

# New developers features in vtenext 26.04

In version 26.04 some additional changes have been made to the code to simplify the development of custom functionalities in certain areas.

View the [developer release notes](#).

- [Mailscanner \(Mail Converter\)](#)
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# Mailscanner (Mail Converter)

Several Mailscanner classes are now extendable via `SDK::setClass`:

- MailScanner
- MailScannerAction
- MailScannerInfo
- MailScannerRule
- MailScannerSpam
- MailScannerMailBox
- MailScannerMailBoxZend

This allows for easier extensibility using our standard SDK.

Moreover, the list of actions (for example: Create Ticket, Update Ticket, ...) for each rule is now stored in the database and not hardcoded in various files. So adding a new action is much easier now:

```
require_once 'modules/Settings/MailScanner/core/MailScannerAction.php';

// extend the class to implement custom actions
SDK::setClass('MailScannerAction', 'MailScannerActionCustom',
'modules/SDK/src/CUSTOMER/MailScannerActionCustom.php');

// add an action to create a task (custom module, or even Calendar)
MailScannerAction::addActionType('CREATE,Task,FROM', 'LBL_CREATE_MS_TASK', 'createTask');

// add the label
SDK::setLanguageEntries('Settings', 'LBL_CREATE_MS_TASK', ['it_it' => 'Crea compito', 'en_us'
=> 'Create task']);
```

And the extended class in `MailScannerActionCustom.php`:

```
<?php

class MailScannerActionCustom extends MailScannerAction {
[]
[]/**
[] * Example of a custom mailscanner action
[] */
```

```

function createTask($mailscanner, $mailrecord, $regexMatchInfo, $compare_parentid,
$match_field) {
    $subject = $mailrecord->_subject;
    $description = $mailrecord->getBodyText();

    // create a record "CustomTask"
    $inst = \CRMEntity::getInstance('CustomTask');
    $inst->mode = '';

    // populate some fields
    $inst->column_fields['taskname'] = $subject;
    $inst->column_fields['description'] = $description;
    $inst->column_fields['date'] = date('Y-m-d');

    // save it
    $inst->save('CustomTask');

    // Associate any attachment of the email to the record
    $this->__SaveAttachments($mailrecord, $inst->modulename, $inst, $inst);

    // create the Messages record
    $this->__CreateNewEmail($mailrecord, $this->module, $inst);

    // return the record id, to signal the correct application of the action
    return $inst->id;
}
}

```

Will produce a new action in the rule:



Search...



## Settings > Mail Converter

Configure mailbox for scanning



### Mail Converter Rule Information



Scanner Name

test

From

test@example.com

To

Subject

-- Select Condition --

Body

-- Select Condition --



Headers



Match

All Condition  Any Condition



Action

- Create task
- Create Ticket
- Update Ticket
- Add To Contact [FROM]
- Add To Contact [TO]
- Add To Account [FROM]
- Add To Contact [TO]
- Add To Lead [FROM]
- Add To Lead [TO]
- Do nothing
- Create task

# Record conversion

In the latest version the handling of record conversion (converting a Quote to a SalesOrder, or a SalesOrder to an Invoice...) has been generalized and centralized in a single place.

The list of available conversion modes is now in the table `vte_convertmodes`, which is managed by the class `ConvertModesUtils` which gives the possibility to add new conversion modes between standard or custom modules.

