



Extend shopware flowbuilder

Add own triggers and actions



Welcome

- **Miriam Müller**
- Makaira GmbH
- Senior Fullstack Developer
- 15 years experience with ecommerce projects
- Shopware since version 4.6
- *****



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- Winner community challenge cup 2024





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Agenda

- **Flowbuilder introduction**
- **Example description**
- **Example part 1: add custom trigger for stock changes**
- **Example part 2: add custom field action for product entity**
- **Example part 3: add custom rule for product custom fields**
- **Example part 4: add custom subscriber list for mail action**
- **Example part 5: add custom trigger for custom entity with store**

Flowbuilder introduction

- **No-Code Approach / Visual Workflow Design:**
Drag-and-drop interface for creating workflows without programming skills.
- **Real-Time Execution:**
Automations run instantly when triggers (e.g., order placement, payment status) occur.
- **Conditional Logic:**
Customize workflows with rule builder conditions, triggering actions only when specific criteria are met.
- **Extensive list of existing triggers and actions:**
An extensive list of triggers and actions is already included. E.g. order placement, payment status, customer registration and many more.
- **Extendable:**
Easy to extend with your own triggers and actions.

Flowbuilder introduction

Settings



Basic information



Cart settings



Countries



Currencies



Customer groups



Delivery times



Documents



Email templates



Essential characteristics



Flow Builder



Import/Export



Languages

You can find the flowbuilder in
the administration in the store
settings.

Flowbuilder introduction

E-Mail notify product stock changed

Save

General Flow

General information

Name *

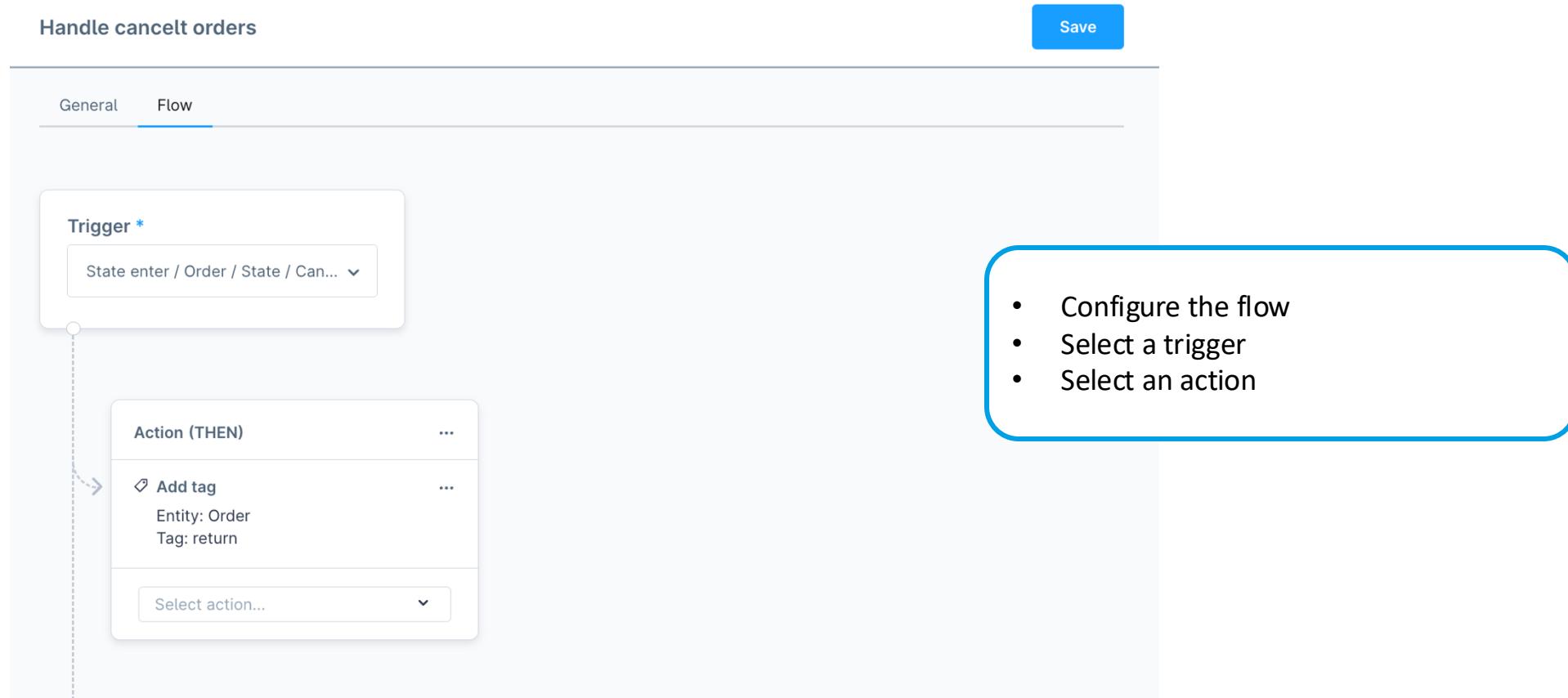
Description

Priority

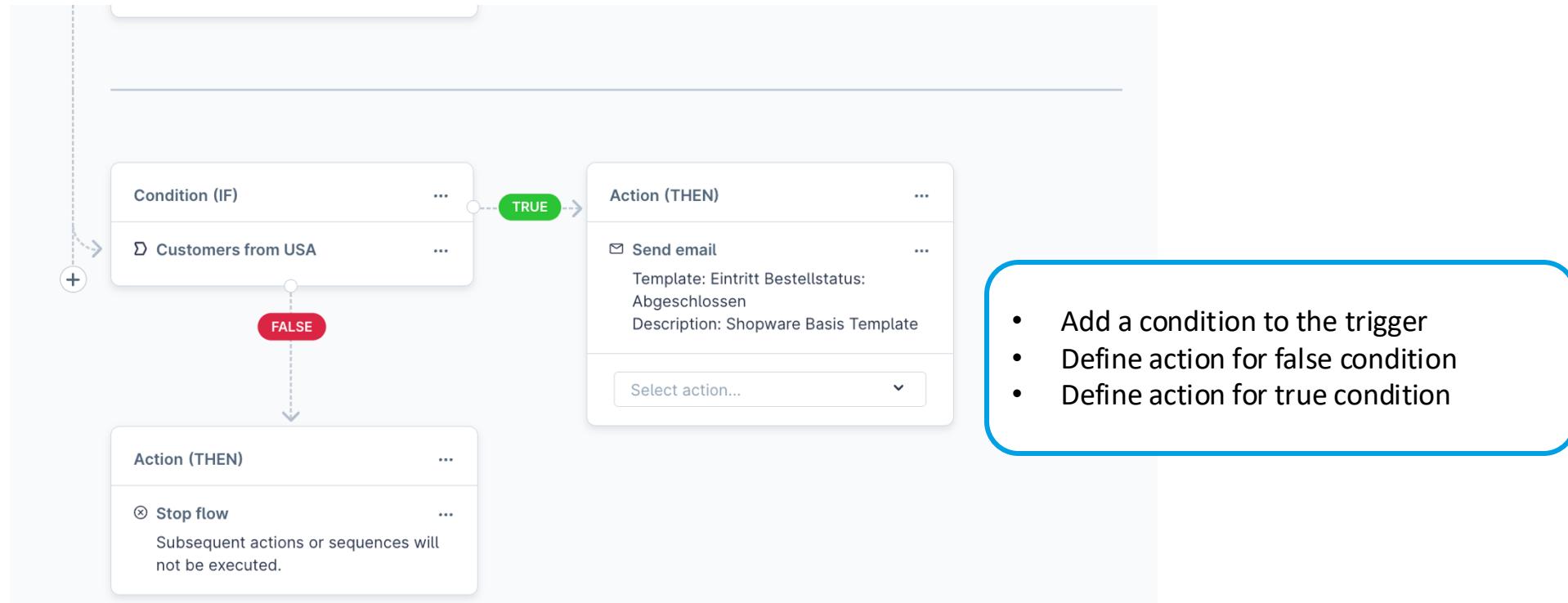
 Active

- Add a new flow
- Define general information: name, description, priority, status

