

# InControl - User Manual

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## **1 Introduction**

This document describes the necessary steps to successfully complete an InControl configuration setup. This document can be used to implement the basic configuration settings and features to fully configure and use InControl. This document contains all the necessary help & info to start using InControl at it's fullest potential.

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## 2 Configuration setup

## 2.1 Configuration wizard

#### **2.1.1 Import**

Under settings > import/export you can make an export of your InControl configuration. This file is saved as a .config file to import it here to skip the initial setup.

Import
If you have a configuration file you are able to import it below. Importing a configuration file will skip the configuration wizard.
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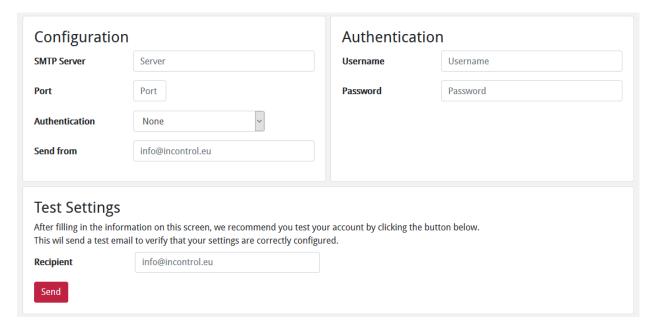
#### 2.1.2 **Email**

Under configuration you can fill in the settings for your SMTP Email server.

- **SMTP Server:** The IP-address of your server, If it runs on the same machine you can fill in localhost
- Port: The SMTP port, usually 25 or 587
- Authentication: Either None or SSL
- Send from: Email address where all the automated mails will be send from

Just fill in your desired Username and password at Authentication.

For test settings fill in the email address a test email will be sent to so you can verify your email settings are working.



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## 2.2 Settings - General

#### 2.2.1 License

License		
Bestand kiezen Geen b	estand gekozen	Upload
Select a new license to be	used by the applica	ition.
Current		
Expiration Date	2/12/2019 12:00:	MA 00:
Maximum Tags	100	

Here you can find/upload your license and verify it's details.

**IMPORTANT NOTE:** When the amount of tags configured to be monitored is higher than the maximum amount of tags of your license, InControl will no longer read data!

An error message will be displayed saying that you have exceeded the maximum amount of tags.

Application has more parameters configured than license permits. No data is being read.

### 2.2.2 Default acknowledge time

This setting defines the amount of time a bypass will be acknowledged for by default.



#### 2.2.3 Default time-out time

If a request has not been approved/declined during the time specified in this setting, then a reminder for approval will be sent via email.



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#### 2.2.4 Reasons

For requesting or approving/declining a bypass. Here you can configure your reasons the users can select.



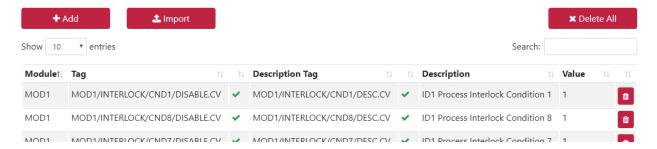
By default, "Other" is configured. This reason will give an addition field were the user can enter some text to specify the reason. For other used reasons please add them to the list. Some suggestions:

- Maintenance
- Shutdown
- Startup
- I/O problems
- Wrong bypass

By using these default reasons, analyzing will be easier and they will help you optimize your process.

## 2.3 Settings - Module

Here you can configure which bypasses you want to be monitored.



#### 2.3.1 OPC License

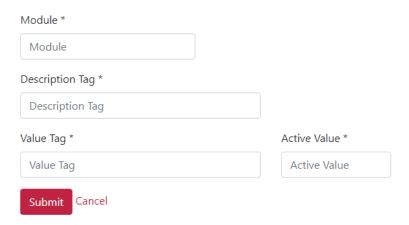
Configure your maximum amount of OPC tags you want InControl to use. This can be useful if you wish to limit the license cost and/or load on your DCS system. Take in consideration that a low limit might cause InControl to update with a higher latency. Recommended practice is to take the number of used module tags.

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2.3.2 Module list

Load in your module list through a .csv file (import button) or add one or more manually (add button).



