



RELEASE NOTES

**eftsure inside Microsoft
Dynamics 365 for
Finance and Operations
Enterprise Edition**

EFTSURE INSIDE D365

FIELD EXTENSIONS

WHITE PAPER

This document describes the tools and methods available to further customise records created / updated during electronic onboarding.

eftsurre allows the creation of onboarding forms with optional custom sections and fields that your organisation is likely to persist in your database.

This can be achieved either through configuration or development, depending on your requirements.

In most cases, such further extensions can help prevent additional manual and repetitive tasks.

CONFIGURATION

3 different tools are available to help configuring your fields, both available in the Parameters form:

Default values

Field mappings

Contact Infos

Parameters for eftsurre

- eftsure
- Entities
- Users
- Onboarding**
- Payments
- Vendor groups
- Vendor copy
- Vendor collaboration
- User interface
- Batches
- Logs

General

Banking options

Contact Information

Addresses ▾

Physical

Postal

Forms ▾

Default values

Field mappings

Contact infos

Greeting ▾

Each tool will allow different configuration per onboarding form.

The following fields will not be allowed for these features:

System fields, non visible fields, non editable fields, eftsure reserved fields.

A note section is available at the bottom of the screen to enter any custom user notes, and a copy button is available to copy field mappings and default values to other form.

These features have their own related data entities and are therefore exported and imported as part of the configuration.

These features occur during the vendor creation/update process and are designed to run one after another, first default values, then field mappings, then contacts infos, then out of the box field mapping, then a call is made to `onProcessCustomFields()`.

If the same field is used in both default values and field mappings, the latter will win.

Default values

Default values are like hardcoded values that the administrator can configure to change field values outside of the standard features.

General

Banking options

Addresses

Contact Information

Forms

Default values

Field mappings

Configurable default values for D365 fields.
Default values run just before Field Mappings.
For more advanced rules, see our Technical Guide or subscribe to PESUpsertVendor.onProcessCustomFields(), which runs at the end of the process.

Name

+ New Delete Copy

Demo

	Reference table name	Reference field name	Value
	VendTable	BidOnly	Yes
	VendTable	LocallyOwned	No
	VendTable	Memo	TEST DEFAULT VALUES
	VendBankAccount	AccountID	VBA_

With the above configuration, you can expect the following output from vendor creation.

SELECT ACCOUNTNUM, MEMO, BIDONLY, LOCALLYOWNED, BANKACCOUNT FROM VENDTABLE
SELECT VENDACCOUNT, ACCOUNTID FROM VENDBANKACCOUNT

100 %

Results Messages

	ACCOUNTNUM	MEMO	BIDONLY	LOCALLYOWNED	BANKACCOUNT
1	PNC-001315	TEST DEFAULT VALUES	1	0	VBA_

	VENDACCOUNT	ACCOUNTID
1	PNC-001315	VBA_

Field Mappings

Field mappings allow the mapping of onboarding values to additional fields on table.

Note: D365 is not aware of onboarding form design or fields, it uses the list of onboardings to populate the lookups below. Therefore it is recommended to perform an onboarding once the onboarding form design is completed, before configuring the field mappings.

Name	Onboarding Field	Reference table name	Reference field name
Demo	EntityName	VendTable	Memo
	SmallBusiness	VendTable	ChangeRequestOverride

With the above configuration, you can expect the following output from vendor creation.

ACCOUNTNUM	MEMO	CHANGEREQUESTOVERRIDE
PNC-001316	YOUR BUILDING COMPANY PTY LTD	0

The Onboarding Field column is a free text column and it's lookup is only populated once onboarding values exist, which shouldn't prevent anyone from configuring. This column relates to the **Export Header Name Override** property on the eftsure onboarding form.

Value testers

For both features, a value tester is available at the bottom of the screen to allow visual validation of the rule:

Example of valid string with related table (vendor account):

Onboarding Field	Reference table name	Data Type	Value
VendBankAccount	VendAccount	String	AAR001

Preview: VendBankAccount.VendAccount = AAR001

Example of invalid string with related table (vendor account):

<input checked="" type="checkbox"/>	VendBankAccount	▼	VendAccount	▼	String	AAR00	I
-------------------------------------	-----------------	---	-------------	---	--------	-------	---

pnc ▼ Preview: Unable to set default value AAR00 to VendBankAccount.VendAccount

Example of valid enum (Blocked: No):

<input checked="" type="checkbox"/>	VendTable	▼	Blocked	▼	Enum	No
-------------------------------------	-----------	---	---------	---	------	----

Preview: VendTable.Blocked = No

Valid values: No, Invoice, All, Payment, Requisition, Never, PurchOrder

Example of invalid enum (Blocked: None):

<input type="radio"/>	VendTable	▼	Blocked	▼	Enum	None
-----------------------	-----------	---	---------	---	------	------

Preview: Unable to set default value None to VendTable.Blocked

Valid values: No, Invoice, All, Payment, Requisition, Never, PurchOrder

Contact Infos

Contact infos allow the creation of additional contact details based on onboarding values.

