

## strongSwan - Bug #369

### Potential memory leak in check\_cookie function in receiver.c

29.07.2013 19:25 - Piyush Patel

<b>Status:</b>	Closed	<b>Start date:</b>	29.07.2013
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Tobias Brunner	<b>Estimated time:</b>	0.00 hour
<b>Category:</b>	libcharon	<b>Resolution:</b>	Fixed
<b>Target version:</b>	5.1.0		
<b>Affected version:</b>	5.0.4		

**Description**

Valgrind report memory leaks in check\_cookie function in src/libcharon/network/receiver.c. I was trying to load test my gateway setup. I'm not sure the particular condition but valgrind reported memory leak. I applied the below fix and that seemed to fix the issue.

The code I applied the fix is for 5.0.4.

```
--- receiver.c.orig 2013-07-29 10:23:51.419625605 -0700
+++ receiver.c 2013-07-29 09:52:40.922880698 -0700
@ -288,6 +288,7 @
packet->destroy(packet);
return FALSE;
}
packet->destroy(packet);
return TRUE;
}
```

#### Associated revisions

##### Revision a566c5f8 - 29.07.2013 22:04 - Tobias Brunner

receiver: Avoid cloning packet data when verifying COOKIE payloads

Besides being more efficient this removes a memory leak that occurred when a COOKIE payload was successfully verified.

Fixes #369.

#### History

##### #1 - 29.07.2013 19:27 - Piyush Patel

Sorry the code diff got messed up:

```
--- receiver.c.orig 2013-07-29 10:23:51.419625605 -0700
+++ receiver.c 2013-07-29 09:52:40.922880698 -0700
@@ -288,6 +288,7 @@
     packet->destroy(packet);
     return FALSE;
 }
+ packet->destroy(packet);
+ return TRUE;
 }
```

##### #2 - 29.07.2013 22:06 - Tobias Brunner

- Tracker changed from Issue to Bug
- Category set to libcharon
- Status changed from New to Closed
- Assignee set to Tobias Brunner
- Target version set to 5.1.0
- Resolution set to Fixed

Thanks for the report. There was in fact a memory leak whenever a COOKIE payload was successfully verified.

I changed to code to use the more efficient `get_packet_data` method, thus, avoiding the cloned packet and preventing the memory leak.