Flowbuilder introduction



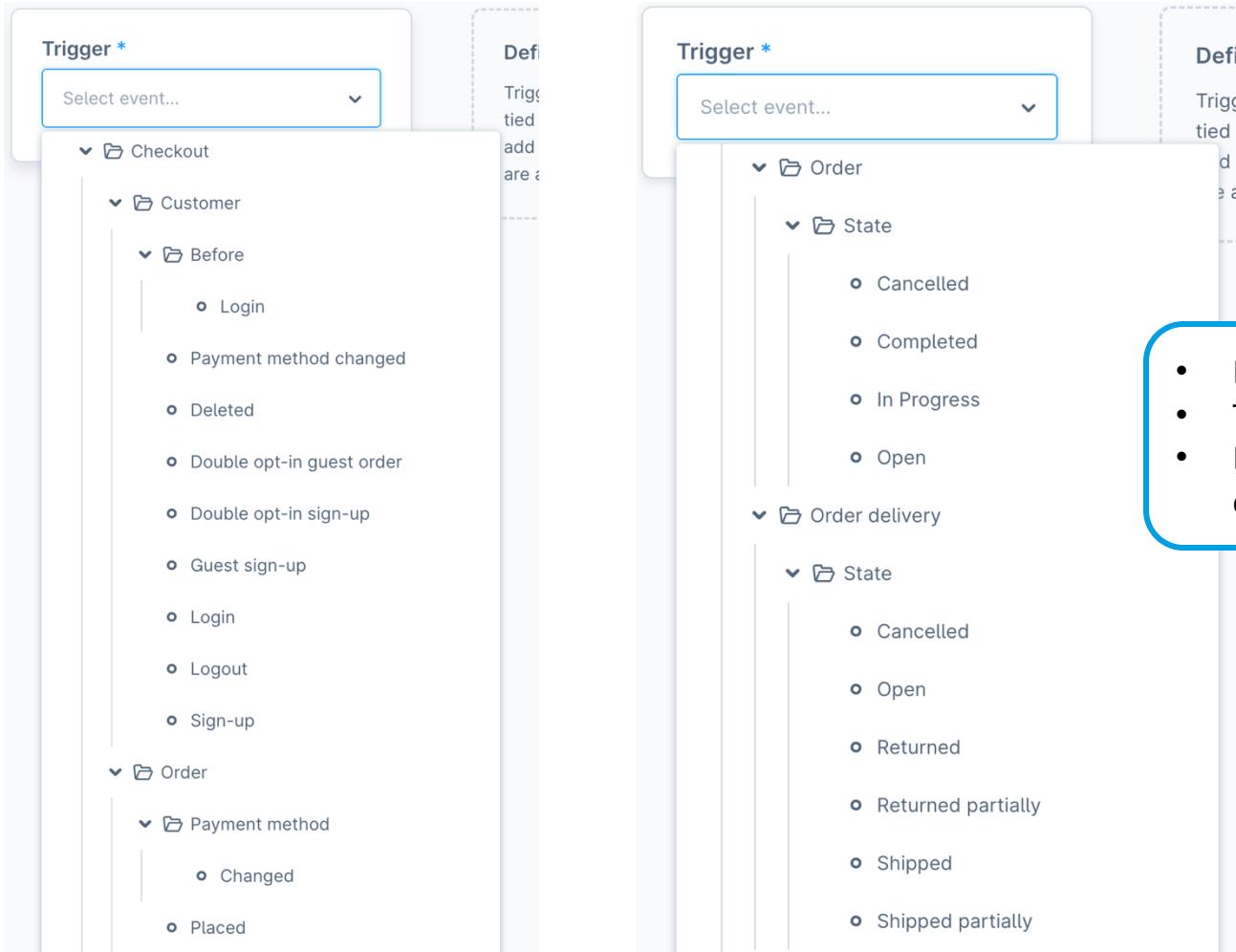
Flowbuilder introduction



Flowbuilder introduction

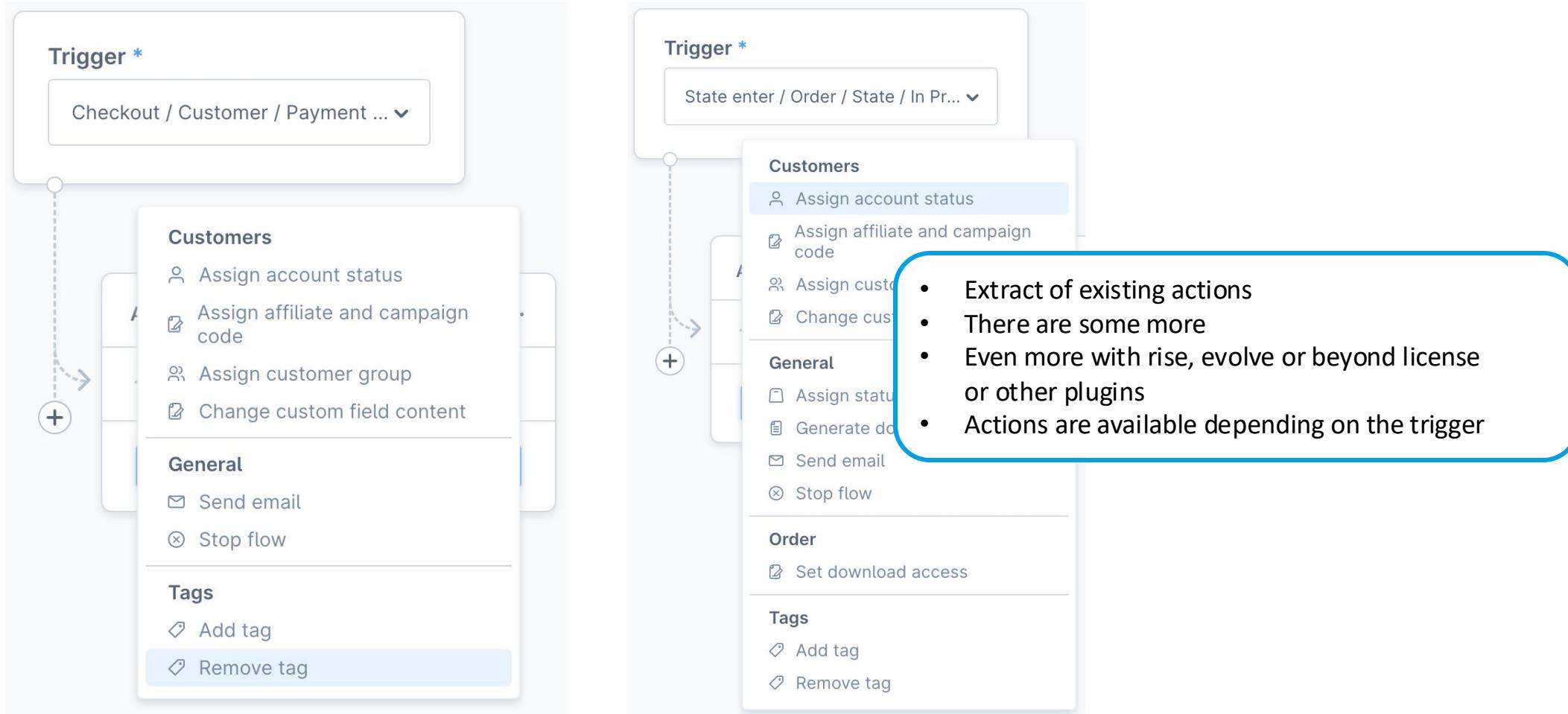
- **Flow:** Automation process. Has a trigger and several conditions and trigger.
- **Trigger:** The event that starts a flow (e.g., order placed, payment confirmed).
- **Conditions:** The rules that define when a workflow will run (e.g., if the order total is above a certain value).
- **Actions:** The tasks that are executed when conditions are met (e.g., sending an email, updating stock).

