

Improper Access Control in kevinpapst/kimai2

✓ Valid Reported on Nov 20th 2021

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Description

Authenticated users can preview invoices which they do not have read access to

Proof of Concept

To demonstrate this vulnerability, we will use tony_teamlead on the demo site.

1: Login as tony_teamlead.

2: Go to Invoices page, see that there is no Haley-Jaskolski invoice document present on the UI.

3: But if tony_teamlead visits <https://demo.kimai.org/en/invoice/preview/4/4>, they will be able to see Haley-Jaskolski's invoice document. On the demo-stable website if tony_teamlead visits <https://demo-stable.kimai.org/en/invoice/preview/1/4>, they will see Crooks Group's document even though they do not have access to it.

4: Attackers can increment the invoice_id up and down -

https://demo.kimai.org/en/invoice/preview/{invoice_id}/{file_export_format}, to retrieve invoice documents they do not have access to.

Impact

Authenticated users can access potentially sensitive financial information they do not have access to

Occurrences

🐞 InvoiceController.php L136L160

CVE

CVE-2021-3992

(Published)

Vulnerability Type

CWE-284: Improper Access Control

Severity

Medium (6.5)

Visibility

Public

Status

Fixed

Found by



haxatron

@haxatron

pro

Fixed by



Kevin Papst

@kevinpapst

unranked

This report was seen 362 times.

We are processing your report and will contact the kevinpapst/kimai2 team within 24 hours.
a year ago

haxatron modified the report a year ago

haxatron modified the report a year ago

haxatron modified the report a year ago

Kevin Papst a year ago

Maintainer

I don't yet understand that report.

The route you are talking about creates a preview invoice, it's definition is called:
`/preview/{customer}/{template}`

Every user who owns the view_invoice permission is allowed to do that and Teamleads have that permission.

Chat with us

haxatron

a year ago

Researcher

If you look at the invoice previews as susan_super, the super admin, you actually see all the invoices stored on the server, including Haley_Jakolski's

Thus, I presumed that tony_teamlead does not have access to the Haley_Jakolski's invoice documents because it does not show up in the U UI in the demo development server.

But yet if you go to <https://demo.kimai.org/en/invoice/preview/4/4>, you'll be able to view the documents.

haxatron

a year ago

Researcher

Hold on, let me add images for more clarity

haxatron

a year ago

Researcher

1: As susan_super, I can see all invoice documents - [Link 1](#)

2: As tony_teamlead, I can only see some of the documents, presumably because I do not have read access to documents I cannot see - [Link 2](#)

3: As tony_teamlead, I can still access the documents which I do not have read access to, via previews, for instance Gorzanic Brandike: [Link 3](#)

Kevin Papst

a year ago

Maintainer

Understand, thanks! I need some time to investigate.

haxatron

a year ago

Researcher

Thus the issue above is that users without access to reading someone's invoice documents, can still access them by previews.

Kevin Papst

a year ago

Maintainer

Just to clarify: the preview route does not download existing invoice documents, but creates a preview for time-records not yet billed to customers. So for "possible future invoices". But give me some time to investigate now, I'll let you know :)

a year ago

We have contacted a member of the [kevinpapst/kimai2](#) team and are waiting to hear back

Kevin Papst

validated this vulnerability a year ago

haxatron

has been awarded the disclosure bounty

✓

The fix bounty is now up for grabs

Kevin Papst

submitted a patch a year ago

Kevin Papst

marked this as fixed in 1.16.2 with commit [ff9aca](#) a year ago

Kevin Papst

has been awarded the fix bounty

✓

This vulnerability will not receive a CVE

✗

InvoiceController.php#L136L160

has been validated

✓

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