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*) To be published.

f) Follow up of a previously published chapter in WftW Volume 4.

Equipment

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| 1 f) | Aperiodic Receiver type SSR-201 | RDF and Intercept Sets | USA | Brian Harrison |
| 2 f) | RDF Receiver GPO | RDF and Intercept Sets | England | Crypto Museum |
| 3 | RCA Victor Model BP-10 | Radio Transmitters and Receivers | USA | Eric Pierret |
| 4 | Emerson Model 455 | Radio Transmitters and Receivers | USA | Eric Pierret |
| 5 | Polish Test Set | Special Equipment | England | Royal Signals Museum |
| 6 | Receiver Telesonic (v1 01) | Special Equipment | England | Eric Pierret |
| 7 | SEM-78 (v1 03) | Radio Transmitters and Receivers | Ger. W. | Mirko |
| 8 | Merkur (v1 01) | Radio Transmitters and Receivers | Czech | Miro Hornik |
| 9 | Sirius III (v1 01) | Radio Transmitters and Receivers | Czech | Miro Hornik |
| 10 | Neptun | Radio Transmitters and Receivers | Czech | Miro Hornik |
| 11 | Neptun II | Radio Transmitters and Receivers | Czech | Miro Hornik |
| 12 | Clandestine Midget Receivers 1 | Radio Transmitters and Receivers | Holland | Museum Jan Corver |
| 13 | Mk.17 | Radio Transmitters and Receivers | England | Eric Pierret |
| 14 | Hajka-I and IV | Radio Transmitters and Receivers | Slovenia | Janez Červek |
| 15 | Hajka-II and III | Radio Transmitters and Receivers | Slovenia | Janez Červek |
| 16 | Invazija-V (Hajka-V) | Radio Transmitters and Receivers | Slovenia | Janez Červek |
| 17 | Kričać | Radio Transmitters and Receivers | Slovenia | Janez Červek |
| 18 | RTP8-SSB (V1 01) | Radio Transmitters and Receivers | Yugoslavia | Mirko |
| 19 | Systema R | Radio Transmitters and Receivers | USSR | Miro Hornik |
| 20 | Labe A | RDF and Intercept Sets | Czech | Miro Hornik |
| 21 | Bodrog B (v1 01) | RDF and Intercept Sets | Czech | Miro Hornik |
| 22 | Dunaj B (v1 01) | RDF and Intercept Sets | Czech | Miro Hornik |
| 23 | Otava (v1 01) | Radio Transmitters and Receivers | Czech | Miro Hornik |
| 24 | Polish OP3-G | Radio Transmitters and Receivers | England | Mike Willenbroek |
| 25 | Automatic Morse key | High Speed Keyers | Czech | Detlev Vreisleben |
| 26 | Plug-in Transmitter Yugo (v1 01) | Radio Transmitters and Receivers | Yugoslavia | Mirko |
| 27 f) | RBZ Power Pack (v1 01) | Radio Transmitters and Receivers | USA | Gavin Pirie |
| 28 f) | Model 6-1 Andrea | Radio Transmitters and Receivers | Norway/USA | Gavin Pirie |
| 29 f) | Hand Generator | Power Generators | England | Gavin Pirie |
| 30 | Sirius I | Radio Transmitters and Receivers | Czech | Crypto Museum |
| 31 | BND SW receiver | Radio Transmitters and Receivers | Ger. W. | Detlev Vreisleben |
| 32 f) | Uhu | Radio Transmitters and Receivers | Ger. W. | Detlev Vreisleben |
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| 35 | Pivoňka -Peony- (v1 01) | High Speed Keyers | Czech | Manfred Bauriedel |
| 36 | Receiver 2300 | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 37 | 33X French suitcase | Radio Transmitters and Receivers | France | Eric Pierret |
| 38 | Mk.25 | Radio Transmitters and Receivers | England | Finn Fossmark |
| 39 | Mk.26 | Radio Transmitters and Receivers | England | Finn Fossmark |
| 40 | FLE | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 41 | Pluto | Radio Transmitters and Receivers | Czech | Detlev Vreisleben |
| 42 | HR/HT-0008 | Radio Transmitters and Receivers | Czech | Detlev Vreisleben |
| 43 f) | Töpö | Radio Transmitters and Receivers | Finland | Kari Syrjänen |
| 44 | Labe | RDF and Intercept Sets | Czech | Detlev Vreisleben |
| 45 | Lipan | Radio Transmitters and Receivers | Czech | Detlev Vreisleben |
| 46 f) | Polish BP 3 | Radio Transmitters and Receivers | England | Detlev Vreisleben |
| 47 f) | Polish BP 4 | Radio Transmitters and Receivers | England | Erling Langemyr |
| 48 f) | Polish BP 5 | Radio Transmitters and Receivers | England | K. Bell |
| 49 | SHF agents | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 50 | Type 2031 SHF home | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 51 f) | S-Phone Prototype | Special Equipment | England | Eric Pierret |
| 52 | Type 3 WU (v1 02) | Radio Transmitters and Receivers | Ger.W. | Detlev Vreisleben |
| 53 f) | Type 12 WG (v1 02) | Radio Transmitters and Receivers | Ger.W | Detlev Vreisleben |
| 54 f) | Modular | Radio Transmitters and Receivers | USA/Germ. W. | Detlev Vreisleben |
| 55 f) | KSG-Sender | Radio Transmitters and Receivers | Ger. W. | Detlev Vreisleben |
| 56 f) | FS-7 (SP-15) | Radio Transmitters and Receivers | Ger.W | Detlev Vreisleben |
| 57 f) | Type 1-4 GDR | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 58 f) | WSA 1 | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 59 f) | 12026.1 (v1 01) | RDF and Intercept Sets | GDR | Detlev Vreisleben |
| 60 | SE 25 | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 61 f) | BP 4 (Transmitter only) | Radio Transmitters and Receivers | England | Erling Langemyr |
| 62 | Elbug MV | Special equipment | Czechoslovakia | Miro Hornik |
| 63 | RR-48A (v1 02) | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 64 | RTP8-SSB/3 | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 65 | PS-31 | Radio Transmitters and Receivers | Czechoslovakia | Miro Hornik |
| 66 | AN/URC-4 | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 67 | Infrared I (v1 03) | Special Equipment | USA | Detlev Vreisleben |
| 68 | Infrared II | Special Equipment | GDR | Detlev Vreisleben |
| 69 | Infrared III | Special Equipment | GDR | Detlev Vreisleben |
| 70 | Infrared IV (v1 01) | Special Equipment | GDR | Detlev Vreisleben |
| 71 | Infrared V | Special Equipment | GDR | Detlev Vreisleben |
| 72 | Davor | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 73 | 300 A | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 74 | 300AB | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 75 | Dávač keyer | High speed keyers | Czechoslovakia | Crypto Museum |
| 76 | Měšíc keyer | High speed keyers | Czechoslovakia | Crypto Museum |
| 77 | Kongo | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 78 | Přístroj | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 79 | Plug-in Transmitter French 1 | Radio Transmitters and Receivers | France | Detlev Vreisleben |
| 80 | Plug-in Transmitter French 2 | Radio Transmitters and Receivers | France | Claude Bouvier c.s. |
| 81 | Plug-in Transmitter French (Camera) | Radio Transmitters and Receivers | France | Detlev Vreisleben |
| 82 | PS-32 | Radio Transmitters and Receivers | Czechoslovakia | Miro Hornik |
| 83 | UFT-421 | Radio Transmitters and Receivers | GDR | Crypto Museum |
| 84 | Bodrog A | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |

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| 86 | AK 1 | Special Equipment | Czechoslovakia | Miro Hornik |
| 87 | RZ-301 | RDF and Intercept Sets | Czechoslovakia | Crypto Museum c.s. |
| 88 | Hvězda 4 | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 89 | Polish AC Mains SW receiver | Radio Transmitters and Receivers | England | Dennis Yates |
| 90 f) | Post war Telefonbogen | Radio Transmitters and Receivers | Denmark | Michael Taylor |
| 91 | Phonotrix high speed keyer | High speed keyers | USA/Germ. W. | Detlev Vreisleben |
| 92 | Granit | Radio Transmitters and Receivers | Russia | Roman Buja |
| 93 f) | Marjánka (v1 01) | Radio Transmitters and Receivers | England/Czech | Alois Veselý |
| 94 f) | Šimandl | Radio Transmitters and Receivers | England/Czech | Alois Veselý |
| 95 | Midget receivers 2 | Radio Transmitters and Receivers | Holland | Ronald Evers |
| 96 | KSG Geber | High speed keyers | Germany W | Crypto Museum |
| 97 | D cell receiver (v1 02) | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 98 | Handschnellgeber | High speed keyers | GDR | Detlev Vreisleben |
| 99 | Geber E | High speed keyers | GDR | Detlev Vreisleben |
| 100 | Umbrella aerial | Special equipment | GDR | Detlev Vreisleben |
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| 101 | WSA 6 | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 102 | RR-45 (v1 02) | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 103 | Belka-4 (v1 02) REV | Radio Transmitters and Receivers | Russia | Alois Veselý |
| 104 | Filin | RDF and Intercept Sets | Russia | Crypto Museum |
| 105 | Sinitisa | RDF and Intercept Sets | Russia | Crypto Museum |
| 106 | Soyka | RDF and Intercept Sets | Russia | Crypto Museum |
| 107 | Polish 60W transmitter (v1 01) | Radio Transmitters and Receivers | England | Dennis Yates |
| 108* | Kongshavn | Radio Transmitters and Receivers | Norway | Tore Moe Namsos |
| 109 | R-353L | Radio Transmitters and Receivers | Russia | Detlev Vreisleben |
| 110* | R-394K | Radio Transmitters and Receivers | Russia | Crypto Museum |
| 111* | R-394KM | Radio Transmitters and Receivers | Russia | Crypto Museum |
| 112 f) | RR-49A (v1 01) | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 113 | Transmitter hidden in controller | Radio Transmitters and Receivers | Germ.W | Detlev Vreisleben |
| 114 | Transmitter hidden in radio-cassette | Radio Transmitters and Receivers | Germ. W | Detlev Vreisleben |
| 115 f) | RT-48 | Radio Transmitters and Receivers | USA | Jan Lexa |
| 116 | RT-3R | Radio Transmitters and Receivers | USA | Pete McCollum |
| 117* | CMS | Radio Transmitters and Receivers | USA | |
| 118* | AT-3 | Radio Transmitters and Receivers | USA | |
| 119 | SRR-4 | RDF and Intercept Sets | USA | Pete McCollum |
| 120 | PR-35 Faun | Radio Transmitters and Receivers | Czechoslovakia | Crypto Museum |
| 121* | PR-36 Oberon | Radio Transmitters and Receivers | Czechoslovakia | Miro Hornik |
| 122* | GDR bugs intro | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 123 | 31210 (GDR bugs I) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 124 | 31211 (GDR bugs II) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 125 | 31212 (GDR bugs III) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 126 | 31215 (GDR bugs IV) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 127 | 31216-1 (GDR bugs V) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 128 | 31217-1 (GDR bugs VI) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 129 | 31218-1 (GDR bugs VII) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 130 | 31220 (GDR bugs VIII) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 131 | 31225 (GDR bugs IX) | Radio Transmitters and Receivers | GDR | Detlev Vreisleben |
| 132 | 31312 (KOS-11) (GDR bugs X) | Radio Transmitters and Receivers | Bulgaria | Detlev Vreisleben |