Flowbuilder introduction



- Extract of existing trigger
- There are some more
- Even more with rise, evolve or beyond license or other plugins

Flowbuilder introduction



Example description

- We want to implement a "product back in stock" feature
- If the stock changes from 0 to something greater than 0, customers on the subscriber list should receive an e-mail notification
- If customers have added themselves to a subscriber list, they should receive a voucher code that is only valid for customers on the subscriber list

Implementation the classic way

- Create plugin or app
- Create listener for stock changes
- Send an e-mail when the stock changes from 0 to greater than 0
- Send e-mail with voucher code when the customer subscribed to the subscriber list
- Implementation only does exactly what was required

Implementation based on the flowbuilder

- Create flowbuilder trigger for product stock changes
- Create flowbuilder action to set custom field values for products
- Create rule builder rule for product custom fields
- Create flowbuilder trigger for subscriber subscribed and unsubscribed
- With these extensions in the flow and rule builder, the implementation does exactly what was required.
- However, we additional can use the extensions for other features and flows without further programming

Example part 1: add custom trigger for stock changes

- Create custom flow trigger event based on <FlowEventAware>
- Register event for flowbuilder
- Add listener for stock changes and dispatch flow trigger event
- Create flow with custom trigger in shopware administration

Create custom flow trigger event

```
class ProductStockChangedFlowEvent extends Event implements FlowEventAware, ProductAware, MailAware, LogAware, ScalarValuesAware
{
    public const EVENT_NAME = 'product.changed.stock';

    public function __construct(
        protected Context $context,
        protected string $productId,
        protected int $stockBefore,
        protected int $stockAfter,
        protected Level $logLevel,
        protected MailRecipientStruct $recipients,
    ) {
    }

    /* required by FlowEventAware */
    public function getName(): string
    {
        return self::EVENT_NAME;
    }

    /* required by FlowEventAware */
    public function getContext(): Context
    {
        return $this->context;
    }
}
```

- **FlowEventAware**: required for all flowbuilder trigger
- **ProductAware**: make product data and actions available
- **MailAware**: activate mail actions
- **LogAware**: log data to the event logs
- **ScalarValueAware**: to use scalar value in the event

Create custom flow trigger event

```
/* required by ProductAware */
public function getProductId(): string
{
    return $this->productId;
}

/* required by MailAware */
public function getSalesChannelId(): ?string
{
    if (method_exists($this->context->getSource(), method: 'getSalesChannelId')) {
        return $this->context->getSource()->getSalesChannelId();
    }

    return null;
}

/* required by MailAware */
public function getMailStruct(): MailRecipientStruct
{
    return $this->recipients;
}
```

Create custom flow trigger event

```
/* required by LogAware */
public function getLogData(): array
{
    return [
        'stockBefore' => $this->stockBefore,
        'stockAfter' => $this->stockAfter,
    ];
}

/* required by LogAware */
public function getLogLevel(): Level
{
    return $this->logLevel;
}
```

Create custom flow trigger event

```
public static function getAvailableData(): EventDataCollection
{
    return (new EventDataCollection())
        ->add( name: 'product', new EntityType( definitionClass: ProductDefinition::class))
        ->add( name: 'stockBefore', new ScalarValueType( type: 'int'))
        ->add( name: 'stockAfter', new ScalarValueType( type: 'int'));
}

public function getValues(): array
{
    return [
        'stockBefore' => $this->stockBefore,
        'stockAfter' => $this->stockAfter,
    ];
}
```

Register event for flowbuilder

```
class ProductStockChangedListener implements EventSubscriberInterface
{
    public function __construct(
        protected BusinessEventCollector $businessEventCollector,
        protected EventDispatcherInterface $eventDispatcher,
        protected ProductService $productService,
        protected StockSubscriberService $stockSubscriberService,
    ) {
    }

    public static function getSubscribedEvents()
    {
        return [
            PostWriteValidationEvent::class => 'onPostWriteValidation',
            PreWriteValidationEvent::class => 'onPreWriteValidation',
            BusinessEventCollectorEvent::NAME => ['onBusinessEventCollect', 1000],
        ];
    }
}
```

- Listen to <BusinessEventCollectorEvent> to register the flow trigger event

Register event for flowbuilder

```
public function onBusinessEventCollect(BusinessEventCollectorEvent $event): void
{
    $collection = $event->getCollection();

    $definition = $this->businessEventCollector->define( class: ProductStockChangedFlowEvent::class);

    if (!$definition) {
        return;
    }

    $collection->set($definition->getName(), $definition);
}
```

Add listener for stock changes / dispatch event

```
class ProductStockChangedListener implements EventSubscriberInterface
{
    public function __construct(
        protected BusinessEventCollector $businessEventCollector,
        protected EventDispatcherInterface $eventDispatcher,
        protected ProductService $productService,
        protected StockSubscriberService $stockSubscriberService,
    ) {
    }

    public static function getSubscribedEvents()
    {
        return [
            PostWriteValidationEvent::class => 'onPostWriteValidation',
            PreWriteValidationEvent::class => 'onPreWriteValidation',
            BusinessEventCollectorEvent::NAME => ['onBusinessEventCollect', 1000],
        ];
    }
}
```

- Listen to <PreWriteValidationEvent> and <PostValidationEvent> for product changes close to the database

Add listener for stock changes / dispatch event

```
public function onPreWriteValidation(PreWriteValidationEvent $event): void
{
    foreach ($event->getCommands() as $command) {
        if ($command->getEntityName() === ProductDefinition::ENTITY_NAME
            && $command instanceof UpdateCommand
        ) {
            if ($command->hasField('storageName: ' . 'stock')) {
                $command->requestChangeSet();
            }
        }
    }
}
```

- Request change set if stock value changed

Add listener for stock changes / dispatch event

```
public function onPostWriteValidation(PostWriteValidationEvent $event): void
{
    foreach ($event->getCommands() as $command) {
        if ($command->getEntityName() === ProductDefinition::ENTITY_NAME
            && $command instanceof UpdateCommand
        ) {
            if ($command->getChangeSet() === null) {
                continue;
            }

            $productId = $command->getDecodedPrimaryKey()['id'];

            $productStockChangedEvent = new ProductStockChangedFlowEvent(
                $event->getContext(),
                $productId,
                (int) $command->getChangeSet()->getBefore( property: 'stock' ),
                (int) $command->getChangeSet()->getAfter( property: 'stock' ),
                LogLevel::Info,
                new MailRecipientStruct([])
            );
            $this->eventDispatcher->dispatch($productStockChangedEvent, eventName: ProductStockChangedFlowEvent::EVENT_NAME);
        }
    }
}
```