You can configure new contact details:

- at the Vendor (Party) or Contact person level
- with different purposes or roles
- with different contact types (Email, Phone, ...)

Note: D365 is not aware of onboarding form design or fields, it uses the list of onboardings to populate the lookups below. Therefore it is recommended to perform an onboarding once the onboarding form design is completed, before configuring the field mappings.

Configurable contact infos for onboarding forms.
Contact infos runs immediately after default values and field maps.
See the 'Export Header Name Override' value in eftsure portal for each field in your form design.
It is recommended to process a full onboarding before configuration, in order to have all values populate in their lookups.
For more information, see [Address and contact information purpose](#) and our White Paper on [Field extensions](#).

Comp...	Company name	Form name	Onboarding Field	Type	Link	Purpose(s)
	GLCO Contoso Group	2FA				
	GLMF Contoso Entertainment Sy...	Change request form				
	GLRT Contoso Retail	AE Demo	InvoiceEmail	eftsure email	Party	Invoice
	GLSI Contoso Consulting	Employees	RemitEmail...	RemitEmail	Email address	Party Business Home
	INMF Contoso Entertainment Sy...	International	RemitEmail...	RemitEmail	Email address	Contact p... Recruit SMS
	ITCO Contoso Italy	Minimal				
	JPMF Contoso Entertainment Ja...	NoAutomation				
	MXMF Contoso Entertainment Sy...	Standard				
	MYMF Contoso Entertainment Sy...					
	PDS PNew Data Sharing AUS					
	PERO PERO					
	PNC Your Company					
	PNN PNew NZ Software					
	PNS PNew Software					
	PNT PNew Training					
	PNZ NZ HQ					
	PNZS NZ South					
	RUMF Contoso Entertainment Sy...					
	RURT Contoso Retail RUS					
	SAMF Contoso Entertainment Sy...					
	THMF Contoso Entertainment Sy...					
	US01 us01					
	USMF Contoso US Manufacturing					
	USP2 Contoso Orange Juice					
	USPI Contoso Process Industry					
	USRT Contoso Retail USA					
	USS1 Contoso Consulting USA					

With the above configuration, and the following onboarding form values:

* Demo Custom Uploads

File	Value
File 1	
File 2	
Invoice Email	invoice@gmail.com
New Question	2024-05-13
Remit Email	remit@gmail.com

You can expect the following additions to standard vendor creation:

Finance and Operations Preview PNC Search Notifications Settings Help AD

Vendors | Standard view Save + New Delete eftsure Vendor Procurement Invoice General Options Search

PNC-001764 : FORU PTY LTD GOV TAX Info

General DEF Not Active

Addresses

Contact information

+ Add Remove Edit contact information

Description	Type	Contact number/address	Extension	Primary	
Onboarding Email	eftsure email	foru@gmail.com		<input checked="" type="checkbox"/>	Like
Onboarding Mobile phone	eftsure mobile phone	0403 905 765		<input checked="" type="checkbox"/>	Like
RemitEmailVendor	Email address	remit@gmail.com		<input checked="" type="checkbox"/>	Email
InvoiceEmail	eftsure email	invoice@gmail.com		<input checked="" type="checkbox"/>	Like

And the following addition to contact creation:

Finance and Operations Preview PNC

Contacts | PNC-001764 : FORU PTY LTD | Standard view Save + New Delete Contact Competencies Market General Options Search

PNC-003361 : Business Owner

General

Addresses

Contact information

+ Add Remove Advanced

Description	Type	Contact number/address	Extension	Primary	
Onboarding invitation Em...	eftsure email	foru@gmail.com		<input checked="" type="checkbox"/>	Like
Onboarding invitation mo...	eftsure mobile phone	0403 905 765		<input checked="" type="checkbox"/>	Like
RemitEmailContact	Email address	remit@gmail.com		<input checked="" type="checkbox"/>	Email

EXTENSIONS

Additionally, code extensions are available during several events raised by our solution.