The .csv (comma separated) file has the following format and can be easily generated by a spreadsheet application.

Module	Name/tag of the module to be monitored
<b>Description Tag</b>	The parameter that references the description of the bypass. (Usually the information presented to the operator)
Value Tag	The parameter that references the actual value of the bypass. (Usually this is a Boolean used in the DCS system)
Active value	Configure this parameter so it matches the value of " <b>Value Tag</b> " when the bypass is active.

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For creating and sending emails you can configure the default SMTP server settings:

Configuration		
SMTP Server	Server	
Port	0	
Authentication	None ▼	
Username	Admin	
Password		
From	From	
Save Cancel		
Test Email		
When clicking on the 'Test'	button below, the email configuration will be sav	ed and a test email will be send to the email entered.
Recipient	То	
Test		

If you don't use the email functionality you will not be able to send email reminders, notifications for approval and user information when creating accounts.

There is also an additional feature to send a test email.

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## 2.5 Settings - Roles

InControl by default supports 5 roles. You can use and configure these roles as you require. All the roles can be configured with specific rights based on your site needs. A default configuration has been selected. Please go over these settings to make sure it meets your demands and requirements.

Name	
OPERATOR	
CONFIGURATOR	
CHIEF	
ADMINISTRATOR	
MANAGER	

#### **Permissions**

Name	Include
ConfigureUsers	€
ConfigureRoles	€
ConfigureGeneral	€
ConfigureModule	€
ConfigureEmail	€
ConfigureWorkflow	€
ConfigureGroup	€
ReportAcknowledge	€
ReportRequestWithApproval	€
ReportRequestWithoutApproval	€
ReportRequestGroup	€
ApprovalReport	€
ApprovalGroup	€
ViewApproval	€
ViewReports	€
ViewReportsDeclined	€
ViewAnalyze	€
ViewWorkflow	€
ViewGroup	€
View Historian	€
HistorianExport	€

Cancel Save

<u>Operator</u>: Usually used only for visualization and requesting bypasses <u>Chief</u>: Usually used for low level approval, analytics and creating groups <u>Manager</u>: Usually used for high level approvals of bypasses and groups

**Configurator**: Somebody with configuration rights without being admin (site specific)

Administrator: Full rights control

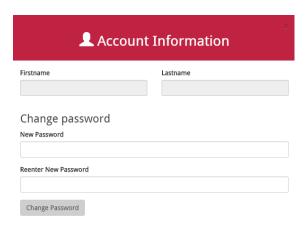
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Add as many users as you require and assign their roles.



By default, after creating a user an email will be send to the user containing their account login information. When email is not configured the password will be "default". After logging in with your account the user can change his password by clicking on their account name.

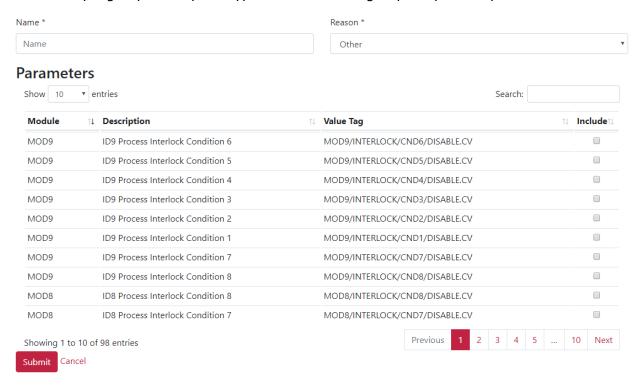


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## 2.7 Groups

Make multiple groups to request bypasses that can be grouped by one request.



Manage and view the status of your groups.



When you add a new group, it needs to get approved before you can use it. A notification will appear on the approval tab. By clicking on this tab, the group can be approved or declined.