- Dispatch flow trigger event for product stock changed

Create flow with custom trigger

<  Flowbuilder example part 1 Save

General Flow

Trigger *

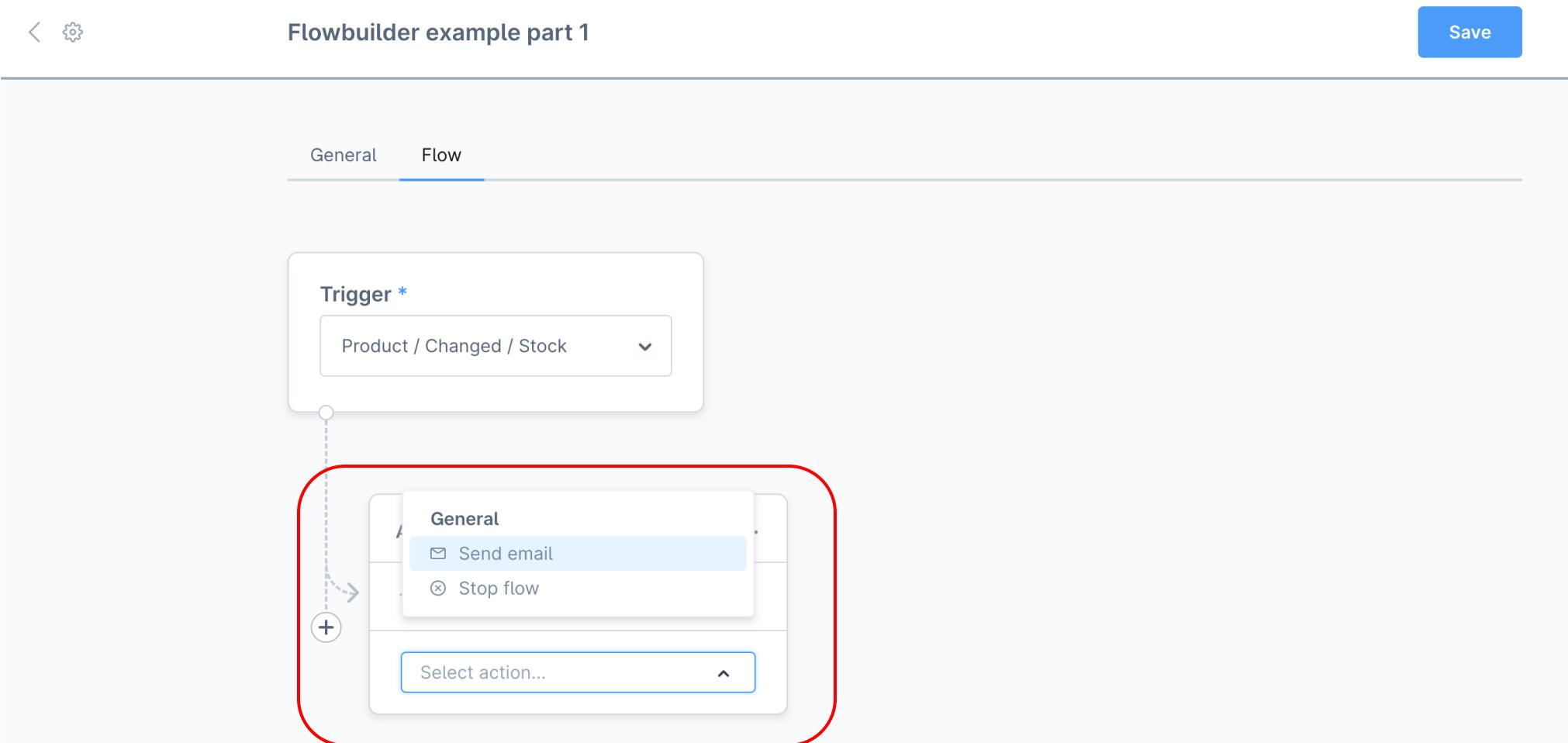
Select event...

- ✉ Email
-  Newsletter
-  Product
 -  Changed
 - Stock

Define trigger

Triggers are the initial starting point of a flow and are tied to a certain event. Following the trigger you can add further conditions and define actions. What actions are available depends on the selected event.

Create flow with custom trigger



Example part 2: add custom field action for product entity

- Create flow action based on <FlowAction>
- Add action to flow sequence component
- Create flow with custom action in shopware administration

Create flow action

```
class SetProductCustomFieldAction extends FlowAction
{
    use CustomFieldActionTrait;

    public function __construct(
        protected Connection $connection,
        protected EntityRepository $productRepository,
        protected StringTemplateRenderer $templateRenderer
    ) {
    }

    public static function getName(): string
    {
        return 'action.set.product.custom.field';
    }

    public function requirements(): array
    {
        // return []; => available for all flow trigger
        return [ProductAware::class]; // => available for specific flow trigger
    }
}
```

- Create action based on <FlowAction>
- Use existing <CustomFieldActionTrait>
- Define requirements

Create flow action

```
public function handleFlow(StorableFlow $flow): void
{
    if (!$flow->hasData(key: ProductAware::PRODUCT)) {
        return;
    }

    /** @var ProductEntity $product */
    $product = $flow->getData(key: ProductAware::PRODUCT);

    $customFields = $this->getCustomFieldForUpdating($product->getCustomfields(), $flow->getConfig());

    if ($customFields === null) {
        return;
    }

    $customFieldName = $this->getCustomFieldNameFromId($flow->getConfig()['customFieldId'], $flow->getConfig()['entity']);
    $customField = $customFields[$customFieldName] ?? null;
    if ($customField === null) {
        return;
    }
}
```

- Add action handler
- Handle custom field values

Create flow action

```
$renderedValue = $this->templateRenderer->render($customField, $flow->getVars()['data'], $flow->getContext());  
$renderedCustomFields[$customFieldName] = $renderedValue;  
$customFields[$customFieldName] = $renderedValue;  
  
$product->setCustomfields($customFields);  
$flow->setData('product', $product);  
  
$this->productRepository->upsert([  
    [  
        'id' => $product->getId(),  
        'customFields' => $renderedCustomFields,  
    ],  
], $flow->getContext());  
}  
}
```

- Parse custom field value with template renderer to use variables in flow action configuration
- Save custom fields to product

Create flow action

```
<?xml version="1.0" ?>

<container xmlns="http://symfony.com/schema/dic/services"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://symfony.com/schema/dic/services http://symfony.com/schema/dic/services-1.0.xsd">

    <services>
        <!-- Actions -->
        <service id="ShopwareFlowBuilderStockExample\Content\Product\Action\SetProductCustomFieldAction">
            <argument type="service" id="Doctrine\DBAL\Connection"/> Connection
            <argument type="service" id="product.repository"/> EntityRepository
            <argument type="service" id="Shopware\Core\Framework\Adapter\Twig\StringTemplateRenderer"/> StringTemplateRenderer
            <tag name="flow.action" priority="350" key="action.set.product.custom.field"/>
        </service>
    </services>
</container>
```

Add action to flow sequence component

```
Component.override('sw-flow-sequence-action', {
  inject: [
    'flowBuilderService',
  ],
  computed: {
    groups() { // only required if new group
      this.actionGroups.unshift(GROUP);
      return this.$super('groups');
    },
    modalName() {
      if (this.selectedAction === ACTION.SET_PRODUCT_CUSTOM_FIELD) {
        return 'sw-flow-set-entity-custom-field-modal';
      }
      return this.$super('modalName');
    },
  },
});
```

- Add action group to flow sequence component, because we have a new group
- Define action configuration modal component
- We can use the existing custom field modal component

Add action to flow sequence component

```
created() {
    this.flowBuilderService.$entityAction[ACTION.SET_PRODUCT_CUSTOM_FIELD] = 'product';
},

methods: {
    getActionTitle(actionName) {
        if (actionName === ACTION.SET_PRODUCT_CUSTOM_FIELD) {
            return {
                value: actionName,
                icon: 'regular-file-signature',
                label: this.$tc('set-product-custom-field-action.title'),
                group: GROUP,
            }
        }

        return this.$super('getActionTitle', actionName);
    },
},
});
```

- Add action to flow builder service
- Add action title to flow sequence component

Create flow with custom action

< ⚙️ Flowbuilder example part 2.1 Save

General Flow

The screenshot shows a flow builder interface with a 'Trigger *' block set to 'Product / Changed / Stock'. A dropdown menu is open from the trigger's connection point, listing several actions under categories: General, Product, and General again. The 'Add custom field' option under Product is highlighted with a blue box and a bullet point. A callout bubble points to this action with the text '• Use action for our trigger'.

- Use action for our trigger

Create flow with custom action

Assign custom field

Entity *

Product

Custom field set *

Stock

Custom field *

Stock before last change

Stock before last change

Stock after last change

Content: Stock before last change

`{{ stockBefore }}`

Create flow with custom action

New flow

Save

General Flow

Trigger *

Product review / Send

General

- Send email
- Stop flow

Product

- Add custom field

Tags

Select action...

- Use action for other trigger

The screenshot shows a user interface for creating a flow. At the top, there's a 'New flow' button and a 'Save' button. Below that, tabs for 'General' and 'Flow' are visible, with 'Flow' being the active tab. A 'Trigger *' section is shown with a dropdown set to 'Product review / Send'. A large blue callout box highlights a bullet point: '• Use action for other trigger'. To the right of the trigger, a dropdown menu is open, showing options like 'Send email', 'Stop flow', 'Add custom field', and 'Tags'. At the bottom of the dropdown is a 'Select action...' button.

