

# Quick **Start** Guide



# simcon

SIM CONTENT CONTROLLER

Paraben's<sup>®</sup>  
**SimCon**<sup>®</sup>

Paraben's  
SimCon  
**Getting Started Guide**



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# Introducing SimCon

Paraben's SimCon is a comprehensive forensics tool that lets you to access the data contained on SIM cards without affecting its integrity. It is designed to retrieve data such as phone numbers, addresses, dates, times, etc and provide ways of searching and adding bookmarks to the data.

SimCon is a very useful tool for acquiring and examining this information, and will be extremely valuable in your investigations.

# SimCon Related Applications

Paraben makes several applications related to SIM Card that let you examine other types of devices quickly.

## **Paraben's SIM Card Seizure**

The program developed by Paraben for acquiring information from SIM Cards.

## **Paraben's Device Seizure**

The program developed by Paraben for acquiring information from SIM cards, mobile phones, PDAs, iPhones, and GPS devices.

## **Paraben's iRecovery Stick**

A thumb drive sized device used to acquire data from Apple iPhone in the field. iRecovery Stick is perfect for first responders, detectives, or anyone wanting to acquire information from an iPhone on the fly.

# Working in SimCon

## Exploring the SimCon Interface

The SimCon has three main information panes as shown in the following image.

- In the left pane, the acquired data structure is displayed in a tree-view.
- In the right pane, data from the selected category can be viewed in a grid.
- In the bottom pane, there are two tabs, which allow you to view detailed information on the selected data in Text and Contents tabs.

simcon - 1.sim

File Edit Help

MF
 

- EF\_ICCID
- DF\_GSM
  - EF\_LP
  - EF\_IMSI
  - EF\_KC
  - EF\_PLMNSEL
  - EF\_HPLMN
  - EF\_ACM\_MAX
  - EF\_SST
  - EF\_ACM
  - EF\_PUCT
  - EF\_CBMI
  - EF\_BCH
  - EF\_ACC
  - EF\_FPLMN
  - EF\_LOCI

Item	Value
<input type="checkbox"/> PLMN selector 13	
<input type="checkbox"/> PLMN selector 14	
<input type="checkbox"/> PLMN selector 15	
<input type="checkbox"/> PLMN selector 16	
<input checked="" type="checkbox"/> Packet TMSI signature value	FF FF FF
<input checked="" type="checkbox"/> Packet Temporary Mobile Subscriber Identity (TMSI)	FF FF FF FF
<input checked="" type="checkbox"/> Price per Unit	
<input checked="" type="checkbox"/> RAI routing area code	00
<input checked="" type="checkbox"/> Routing Area Identifier (RAI) location area code	FF FE
<input checked="" type="checkbox"/> Routing Area Identifier (RAI) network code	
<input checked="" type="checkbox"/> Routing Area Update Status	
<input checked="" type="checkbox"/> SIM Phase	phase 2 - profile download required
<input checked="" type="checkbox"/> SIM Service Table	<input type="checkbox"/> CHV1 disable function: alloc
<input checked="" type="checkbox"/> TMSI timestamp	00

Hex	Content
SIM Service Table:	
	CHV1 disable function: allocated, activated
	Abbreviated Dialling Numbers (ADN): allocated, activated
	Fixed Dialling Numbers (FDN): allocated, activated
	Short Message Storage (SMS): allocated, activated
	Advice of Charge (AoC): allocated, activated
	Capability Configuration Parameters (CCP): allocated, activated
	PLMN Selector: allocated, activated
	Called Party Subaddress: not allocated
	MSISDN: allocated, activated
	Extension1: allocated, activated

For Help, press F1

NUM

# SimCon Data Examination Process

When you work in SimCon, there are several functions that you need to be familiar with and perform in order to store and examine the data. The functions include:

- Acquire data
- Examine data
- Create reports
- Export data

Each of these is outlined in this guide, but more comprehensive information is available in the help files that are located in SimCon under the Help menu.

