

UK SECRET

The maximum [classification](#) allowed on GCWiki is **TOP SECRET STRAP1 COMINT**. Click to [report inappropriate content](#).

For GCWiki help contact: [webteam](#) RUSSETT 36525. [Support page](#)

# Reverse Engineering

From GCWiki

Jump to: [navigation](#), [search](#)

[UnClassified Image Logo: Initials Smallest](#)

TEA Reverse Engineering	
<b>Group Number</b>	dial
<b>RUSSETT</b>	36858
<b>NSEC</b>	62353

Team Leader

- [REDACTED]

Reverse Engineers

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

## Contents

- [1 TEA-RE](#)
- [2 Experience Reverse Engineering](#)
- [3 Previous Events](#)
  - [3.1 Level 1 Tours](#)
  - [3.2 Knowledge Sharing](#)
- [4 Current Equipment and Capabilities](#)

## [\[edit\]](#) [TEA-RE](#)

The TEA Reverse Engineering team is part of the [TECA \(Technical Enabling Covert Access\) Product Centre](#).

Our main service is to provide expertise in hardware and embedded software reverse engineering (RE) of cryptographic related products and equipments. The expertise and tools provided are also applicable to hardware forensic analysis and evaluations of tamper protection/detection implementations.


The team provide integrated circuit RE expertise and are the main point of contact for liaison with other UK intelligence agencies on such topics, including research and development of techniques for defeating secure microprocessors (e.g. smartcards).

Due to the nature of the reverse engineering work, it is covered by ECIs and exceeds the classification of the [GCWiki](#). Further details of our lab equipment and work on current products is sited on [CAWiki](#) pages. Accessed only by INSIGHT account.

## [\[edit\]](#) Experience Reverse Engineering

The [TEA-RE](#) team provide a [Reverse Engineering Taster Course](#); a 5-day on-site event where [GCHQ](#) and [CESG](#) staff can use their skills to attempt to reverse engineer a *black box*, with the aim of producing an emulator for SIGINT use. Using equipment such as logic analysers and chip programmers as well as in-house hardware and software tools, the course is designed to promote 'thinking' like a reverse engineer and understanding that it's not as simple as it looks.

Hints are given by RE staff if necessary, but we will let you make mistakes - it's part of the process. There is no set way to finish the task.

For further details about the course contact or possibly attending the next event please contact 

- [Reverse Engineering Course Outline and Pre-requisites](#)

## [\[edit\]](#) Previous Events

### [\[edit\]](#) Level 1 Tours

Live demonstrations and the latest SIGINT news and tours of the [TECA](#) lab facilities are available. Please visit follow the links for further details.

- [Read about past tours](#)
- [To book a place on the next tour](#)

## [\[edit\]](#) Knowledge Sharing

TEA and PTD have started regular [SRE Exchange Meetings](#) where we talk about the latest developments and deal with problems.

# [\[edit\]](#) Current Equipment and Capabilities

The Reverse Engineering Lab is situated in C1-D3, where we have a dedicated lab for investigative work. Our [equipment list](#) is available, which includes products from LeCroy, HP and Agilent.



*NSA Wiki has an article related to this topic:*  
[\*\*\*Reverse Engineering\*\*\*](#)

POC: [REDACTED] ([mail](#) [Phonebook](#) [Find](#))

Retrieved from "[https://wiki.gchq/index.php/Reverse\\_Engineering](https://wiki.gchq/index.php/Reverse_Engineering)"  
Categories: [TEA-RE](#) | [Menu Templates](#) | [Software Reverse Engineering](#)

## Views

- [Page](#)
- [Discussion](#)
- [Edit](#)
- [History](#)
- [Delete](#)
- [Move](#)
- [Watch](#)
- [Additional Statistics](#)

## Personal tools

- [Ejsnowd@nsa](#)
- [My talk](#)
- [My preferences](#)
- [My watchlist](#)
- [My contributions](#)

## Navigation

- [Main Page](#)
- [Help Pages](#)
- [Wikipedia Mirror](#)
- [Ask Me About...](#)
- [Random page](#)
- [Recent changes](#)
- [Report a Problem](#)
- [Contacts](#)
- [GCWeb](#)

## Search

## Toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

## [Powered by MediaWiki](#)

- This page was last modified on 18 November 2011, at 10:18.
- This page has been accessed 2,997 times.

•

[All material is UK \[http://www.██████████.██████████.ck/opensource/policy\\_strategy/copyright/ Crown Copyright\] © 2008 or is held under licence from third parties. This information is exempt under the Freedom of Information Act 2000 \(FOIA\) and may be exempt under other UK information legislation. Refer any FOIA queries to GCHQ on ██████████ x ██████████ or ██████████@gchq.gsi.gov.uk](#)

- [Privacy policy](#)
- [About GCWiki](#)
- [Disclaimers](#)

UK SECRET

The maximum [classification](#) allowed on GCWiki is **TOP SECRET STRAP1 COMINT**. Click to [report inappropriate content](#).