Example part 3: add custom rule for product custom fields

- Add product custom field rule to rule builder
- Add rule scope
- Register rule and group
- Add rule condition type component
- Add flow with custom rule in administration

Add product custom field rule to rule builder

```
class ProductCustomFieldRule extends Rule
{
    final public const RULE_NAME = 'productCustomField';

    protected array|string|int|bool|float|null $renderedFieldValue = null;

    protected ?string $selectedField = null;

    protected ?string $selectedFieldSet = null;

    public function __construct(
        protected string $operator = self::OPERATOR_EQ,
        protected array $renderedField = [],
    ) {
        parent::__construct();
    }
}
```

- Add custom rule based on <Rule>

Add product custom field rule to rule builder

```
public function match(RuleScope $scope): bool
{
    if (!$scope instanceof ProductCustomFieldScope) {
        return false;
    }

    $productCustomFields = $scope->getProduct()->getCustomFields() ?? [];

    return CustomFieldRule::match($this->renderedField, $this->renderedFieldValue, $this->operator, $productCustomFields);
}

public function getConstraints(): array
{
    return CustomFieldRule::getConstraints($this->renderedField);
}
```

- Use existing <CustomFieldRule> for condition match

```
<!-- Rules -->
<service id="ShopwareFlowBuilderStockExample\Content\Product\Rule\ProductCustomFieldRule">
    <tag name="shopware.rule.definition" />
</service>
```

Add rule scope

```
class ProductCustomFieldScope extends RuleScope
{
    public function __construct(
        protected ProductEntity $product,
        protected SalesChannelContext $salesChannelContext,
    ) {
    }

    public function getProduct(): ProductEntity
    {
        return $this->product;
    }

    public function getContext(): Context
    {
        return $this->salesChannelContext->getContext();
    }

    public function getSalesChannelContext(): SalesChannelContext
    {
        return $this->salesChannelContext;
    }
}
```

- Add rule scope based on <RuleScope>

Register rule and group

```
Shopware.Application.addServiceProviderDecorator('ruleConditionDataProviderService', (ruleConditionService) => {  
  
    ruleConditionService.upsertGroup('product', {  
        id: 'product',  
        name: 'sw-settings-rule.detail.groups.product',  
    });  
  
    ruleConditionService.addCondition('productCustomField', {  
        component: 'sw-condition-product-custom-field',  
        label: 'sw-condition.condition.product.productCustomFieldRule',  
        scopes: ['product'],  
        group: 'product',  
    });  
  
    return ruleConditionService;  
});
```

- Add rule and rule group to rule condition data provider service

Add rule condition type component

```
Component.extend('sw-condition-product-custom-field', 'sw-condition-base', {  
  template,  
  
  inject: [  
    'repositoryFactory',  
  ],  
  
  mixins: [  
    Mixin.getByName('sw-inline-snippet'),  
  ],  
  
  computed: {  
    customFieldCriteria() {  
      const criteria = new Criteria(1, 25);  
      criteria.addAssociation('customFieldSet');  
      criteria.addFilter(Criteria.equals('customFieldSet.relations.entityName', 'product'));  
      criteria.addSorting(Criteria.sort('customFieldSet.name', 'ASC'));  
      return criteria;  
    },  
  },  
});
```

- Add rule condition type component for product custom fields

Add flow with custom rule

Edit rule

General Condition

Product custom field Stock before last change Is lower than / equal to 0 ...

AND

Product custom field Stock after last change Is greater than 0 ...

Add AND condition Add subconditions Delete container

Add OR condition Delete all conditions

Cancel Save and apply

Example part 4: add custom subscriber list for mail action

- (Add entity and api for subscriber list) => not part of the presentation
- Add subscriber list to product stock change trigger
- Extend send mail action component and add subscriber list selection
- Use subscriber list in send mail action

Add subscriber list to product stock change trigger

```
$productId = $command->getDecodedPrimaryKey()['id'];

$productStockChangedEvent = new ProductStockChangedFlowEvent(
    $event->getContext(),
    $productId,
    (int) $command->getChangeSet()->getBefore( property: 'stock' ),
    (int) $command->getChangeSet()->getAfter( property: 'stock' ),
    LogLevel::Info,
    new MailRecipientStruct($this->getStockSubscriberRecipients($productId, $event->getContext())))
);

$this->eventDispatcher->dispatch($productStockChangedEvent, eventName: ProductStockChangedFlowEvent::EVENT_NAME);
```

- Extend our existing code in the product stock change listener and add stock subscriber recipients

Add subscriber list to product stock change trigger

```
protected function getStockSubscriberRecipients(string $productId, Context $context): array
{
    $stockSubscribers = $this->stockSubscriberService->findActiveStockSubscriberForProduct($productId, $context);

    $recipients = [];
    foreach ($stockSubscribers as $stockSubscriber) {
        $recipients[$stockSubscriber->getCustomer()->getEmail()]
            = $stockSubscriber->getCustomer()->getFirstName() . ' ' . $stockSubscriber->getCustomer()->getLastName();
    }
    return $recipients;
}
```

- Load active subscriber for product from the database

Extend send mail action component

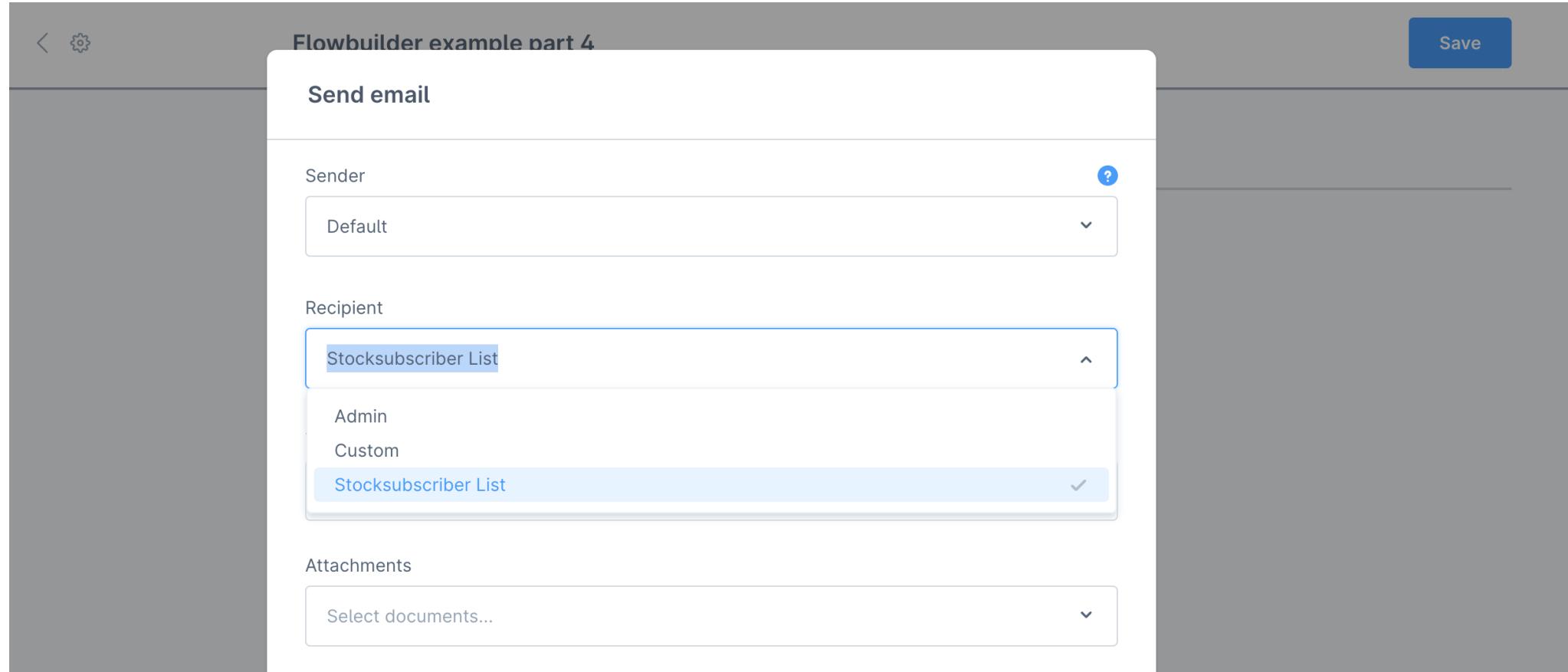
```
Component.override('sw-flow-mail-send-modal', {
  computed: {
    recipientOptions() {
      const recipientOptions = this.$super('recipientOptions');

      if (this.triggerEvent.name === 'product.changed.stock') {
        return [
          ...recipientOptions,
          {
            value: 'stockSubscriber',
            label: 'Stocksubscriber List',
          }
        ];
      }

      return recipientOptions;
    }
  }
});
```