# Acquiring Data

After starting the SimCon, you need to acquire data from your SIM Card.

Data acquisition is the automatic collection of data from the SIM Card. It starts using a SIM Card reader to connect the SIM card to the computer and ends when the folder with a name corresponding to the name of SIM card containing the acquired data is added to the currently opened case.

Acquisition process consists of two steps:

- Preparation steps: Preparing your SIM Card to being acquired.
- Acquisition step: Reading data from the SIM card.

## Preparation step

1. Turn off the phone.
2. Take the SIM card out of your phone.
3. Put it into the card reader. Be careful to insert it properly. Follow the instructions for the cardreader.
4. Connect the cardreader to the computer.
5. If you use the USB cardreader make sure that the proper drivers are installed. You can install them using the SimCon installation.

## Acquisition step

In the main menu, select **File > Read SIM** or click on the **Read SIM** icon  .

If the card is locked by the PIN code, you need to type the PIN code in the PIN code page and click the **Next** button.

**CAUTION:** you only have 3 attempts to enter the PIN code. After that, the PUK code will be requested. Enter the PUK code and a new PIN-code.

1. The Reading SIM Process starts.
2. After the process has finished, you are proposed to enter some information about the case. (Please note that this information is saved together with the .sim file, and shown in subsequent reports about the case).

# Examining Files

After acquiring data, the next step, obviously is to examine it to determine what you have acquired. SimCon gives you several options for examining files and data sources. These include the following tools:

- Grid viewer: It allows you to view data.
- Contents viewer and Hex viewer: It allows you to view contents and hex representation of data.

## To view data:

1. In the left pane, select the category of data which you want to examine. I.e. ADN stays for Abbreviated Dialing Numbers,
2. The elements of this category are displayed in the grid in the right pane. You can define columns width and columns order in the grid.
3. If you select the element in the right pane, the detailed information about it is displayed in the text format in the Contents tab and in the hex format in the Hex tab in the bottom part of the screen.

# Creating Reports

SimCon lets you save reports in the text format. Only numbers and messages can be added to the report.

When you create reports, you can select specific categories of data in the left pane or rows in the grid in the right pane. You can select this information by checking the boxes to the left of the rows in the grid viewer. You can also add all data from the case to the report without checking anything.


## To create reports

1. If you want to create a report that shows specific data, check the corresponding boxes.
2. Select **File > Save Report** in the main menu.
3. The **Save Report** window opens. Define report options:
  - **Exported data:** Select the **Checked items** option to export only checked data; **Highlighted item** option to export only highlighted data to the report; **All items** option to export all items to the report.
  - **Show only text/number for SMS/number items:** Select this option to show only text/number for SMS/number items in the report.
4. Click on the **OK** button. The **Save as** window opens. Select the report name and its location. Click on the **Save** button.
5. Report is generated.

# Exporting Files

SimCon lets you export data from the case to the CSV format. You can use the boxes near the files to select which files you want to export.

## To export data:

1. If you want to export specific data, check the corresponding boxes.
2. In the main menu, select **File > Export** or click on the **Export** icon .
3. The **Export Data** window opens. Define **Export** options:
  - **Export items:** Select the **Checked items** option to export only checked data; **Highlighted item** option to export only the highlighted data; **All items** option to export all data.
  - **Export type:** Select the **Numbers** option to export only numbers; **Text Messages** option to export only text messages.

Click on the **OK** button.

4. In the **Save as** window, select the file's name and its location. Click on the **Save** button.

Data is exported to a newly created CSV file.

## Additional Features

This quick start guide has the basic features you need to begin working in SimCon. However, SimCon has a set of additional features that you can use to make your analysis easier and more complete. These are listed in this section with a brief description. Complete documentation for each is available in the SimCon help files.

- Hash Verifying – Lets you recompute all hashes to check that the original file is not damaged.
- Report Printing – Lets you print the report with different options.