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| 134* | 31131 (GDR line bugs I) | Special equipment | GDR | Detlev Vreisleben |
| 135 | Unknown Telefunken (v1 01) | Radio Transmitters and Receivers | Germany W | Detlev Vreisleben |
| 136* | 31226 (GDR line bugs II) | Special Equipment | GDR | Detlev Vreisleben |
| 137* | 33603 (GDR line bugs III) | Special Equipment | GDR | Detlev Vreisleben |
| 138* | RR/C-59 | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 139* | Keyer 32843 | High Speed Keyers | GDR | Detlev Vreisleben |
| 140 | Neva (v1.01) | Radio Transmitters and Receivers | GDR | Crypto Museum |
| 141 | Poplach | Special Equipment | Czechoslovakia | Crypto Museum |
| 142* | RR/E-11 | Radio Transmitters and Receivers | USA | Pete McCollum |
| 143* | 32620 | Special Equipment | GDR | Detlev Vreisleben |
| 144* | PRC-52 | Radio Transmitters and Receivers | USA | |
| 145 f) | Mk.V'2 (v1 01) | Radio Transmitters and Receivers | England | Alois Veselý |
| 146 f) | RT-49 | Radio Transmitters and Receivers | USA | |
| 147* | Russian bugs, SSC 5-1, SSC 5-2 | Special Equipment | | |
| 148 | AN-48 | Radio Transmitters and Receivers | USA | Pete McCollum |
| 149 f) | Mk. VI Libuse | Radio Transmitters and Receivers | England | |
| 150 | Russian Partisan set (v1 02) | Radio Transmitters and Receivers | Russia | Hans Saethre |
| 151* | PR-56 | Radio Transmitters and Receivers | Russia | Crypto Museum |
| 152* | Strizh | Radio Transmitters and Receivers | Russia | Crypto Museum |
| 153* | Saturn | Radio Transmitters and Receivers | Russia | |
| 154* | Mk.15 | Radio Transmitters and Receivers | England | |
| 155*f) | SSTR-1 | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 156* | A Mk.II | Radio Transmitters and Receivers | England | |
| 157* | AP5 | Radio Transmitters and Receivers | England | |
| 158* | Unknown GDR | Radio Transmitters and Receivers | GDR | |
| 159* | RS-6 | Radio Transmitters and Receivers | USA | Detlev Vreisleben |
| 160* | Severok M | Radio Transmitters and Receivers | Russia | Crypto Museum |
| 161* | Rion | Radio Transmitters and Receivers | Russia | Crypto Museum |
| 162* | 1950s miniature | Radio Transmitters and Receivers | Unknown | Crypto Museum |
| 163* | FE8 | Radio Transmitters and Receivers | Germany W | |
| 164* | Hvezda | Radio Transmitters and Receivers | | |
| 165* | Midget receivers 3 | Radio Transmitters and Receivers | Holland | |
| 166* | Midget receivers 4 | Radio Transmitters and Receivers | Holland | |
| 167* | Moffenzeef | Radio Transmitters and Receivers | Holland | |
| 168* | 33011 (GDR line bugs IV) | Special Equipment | GDR | Detlev Vreisleben |
| 169* | 33012 (GDR line bugs V) | Special Equipment | GDR | Detlev Vreisleben |
| 170* | 33100 (GDR line bugs VI) | Special Equipment | GDR | Detlev Vreisleben |
| 171* | Sever | Radio Transmitters and Receivers | Russia | |
| 172* | Polish misc | Radio Transmitters and Receivers | | |
| 173* | Polish A1 | Radio Transmitters and Receivers | | |
| 174* | Australian B2 | Radio Transmitters and Receivers | England | |
| 175* | Ground Aerial | Special Equipment | GDR | |
| 176* | TA-1 | Radio Transmitters and Receivers | USA | |
| 177* | ESK 52 | Radio Transmitters and Receivers | | |
| 178* | SSR 5 | Radio Transmitters and Receivers | USA | Crypto Museum |
| 179* | TAR-224 | Radio Transmitters and Receivers | USA | Pete McCollum |
| 180* | Tabor II (Andromeda) | Radio Transmitters and Receivers | Czechoslovakia | Miro Hornik |
| 181 | Chaika | Radio Transmitters and Receivers | Russia | Crypto Museum |
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| 185 | Alycha | Radio Transmitters and Receivers | Russia | |
| 186 | Acacia | Radio Transmitters and Receivers | Russia | |
| 187 | Cigar case | Radio Transmitters and Receivers | Russia | |
| 188 | Ataka | Radio Transmitters and Receivers | Russia | |
| 189* | Orange-2 | Radio Transmitters and Receivers | Russia | |
| 190* | Komyini | Radio Transmitters and Receivers | Russia | |
| 191* | Leli | Radio Transmitters and Receivers | Russia | |
| 192* | | Radio Transmitters and Receivers | Russia | |
| 193* | | Radio Transmitters and Receivers | Russia | |
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| 198* | Luza | Radio Transmitters and Receivers | Russia | |
| 199* | DKM coder Severok | Special equipment | Russia | |
| 200* | Coder R 353 | Special equipment | Russia | |