- Extend send mail action component and add stock subscriber list to the configuration for the product stock changed trigger

Use subscriber list in send mail action



Example part 5: add custom trigger for custom entity with store

- Create custom flow trigger events based on <FlowEventAware>
- Dispatch events in entity api controller
- Add store for subscriber information
- Add flows in shopware administration

Create custom flow trigger events

```
interface StockSubscriberAware extends FlowEventAware
{
    public const STOCKSUBSCRIBER_ID = 'stockSubscriberId';

    public const STOCKSUBSCRIBER = 'stockSubscriber';

    public function getStockSubscriberId(): string;
}
```

- Add flow event aware interface for stock subscriber

Create custom flow trigger events

```
class StockSubscriberSubscribedEvent extends Event implements FlowEventAware, MailAware, CustomerAware, StockSubscriberAware
{
    public const EVENT_NAME = 'stock_subscriber.subscribed';

    public function __construct(
        protected Context $context,
        protected MailRecipientStruct $recipients,
        protected string $stockSubscriberId,
        protected string $customerId,
    ) {
    }

    /* required by FlowEventAware */
    public function getName(): string
    {
        return self::EVENT_NAME;
    }

    /* required by FlowEventAware */
    public function getContext(): Context
    {
        return $this->context;
    }
}
```

- Add flow trigger event for subscriber subscribed
- Use custom <StockSubscriberAware> interface

Create custom flow trigger events

```
class StockSubscriberUnsubscribedEvent extends Event implements FlowEventAware, MailAware, CustomerAware, StockSubscriberAware
{
    public const EVENT_NAME = 'stock_subscriber.unsubscribed';

    public function __construct(
        protected Context $context,
        protected MailRecipientStruct $recipients,
        protected string $stockSubscriberId,
        protected string $customerId,
    ) {
    }

    /* required by FlowEventAware */
    public function getName(): string
    {
        return self::EVENT_NAME;
    }
}
```

- Same for subscriber unsubscribed

Dispatch events in entity api controller

```
if ($stockSubscriber) {  
    $stockSubscriberSubscribeEvent = new StockSubscriberSubscribedEvent(  
        $salesChannelContext->getContext(),  
        new MailRecipientStruct([  
            $stockSubscriber->getCustomer()->getEmail()  
                => $stockSubscriber->getCustomer()->getFirstName() . ' ' . $stockSubscriber->getCustomer()->getLastName(),  
        ]),  
        $stockSubscriber->getId(),  
        $stockSubscriber->getCustomer()->getId(),  
    );  
    $this->eventDispatcher->dispatch($stockSubscriberSubscribeEvent, eventName: StockSubscriberSubscribedEvent::EVENT_NAME);  
}
```

Dispatch events in entity api controller

```
if ($stockSubscriber) {  
    $stockSubscriberUnsubscribeEvent = new StockSubscriberUnsubscribedEvent(  
        $salesChannelContext->getContext(),  
        new MailRecipientStruct([  
            $stockSubscriber->getCustomer()->getEmail()  
                => $stockSubscriber->getCustomer()->getFirstName() . ' ' . $stockSubscriber->getCustomer()->getLastName(),  
        ]),  
        $stockSubscriber->getId(),  
        $stockSubscriber->getCustomer()->getId(),  
    );  
    $this->eventDispatcher->dispatch($stockSubscriberUnsubscribeEvent, eventName: StockSubscriberUnsubscribedEvent::EVENT_NAME);  
}
```

Add store for subscriber information

```
class StockSubscriberStorer extends FlowStorer
{
    public function __construct(protected StockSubscriberService $stockSubscriberService)
    {
    }

    public function store(FlowEventAware $event, array $stored): array
    {
        if (!$event instanceof StockSubscriberAware || !isset($stored[StockSubscriberAware::STOCKSUBSCRIBER_ID])) {
            return $stored;
        }

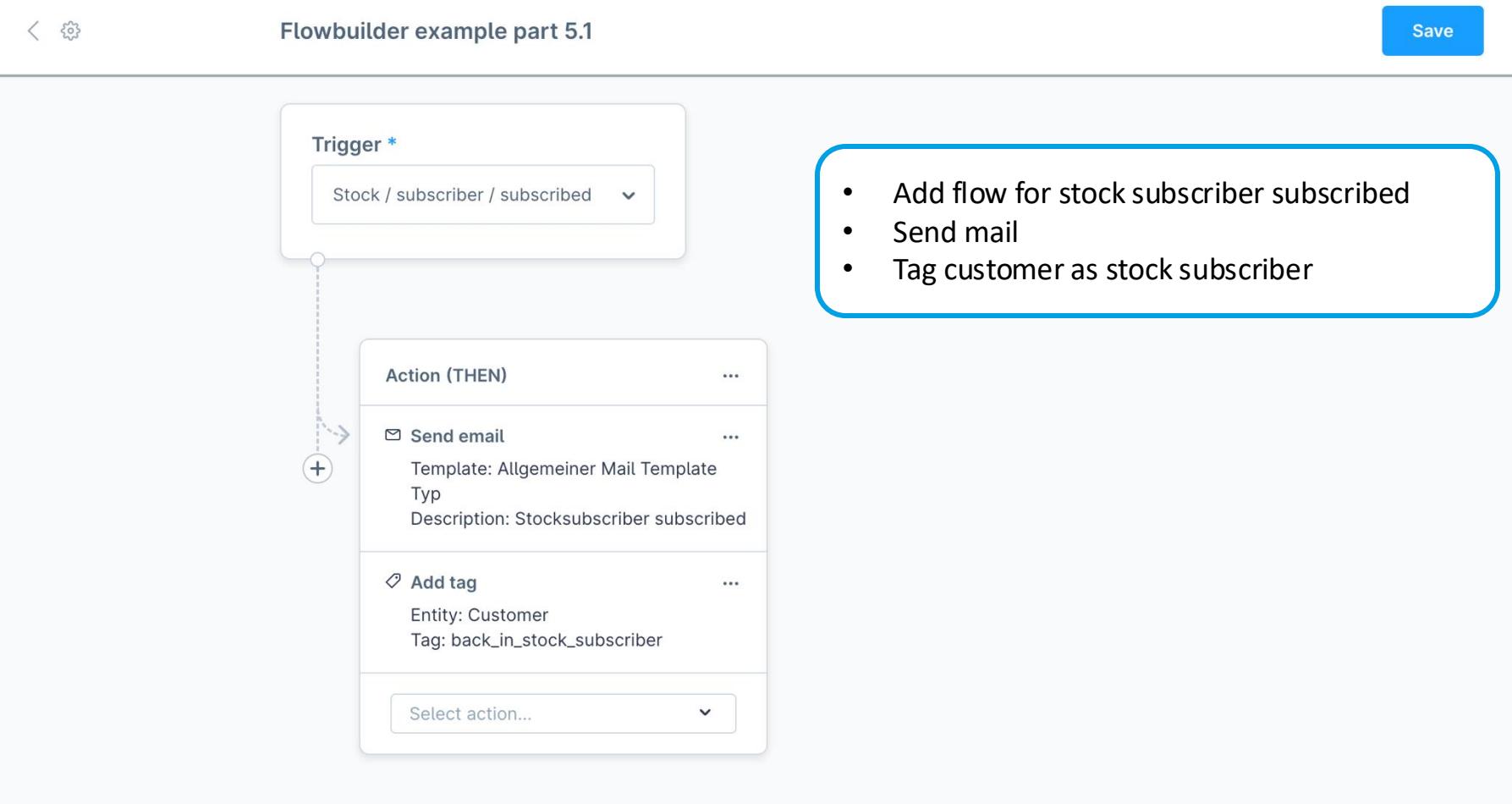
        $stored[StockSubscriberAware::STOCKSUBSCRIBER_ID] = $event->getStockSubscriberId();

        return $stored;
    }
}
```