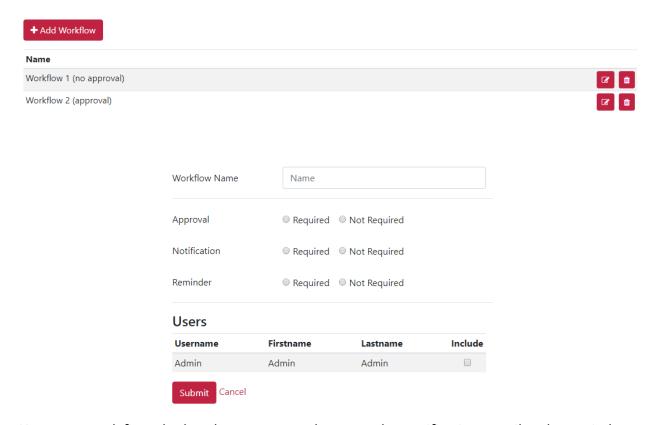


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#### 2.8 Workflow

Manage and create your workflows that define how the request will be processed.



Here you can define whether the request needs approval, a notification e-mail and a reminder e-mail. You can also select to which user the e-mails should be sent to.

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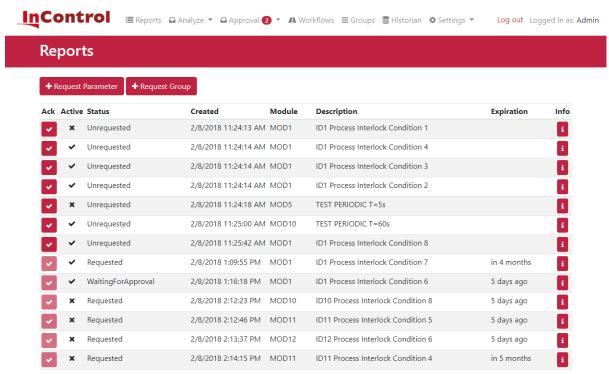


## 3 Using InControl

## 3.1 Managing bypasses

Now that you have successfully set up InControl, you can start monitoring the desired bypasses.

On the Reports page, you have a clean overview of all your bypasses:



On this page you have access to the following info:

- All active bypasses.
- The status of the request, as explained in the flowchart (see 3.1.4 Status overview)
- The timestamp when the request was made or when an unrequested bypass became active.
- The name of the module that is being bypassed.
- The description of what exactly is being bypassed.
- The date when the requests will expire.

When you press the info button 🗓 , you get access to additional info such as:

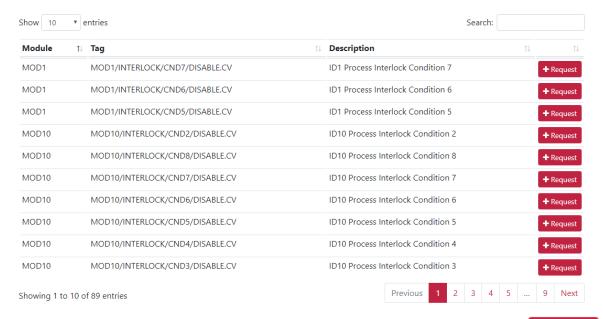
- The parameter that is being monitored.
- Which user requested the bypass.
- The reason of the request.

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### 3.1.1 Requesting a new bypass

By clicking on , you can request a single new bypass. This opens the following page:



Here you can search and select which parameter you need. Once found, press



Then you define which workflow it should use, for what reason you want to activate the bypass and for how long it should be active.

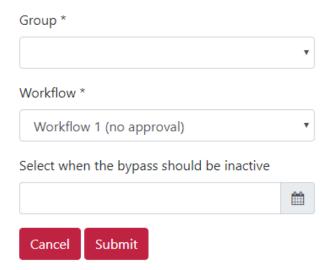
Module	Description
MOD1	ID1 Process Interlock Condition 7
Workflow *	
Workflow 1 (no approval)	
Reason *	Select when the bypass should be inactive
Other	08/02/2018 2:00 PM
Submit Back Cancel	

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### 3.1.2 Requesting a group

+ Request Group, you can request a single new bypass. This opens the following By clicking on page. Here you select the group you wish to request, the workflow and the time until the request lasts:



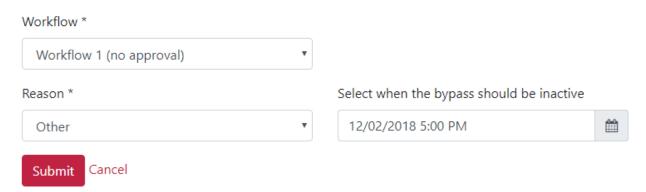
#### 3.1.3 Acknowledging an unrequested bypass

When an unrequested bypass is activated, it can be acknowledged by clicking the





Then the same action as with requesting a bypass is to be performed: you define which workflow it should use, for what reason you want to activate the bypass and for how long it should be active.