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Introduction

After finishing WftW Volume 4 'Clandestine Radio' in 2004, numerous illustrations, circuits, drawings and technical data of other not yet described clandestine radios (and related equipment) were found and kindly send to me. I saved this information over the years, with the intention of compiling a follow-up of WftW Volume 4.

When recently considering the current price of printing plus the dramatic rise of shipping cost, I decided to postpone - or eventually cancel - Volume 4A (the working title of the proposed follow-up) for the time being. However, I felt that the already gathered valuable and very interesting information should not be stored in a dusty folder but shared with readers of WftW Volume 4 'Clandestine Radio'. In view of today's printing and free distribution methods, I considered several different approaches. Eventually I decided to include the not yet published items and amendments on already published equipment in separate chapters, and publish these as a free to download 'WftW Volume 4 Supplement' on my website. There is at present much material wait-

ing for inclusion in the Supplement. Because the preparations for the individual chapters is rather time taking, the publication is in loose leaf form, starting with 8 chapters. This has the advantage to issue updates on already published chapters at a later stage when more information might become available.

The actual publication of the next chapters will be spread over the coming years.

The contents of the Supplement is based on WftW Volume 4 'Clandestine Radio' having a similar scope of information, with the emphasis on technical details rather than history.

The layout and size of the Supplement is identical to WftW Volume 4, enabling the print-outs to be kept and ready for reading in a standard plastic clear view A4 document folder. A table of contents, intro pages and a front cover, which will give the binder an attractive appearance, are provided in the 'Cover, Intro and Contents pages'.