The delegate **PESUpsertVendor.onProcessCustomFields()** is used to further extend the out of the box solution, especially when complex rules and logic are required.

```
delegate void onProcessCustomFields(PESOnboardingInfo infos, VendTable v, VendBankAccount vba)
{
}
```

In this example, we'll create a new class called **MyCustomCode**:

```
class MyCustomCode
{
    [SubscribesTo(classStr(PESUpsertVendor), delegateStr(PESUpsertVendor, onProcessCustomFields))]
    public static void PESUpsertVendor_onProcessCustomFields(PESOnboardingInfo infos, VendTable v, VendBankAccount vba)
    {
        v.MyCustomField1 = infos.getValue("1500"); //Hardcoded custom field value
        v.update();

        vba.MyCustomField1 = infos.getValue("1501"); //Hardcoded custom field value
        vba.update();
    }
}
```

Alternatively, you can also request field values by name when using 'Export Header Name Override'.

```
Infos.getValueByName('File1');
```

```
Infos.getExpiryByName('File1');
```

This method subscribes to the delegate and runs each time a vendor is updated, allowing each customer or partner to further extend this solution.

Custom fields

Custom sections and custom fields on onboarding and verification forms are downloaded from eftsure during the 'Get onboarding information' step and are available for developers to interact with.

The custom fields, along with standard onboarding fields are stored in table **PESONBOARDINGFIELD**.

SELECT ONBOARDINGID, ID, NAME, VALUE, TYPE, SECTION, FILENAME FROM PESONBOARDINGFIELD

	ONBOARDINGID	ID	NAME	VALUE	TYPE	SECTION	FILENAME
1	8955	_A1	ABN		1	AustralianBusinessRegistryInformation	
2	8955	_A2	ABNStatus	Active	1	AustralianBusinessRegistryInformation	
3	8955	_A3	ABNStatusDate	1999-11-01	9	AustralianBusinessRegistryInformation	
4	8955	_A4	EntityName		1	AustralianBusinessRegistryInformation	
5	8955	_A5	EntityType	NULL	1	AustralianBusinessRegistryInformation	
6	8955	_A6	GSTRegistration	Registered	1	AustralianBusinessRegistryInformation	
7	8955	_A7	GSTRegistrationDate	2016-02-10	9	AustralianBusinessRegistryInformation	
8	8955	_A8	EntityId	NULL	1	AustralianBusinessRegistryInformation	
9	8955	1591	SignedNDA	178	8	Files	NDA Partner.docx
10	8955	1592	Signedcontract	179	8	Files	Contract Partner.docx
11	8955	1593	Haveyoubeenasupplierwithusbefore	No	3	GeneralInformation	
12	8955	1594	Typeofbusinesspartnership	Local	4	GeneralInformation	
13	8955	1595	Dateofexpectedfirstpayment	30 Jun 2019	9	GeneralInformation	
14	8955	1596	Amountofexpectedfirstpayment	1000	12	GeneralInformation	
15	8955	1597	Anycomments	Invoice Fortnightly - Payment 30 EOM	11	Moredetails	

The standard onboarding fields are all prefix with an underscore. All the fields are displayed in the onboarding values form in order to validate onboarding and verifications. In the following screen, standard fields are highlighted in green and custom fields are highlighted in red.

Finance and Operations

Search for a page

USMF

AD

OPTIONS

ONBOARDING VALUES | ACCOUNTS@PFIZER.COM : 000430

Filter

Field ID	Name	Section	Value	Create
_O3	InviteEmailResult	eftsureInformation		29/07
_O4	InviteMobilePhone	eftsureInformation	+61404923404	29/07
_O5	InviteMobilePhoneVerified	eftsureInformation	False	29/07
_V10	Status	VerificationStatus	Not verified yet	29/07
1787	Numberofemployees	Additionaldetails		29/07
1788	Dateoflastinvoice	Additionaldetails		29/07
1789	NewNDA	Additionaldetails		29/07
1790	Newcontract	Additionaldetails		29/07

Note: Upload or attachments fields are automatically attached to both the onboarding record and the vendor record.

Export Header Name Override

If you wish to use naming conventions for your fields, in order to keep consistency across environments, you'll need to set a '**Export Header Name Override**' in the field properties in the eftsure portal. Then the field name will become the value from 'Export Header Name Override', instead of field text. In the following example, our **File Upload** field **Contract** has been named **File1**, and therefore will be retrieved later on as 'File1', instead of an integer field Id that is different from one environment to the other.

The image consists of two screenshots from the eftsure portal. The top screenshot shows the 'Demo - Custom Uploads' section with a list of fields. The 'Contract' field is highlighted with a red box, and a gear icon next to it indicates configuration options. The bottom screenshot shows the 'Edit Customer Specific Field' dialog for the 'Contract' field. The 'Export Header Name Override' field is highlighted with a green box and contains the value 'File1'. The dialog also includes fields for 'Title', 'Notes', 'Required' (Yes/No), and 'Internal Use Only' (Yes/No).

