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ARA-2020-005: Insecure Direct Object Reference in 1CRM (CVE-2020-15958)

From: Andreas Sperber <andreas.sperber () aramido de> Date: Mon, 14 Sep 2020 15:05:52 +0200

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# Security Advisory
ARA-2020-005: Insecure Direct Object Reference (CVE-2020-15958)
## Affected Product(s) and Environment(s)
Product: ICRN <=6.6.7, confirmed for CREM System ENT-8.6.5, CREM System ENT-8.6.6 and Startup+ Edition 8.5.15
Environments: All host environments
## Security Risk
## Separation of the Startup- S
          predictable folder structure such as [/files/upload/42/) and some of the most sensitive files have a predictable, at least guessable name such as [backup_20380119_031407.zip] (backup_20380119_031407.zip).

### Proof of Concept (PoC)
A backup file, which might contain all the CRM's information including clear text passwords of linked mailboxes, is stored in [/files/backups/](/files/backups/). The file contains the date and the time the archive was created. Assuming the backup is created on a daily bases, guessing the date is trivial. Guessing the time could be achieved by trying out all 86.400 possibilities. However, creating backups usually during nightly hours narrows this number further down. The backup is an unencrypted file and can for example be access via [/files/backups/backup_20380119_031407.zip](/files/backups/backup_20380119_031407.zip) (Other uploaded files are stored under [/files/upload/cid>/] (/files/upload/cid>/] while it is not a big challenge to guess the \(id>-part, it is harder to determine the actual filenames. These filenames are generated by the user and not at random. Assuming a sales man names an offer according to a certain scheme, e.g. Offer 20380119-1.pdf, it might be tempting to try similar names. If this vulnerability is combined with another weakness, such as a directory listing, an adversary would be able to easily obtain all exposed files. ## Solution We strongly recommend to store sensitive data outside the web root. By this, an adversary cannot directly access those file but a download mechanism must be implemented. This download script, which already exists, must ensure the authorization of the requester.

As an urgent solution we recommend ICRM hosters to place an .htaccess file within the affected folders. The .htaccess file must contain the following for an Apache setup:
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