

# Proxedo API Security: Release notes for PAS 4.11.0

Copyright © 2019 Balasys IT Ltd.. All rights reserved. This document is protected by copyright and is distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this document may be reproduced in any form by any means without prior written authorization of Balasys.

This documentation and the product it describes are considered protected by copyright according to the applicable laws.

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>). This product includes cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eyay@cryptsoft.com))

Linux™ is a registered trademark of Linus Torvalds.

Windows™ 10 is registered trademarks of Microsoft Corporation.

The Balasys™ name and the Balasys™ logo are registered trademarks of Balasys IT Ltd.

The Proxedo™ name and the Proxedo™ logo are registered trademarks of Balasys IT Ltd.

AMD Ryzen™ and AMD EPYC™ are registered trademarks of Advanced Micro Devices, Inc.

Intel® Core™ and Intel® Xeon™ are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

All other product names mentioned herein are the trademarks of their respective owners.

## **DISCLAIMER**

Balasys is not responsible for any third-party websites mentioned in this document. Balasys does not endorse and is not responsible or liable for any content, advertising, products, or other material on or available from such sites or resources. Balasys will not be responsible or liable for any damage or loss caused or alleged to be caused by or in connection with use of or reliance on any such content, goods, or services that are available on or through any such sites or resources.

2024-09-09

The following new features, bug fixes and improvements have been completed for Release 4.11.0 Proxedo API Security.

## Features

- **Service category split**

Components that deal with system-wide configuration options have been split from the *Service* category into a new category, *System*. *Backends*, *Endpoints*, and *Listeners* stay in the *Service* category.

- **License is now part of the component configuration**

The product license file required special handling, but now it is part of the component configuration.

- A new *File* brick type has been introduced, called *License*. The format is validated upon upload. Several licenses can be stored in the configuration, so a new license can be readily swapped in when the old one expires.
- A new *System* component has been introduced, called *License*. It can select a single *License File*, which will be used by the core components after the configuration change is applied.
- A new integrity check warns in advance when the number of *Backends* or *Endpoints* would exceed the limits of the selected license.
- The details of the current license can be viewed on the *Status* page.

- **Selector rework**

- The *Save As* field of *Selectors* have been renamed to *Save As Key* for clarity.
- The *Save As Key* field now has a default value, *<Selector Name>*. This value means that the *Selector's* result will be saved under a key that equals the *Selector's* name.
- Certain *Selectors* that can return a dictionary of values now have a new flag, *Save Under Key*, which is set to *True* by default. This is the original behaviour, which means that the resulting dictionary will be saved as a dictionary under the defined key. If this flag is turned to *False*, the items of the resulting dictionary will be saved individually as separate key-value pairs.

- **Insight message rework**

The *Message* field of *Insight* plugins was not present in the output of *Syslog Insight Targets* when the data format was set to JSON. *Syslog Insight Targets* now include an *Include Message* flag and a *Message Key* field, that specifies the key to use when assembling JSON output. Also, a new configuration integrity check has been introduced to handle cases where this *Message Key* would conflict with the *Save As Key* field of *Selectors*.

- **HTTP Method Matchers and Selectors are now case sensitive**

Previously, HTTP methods were handled as case insensitive in both *Matchers* and *Selectors*. The RFC and the industry practice differs, so PAS now supports both. *Method Selectors* previously returned values lowercased, now they will return values as extracted from the source. *Method Matchers* were case insensitive, and now they will have a flag that lets the administrator decide.

- **New Matcher for backend response time**

A new *Matcher*, *Backend Response Time*, has been introduced to match on the time it takes for the backend server to respond to the call.

- **TLS 1.3 support in LDAP authentication**

The LDAP authentication in the Configuration API now supports TLS version 1.3.

## Bug Fixes

- **Insight Message default was not visible**

The default value of the *Insight* plugin's *Message* field was the name of the plugin, but this was not visible on the Web UI. A special value, *<Insight Name>* was introduced, which means that the *Message* field by default communicates the name of the *Insight* plugin that produced the message.

- **The Configuration API's OpenAPI schema was invalid**

The OpenAPI schema of the Configuration API contained validation errors, which have been corrected. Also, some validation endpoints were missing from the schema, which are now present.

- **More robust /ready/management endpoint**

The */ready/management* endpoint could time out in certain situations. This has been corrected.

- **Miscellaneous fixes**

- Harmless, nqueue-related error messages were visible in the startup logs of Transport Director, these have been silenced.
- Validation errors on the *URLs* field of *Endpoints* were displayed incorrectly.
- Validating a zip file as an *XSD File* brick could produce an HTTP 500 response.
- Validating an invalid zip file as a *CA File* brick could produce an HTTP 500 response.
- If the certificate file for the LDAP configuration was missing, the Configuration API could fail to start without a meaningful error message.

## Improvements

- **Message field removed from Local Log type Insight Targets**

The *Message* field on *Insight Targets* with the *Local Log* type had no purpose, and has been removed.

- **The /service\_status Web UI endpoint has been renamed to /status**

The */service\_status* endpoint on the Web UI has been renamed to */status* to better communicate its purpose.

- **Certificates are generated even without Docker login**

Secrets like certificates are generated during the simplified installation process even if the login to the Docker registry fails or not available. Only a local Consul image has to be present.

- **Notification when leaving an edit page with a list field**

When attempting to navigate away from an open edit page without saving selected list items, a notification is displayed to avoid accidental data loss.

- **Error handling on the Web UI**

The Web UI is now capable to properly handle HTTP 4xx errors.

- **More thorough Flow Director component health check**

The health check of the Flow Director component now includes the verification of the connection towards the Insight Director, which makes the *Status* page more accurately reflect the state of the PAS components.

- **Kubernetes 1.30 support**

PAS is now tested with Kubernetes 1.30.

- **Administrator Guide improvements**

The *Administrator Guide* received some improvements related to correctness and consistency.