Risk ID	Technical Risk	Technical Risk Indicators	Related CVE, CWE, or OSVDB IDs	Impact Rating	Impact	Mitigation	Validation Steps
1	Improper Neutralization of Script- Related HTML Tags in a Web Page (Basic XSS)	Code is executed that was not part of the programs original code source. This code came from user input either directly to an input area or indirectly through a url or other source of embedded code. Multiple files from wp-admin www//includes/ajax-actions.php 1795, 2748 www/board.php 43, 44, 50, 58, 59, 64 www//class-ftp-pure.php 81, 91 www//class-ftp-sockets.php 92, 102 www//includes/class-ftp.php 228 www//class-phpmailer.php 631 www//wp-includes/class-smtp.php 168 /class-wp-comments-list-table.php 536 www//class-wp-editor.php 1104 /class-wp-links-list-table.php 163 /class-wp-list-table.php 564 /class-wp-ms-users-list-table.php 189 /class-wp-posts-list-table.php 574, 636	CWE- 80	H	The application populates the HTTP response with user-supplied input, allowing an attacker to embed malicious content, such as Javascript code, which will be executed in the context of the victim's browser. XSS vulnerabilities are commonly exploited to steal or manipulate cookies, modify presentation of content, and compromise confidential information, with new attack vectors being discovered on a regular basis.	Use contextual escaping on all untrusted data before using it to construct any portion of an HTTP response. The escaping method should be chosen based on the specific use case of the untrusted data, otherwise it may not protect fully against the attack. In addition, as a best practice, always validate user-supplied input to ensure that it conforms to the expected format, using centralized data validation routines when possible.	All user input is stripped of blocked characters, such as script tags and the original HTML has not been changed following user input being accepted

		/class-wp-theme-install-list- table.php 385					
2	Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection')	Dynamically constructed SQL statements used. www/board.php 30 www/board.php 56 www/board.php 62 www/includes/dblib.php 23 www/scoreboard/index.php 50 www/scoreboard/index.php 60 www//SimplePie/Cache/MySQL.php 344 www/wp-includes/wp-db.php 795 www/wp-includes/wp-db.php 797	CWE- 89	Н	Attacker is able to view, modify or delete database data through user inputted queries. Also possibility of granting malicious user admin status to execute actions on database data	Avoid dynamically constructing SQL queries. Instead, use parameterized prepared statements to prevent the database from interpreting the contents of bind variables as part of the query. Always validate usersupplied input to ensure that it conforms to the expected format, using centralized data validation routines when possible.	The application contains no dynamically constructed SQL queries. User input is always validated before use.
3	Improper Control of Filename for Include/Require Statement in PHP Program ('PHP Remote File Inclusion')	Include operates on unrestricted user supplied data www/wp-admin/admin.php 238, 240 www/wp-admin/plugins.php 151 www/wp-admin/update.php 90	CWE- 98	Н	The PHP application receives user-supplied input but does not properly restrict the input before using it in require(), include(), or similar functions. This can allow an attacker to specify a URL to a remote location from which the application will retrieve code and execute it.	Validate all user-supplied input to ensure that it conforms to the expected format, using centralized data validation routines when possible. Use white lists to specify known safe values rather than relying on black lists to detect malicious input.	All user-supplied input conforms to expected format from a white list which specifies safe values.
4	Use of Hard- coded Password	Password written directly in code www/board.php 15 www/board.php 18 www/includes/dblib.php 3	CWE- 259	М	A method uses a hard- coded password that may compromise system security in a way that	Store passwords out-of-band from the application code. Follow best practices for protecting credentials stored	No passwords are hardcoded into the code.

		www/includes/dblib.php 6 www/scoreboard/index.php 31			cannot be easily remedied. The use of a	in locations such as configuration or properties	
		www/scoreboard/index.php 34			hard-coded password	files	
		www/scoreboard/index.php 111			significantly increases the		
		www/scoreboard/index.php 114			possibility that the		
		www//network/site-new.php 74			account being protected		
					will be compromised.		
					Moreover, the password		
					cannot be changed		
					without patching the		
					software. If a hard-coded		
					password is		
					compromised in a		
					commercial product, all		
					deployed instances may		
					be vulnerable to attack.		
					In this instance the root		
					password was hard		
					coded		
5	Cleartext	Sensitive information is read or stored	CWE-	M	The application reads	Try to avoid storing sensitive	No sensitive data is
	Storage of	unencrypted in memory	316		and/or stores sensitive	data in plaintext. When	stored in plaintext
	Sensitive	plupload.silverlight.xap			information (such as	possible, always clear	and the memory is
	Information in				passwords) unencrypted	sensitive data after use by	cleared after handling
	Memory				in memory, leaving it	explicitly zeroing out the	sensitive data.
					susceptible to	memory. In languages that do	Additionally, sensitive
					compromise or	not provide a mechanism for	data is stored in
					erroneous exposure. An	zeroing out memory, such as	memory for the
					attacker with access to	Java or C#, focus on	shortest time
					the system running the	minimizing the risk rather	possible
					application may be able	than eliminating it. Try to	
					to obtain access to this	avoid using immutable types	
					sensitive data by	when handling sensitive	