Top Screenshot: Demo - Custom Uploads

- Left sidebar: Customer options, Dashboard, Supplier Onboarding, Supplier Management, Payments Review, Reports, Document Library, Help.
- Main content: Demo - Custom Uploads. Fields listed: Contract, Non Disclosure Agreement. Each field has 'Upload new file' and 'Select previously uploaded file' buttons.
- Right sidebar: Customise Form. Options: + Custom Section, + Short Text Entry (Textbox), + Long Text Entry (Textarea).

Bottom Screenshot: Edit Customer Specific Field

- Title: Contract
- Notes: Please enter additional notes (if any) for this question...
- Export Header Name Override: File1
- Required: ☐ Yes ☒ No
- Internal Use Only: ☐ Yes ☒ No
- Buttons: Cancel, Update Field

Code sample

```
[SubscribesTo(classStr(PESUpsertVendor), delegateStr(PESUpsertVendor,
onProcessCustomFields))]
public static void PESUpsertVendor_onProcessCustomFields(PESOnboardingInfo infos,
VendTable v, VendBankAccount vba)
{
    v.PaymTermId = v.VendGroup == 'EMPL' ? 'D10' :
Infos.getValueByName('PaymentTerms');

    v.YourAccountNum = 'YOUR_NAME';
    v.PaymId = 'YOUR_ID';
    v.update();
}
```

DELEGATES

This module offers several integration points available in the form of delegate methods which are invoked as part of our workflow. Any developer can subscribe to delegates from our publisher classes to extend the features of this module. For more information about delegates in Microsoft Dynamics 365 FO, please refer to <https://docs.microsoft.com/en-us/dynamics365/unified-operations/dev-itpro/extensibility/extensible-code-delegates>.

List of available delegates

Several publisher classes are available during the eftsure workflow to allow non-intrusive customisations by extensions, without over-layering:

Delegate method	Description
PESGetOnboardingInfo	
onInfoUpdate	Invoked once for each onboarding and verification upserted in the system when downloading supplier information from eftsure.
onDocumentBeforeInsert	Extension point to be used for before an attachment is created, amongst others, to set expiration date matching document
onDocumentAfterInsert	Extension point to be used for after an onboarding attachment is created, amongst others, to set expiration date matching document
PESInvite	
onReplacePlaceholders	Invoked when replacing placeholders on the invitation text to support custom placeholders.
PESLimitPayment	
onPaymentLimitUpdated	Invoked once each time a vendor bank account's payment limit is updated into eftsure.
PESSelfCertify	
onSelfCertified	Invoked once each time a vendor bank account's self-certification status is updated into eftsure.
PESUpdate	
onVendBankAccountUpdated	Invoked each time eftsure acknowledged a bank account update.
onVerificationInfoUpserted	Invoked each time eftsure a bank account verification information is received from eftsure
PESGetSupplierInfo	
onVendTableUpdated	Invoked each time a vendor is modified
onVendBankAccountUpdated	Invoked each time a bank account is modified
onPESVendTableUpdated	Invoked each time a vendor is modified

onFailedToFindBankAccount	Invoked if the eftsure supplier can't be found in the system, allows the customer to have their own mapping rule for eftsure's supplier code. This delegate is mostly used for projects where eftsure was connected to a legacy system prior to D365FO.
PESUpsertVendor	
onVendTableUpserted	Invoked each time a vendor is modified
onVendBankAccountUpserted	Invoked each time a bank account is modified
onUserUpserted	Invoke each time a user is upserted for vendor collaboration
onProcessCustomFields	Invoked at the end of processing onboarding and verification information, but before committing the changes in the database. This is the recommended place to use your custom fields and store them into the database.
PESVerify	
onLedgerJournalTransUpdated	Invoked during payment journal validation, once the eftsure verification values have been updated on the transaction line.
onVendBankAccountsUpdated	Invoked during payment journal validation, once the eftsure verification values have been updated on the bank account.
onVendTableUpdated	Invoked during payment journal validation, once the eftsure verification values have been updated on the vendor.
onPESVendTableUpdated	Invoked during payment journal validation, once the eftsure verification values have been updated on the vendor.
PESHtmlScreenshotControl	
onScreenshotCompleted	Method called once the screenshot has completed, but before the screenshot contents have been uploaded to the server in async manner After this event, the UI can be changed while the screenshot contents are being uploaded to the server.
onScreenshotUploaded	Method called after successful upload of the screenshot, screenshot can be used for any purpose

See appendix Delegates declaration for full event handlers declaration.