

# CEL-38 · Mobile Threat Catalogue

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## [Mobile Threat Catalogue](#)

### Obtaining Device Location via SS7 Exploit

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**Threat Category:** Carrier Interoperability

**ID:** CEL-38

**Threat Description:** Tracking of device locations by exploiting network weaknesses.

#### Threat Origin

SCTPscan - Finding Entry Points to SS7 Networks & Telecommunication Backbones [1](#)

GSM Sniffing [2](#)

Toward the HLR: Attacking the SS7 & SIGTRAN Applications [3](#)

Mobile Self Defense [4](#)

#### Exploit Examples

*Not Applicable*

#### CVE Examples

*Not Applicable*

#### Possible Countermeasures

#### Mobile Network Operator

SS7 Firewalls may be deployed throughout the network. See Securing SS7 Telecommunications Networks [5](#)

#### References

1. P. Langlois, SCTPscan - Finding Entry Points to SS7 Networks & Telecommunication Backbones, presented at Blackhat EU, 29 Mar. 2007; [www.blackhat.com/presentations/bh-europe-07/Langlois/Presentation/bh-eu-07-langlois-ppt-apr19.pdf](http://www.blackhat.com/presentations/bh-europe-07/Langlois/Presentation/bh-eu-07-langlois-ppt-apr19.pdf) [accessed 8/23/2016] [↩](#)

2. K. Nohl, GSM Sniffing, 27th Chaos Communication Congress, Dec. 2010;  
[https://events.ccc.de/congress/2010/Fahrplan/attachments/1783\\_101228.27C3.GSM-Sniffing.Nohl\\_Munaut.pdf](https://events.ccc.de/congress/2010/Fahrplan/attachments/1783_101228.27C3.GSM-Sniffing.Nohl_Munaut.pdf) [accessed 8/23/2016] [↵](#)
3. P. Langlois, Toward the HLR: Attacking the SS7 & SIGTRAN Applications, presented at H2HC, Dec. 2009; [www.h2hc.org.br/repositorio/2009/files/Philippe.en.pdf](http://www.h2hc.org.br/repositorio/2009/files/Philippe.en.pdf) [accessed 8/23/2016] [↵](#)
4. K. Nohn, Mobile Self-Defense, presented at 31st Chaos Communication Congress, 27 Dec. 2014;  
[https://events.ccc.de/congress/2014/Fahrplan/system/attachments/2493/original/Mobile\\_Self\\_Defense-Karsten\\_Nohl-31C3-v1.pdf](https://events.ccc.de/congress/2014/Fahrplan/system/attachments/2493/original/Mobile_Self_Defense-Karsten_Nohl-31C3-v1.pdf) [accessed 8/29/2016] [↵](#)
5. G. Lorenz et al., “Securing SS7 Telecommunications Networks”, in Workshop on Information Assurance and Security vol. 2, 2001; <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.480.2222&rep=rep1&type=pdf> [accessed 8/1/2022] [↵](#)

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