Advisory: Tangro BWF 1.17.5 Multiple Vulnerabilities

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gepostet am 17.12.2020 von Tobias Györfi (https://blog.to.com/author/tobias-gyoerfi/) und Dimitri Lesy (https://blog.to.com/author/dimitri-lesy/)

Tangro BWF 1.17.5 ist anfällig für mehrere Sicherheitslücken, die unter anderem durch eine fehlerhafte Zugriffskontrolle und unsichere direkte Objektreferenzierung (IDOR) ausgelöst werden:

- **Adding Attachments to Arbitrary Workitem (CVE-2020-26171)**
- **JWT without Expiration (CVE-2020-26172)**
- **Unauthenticated PDF Download (CVE-2020-26173)**
- **Upload Filetype Constraint Bypass (CVE-2020-26174)**
- **Profile Attributes of Other Users Writable (CVE-2020-26175)**
- **Unauthorised Listing of Attachments (CVE-2020-26176)**
- **Editing Disabled Profile Attributes (CVE-2020-26177)**
- **Unauthenticated Download of Workitem Attachments (CVE-2020-26178)**

Detailed Security Advisories

Adding Attachments to Arbitrary Workitem (CVE-2020-26171)

```
Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Insecure Direct Object Reference
CVSSv2 Severity: AV:N/AC:L/Au:S/C:N/I:P/A:N (Score 4.0)
CVSSv3 Severity: AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N (Score 4.3)
CWE Reference: CWE-639
CVE Reference: CVE-2020-26171
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

### Overview

The "documentId" of attachment uploads to "/api/document/attachments/upload" can be manipulated. By doing this, users can add attachments to work

### Proof of Concept
```

JWT without Expiration (CVE-2020-26172)

```
Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Session Fixation
CVSSv2 Severity: AV:N/AC:H/Au:N/C:P/I:P/A:N (Score 4.0)
CVSSv3 Severity: AV:N/AC:H/PR:N/UI:R/S:U/C:L/I:L/A:N (Score 4.2)
CWE Reference: CWE-294
CVE Reference: CVE-2020-26172
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

### Overview

Every login in Tangro generates the same JWT token, which allows an attacker to reuse the token when a session is active. The JWT token does not

### Proof of Concept
```

Unauthenticated PDF Download (CVE-2020-26173)

Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Incorrect Access Control
CVSSv2 Severity: AV:N/AC:H/Au:N/C:P/I:N/A:N (Score 2.6)
CVSSv3 Severity: AV:N/AC:H/PR:L/UI:N/S:U/C:L/I:N/A:N (Score 3.1)
CWE Reference: CWE-639
CVE Reference: CVE-2020-26173
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

Overview

PDF files of invoices are served over the "/api/pdf/<documentID>" API endpoint and secured using an additional token:

https://<Tangro Hosts>/api/pdf/00000000000000123456?token=<Token>

Upload Filetype Constraint Bypass (CVE-2020-26174)

Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Upload Filetype Constraint Bypass
CVSSv2 Severity: AV:N/AC:L/Au:S/C:C/I:C/A:C (Score 9.0)
CVSSv3 Severity: AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H (Score 8.8)
CWE Reference: CWE-434
CVE Reference: CVE-2020-26174
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

Overview

The Tangro application requests a list of allowed filetypes from the server and restricts uploads to the filetypes contained in this list. Howeve

Proof of Concept

Profile Attributes of Other Users Writable (CVE-2020-26175)

Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Insecure Direct Object Reference
CVSSv2 Severity: AV:N/AC:L/Au:S/C:N/I:C/A:N (Score 6.8)
CVSSv3 Severity: AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:H/A:N (Score 6.5)
CWE Reference: CWE-639
CVE Reference: CVE-2020-26175
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

Overview

The value of "PERSON" in requests to /api/profile can be manipulated in order to change profile information of other users.