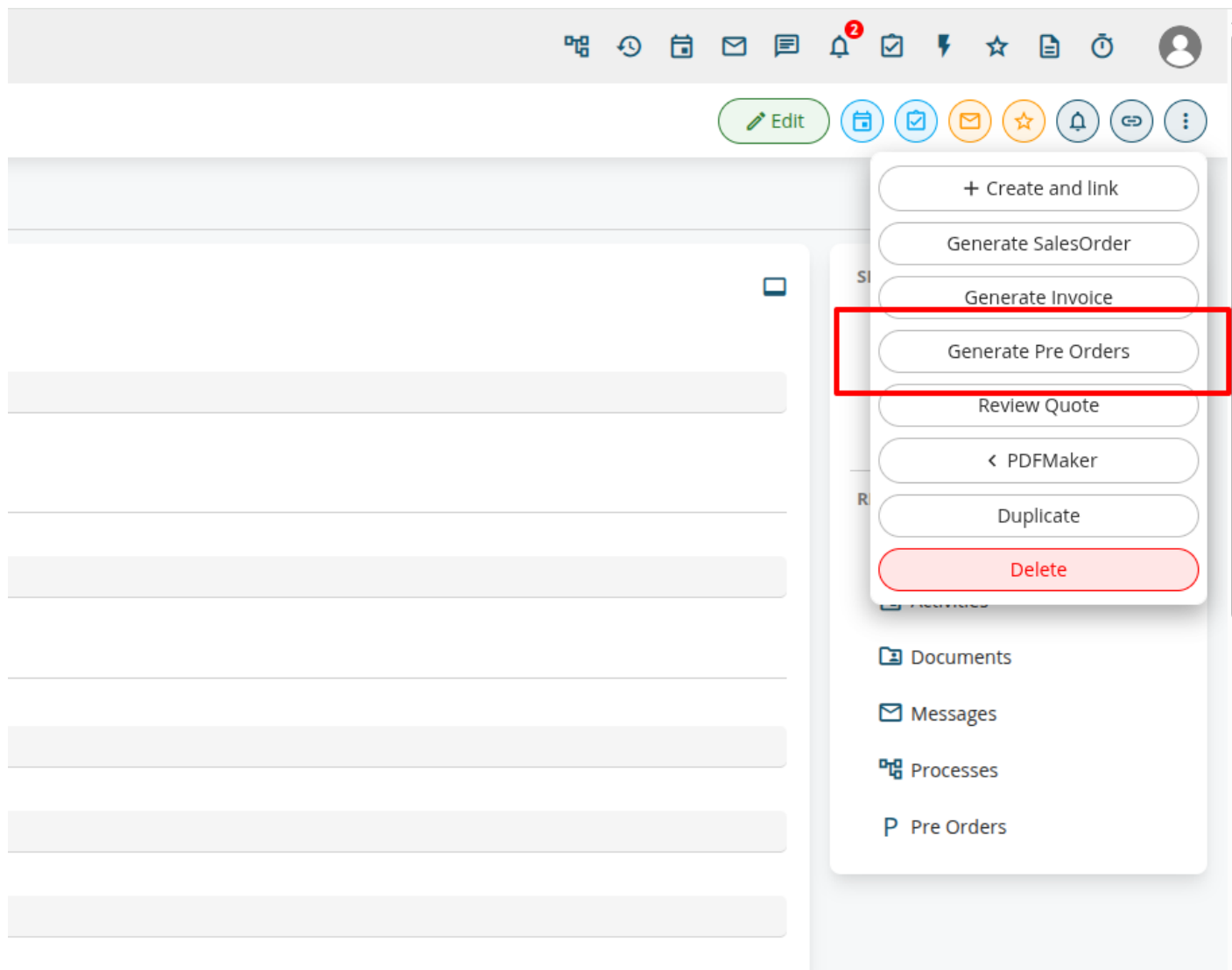
For example, to add a new conversion mode from module Quote, to a custom module (with products) PreOrders:

```
// instantiate the utils class
$CMU = ConvertModesUtils::getInstance();

// define the mapping for the fields, key is destination field, value is the source
(mapping = [
    // dest => source
    ['vcf_1_1' => 'subject',
    'description' => 'description'
]);

// add the convert mode
$CMU->addConvertMode(
    ['quotetopreorder', // unique name for the mode, can be any string
    'Quotes', // starting module
    'PreOrders', // second module
    'record', // the parameter in request that will pass the record id. by default "record"
    'quoteid', // name of the field in the destination module with a reference to the first mo
    can be null
    true, // if true, show the button in Quotes
    5, // sequence of the button, among other conversion buttons
    'handleRecordConversion', // the method to handle the conversion. You can specify a different
    one in the PreOrders class if you wish to do something different
    $mapping // the fields mapping. products block is automatically copied
);
```

The button will appear automatically:



# CSV Import

One of the classes used by the standard CSV Import (the one available from any module's ListView) has been made extendable via `SDK::setClass` and highly refactored to split the main method into smaller ones, to ease modification of specific behaviours:

