



# Status of IC@MS

Mateusz Nabywaniec, Michał Gandor, Lukasz Zytniak

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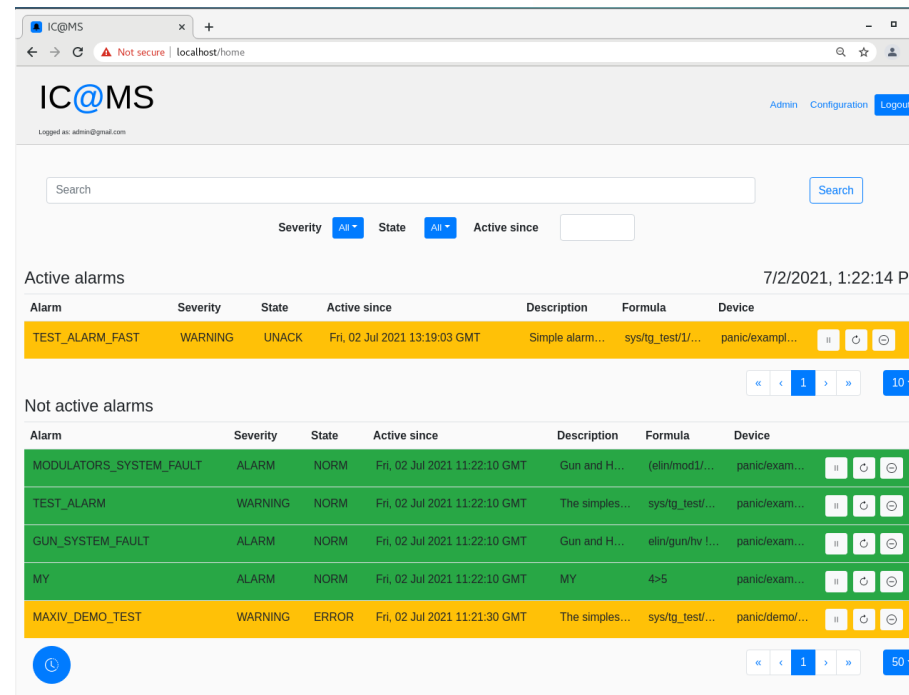


# IC@MS - Integrated, Cloud ready @larm Management System



## CLOUD BASED alarm Management System

- ▶ Shortened of downtimes,
- ▶ Increased company efficiency,
- ▶ Reduction of personnel stress:
  - ▶ Alarms handling streamlined,
  - ▶ Increased situation awareness,
  - ▶ Integration of production and infrastructure,
- ▶ Non-typical situations monitored thanks to runtime alarming formulas definition



# Demo - plan

- ▶ How to edit existing alarm?
- ▶ How to trigger the alarm using Jive?
- ▶ How to add new alarm?
  - ▶ Datasources
  - ▶ Composers
- ▶ How to find single alarm history?
- ▶ How to find all available history (snap & pyalarm)?
- ▶ How to filter by state?
- ▶ How to search (by name, tag and description)?
- ▶ How to check API (Swagger)



+ Add alarm

Active alarms

13.09.2021,

Alarm	Severity	State	Active since	Description	Formula	Device
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Not active alarms

Alarm	Severity	State	Active since	Description	Formula	Device
tg_test	WARNING	NORM	Mon, 13 Sep 2021 14:33:36 GMT	TangoTest_alarms. Its hot.	<div>Edit</div> <div><div></div><div></div></div>	sys/alarm/pyalarm01

Description

TangoTest\_alarms. Its hot.

Receivers

icams-notify@s2innovation.com

Severity

WARNING

Formula

(protocols/composer/composer01/HTTP\_temp>10.0)

# How to edit existing alarm?

Composers

Composer

Alarms

+ Add alarm

Name

Description

Name

☐ Change server

Receivers

Severity

Formula

Add alarm

How to add  
new alarm?

IC@MS

Logged as: admin@gmail.com

History

Alarms

WARNING: tg\_test

TangoTest\_alarms. Its hot.

Device: sys/alarm/pyalarm01

Date/Time	Event	Formula
Mon, 13 Sep 2021 14:39:41 GMT	TangoTest_alarms. Its hot.	(protocols/composer/composer01/HTTP_temp>10.0)

Snap data

How to find  
single alarm  
history?

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Logged as: admin@gmail.com

Search

Severity All State All Active since

History

Alarm	Severity	Date/Time	Comment
tg_test	WARNING	Thu, 02 Sep 2021 11:57:14 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:13:29 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:17:20 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:18:31 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:21:02 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:27:21 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:35:25 GMT	
tg_test	WARNING	Thu, 02 Sep 2021 12:36:54 GMT	

How to  
find all  
available  
history?

Severity

WARNING ▾

State

All ▾

Active since

## Active alarms

Alarm	Severity	State	Active since	Description	Formula	D
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## Not active alarms

Alarm	Severity	State	Active since	Description	Formula	Device
tg_test	WARNING	NORM	Mon, 13 Sep 2021 14:44:31 GMT	TangoTest_alarms. I...	(protocols/compos...	sys/alarm/pyalarm01

# How to filter by severity or state?



IC@MS

Admin Configuration

Logged as: admin@gmail.com

Search

SeverityAllStateAllActive since

Active alarms

13.09.2021, 16

Alarm	Severity	State	Active since	Description	Formula	Device
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<<<>>>

Not active alarms

Alarm	Severity	State	Active since	Description	Formula	Device
Example1	ALARM	NORM	Mon, 13 Sep 2021 14:43:41 GMT	Test alarm for LOFAR	1>2	sys/alarm/pyalarm01

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How to search?

## IC@MS app

API

### alarms

[Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

POST	/api/alarms/acknowledge	<a href="#">Example</a>
POST	/api/alarms/add	<a href="#">Example</a>
GET	/api/alarms/device/{device}	Get the information about all alarms for given device
POST	/api/alarms/device/{device}	Get the information about all alarms for given device
POST	/api/alarms/disable	<a href="#">Example</a>
GET	/api/alarms/disabled/{disabled}	Get the information about all alarms by disabled state
POST	/api/alarms/disabled/{disabled}	Get the information about all alarms by disabled state
POST	/api/alarms/enable	<a href="#">Example</a>
POST	/api/alarms/modify	<a href="#">Example</a>
POST	/api/alarms/remove	<a href="#">Example</a>
POST	/api/alarms/reset	<a href="#">Example</a>
GET	/api/alarms/severity/{severity}	Get the information about all alarms with severity
POST	/api/alarms/severity/{severity}	Get the information about all alarms with severity
GET	/api/alarms/state/{state}	Get the information about all alarms with state
POST	/api/alarms/state/{state}	Get the information about all alarms with state
GET	/api/alarms/tag/{tag}	Get the information about all alarms with given tag

# IC@MS API (Swagger)

# IC@MS at ALBA Synchrotron



- ▶ Water cooling systems group is testing IC@MS,
- ▶ IC@MS is working fine with over 200 alarms.

## Planned improvements:

- ▶ Close sessions when restarting
- ▶ Improve navigation
- ▶ Sorting of ACTIV alarms
  - ▶ Priority
  - ▶ Date
- ▶ Sorting of Not ACTIVE
  - ▶ State
  - ▶ Name of alarm

Bug in Panic:  
ERROR and OOSRV & SHLVD and DSUPR  
are different states

# Thank you!

S2INNOVATION Sp. z o. o. [ltd.]

Podole 60 Street,  
30-394 Kraków, Poland

(+48) 795 794 004

[contact@s2innovation.com](mailto:contact@s2innovation.com)