

TYPO3 Core - Bug #21336

Encryption key can be recalculated when using normal mailform when [FE][strictFormmail] == 0

2009-10-22 11:11 - Ernesto Baschny

Status:	Closed	Start date:	2009-10-22
Priority:	Must have	Due date:	
Assignee:	Ernesto Baschny	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Complexity:	
TYPO3 Version:	4.3	Is Regression:	
PHP Version:	5.2	Sprint Focus:	
Tags:			

Description

These settings required for being exploitable:
[TYPO3_CONF_VARS][FE][secureFormmail] 0
[TYPO3_CONF_VARS][FE][strictFormmail] 0

Reported by Stefan Schuler.

Security Team OTRS reference: 2009021010000086
(issue imported from #M12310)

History

#1 - 2009-10-22 11:30 - Ernesto Baschny

Committed to:
trunk (rev.6255 = beta2)
TYPO3_4-2 (rev.6256 = 4.2.10)
TYPO3_4-1 (rev.6257 = 4.1.11)

#2 - 2010-06-30 10:28 - Helmut Hummel

Comments from Philippe Oechslin: =====

Ok, I was looking at 4.3.1 but missed that sha1. But still:

- the ascii cleartext is xored with hex digits of the key, making only 16 possible ciphertexts for each character. For example, if the cleartext is made only of 'a', '.' and ", you can decode it right away, as the 16 possible encodings of these three characters never overlap. Actually the " doesn't overlap with any alphanumerical character.

- the \$key, even though it is a sha1 of the encryption key, is the same for all encodings. If you know one cleartext that is long enough you can decode other ciphertexts. It would be good to have something like

```
$key = sha1($this->TYPO3_CONF_VARS['SYS']['encryptionKey'] .':'. $string);
```

or even make that

```
$key = sha1($this->TYPO3_CONF_VARS['SYS']['encryptionKey'] .  
'RoundTripKey':. $string);
```

so that you can easily derive different keys for other purposes.