					examining core dumps and swap files, or by attaching to the running process with a debugger and searching mapped memory pages. Unless memory is explicitly overwritten, the sensitive information will persist until it is garbage collected and reallocated for other purposes.	information (for example, use a character array rather than a String). Keep the time window in which sensitive information is present in memory as short as possible to minimize the likelihood of it being swapped to disk.	
6	Insufficient Entropy	Use of an untrusted cryptographic random number generator for generating a key or session identifier. plupload.silverlight.xap	CWE- 331	M	for other purposes. Standard random number generators do not provide a sufficient amount of entropy when used for security purposes. Attackers can brute force the output of pseudorandom number generators such as rand().	If the random number is used where security is a concern, such as generating a session key or session identifier, use a trusted cryptographic random number generator instead.	Only trusted cryptographic random number generator are used in the code.
7	Missing Encryption of Sensitive Data	Sensitive information is passed into a function unencrypted www//class-ftp-sockets.php 138/class-wp-filesystem-ftpext.php 68/class-wp-filesystem-ftpext.php 70	CWE- 311	M	The application exposes potentially sensitive data by passing it into a function unencrypted. This could allow private data such as cryptographic keys or other sensitive information to be erroneously exposed.	Ensure that the application protects all sensitive data from unnecessary exposure.	No sensitive data is unnecessarily exposed

8 Use of a Broken or Risky Cryptographic Algorithm	A cryptographic algorithms used is risky or broken. Multiple files from wp-admin and wp-include www//SimplePie/Author.php 103 www//SimplePie/Caption.php 121 www//SimplePie/Category.php 103 www//includes/class-pclzip.php 2678, 2716 www//class-phpass.php 67, 70, 139, 141, 144, 146 www//class-phpass.php 67, 70, 139, 141, 144, 146 www//class-phpmailer.php 1569, 2044, 2783 www//class-simplepie.php 720 www//class-snoopy.php 1215 www//class-wp-embed.php 192/class-wp-ms-themes-list-table.php 347/class-wp-plugins-list-table.php 473 www//class-wp-theme.php 203 www//class-wp-upgrader.php 1704 www//SimplePie/Copyright.php 93 www//SimplePie/Credit.php 102 www//SimplePie/Credit.php 102 www//default-constants.php 169 www//SimplePie/Enclosure.php 272	CWE- 327	M	The use of a broken or risky cryptographic algorithm is an unnecessary risk that may result in the disclosure of sensitive information.	Ensure that all cryptographic algorithms are safe and unbroken.	All cryptographic algorithms used are safe and unbroken.

9	External Control of File Name or Path	868, 929 www//includes/upgrade.php 546 User supplied input is used as a filename passed as an argument to a function www//class-wp-upgrader.php 1780 www//Text/Diff/Engine/shell.php 42 www//Text/Diff/Engine/shell.php 43	CWE- 73	M	This call contains a path manipulation flaw. The argument to the function is a filename constructed using user-supplied input. If an attacker is allowed to specify all or part of the filename, it may be possible to gain	Validate all user-supplied input to ensure that it conforms to the expected format, using centralized data validation routines when possible. When using black lists, be sure that the sanitizing routine performs a sufficient number of	All user supplied into is validated and sanitized. No function takes in filename as an argument that was constructed based on user-supplied input.
		www//general-template.php 1263, 1283, 1302, 1324, 1352, 1409 www//SimplePie/gzdecode.php 322 www//simplePie/ltem.php 140 www//SimplePie/ltem.php 117, 252, 256 www//link-template.php 1565 www//Cache/Memcache.php 102 www//ID3/module.tag.apetag.php 260 www//ID3/module.tag.id3v2.php 1433 www//ms-functions.php 377, 381, 728, 764 www//plugin-install.php 113 www//SimplePie/Rating.php 93 www//SimplePie/Restriction.php 102 www//SimplePie/Restriction.php 102 www//simplePie/Source.php 74 www//simplePie/Source.php 74 www//includes/update-core.php					

					unauthorized access to files on the server, including those outside the webroot, that would be normally be inaccessible to end users. The level of exposure depends on the effectiveness of input validation routines, if any.	iterations to remove all instances of disallowed characters.	
10	Information Exposure Through an Error Message	Error messages print information about the environment, users, or associated data www/board.php 18 www/includes/dblib.php 8 www/includes/dblib.php 27 www/scoreboard/index.php 34 www/scoreboard/index.php 114 www/wp-admin/plugins.php 284 www//network/themes.php 153	CWE- 209	L	The software generates an error message that includes sensitive information about its environment, users, or associated data. The sensitive information may be valuable information on its own (such as a password), or it may be useful for launching other, more deadly attacks. If an attack fails, an attacker may use error information provided by the server to launch another more focused attack. For example, file locations disclosed by an exception stack trace	Ensure that only generic error messages are returned to the end user that do not reveal any additional details.	All error messages are generic and reveal no extra information