- `Import_Data_Controller`: This class now can be extended

For example, if you need to modify a value of a specific field before being saved to the database:

```
// register the class
SDK::setClass('Import_Data_Controller', 'Import_Data_ControllerCustom',
'modules/SDK/src/CUSTOMER/ImportCustom.php');
```

And the class:

```
<?php

require_once('modules/Import/controllers/Import_Data_Controller.php');

class Import_Data_ControllerCustom extends Import_Data_Controller {
    []
    []/**
    [] * Transform a single field value to a format suitable to vte
    [] */
    []protected function transformFieldValue($fieldName, $fieldValue, $fieldInstance, $moduleMeta) {
    [][]$fieldValue = parent::transformFieldValue($fieldName, $fieldValue, $fieldInstance,
    [][]$moduleMeta);
    [][]
    [][]if ('Accounts' === $this->module && 'accountname' === $fieldName) {
    [][][]// append "IMPORTED" to the accountname
    [][][]$fieldValue .= ' - IMPORTED';
    [][]}
    [][]
    [][]return $fieldValue;
    []}
}
```



# VteSync (synchronizations)

VteSync connectors are now extendable via `SDK::setClass` so it's easier to add new functionalities or changing the field mapping.

For example, to extend the WooCommerce connector:

```
// classes are namespaced
SDK::setClass('VteSyncLib\Connector\WooCommerce', 'WooCommerceCustom',
'modules/SDK/src/CUSTOMER/WooCommerceCustom.php');
```

The extended connector:

```
<?php

// namespace the class, so it's easier to work with it
namespace VteSyncLib\Connector;

class WooCommerceCustom extends WooCommerce {

    // extend the constructor to alter the standard models
    public function __construct($config = array(), $storage = null) {
        parent::__construct($config, $storage);

        // in this case, the class is in the same folder, so no need to include it
        $this->classes['Accounts'] = array(
            'module' => 'Accounts',
            'commonClass' => 'VteSyncLib\Model\CommonRecord',
            'class' => 'VteSyncLib\Connector\WooCommerce\Model\AccountCustom'
        );
    }

    // or it's possible to redefine any existing method
}
```

And the custom model:

```

<?php

// include parent class
require_once(__DIR__.'/Account.php');

namespace VteSyncLib\Connector\WooCommerce\Model;

class AccountCustom extends Account {

    // here I redefine the mapping, removing or adding fields
    protected static $fieldMap = array(
        // WooCommerce => CommonRecord
        'email' => 'email',
        'username' => 'name',
        // 'phone' => 'phone', // THIS IS COMMENTED

        // billing address
        'address' => 'billingstreet',
        'city' => 'billingcity',
        'postcode' => 'billingpostalcode',
        'state' => 'billingstate',
        'country' => 'billingcountry',
        'companybill' => 'companybill',
        'firstnamebill' => 'firstnamebill',
        'lastnamebill' => 'lastnamebill',
        // shipping address
        'address_shipping' => 'shippingstreet',
        'city_shipping' => 'shippingcity',
        'postcode_shipping' => 'shippingpostalcode',
        'state_shipping' => 'shippingstate',
        'country_shipping' => 'shippingcountry',
        'companyship' => 'companyship',
        'firstnameship' => 'firstnameship',
        'lastnameship' => 'lastnameship',

        //
        // 'otherfield' => 'otherfield', // THIS IS CUSTOM!
        // // you probably also need to alter the VTE models, to connect this mapping to vte's one
    );

    // this function is called to prepare the array to be sent to woocommerce

```

```
public function toRawData($mode) {  
    $raw = parent::toRawData($mode);  
      
    // when sendind data to woo, hardcode this additional field:  
    $row['somefield'] = 'somevalue';  
      
    return $raw;  
}  
  
}
```

# ListView extendability

The `ListViewController` class has been refactored to be more performant and easily extendable.