The Supplement downloads are in PDF format with high resolution 300dpi high quality illustrations; for best results these should be

printed on A4 paper size, preferably in colour. It must be noted that chapters with more than one page have mirrored gutters; these should be printed as double sided pages.

The information in the Supplement is believed to be correct, but as technical documentation on the covered equipment is rare and/or not generally available for consultation, gaps were unavoidable.

I shall be grateful to receive information on any possible copyright material which has not been previously acknowledged.

Without the generous support in the form of photographs, drawings, scans, inside information and general encouragement from many individuals, museums and institutes, this Supplement of WftW Volume 4 'Clandestine Radio' would definitely not have been possible.

Any comments, corrections, better quality photos, additional information and new entries are most welcome, full credit will be given to the contributor.

May 2015

Two years later...

By now the approach of a free to download loose leaf publication in separate chapters of the WftW Volume 4 Supplement appeared to be a good choice. The chapters, similar in style to the Compendium series, with its easy to read and digest contents, and well illustrated layout, is appreciated considering the positive reactions.

After two years and about 140 chapters further, there is still much material in the to-do tray, and more gradually coming in. During the time-taking process of reading, selecting and processing material for new chapters it was inevitable that in earlier published chapters minor deficiencies were spotted, or

additional material was found, resulting in a rather large number of changes. The original idea behind the WftW Volume 4 Supplement was a list of amendments and additions to the already published chapters in WftW Volume 4 'Clandestine Radio'. As numerous hitherto unknown sets were found ('will it ever stop?' as my Norwegian friend Erling Langemyr used to say when he had located another rare clandestine radio) these were also included in new chapters.

Still later interesting topics, which were not originally within the scope of of clandestine radio, such as infra-red agents communication and line related covert overhearing sys-

tems, were included. This was suggested and brought in by Detlev Vreisleben who's extensive knowledge and archive of documents on GDR MfS systems and equipment was indispensable.

August 2017

A loose leaf folder for WftW Volume 4 Supplement.

Shown right is a suggestion for a simple and inexpensive method to keep the printed chapters together in plastic clear view A4 document folders. Printable front cover sheets, provided as free downloads, give the folders an attractive appearance.











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Links and Abbreviations

| | |
|--|--|
|   | <p>The main purpose of the (virtual) Crypto Museum is to preserve history. This is done by collecting, restoring and describing historical cipher machines such as the well-known Enigma Machine, spy equipment and the likes.</p> <p>http://www.cryptomuseum.com</p> |
|  | <p>Museum Jan Corver is dedicated to ham/amateur radio, located near Eindhoven in the Netherlands. The museum has a large collection of spy and clandestine radios which are normally not all on display due to space.</p> <p>http://www.museumjancorver.org</p> |
|  | <p>Museeradiomili is a French museum with a fine collection of clandestine radios on its website. Part of the collection is sometimes exhibited on special events.</p> <p>http://www.museeradiomili.com</p> |
|  | <p>The GERMAN SPY MUSEUM BERLIN gives a unique insight into the gloom of espionage right where the Wall once divided the city.</p> <p>http://www.deutsches-spionagemuseum.de/en</p> |
|  | <p>The Royal Signals Museum traces the history of the British Army's battlefield communications experts from the introduction of the telegraph in the Crimea to the secretive story of cryptography and cyber warfare via espionage and satellites!</p> <p>http://www.royalsignalsmuseum.co.uk/</p> |
|  | <p>The Military History Institute in Prague is the research centre, museum, library and archive facility of the Armed Forces of the Czech Republic.</p> <p>http://www.vhu.cz/</p> |
|  | <p>Radio communication technique used by military, security and intelligence forces in Czechoslovakia in the years 1939-1989.</p> <p>http://www.zelenavlna.com</p> |

| | |
|--------|---|
| FRG | Federal Republic of Germany (Germany West) |
| GDR | German Democratic Republic (Germany East) |
| BND | Bundesnachrichtendienst (W German Intelligence Service) |
| PA | Power Amplifier |
| CO | Crystal Oscillator |
| OTS | Operativ Technischer Sektor |
| TBK | Tote BriefKasten = Dead drop box |
| OD | Olive Drab (Army green colour) |
| MO | Master Oscillator (Variable oscillator) |
| RDF/DF | Radio Direction Finding/Direction Finding |
| OG | Organisation Gehlen |
| UDBA | Yugoslav State Security Administration |
| MfS | Ministerium für Staatssicherheit (Ministry of Security) |
| HV A | Hauptverwaltung Aufklärung (Head Office Reconnaissance) |
| NVA | Nationale Volksarmee (East German Army) |

Note:
This page is a work in progress.
Moore will be added in due course.