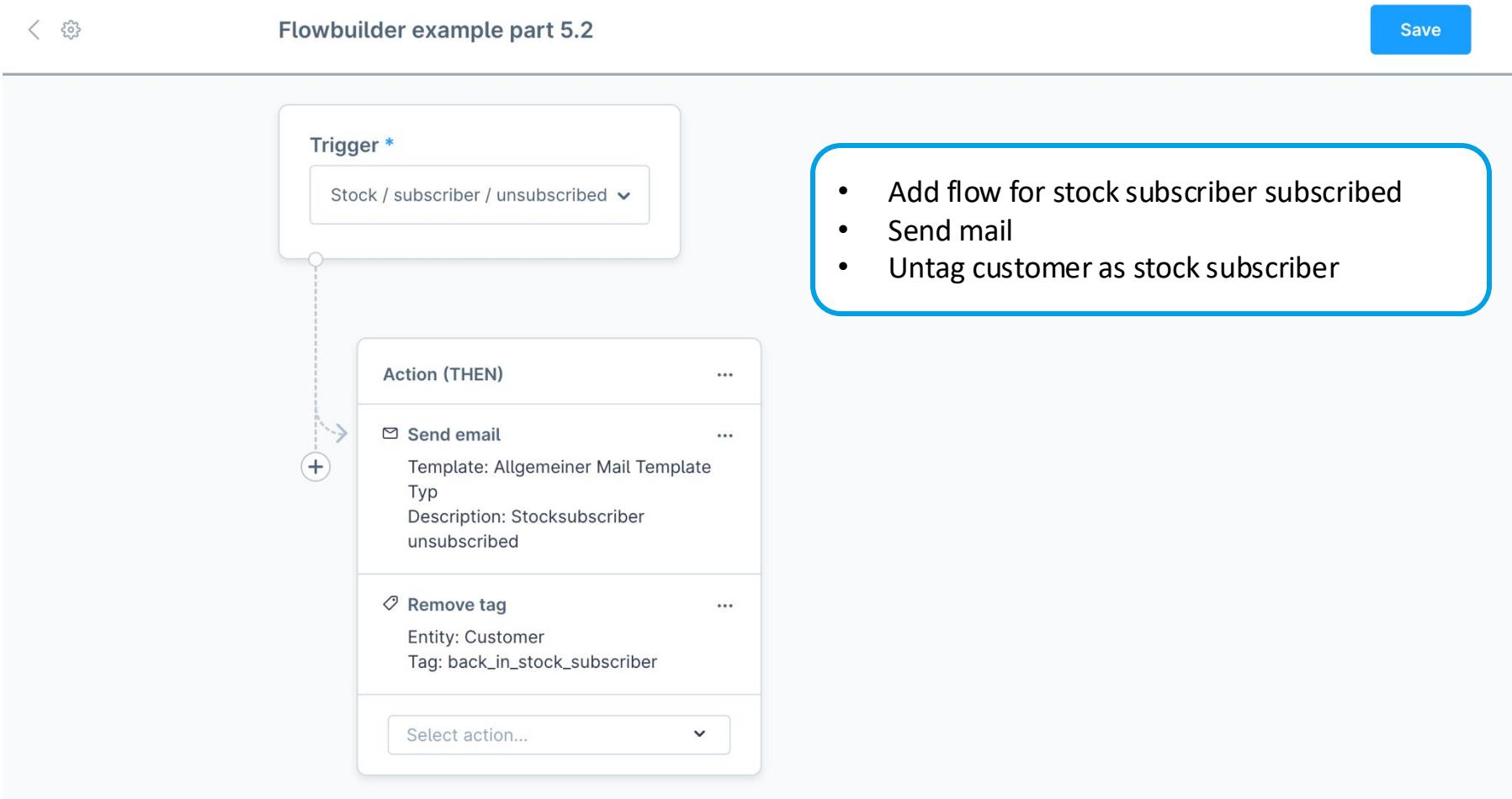
- Add stock subscriber store based on <FlowStorer>

```
<!-- Storer -->
<service id="ShopwareFlowBuilderStockExample\Content\StockSubscriber\Event\StockSubscriberStorer">
    <argument type="service" id="ShopwareFlowBuilderStockExample\Content\StockSubscriber\StockSubscriberService"/> StockSubscriberService
    <tag name="flow.storer"/>
</service>
```

Add flows in shopware administration



Add flows in shopware administration



Add flows in shopware administration

The screenshot shows a configuration screen for a flow named "Back in stock subscriber". At the top, there are buttons for "Deutsch", "Cancel", and "Save". Below the title, there are fields for "Type" and "Tags". A callout box highlights a bullet point: "Create rule builder rule to classify customer as stock subscriber". The "Condition" section contains a container for rules, with buttons for "Add AND condition", "Add subconditions", "Delete container", "Add OR condition", and "Delete all conditions".

- Create rule builder rule to classify customer as stock subscriber

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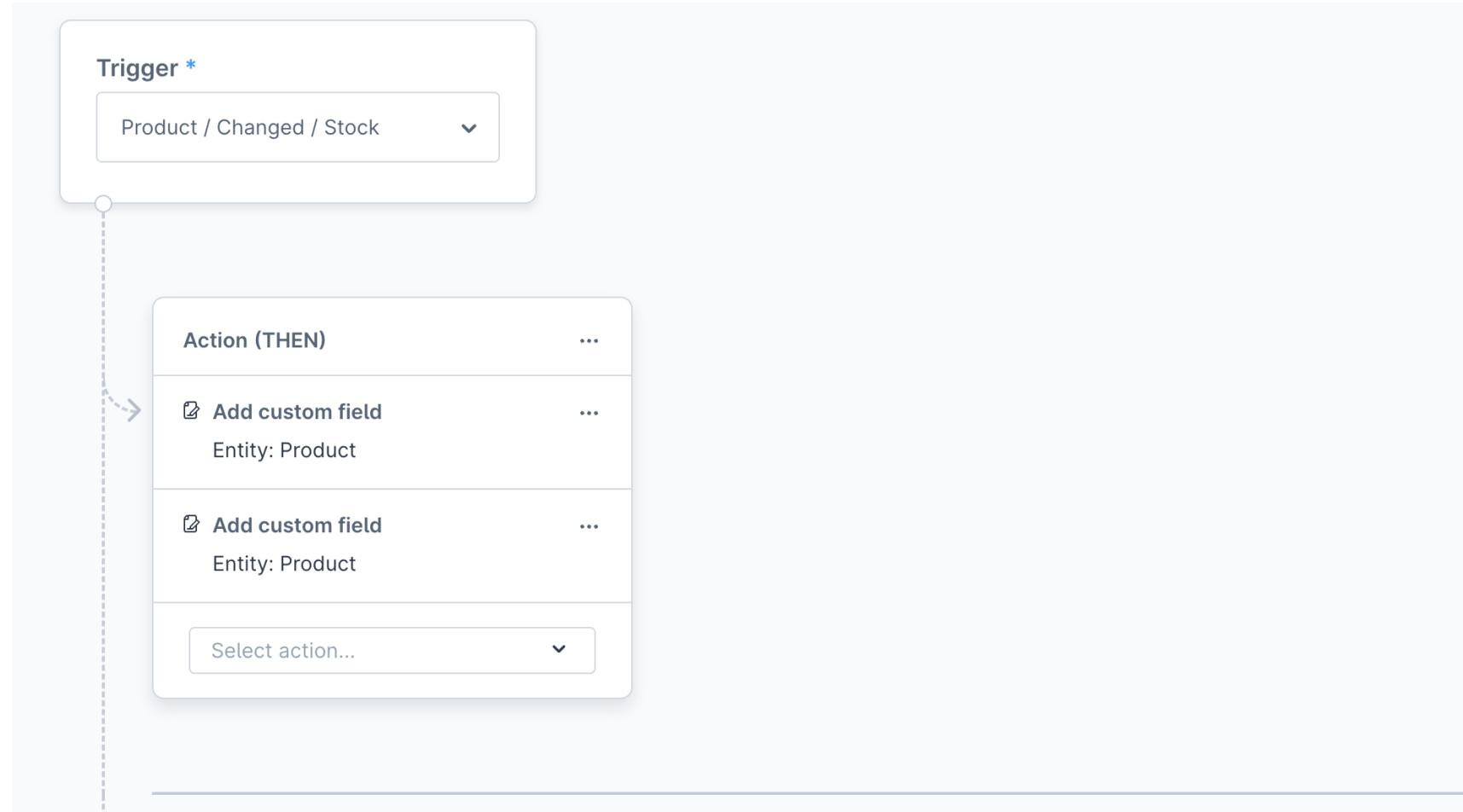
The screenshot shows the 'Product back in stock' flow configuration in the Shopware administration. The top navigation bar includes a back arrow, a speaker icon, the title 'Product back in stock', language selection 'Deutsch', a 'Cancel' button, and a blue 'Save' button. The main area is titled 'Rule based conditions' and contains sections for 'Customer rules' (with a dropdown menu showing 'Back in stock subscriber'), 'Shopping cart rules' (with a dropdown menu showing 'Select shopping cart rules...'), 'Order rules' (with a dropdown menu showing 'Select order rules...'), and a 'Promote sets...' section with a radio button. A blue rounded rectangle highlights the 'Add promotion based on stock subscriber rule' bullet point.

