

**Advisory for PHP Security Updates****A. Description:**

PHP has released security updates to address vulnerabilities which could allow unauthenticated, remote attacker to completely compromise a targeted system.

**B. Affected Products:**

The following table gives the list of products affected, CVE IDs and overview of vulnerabilities that have been fixed in the new Software Updates.

Name of Vulnerability	CVE ID	Description	Affected Products
PHP EXIF exif_process_SOFn Method Arbitrary Code Execution Vulnerability	CVE-2019-9640	The vulnerability is in the exif_process_SOFn method, as defined in the ext/exif/exif.c source code file of the affected software, and is due to an invalid read memory operation error by the affected software.	<b>PHP</b> <b>7.1</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15, .16, .17, .18, .19, .20, .21, .22, .23, .24, .25, .26) <b>7.2</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15)   <b>7.3</b> (.0, .1, .2).
PHP EXIF exif_process_IFD_in_MAKE_RNOTE Arbitrary Code Execution Vulnerability	CVE-2019-9639	The vulnerability is in the exif_process_IFD_in_MAKE_RNOTE method, as defined in the ext/exif/exif.c source code file of the affected software, and is due to an uninitialized read memory operation error by the affected software when handling the data_len variable.	<b>PHP</b> <b>7.1</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15, .16, .17, .18, .19, .20, .21, .22, .23, .24, .25, .26) <b>7.2</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15)   <b>7.3</b> (.0, .1, .2).
PHP VCWD_RENAME Information Disclosure Vulnerability	CVE-2019-9637	The vulnerability is related to VCWD_RENAME() and is due to improper file handling by the affected software when performing file rename operations across devices.	<b>PHP</b> <b>7.1</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15, .16, .17, .18, .19, .20, .21, .22, .23, .24, .25, .26) <b>7.2</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15)   <b>7.3</b> (.0, .1, .2).
PHP EXIF exif_process_IFD_in_MAKE_RNOTE Arbitrary Code Execution Vulnerability	CVE-2019-9638	This vulnerability is in the exif_process_IFD_in_MAKE_RNOTE method in the ext/exif/exif.c source code file of the affected software.	<b>PHP</b> <b>7.1</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15, .16, .17, .18, .19, .20, .21, .22, .23, .24, .25, .26) <b>7.2</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15) <b>7.3</b> (.0, .1, .2)

PHP EXIF exif_process_IFD_in_TIFF Method Arbitrary Code Execution Vulnerability	CVE-2019-9641	The vulnerability is in the exif_process_IFD_in_TIFF method, as defined in the ext/exif/exif.c source code file of the affected software, and is due to an uninitialized read memory operation error by the affected software.	<b>PHP</b> <b>7.1</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15, .16, .17, .18, .19, .20, .21, .22, .23, .24, .25, .26) <b>7.2</b> (.0, .1, .2, .3, .4, .5, .6, .7, .8, .9, .10, .11, .12, .13, .14, .15)   <b>7.3</b> (.0, .1, .2).
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### C. Solution:

PHP has released software updates at the following link:

<http://php.net/downloads.php>

PHP has released a changelog at the following link:

<http://php.net/ChangeLog-7.php#>

### D. References :

<https://bugs.php.net/bug.php?id=77540>

<https://bugs.php.net/bug.php?id=77659>

<https://bugs.php.net/bug.php?id=77630>

<https://bugs.php.net/bug.php?id=77509>

<https://bugs.php.net/bug.php?id=77563>