempt. Starting Date	VAT Exempt. Ending Date	VAT Exempt. No.	Telematic Protocol
→ 1/1/2022	12/31/2022	123	08060120341234567-000001

If the document has a VAT exemption, the value is inserted in the RiferimentoNormativo tag, in DatiRiepilogo section.

PDF attached to the XML file

In the customer card, you can decide whether to attach the pdf documents to the XML file:

CUSTOMER CARD | WORK DATE: 1/27/2022   

10000 · Cannon Group SpA

New Document Request Approval Navigate Customer Actions Navigate Report Fewer options

General

No.	10000	Costs (LCY)	
Name	Cannon Group SpA	Tax Representative Type	
Balance (LCY)	274.319.31	Tax Representative No.	
Balance Due (LCY)	0.00	Cust. Template	CUSTOMERTEST
Credit Limit (LCY)	0.00	Our Bank Account	BDL
Exposure (LCY)	0.00	Attach PDF XML	☒
Blocked		Cust. Type	Company

After registration of the document, a PDF file is automatically created between the attachments.

Withholding tax

This management can be activated by following the setups shown below.

Setup SDI

Enter the desired values. Some of these values will be reported in the header of the sales document:

Withholding Tax

Withholding Tax Type	RT01	Withholding Tax Account	
Base %	5.00	Reason For Payment	A
Withholding Tax %	10.00		

VAT identifier

Enter the flag to activate the withholding tax management for the desired VAT code:

VAT IDENTIFIER | WORK DATE: 1/27/2022

✓ SAVED



Search + New Edit List Delete Open in Excel

Code ↑	Description	Subject To Withholding Tax	Subject To Enasarco	Subject to VAT Plafond
→ E13	Non soggetto riten. - art. 13	☐	☐	☐
FCI2	F.C.I. Art.2	☐	☐	☐
I10	Non soggetto riten. - art. 10	☐	☐	☐
IND100	IVA 20% - 100% non detraibile	☐	☐	☐
IND50	IVA 20% - 50% non detraibile	☐	☐	☐
IVA10	IVA 10%	☐	☐	☐
IVA20	IVA 20%	☐	☐	☐
IVA22	IVA 22	☐	☐	☐
NI41	N.I. art. 41 DL 331/93	☐	☐	☐
NI8	Non imponibile - Art. 8/1	☐	☐	☐
NI9	Non imponibile - Art. 9	☐	☐	☐
NO IVA	Non imponibile	☐	☐	☐
		☐	☐	☐



Sales header

The sales document shows the values of the following fields from the SDI setup and both can be edited:

MSYS Additional Information

Our Bank Account	BDL	WITHHOLDING TAX	
Reason		Withholding Tax %	10.00
Stamp Duty Exclusion	☒	Base %	5.00
PA Code		ENASARCO	
		Cash %	30.00

Enasarco

This management can be activated by following the setups shown below.

Setup SDI

Enter the desired values. Some of these values will be reported in the header of the sales document:

Enasarco			
Cash Type	TC01	Enasarco Account	
Cash %	30.00	Withholding Tax	☐
VAT %	4.00	Nature	N2

VAT identifier

Enter the flag to activate the Enasarco management for the desired VAT code:

VAT IDENTIFIER | WORK DATE: 1/27/2022 ✓ SAVED 🔖 📄 🔗

🔍 Search ➕ New ✎ Edit List 🗑 Delete 📊 Open in Excel 🔍 ☰

Code ↑	Description	Subject To Withholding Tax	Subject To Enasarco	Subject to VAT Plafond
→ E13	Non soggetto riten. - art. 13	☐	☐	☐
FCI2	F.C.I. Art.2	☐	☐	☐
I10	Non soggetto riten. - art. 10	☐	☐	☐
IND100	IVA 20% - 100% non detraibile	☐	☐	☐
IND50	IVA 20% - 50% non detraibile	☐	☐	☐
IVA10	IVA 10%	☐	☐	☐
IVA20	IVA 20%	☐	☐	☐
IVA22	IVA 22	☐	☐	☐
NI41	N.I. art. 41 DL 331/93	☐	☐	☐
NI8	Non imponibile - Art. 8/1	☐	☐	☐
NI9	Non imponibile - Art. 9	☐	☐	☐
NO IVA	Non imponibile	☐	☐	☐
		☐	☐	☐



Sales header

The sales document shows the value of the following field from the SDI setup. The value can be changed and calculations are done with this value:

MSYS Additional Information	
Our Bank Account	BDL
Reason	
Stamp Duty Exclusion	☒
PA Code	
WITHHOLDING TAX	
Withholding Tax %	10.00
Base %	5.00
ENASARCO	
Cash %	30.00

Rule and template

On this page it is possible manage some information relating to rule and template, in particular with the actions entered in the ribbon:

