

libosmocore - Bug #3909

osmo_get_rand_id() fails in containerised environment

04/07/2019 03:49 PM - earwin

Status: New	Start date: 04/07/2019
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	
Target version:	
Spec Reference:	
Description	
In some cases, when running newer libc over an older kernel, the getrandom() call returns ENOSYS https://github.com/osmocom/libosmocore/blob/master/src/gsm/gsm_utils.c#L456	
Given that ENOSYS is a valid retval, there's a multitude of fallback schemes for getting randomness. E.g.: https://github.com/vapor-community/clibressl/blob/master/Sources/CLibreSSL/getentropy_linux.c	
Related issues:	
Related to libosmocore - Feature #2610: optimize GnuTLS fallback	New 11/02/2017

History

#1 - 04/07/2019 04:05 PM - ipse

To give some context, we found that the current osmo_get_rand_id() behavior breaks OsmoMGW and OsmoMSC when running in a container when the host system runs an older kernel version. In general, it looks wrong to assume that a newer libc always comes with a newer kernel..

As a side note, the osmo_get_rand_id() failure in OsmoMGW was a bit hard to trace - OsmoMGW didn't provide any meaningful log message, just silently rejected all requests. It took us a while to figure out (using strace) that the reason is in the getrandom() returning ENOSYS.

#2 - 05/08/2019 03:04 PM - laforge

- Related to Feature #2610: optimize GnuTLS fallback added