- Add promotion based on stock subscriber rule

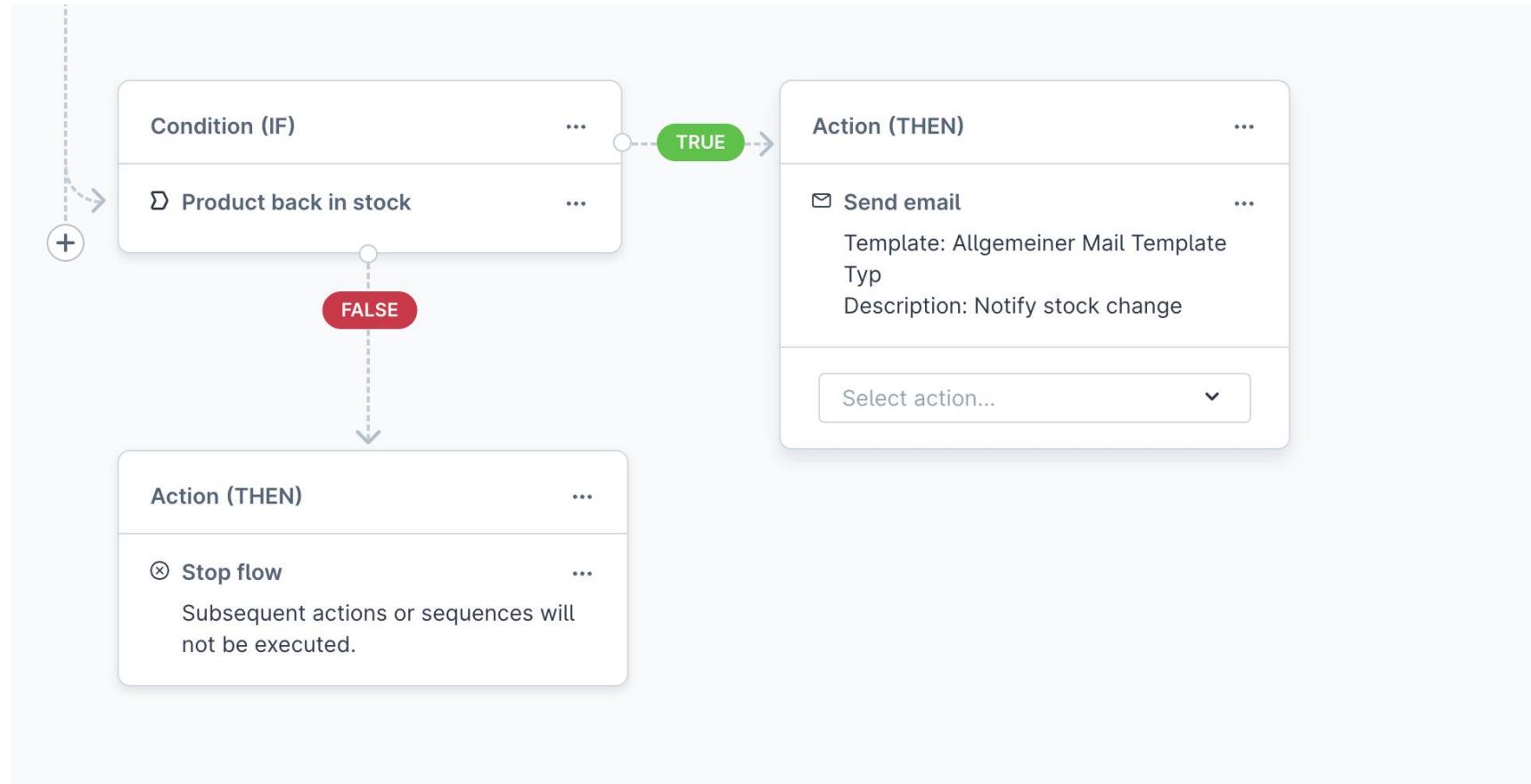
Summary

- We wanted to implement a "product back in stock" feature
- If the stock changes from 0 to something greater than 0, customers on the subscriber list should receive an e-mail notification
- If customers have added themselves to a subscriber list, they should receive a voucher code that is only valid for customers on the subscriber list

Summary



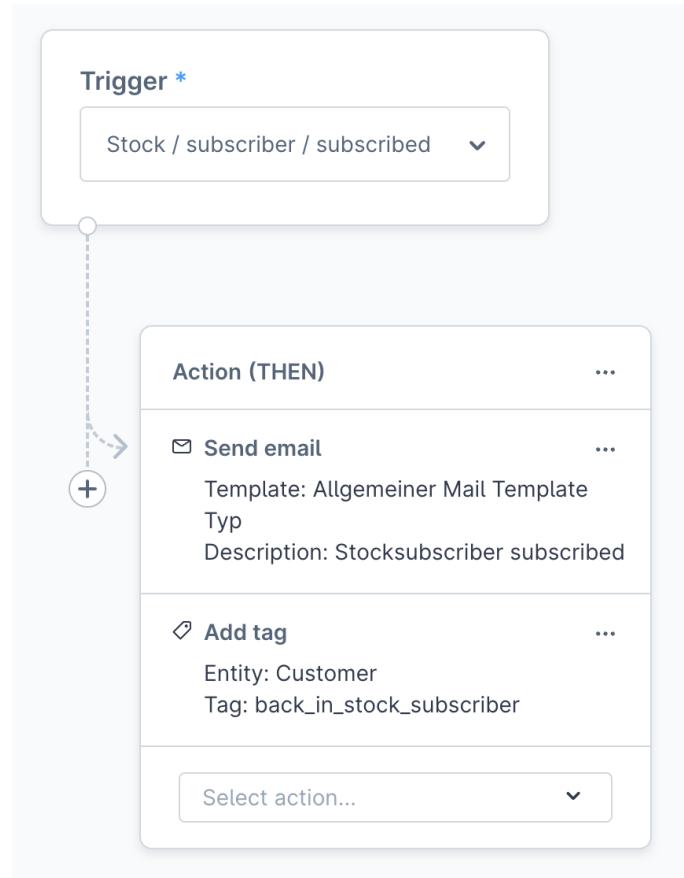
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Summary

- It makes it possible to think about features more general in order to reuse individual triggers and events
- The flowbuilder comes with many existing triggers and actions
- And is easy to expand and customize
- The implementation time with or without flowbuilder is nearly the same
- However, implementation with flowbuilder offers more flexibility and reusability for other workflows

Thank you!

Questions?

Contact me:

<https://www.linkedin.com/in/mmü>



*Download code and
presentation here*