- Insert new rule
- Insert new template
- Associate template-rule

Setup SDI

+ Insert new rule + Insert new template ↔ Associate template-rule

Rule creation

On this page it is possible to insert a new rule:

SDI RULE LIST | WORK DATE: 1/28/2022 ✓ SAVED   

 Search  New  Edit List  Delete  Open in Excel  

Rule Code 1	Des...	Man... Check	Group No.	Tag Group	Tag Name	Rule text	Table 1 ID	Field 1 Caption	Cross Reference Type	Table 2 ID	Field 2 Caption
→ CUSTITEMTYPE		☐	1	CodiceArticolo	CodiceTipo	CLI					
CUSTITEMVALUE		☐	1	CodiceArticolo	CodiceValore	%1	Item Cross Ref.	Nr. cross-reference	Customer		
EANTYPE		☐	2	CodiceArticolo	CodiceTipo	EAN					
EANVALUE		☐	2	CodiceArticolo	CodiceValore	%1	Item Cross Ref.	Nr. cross-reference	Bar Code		
OTHERDATATYPE		☐	3	AltriDatiGestionali	TipoDato	Other data					
OTHERDATAVALUE		☐	3	AltriDatiGestionali	RiferimentoTesto	Doc. no. %1 of %2	Sales Line	Document No.		Sales Line	Shipment Date
PURCHORD		☐	0	DatiOrdineAcquisto	IdDocumento	%1	Sales Header	Your Reference			
REASON		☐	0	DatiGeneraliDocumento	Causale	%1	Sales Header	Reason			

- **Rule Code:** code of the rule that will be associated with the template
- **Description:** description of the rule
- **Mandatory Check:** during the registration phase of the document, it checks whether the tag has value, otherwise it is not extracted. If the tag is mandatory and has no value, the whole group is not exported.
- **Group No. :** specifies the group of tag name for tag group that can be repeated multiple times
- **Tag Group:** father of the managed tag
- **Tag Name:** name of the managed tag. This tag is selected from a page with additional information:
 - o **Tag Code:** tag code used defined by tax specifications
 - o **Data Type:** type of data managed
 - o **Occurrency:** occurrence of the managed tag:
 - **0.1:** optional
 - **1.1:** mandatory
 - **0.N:** optional multiple
 - **1.N:** mandatory multiple
 - o **Min. Length:** minimum required length of the managed tag
 - o **Max. Length:** maximum required length of the managed tag

+ New
Edit List
Delete
Open in Excel

SDI TAG LIST

Tag Code ↑	Tag Group ↑	Tag Name ↑	Data Type	Occurrence	Min. Length	Max. Length
→ 2.1.1.11	DatiGeneraliDocumento	Causale	Text	0..N	1	200
2.1.9.3	DatiTrasporto	CausaleTrasporto	Text	0..1	1	100

- **Rule Text:** the rule text can be a fixed text or a value taken from a field in the document header, in the document lines or in the cross reference table. When using references to table fields, they must be expressed in the rule as **%1** (field 1) and **%2** (field 2).
- **Table 1:** table from which to take the desired field.
- **Field 1:** name of the desired field
- **Cross Reference Type:** if the "Item Cross Ref." table is used, it specifies which type to manage.
- **Table 2:** table from which to take the desired field.
- **Field 2:** name of the desired field

Template creation

On this page it is possible to insert a new template, which must be linked to at least one rule and entered in the customer card:

SDI TEMPLATE LIST | WORK DATE: 1/27/2022

✓ SAVED
🔖
📄
↗

+ New
Edit List
Delete
Open in Excel
🔍
☰

Code ↑	Description
→ CUSTOMERTEST	Customer test

In customer card:

CUSTOMER CARD | WORK DATE: 1/27/2022 ✓ SAVED

10000 · Cannon Group SpA

New Document Request Approval Navigate Customer Actions Navigate Report Fewer options

General Show more

No.	10000	Costs (LCY)	19,281.10
Name	Cannon Group SpA	Tax Representative Type	
Balance (LCY)	274,319.31	Tax Representative No.	
Balance Due (LCY)	0.00	Cust. Template	CUSTOMERTEST
Credit Limit (LCY)	0.00	Our Bank Account	BDL
Exposure (LCY)	0.00	Attach PDF XML	☐
Blocked		Cust. Type	Company

Associate template-rule

On this page it is possible to associate the template with one or more rules:

SDI TEMPLATE RULE LIST | WORK DATE: 1/28/2022 ✓ SAVED

Search + New Edit List Delete Open in Excel

Template Code ↑	Template Rule ↑
→ CUSTOMERTEST	CUSTITEMTYPE
CUSTOMERTEST	CUSTITEMVALUE
CUSTOMERTEST	EANTYPE
CUSTOMERTEST	EANVALUE
CUSTOMERTEST	PURCHORD
CUSTOMERTEST	REASON
CUSTOMERTEST	OTHERDATATYPE
CUSTOMERTEST	OTHERDATAVALUE