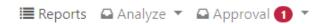
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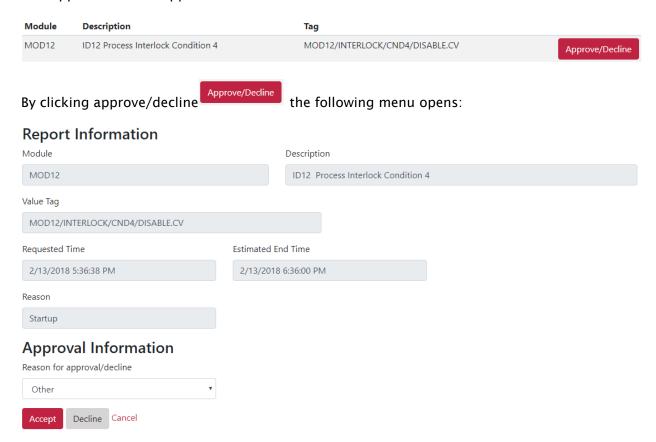
## 5.1.4 Approving bypasses

When a user has requested a bypass using a workflow that requires approval, then another user with the right to approve or decline requests must decide what will happen.

When there are requests that need to be checked for approval, a notification will appear in the approval button:



The number indicates the number of items that await approval. When a new group is made, it also appears here for approval.



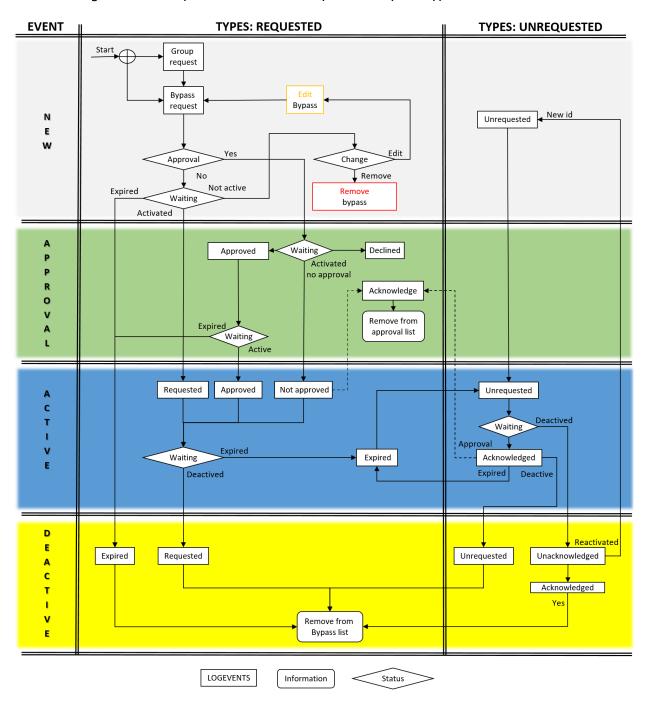
Here the user can approve or decline the requests and select a reason why.

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#### 3.1.5 Status overview

The following flowchart explains how InControl processes your bypasses:



All the bypasses are divided in 2 groups:

- Requested: Bypasses that have been requested using either
   Request Parameter Request Group
- Unrequested: Bypasses that have been activated on your control system without a request in InControl

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Furthermore, the bypasses also have 4 different states:

- **New**: requesting a new bypass/group of bypasses. Requested bypasses waiting to become active.
- **Approval**: requested bypasses waiting to be approved/declined. Also waiting to become active.
- Active: when a requested/unrequested/approved bypass is active.
- **Deactive**: when a requested/unrequested/approved bypass becomes inactive.

The historian (see <u>3.2 Historian</u>) is build up from all the log events (the square fields on the flow chart).

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## 3.2 Historian

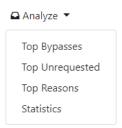
On the historian page Historian you can view all events regarding the bypasses and requests, but also when changes are made to the configuration of your InControl setup. Below is a table with all the possible items that can appear in the historian.

