

## SR Signature Identification Upgrade Instructions

### Overview

As Coraid continues to develop advancements in our SR series of appliances we have found it necessary to add a mechanism to ensure each supported SR was generated by our manufacturing team. Starting with release SR20071022 a flash signature will be required in order to put blades online.

Users updating to newer releases will be required to contact Coraid support with information necessary to generate a unique signature for each SR to be upgraded. This information is not obtainable using any releases prior to SR20070924.

To avoid downtime it is recommended users update to the SR20070924 release as a stepping stone as this is the last release under which the signature is not enforced. Users can then send the output of `sos` to Coraid support in order to obtain a flash signature. The flash signature can then be provided to the SR at which time it will be stored and further upgrades can proceed.

This document outlines this process, showing the commands necessary to run to give the SR a unique signature.

**NOTE:** Before proceeding with these upgrade instructions, run `sigcheck -l` on the SR. If the `sigcheck` command exists and the signature is reported as valid, no further action needs to be taken. Proceed to updating to the latest firmware available at the SR support page (<http://coraid.com/support/sr/>).

### Updating to SR20070924

Updating to release SR20070924 proceeds just like any other update (*the SR upgrade procedure is documented in Appendix C of the SR User Manual*). This release contains a new command, `sigcheck`, used to verify signature information. The SR20070924.tarc update can be obtained from the SR support page, or it can be obtained directly using the following URL:

<http://coraid.com/support/sr/SR20070924.tarc>

After updating and rebooting, the `sigcheck` command can be used to verify the SR signature. In preparation for signature verification Coraid began shipping SRs with the signature pregenerated in mid 2007. To see if an SR already contains a usable signature, run `sigcheck -l` (a lowercase letter L) as follows:

```
SR shelf 21> release
Mon Sep 24 15:13:29 EDT 2007
SR shelf 21> sigcheck -l
cookie: '                PQI IDE DiskOnModule                DOM6A00054603ra03.00f'
      sig: unsigned
{cookie,sig} is invalid
SR shelf 21>
```

If the output indicates the signature is valid then upgrading to newer releases can proceed as normal and the SR will operate as expected. If the output indicates the signature is invalid as above, then it is necessary to capture and send the output of `sos` to Coraid support to obtain a signature.

### Setting the signature

With the `sos` output Coraid support will be able to generate a signature unique to the SR. The signature is represented as a 32 byte hex string for ease of use. The signature can be set on the SR using `sigcheck -s`. It is recommended the signature be cut and pasted into the console to avoid mistyping the signature. Setting the signature proceeds as follows:

```
SR shelf 21> sigcheck -l
cookie: '                               PQI IDE DiskOnModule           DOM6A00054603ra03.00f'
      sig: unsigned
{cookie,sig} is invalid
SR shelf 21> sigcheck -s 7C4C56870D01E26685DB2C488A1BD572
SR shelf 21> sigcheck -l
cookie: '                               PQI IDE DiskOnModule           DOM6A00054603ra03.00f'
      sig: 7C4C56870D01E26685DB2C488A1BD572
{cookie,sig} is valid
SR shelf 21>
```

Once the signature is reported as valid the user can continue upgrading to newer releases requiring the signature.

Please contact [support@coraid.com](mailto:support@coraid.com) with any questions or comments regarding signature identification.