11	External Initialization of Trusted Variables or Data Stores	Size of data copied from the optarg variable is unlimited. www//class-phpmailer.php 1050 www//class-phpmailer.php 1065 www//ID3/getid3.lib.php 602 www//ID3/getid3.lib.php 1356 www//wp-includes/ID3/getid3.php 190 www//wp-includes/ID3/getid3.php 1337 www//wp-includes/ID3/getid3.php 1349 www//Text/Diff/Engine/shell.php 50	CWE- 454	VL	may be leveraged by an attacker to exploit a path traversal issue elsewhere in the application. A function is used to process options passed into a command line application. The optarg variable is used to store any additional arguments that an option requires. If optarg is used in an unbounded string copy, an attacker can specify overly long command line arguments and overflow the destination buffer, potentially resulting in	Be sure to limit the size of data copied from the optarg variable.	All data copied from the optarg is limited in size
12	Reliance on	Cookies are easily accessible and	CWE-	M	execution of arbitrary code. Users can change the	Protect cookies through	All cookies are
12	Cookies without Validation and Integrity Checking	modifiable through browser based tools www/main.php	565	IVI	value of cookies to gain access to a flag	validation of user input and session ID	protected since user input is validated before used.
13	WordPress website used	Website is a WordPress site	CWE- 79 ¹	Н	WordPress websites all store photos and other uploads in the same location, wp-uploads.	Do not use WordPress	WordPress not used

¹ Only accounts for some of the WordPress vulnerabilities

					services or exploit		
					attackers to use the		
	running				opportunities for		
	services are	is open and running			running allow more		open and running.
14	Unnecessary	Unnecessary extra service, such as ftp		M	Extraneous service	Turn off all extra services.	No extra services are
					for valid users.		
					This can be used to check		
					password is incorrect.		
					message that the		
					remain displayed with a		
					while valid names will		
					login attempt message,		
					replaced with the invalid		
					will disappear and be		
					usernames, invalid names		
					if a user tried different		
					login info remains. Thus,		
					information is given the		
					However, if correct		
					information disappears.		
					incorrect login		
					credentials are given, the		
					2, if incorrect login		
					hacking through wpscan.		
					for brute force password		
					credentials. This allows		
					opportunity to input login		
					gives the attacker		
					the login screen. This has two vulnerabilities. 1 it		
					gives the user access to		
					Additionally, wp-admin		

					weaknesses in the		
4.5			014/5		service.	0: 1: :: 1	- 1 1
15	Improper	Multiple login attempts with different	CWE-	M	A user can try to brute	Give a limit on the number of	The attacker will get
	Restriction of	credentials are allowed without	307		force the password by	passwords before the account	locked out of the site
	Excessive	locking the account.			trying many different	is locked.	if too many incorrect
	Authentication	WordPress login			options. The system		passwords are
	Attempts				never limits the number		attempted.
					of attempts or locks the		
					account after too many		
					incorrect attempts.		
16	Execution with	User given root privileges when not	CWE-	M	The software performs an	Only give users the highest	No user operates at a
	Unnecessary	necessary.	250		operation at a privilege	level of privileges as	set of privileges
	Privileges	www/includes/dblib.php – gives root			level that is higher than	necessary for that user to	higher than
		access			the minimum level	operate successfully	necessary.
					required, which creates		
					new weaknesses or		
					amplifies		
					the consequences of		
					other weaknesses.		
17	Improper	Eval() is used in the code	CWE-	Н	The software allows user-	Never use eval() in code.	Eval() not found in
	Neutralization	plupload.silverlight.xap	95		controlled input to be fed	Validate all user-supplied	code
	of Directives in	silverlightmediaelement.xap			directly into a function	input to ensure that it	
	Dynamically				(e.g. "eval") that	conforms to the expected	
	Evaluated Code				dynamically evaluates	format, using centralized data	
	('Eval				and executes the input as	validation routines when	
	Injection')				code, usually in the same	possible. In general, avoid	
					interpreted language that	executing code derived from	
					the product uses.	untrusted input.	