Timestamp id	d Event	Туре	Workflow	User	Name	Condition	Description	Log Type	Reason	EndTime	Extra	Intation info
27/06/2017 11:00	NEW	BYPASS	<workflowname></workflowname>	<username></username>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		User requests a new bypass
27/06/2017 11:00	NEW	GROUP	<workflowname></workflowname>	<username></username>	<groupname></groupname>			System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		User requests a new group
27/06/2017 11:00	NEW	GROUP		<username></username>				Audit	<reason>: &lt;+desc&gt;</reason>			User creates a new group
27/06/2017 11:00	NEW	USER		<username></username>				Audit			<newusername>, <firstname>,<lastname>, <email>,<role></role></email></lastname></firstname></newusername>	A new user is created
27/06/2017 11:05	APPROVAL	APPROVED	<workflowname></workflowname>	<username></username>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>	<motivation></motivation>	User approves a requested bypass
27/06/2017 11:05	APPROVAL	DECLINED	<workflowname></workflowname>	<username></username>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>	<motivation></motivation>	User declines a requested bypass
27/06/2017 11:10	EDIT	GROUP		<username></username>	<groupname></groupname>			Audit	<reason>: &lt;+desc&gt;</reason>			User edits an existing group
27/06/2017 11:10	EDIT	USER		<username></username>				Audit			<from>,<to></to></from>	User edits an existing user
27/06/2017 11:10	EDIT	BYPASS	<workflowname></workflowname>	<username></username>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		User edits an existing workflow
27/06/2017 11:20	REMOVE	BYPASS	<workflowname></workflowname>	<username></username>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		Removing a requested bypass that hasn't been active yet
27/06/2017 11:20	REMOVE	USER		<username></username>				Audit			<newusername>, <firstname>,<lastname> ,<email>,<role></role></email></lastname></firstname></newusername>	Removing an user
27/06/2017 11:20	REMOVE	GROUP		<username></username>				Audit	<reason>: &lt;+desc&gt;</reason>			Removing a group
27/06/2017 11:30	ACTIVE	UNREQUESTED	Undefined	<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System				An unrequested bypass became active
27/06/2017 11:30	ACTIVE	EXPIRED	<workflowname></workflowname>	<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		An acknowledged/requested bypass expired
27/06/2017 11:30	ACTIVE	REQUESTED	<workflowname></workflowname>	<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		A requested bypass became active
27/06/2017 11:30	ACTIVE	UNREQUESTED ACKNOWLEDGED										???
27/06/2017 11:40	DEACTIVE	UNREQUESTED		<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System				An unrequested bypass became inactive
27/06/2017 11:30	DEACTIVE	EXPIRED	<workflowname></workflowname>	<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		A deactivated, requested bypass expired
	DEACTIVE	ACKNOWLEDGED	<workflowname></workflowname>	<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		A deactivated, unrequested bypass has been acknowledged
27/06/2017 11:40	DEACTIVE	REQUESTED	Undefined	<system></system>	<modulename></modulename>	<condition></condition>	<conditiondescription></conditiondescription>	System	<reason>: &lt;+desc&gt;</reason>	<endtime></endtime>		A requested bypass expired

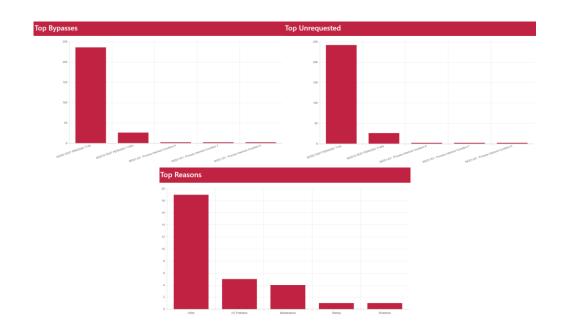


## 3.3 Analyze

These pages provide you analytic insights from the bypasses on your system:



- Top Bypasses: the top 5 most activated bypasses.
- Top Unrequested: the top 5 most activated bypasses without a request.
- Top Reasons: the top 5 most used reasons to request a bypass
- Statistics:



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