

# Trustelem news

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# New features

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## Non-systematic MFA when accessing targets through the Bastion

The feature concerns exclusively the WALLIX Authenticator offer since it is a feature intended for MFA via Radius on the Bastion.

Customers don't want to authenticate through MFA each time they want access to a target, but Radius doesn't allow this behavior.

Fortunately, thanks to Trustelem it is possible to bypass this limitation.

Now, on a Trustelem Bastion application, when you activate Radius, you can also activate an MFA session

Radius secret	<input type="password" value="....."/>	 
MFA session	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled <p>If enabled, after validating his second factor one time, the user will not need to validate it again for the duration of the session. Each session is linked to user name and user IP address.</p>	
Duration	<input type="text" value="1s"/> <small>Duration of the MFA session, in hours</small>	

What is this for?

If a user authenticates with Radius on the Bastion linked to this application, then for the duration defined on Trustelem and as long as he remains on the same network, he will not be asked to provide his 2nd factor again.

*For example, a user authenticates on the Bastion GUI and enters his login / password then his 2nd factor. 1 hour later he authenticates to the Bastion via SSH, and he won't have to enter the 2nd factor again. The only setting which has to be done on the Bastion side, is to activate the "Use mobile device for Two-Factor Authentication (2FA)" option for Radius authentication.*

# Trustelem custom admin console

It concerns both WALLIX Trustelem and WALLIX Authenticator.

The delegated admin was created to respond to a simple observation: all Trustelem administrators have full control over the subscription, there is no possibility of limiting their admin entitlements. Still, each customer has different needs with regards to admin entitlements, according to the way they manage users, applications and other Trustelem objects: some of them want delegated admin rights for managing groups, others for managing authorizations or accessing logs of a subset of applications... Thus, we have implemented an application framework for creating custom admin consoles. Technically, it is a web GUI which formats/displays the result of Trustelem API calls. As a result, we can offer almost any administration function (create users, reset passwords, display logs, etc.) and give access only to selected users.

Using this framework, an admin console for managing authorization of users to applications through groups membership has been developed then adapted for different clients and prospects.

The screenshot shows the WALLIX Trustelem admin console. At the top, the WALLIX logo is displayed with the text 'TRUSTELEM' below it. To the right of the logo, it says 'Support Administrateur <admin.delegue@trustelem.demo>' and 'authenticated user' with a 'Logout' button. Below the logo, there is a section for 'create new users' with a 'Create user' button. A dropdown menu shows 'Delegated administration for the group: TMA-Bastion' with a note 'currently administered group'. Below this, a section titled 'Alerts for users in group TMA-Bastion' with a note 'users needing assistance' contains a table with columns: Date, Email, Message, and Action. The table has one row: 2023-02-23 21:18, demo.user@mycompany.net, The user Demo User has lost his second authentication factor, and an action icon. Below the alerts, a section titled 'Users in group TMA-Bastion' with a note 'users in the currently administered group' contains a table with columns: Name, Last Name, Email, Account Expiration, and a 'manage these users' link. The table has four rows of user data, each with a set of action icons.

Name	Last Name	Email	Account Expiration	manage these users
Demo	User	demo.user@mycompany.net		[Icons]
External	User	external@mycompany.com		[Icons]
sdkjfh	lsdkgj	ldkjgf@test.test		[Icons]
Paul	Chaudy	pchaudy@wallix.com		[Icons]

*Example of real use case:*

*A customer configures access to the Bastion for its internal users via Active Directory + Trustelem Radius authentication.*

*Problem: he wants his external provider to use Access Manager but doesn't want to spend time in the administration of this population on Active Directory or locally on the Bastion.*

*To his point of view, the external provider should be responsible of his users management.*

*The customer creates on Trustelem a group linked with the Bastion (with LDAP, for the targets access) and the Access Manager (with SAML, for the authentications). Then he activates automatic MFA enrolment for this group.*

*After that, he gives the administration of this group through a Delegated Admin tool (like the one in*

*the screenshot above) to the external provider, with a 10 account creations limitation to prevent license abuse. The final result is that the external provider can create a limited number of accounts via the Delegated Admin and these users will have direct access to the Access Manager, with MFA and with the right authorizations to targets.*