Multiple PA code

On the customer card it is possible to add additional PA codes, in addition to the one present by default:

STOMER CARD | WORK DATE: 1/27/2022

10000 · Cannon Group SpA

New Document Request Approval Navigate Customer Actions **Navigate** Report Fe

Customer Prices and Discounts Documents Service

Dimensions Bank Accounts Direct Debit Mandates Ship-to Addresses Contact Cross References Comments Approvals Attachments Document Layouts **+ Add new PA Code**

Balance

Cannon Group SpA

274,319.31

0.00

0.00

0.00

42,399.19

Tax Representative Ty...
Tax Representative No...
Cust. Template: CUSTOMERTEST
Our Bank Account: BDL
Attach PDF XML: ☐
Cust. Type: Company

Place of Birth

On the sales document, if not expressly indicated, the default one will be used:

MSYS Additional Information

Our Bank Account: BDL

Reason

Stamp Duty Exclusion: ☐

PA Code

WITHHOLDING TAX

Withholding Tax %: 10.00

Base %: 5.00

ENASARCO

Cash %: 30.00

Furthermore, it is possible to assign a different PA code to each shipping address:

← TO ADDRESS | WORK DATE: 1/27/2022

10000 Cannon Group SpA PADOVA Cannon Group SpA

General Show more

Code: PADOVA

Name: Cannon Group SpA

GLN

Address: Corso Como 2

Contact: Cristian Osorio

Location Code: BLU

PA Code

Service Zone Code

In the sales document, when the shipping address is changed, the PA code on the document is updated.

Our Bank Account

Customer Card

On the customer card it is possible to assign a bank dedicated to the customer:

CUSTOMER CARD | WORK DATE: 1/27/2022

10000 · Cannon Group SpA

New Document Request Approval Navigate Customer Actions Navigate Report Fewer options

General Show more

No.	10000	Costs (LCY)	19.281.10
Name	Cannon Group SpA	Tax Representative Type	
Balance (LCY)	274.319.31	Tax Representative No.	
Balance Due (LCY)	0.00	Cust. Template	CUSTOMERTEST
Credit Limit (LCY)	0.00	Our Bank Account	BDL
Exposure (LCY)	0.00	Attach PDF XML	☐
Blocked		Cust. Type	Company

Sales Header

The customer information is automatically reported in the sales/service documents (quote, order, invoice):

MSYS Additional Information

Our Bank Account	BDL	WITHHOLDING TAX	
Reason		Withholding Tax %	10.00
Stamp Duty Exclusion	☐	Base %	5.00
PA Code		ENASARCO	
		Cash %	30.00

Combine shipment

Setup SDI

If active, it adds the PA code or Our Bank Account as a new invoice creation criterion.

Combine Shipments

New Invoice for PA Code ☐ New Invoice for Our Bank Account ☐

Electronic document formats

Enter the value **70469526** in the field **Codeunit ID**:

ELECTRONIC DOCUMENT FORMATS | WORK DATE: 1/27/2022

GENERAL

Code Usage

Manage

Code ↑	Description	Usage ↑	Codeunit ID	Codeunit Caption
FATTURAPA	FatturaPA (Fattura elettronica)	Sales Invoice	70469526	MSYS SDI Export XML Document
FATTURAPA	FatturaPA (Fattura elettronica)	Sales Credit Me...	70469526	MSYS SDI Export XML Document
FATTURAPA	FatturaPA (Fattura elettronica)	Sales Validation	12180	FatturaPA Sales Validation
FATTURAPA	FatturaPA (Fattura elettronica)	Service Invoice	70469526	MSYS SDI Export XML Document
FATTURAPA	FatturaPA (Fattura elettronica)	Service Credit ...	70469526	MSYS SDI Export XML Document
FATTURAPA	FatturaPA (Fattura elettronica)	Service Validation	12181	FatturaPA Service Validation

Operation

Stamp duty

Suppose we want to assign the stamp to the customer:

NAZIONALE - CLIENTI E FORNITORI NAZIONALI | WORK DATE: 1/27/2022

✓ SAVED

VAT Posting Setup

VAT Bus. Posting Group	VAT Prod. Posting Group	Description	VAT Identifier	V...	Virtual Duty	Incl... in VAT Tran...	Deductible %	VAT Calculation Type	Reversed VAT Bus. Post. Group	Reversed VAT Prod. Post. Group
NAZIONALE				0		☐	100	Normal VAT		
NAZIONALE	E13		E13	0		☐	100	Normal VAT		
NAZIONALE	IND50		IND50	20		☐	50	Normal VAT		
NAZIONALE	IVA10		IVA10	10		☐	100	Normal VAT		
NAZIONALE	IVA20		IVA20	20		☐	100	Normal VAT		
NAZIONALE	IVA22		IVA22	22		☐	100	Normal VAT		
NAZIONALE	IVA22SP		IVA22	22		☐	100	Full VAT	NAZIONALE	IVA22
→ NAZIONALE	NO IVA		NO IVA	0	Customer charge	☐	100	Normal VAT		