For example, now it's much easier to add new icons into the *Actions* column:

```
SDK::setClass('ListViewController', 'ListViewControllerCustom',  
'modules/SDK/src/CUSTOMER/ListViewControllerCustom.php');
```

And the class:

```
<?php  
  
require_once('include/ListView/ListViewController.php');  
  
class ListViewControllerCustom extends ListViewController {  
    []  
    []/**  
    [] * Generate an array of strings to be concatenated and set as the "action" column  
    [] */  
    []public function generateActions($focus, $recordId, array $sqlrow = [], $navigationInfo = []) :  
    array {  
        []$actionLinkInfo = parent::generateActions($focus, $recordId, $sqlrow, $navigationInfo);  
        []  
        []$module = $focus->modulename;  
        []if ($module === 'Leads') {  
            [][]// add an icon to each lead to open the record in the erp:  
            [][]$actionLinkInfo[] = "<a href=\"https://myerp.example.com/lead/$recordId\" target=\"_blank\">  
            class=\"vteicon\">open_in_browser</i></a>";  
            []}  
            []  
            []return $actionLinkInfo;  
        []}  
        []  
    }  
}
```

Resulting in:

LIST

+ Create Other

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| <input type="checkbox"/> | Action | Lead No              | Last Name            | First Name           | Company              | Phone                | Website                 | Email                |
|--------------------------|--------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|
| <input type="checkbox"/> |        | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/>    | <input type="text"/> |
| <input type="checkbox"/> |        | LEA5                 | Brown                | Elizabeth            | X-ceed inc 99        | (324) 659-4253       | www.x-ceedinc99.com     | elizabe              |
| <input type="checkbox"/> |        | LEA6                 | Davis                | Jennifer             | Vtecrm               | (557) 324-1874       | www.demovte.com         | jennife              |
| <input type="checkbox"/> |        | LEA2                 | Johnson              | Patricia             | T3m Invest a/s       | (728) 492-7204       | www.t3minvesta/s.com    | patrici              |
| <input type="checkbox"/> |        | LEA4                 | Jones                | Barbara              | Vtecrm inc           | (874) 111-9300       | www.vtecrm.com          | barbar               |
| <input type="checkbox"/> |        | LEA7                 | Miller               | Maria                | T3m Invest a/s       | (324) 126-5147       | www.usable-vte.com      | maria_               |
| <input type="checkbox"/> |        | LEA9                 | Moore                | Margaret             | Vtecrm inc           | (590) 142-8974       | www.vteuser.com         | margar               |
| <input type="checkbox"/> |        | LEA1                 | Smith                | Mary                 | Vtecrm               | (335) 561-4530       | www.vtecrm.com          | mary_s               |
| <input type="checkbox"/> |        | LEA10                | Taylor               | Dorothy              | X-ceed inc 99        | (533) 372-2791       | www.samplevte.com       | doroth               |
| <input type="checkbox"/> |        | LEA3                 | Williams             | Linda                | Edfg group limited   | (391) 383-2328       | www.edfgrouplimited.com | linda_v              |
| <input type="checkbox"/> |        | LEA8                 | Wilson               | Susan                | Edfg group limited   | (650) 675-2085       | www.gooduivte.com       | susan_               |

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# Webforms

The class `WebformCapture` is now extendable via `SDK::setClass` and the main method `captureNow` has been split up in several methods to facilitate modification of specific behaviours.

For example, to force the value of a field with a dynamic value upon Lead creation:

First we have to register the extension:

```
SDK::setClass('WebformCapture', 'WebformCaptureCustom',  
'modules/SDK/src/CUSTOMER/WebformCaptureCustom.php');
```

And then extend the `prepareParameters` method:

```
<?php  
  
require_once('modules/Webforms/WebformCapture.php');  
  
class WebformCaptureCustom extends WebformCapture {  
    []  
    []/**  
    [] * Read data from request and populate the necessary fields  
    [] */  
    []protected function prepareParameters(array $request, Webforms_Model $webform) : array {  
        [] // call the parent method to fill the standard values  
        [] $parameters = parent::prepareParameters($request, $webform);  
  
        [] // populate the field with a random value (makeRandomString is just an example here)  
        [] $parameters['my_field_random'] = makeRandomString();  
        []  
        [] return $parameters;  
    []}  
}
```

# Code Review Skill

There is a **skill** available for use with **AI agents** built into your IDE that can help you adapt your code to the new release.

More details available in the [documentation](#).

Once the analysis is complete, the files are checked and the original ones are overwritten, run `tools/check-requests` to check for any further references to the superglobal variable `$_REQUEST`. If none are found, the `config/request.config.override.php` file will be removed; otherwise, it will be updated, leaving only the new occurrences.

If you use a cloud agent, make sure your files do not contain sensitive data or credentials.