Delegated admin documentation

**Many other usecases can be addressed with specific development: a SoW is to be issued.**

# Incidents

## 2024/02/20

**Incident window:** 4:24 p.m. -> 4:37 p.m.

**Cause:** internal maintainance error at our hosting provider

**Impacts:** Trustelem service unavailable

- A configuration change by our hosting provider made the Trustelem service unavailable, the hosting provider is currently investigating

## 2024/02/19

**Incident window:** 5:12 p.m. -> 5:27 p.m. 6:19 p.m. -> 6:20 p.m.

**Cause:** internal maintainance error at our hosting provider

**Impacts:** Trustelem service unavailable

- A configuration change by our hosting provider made the Trustelem service unavailable

## 2023/09/29

**Incident window:** 02:39 p.m. -> 03:03 p.m.

**Cause:** internal maintainance error at our hosting provider

**Impacts:**

- A configuration change by our hosting provider to remove an internal server used for a datacenter migration caused a routing error, rendering our site unreachable. Our monitoring detected the situation immediately and the configuration change was reverted immediately

## 2023/09/20

**Incident window:** 10:20 a.m. -> 10:27 a.m.

**Cause:** internal maintainance operation at our hosting provider

**Impacts:**

- Due to a network configuration change on our reverse proxies (mandatory for a maintainance operation), the Trustelem service was unavailable for a few minutes

# 2023/07/17

**Incident window:** 10:41 a.m. -> 02:17 p.m.

**Cause:** a preliminary analysis seems to point out an issue with the nginx configuration - handled by our hosting provider - due to an exhaustion of the number of worker connections

**Impacts:**

- Degraded service with internal errors (HTTP error 500).

**Handling the incident:** after identifying the cause, we restarted the service to decrease the used workers. A point will be made asap with our hosting provider to see how this limitation can be removed.

# 2023/05/09

**Incident window:** 00:00 a.m. -> 02:30 p.m.

**Cause:** IOS push certificate was expired.

**Impacts:**

- Authentication through push notifications on IOS was not working

**Handling the incident:** after identifying the cause, the certificate was renewed, fixing the problem.

# 2023/05/02

**Incident window:** 10:17 a.m. -> 10:30 a.m.

**Cause:** files descriptors exhaustion issue.

**Impacts:**

- Partial internal error failures on login pages

**Handling the incident:** our primary production server encountered a files descriptors exhaustion issue causing partial failures on connexions. Those failures were detected immediately by our monitoring and a restart of the service instantly solved the instability. Our watchdog process properly detected the issue but was not designed to provide enough detailed information on the file descriptor usage on our system, therefore we are working on improving our monitoring tools to be able to identify the root cause of any future similar issue.

# 2023/03/21

**Incident window:** 11:47 a.m. -> 1:00 p.m.

**Cause:** malfunction of the production HTTP outbound proxy, following a configuration problem at our hosting service provider during a migration. Our hosting service provider went back on the configuration.

**Impacts:**

- MFA authentication by WALLIX Authenticator (push notification) impossible
- MFA authentication via SMS not possible
- authentications with Azure AD impossible

**Handling the incident:** the problem was detected within a few minutes and dealt with our hosting service provider as quickly as possible at our host

# Unavailability

## 2023 (SLA: 99.94%)

**Programmed maintenance:** 50 min (datacenter migration)

**Incidents:**

- 2023-09-29: 24 min of unavailable service
- 2023-09-20: 7 min of unavailable service (network error)
- 2023-07-17: 216 min of degraded service
- 2023-05-02: 13 min of degraded service
- 2023-03-21: 77 min of degraded service

## 2022 (SLA > 99.99%)

**Programmed maintenance:** 0 min

**Incidents:** 20 min of degraded service

## 2021 (SLA > 99.99%)

**Programmed maintenance:** 0 min

**Incidents:** < 1 min

## 2020 (SLA > 99.99%)

**Programmed maintenance:** 0 min

**Incidents:** < 1 min

## 2019 (SLA > 99.99%)

**Programmed maintenance:** 0 min

**Incidents:** < 1 min

## 2018 (SLA > 99.99%)



**Programmed maintenance:** 24 min

**Incidents:** < 1 min

## 2017 (SLA > 99.99%)

**Programmed maintenance:** 58 min

**Incidents:** < 1 min

## 2016 (SLA > 99.99%)

**Programmed maintenance:** 68 min

**Incidents:** < 1 min

## 2015 (SLA = 99.98%)

**Programmed maintenance:** 120 min

**Incidents:** 124 min