In the lines of the document:

SALES INVOICE | WORK DATE: 1/27/2022



+



✓ SAVED



1021 · Cannon Group SpA

<

At this point it is possible to check the stamp assignment in two ways:

- **Manually:** press the action *Check duty stamp*

SALES INVOICE | WORK DATE: 1/27/2022



+



1021 · Cannon Group SpA

Process	Posting	Prepare	Invoice	Release	Request Approval	Navigate	Actions	Navigate	Fewer options
⚡ Functions	+	Insert doc. tags from rule	Check duty stamp	Request Approval	+	Posting			

- **Automatically:** upon release of the document (when a document is registered, it is first released)

SALES INVOICE | WORK DATE: 1/27/2022



1021 · Cannon Group SpA

Process Posting Prepare Invoice **Release** Request Approval Navigate Actions Navigate Fewer options

Release Reopen

The result of the two operations is as follows:

- Entering the charge line:

Type	No.	Service Tariff No.	Description	Location Code	Quantity	Unit of Measure Code	Unit Price Excl. VAT	Incl... in VAT Tran... Rep.	VAT Prod. Posting Group
G/L Account	5780		Stamp duty paid virtually.	BLU	1		2.00	☐	NO IVA
→ Item	1000		Bicicletta	BLU	1	PZ	4,000.00	☐	NO IVA
								☐	
								☐	

- Activation of standard fields:

Invoice Details

Show less

Currency Code		Department Code	VENDITE
Shipment Date	1/27/2022	Project Code	
3rd Party Loader Type		Direct Debit Mandate ID	
3rd Party Loader No.		Fattura Project Code	
VAT Bus. Posting Group	NAZIONALE	Fattura Tender Code	
Payment Terms Code	1M(8G)	Fattura Stamp	☒
Payment Method Code		Fattura Stamp Amount	2.00
Bank Account	ANT	Customer Purchase Order No.	
Cumulative Bank Receipts	☐	Location Code	BLU

In case of stamp duty not charged to the customer, only the standard fields are activated.

This field has been inserted in the header of the document in order to inhibit any automatic stamp management:

MSYS Additional Information

Our Bank Account	BDL	WITHHOLDING TAX	
Reason		Withholding Tax %	10.00
Stamp Duty Exclusion	☒	Base %	5.00
PA Code		ENASARCO	
		Cash %	30.00

Split payment

When the document is released, the system inserts the Full VAT line relating to the split payment:

Type	Description	Location Code	Quantity	Unit of Measure Code	Unit Price Excl. VAT	VAT Tran... Rep.	VAT Prod. Posting Group	Line Disc... %	Line Amount Excl. VAT
→ Item	Bicicletta	BLU	1	PZ	4,000.00	☐	IVA22		4,000.00
G/L Account	IVA vendite 22 %		-1		880.00	☐	IVA22SP		-880.00
						☐			
						☐			
						☐			

Subtotal Excl. VAT (EUR)	3,120.00	Total Excl. VAT (EUR)	4,000.00
Inv. Discount Amount Excl. VAT ...	0.00	Total VAT (EUR)	0.00
Invoice Discount %	0	Total Incl. VAT (EUR)	4,000.00

Inserting rule on the document

When the document is released, the system inserts the rules set to setup.

Header rules:

MSYS Electronic Invoicing

Document Header Tag ▾

	Group No.	Tag Group	Tag Name	Tag Value
→	0	DatiOrdineAcquisto	IdDocumento	ACQ-20-00001
	0	DatiGeneraliDocumento	Causale	Causale Test

Line rules:

Lines
Manage
Line
Fewer options

Select items...
Insert line details
New Line
Delete Line

Type	No.	Service Tariff No.	Description	Location Code	Quantity	Measure Code	Unit Price Excl. VAT	Tran... Rep.	VAT Prod. Posting Group
→ Item	1000		Bicicletta	BLU	1	PZ	4,000.00	☐	IVA20

INSERT LINES DETAILS | WORK DATE: 1/27/2022
✓ SAVED

Search
New
Edit List
Delete
Open in Excel

Group No.	Tag Group	Tag Name	Tag Value
→ 0	CodiceArticolo	CodiceTipo	EAN
0	CodiceArticolo	CodiceValore	56-DT-98
0	AltriDatiGestionali	TipoDato	Other data
0	AltriDatiGestionali	RiferimentoTesto	Doc no. 1032 of 01/27/22

In the same way, on the registered document it is possible to check which additional tags will be exported to the xml file.