Proof of Concept

```
POST /api/profile HTTP/1.1
Host: <Tangro Host>
```

Unauthorised Listing of Attachments (CVE-2020-26176)

```
Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Insecure Direct Object Reference
CVSSv2 Severity: AV:N/AC:L/Au:S/C:P/I:N/A:N (Score 4.0)
CVSSv3 Severity: AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N (Score 4.3)
CWE Reference: CWE-639
CVE Reference: CVE-2020-26176
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

### Overview

No or broken access control checks exist on the "/api/document/<DocumentID>/attachments" API endpoint.

Knowing a document ID, it is possible to list all the attachments of a workitem, including their respective IDs. This allows an attacker to gathe
```

Editing Disabled Profile Attributes (CVE-2020-26177)

```
Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Incorrect Access Control
CVSSv2 Severity: AV:N/AC:L/Au:S/C:N/I:P/A:N (Score 4.0)
CVSSv3 Severity: AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N (Score 4.3)
CWE Reference: CWE-639
CVE Reference: CVE-2020-26177
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

### Overview

A user’s profile contains some items that are greyed out and thus are not intended to be edited by regular users. However, this restriction is on
Manipulating any of the greyed out values in requests to "/api/profile" is not prohibited server-side.

### Remediation
```

Unauthenticated Download of Workitem Attachments (CVE-2020-26178)

```
Product: Tangro BWF
Vendor: tangro software components GmbH (Heidelberg, Germany)
Tested Version: 1.17.5
Fixed Version: 1.18.1
Vulnerability Type: Insecure Direct Object Reference
CVSSv2 Severity: AV:N/AC:L/Au:N/C:P/I:N/A:N (Score 5.0)
CVSSv3 Severity: AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N (Score 5.3)
CWE Reference: CWE-639
CVE Reference: CVE-2020-26178
Authors: Dimitri Lesy & Tobias Györfi, Thinking Objects GmbH

### Overview

Knowing an attachment ID, it is possible to download workitem attachments without being authenticated.

### Proof of Concept

https://<Tangro Host>/api/document/attachment/<AttachmentID>?archiveName=D1&fileType=/SSC/PDF

### Remediation
```

Disclosure Timeline

2020-09-17: Vulnerability discovered
2020-10-01: Vulnerability reported to vendor
2020-10-01: Vendor responded immediately
2020-10-21: Vulnerability fix implemented, software update enters QA
2020-11-04: Vulnerability fixed, software update 1.18.1 released
2020-12-17: Vulnerability disclosed

References

[1] Advisory URL: https://blog.to.com/advisory-tangro-bwf-1-17-5-multiple-vulnerabilities (https://blog.to.com/advisory-tangro-bwf-1-17-5-multiple-vulnerabilities)
[2] Tangro Website: https://www.tangro.de/ (https://www.tangro.de/)

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IT-Security Consultant

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Dies könnte Sie auch interessieren

Wie wird man Penetrationstester?
Bei einem Penetrationstest (oft Pentest genannt) testen Penetrationstester, auch Ethical Hackers genannt, die Sicherheit eines IT-Systems. Dabei kann es sich z. B. um ein Computernetzwerk, eine Website oder eine Smartphone-App handeln. Ziel ist das frühzeitige Identifizieren von Schwachstellen in dem System, um es danach gegen Angreifer schützen zu können.

(https://blog.to.com/penetrationstester/)

Advisory: ActFax 7.10 Build 0335 Privilege Escalation (CVE-2020-15843)
Während eines Penetrationstests ist mir aufgefallen, dass ActFax 7.10 Build 0335 in der Standardkonfiguration eine Sicherheitslücke enthält. Nach der Installation verfügt die Benutzergruppe „Everyone“ über die vollständige Kontrolle des „Terminal“ Verzeichnisses. Hierdurch kann jeder angemeldeter Benutzer alle Dateien des Verzeichnisses manipulieren. Diese Berechtigungskonfiguration kann zu einer Privilege Escalation führen.

(https://blog.to.com/advisory-actfax-7-10-build-0335-privilege-escalation-cve-2020-15843/)

Advisory: SuperWebMailer < 7.40.0.01550 Unauthenticated Remote Code Execution (CVE-2020-11546)
Die Versionen vor 7.40.0.01550 des SuperWebMailer sind anfällig für eine Remote Code Execution Sicherheitslücke (RCE). Die Anwendung verarbeitet die Language-Variable ohne ausreichende Sicherheitsprüfung und reicht diese intern in ein eval(), was einem unauthentifizierten Angreifer die Ausführung von beliebigem PHP Code im Kontext des Webservers erlaubt (CWE-94). Die Sicherheitslücke ist laut Hersteller in Version 7.40.0.01550 behoben worden (8.4.2020).

(https://blog.to.com/advisory-superwebmailer-cve-2020-11546/)

Advisory CVE IDOR Tangro BWF

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