

Contents

Acknowledgements

Introduction

Links and further reading

List of Abbreviations

Appendix 1 - Other CIA Sets

Appendix 2 - CIA equipment nomenclature

Appendix 3 - Condensed data of Russian covert radios.

*) To be published.

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

Equipment

Chap.	Name or type number	Category/function	Country	Contributor
PART 1				
1 f)	Aperiodic Receiver type SSR-201	RDF and Intercept Sets	USA	Brian Harrison
2 f)	RDF Receiver GPO (v1 02)	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 02)	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 (v1 01)	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
33	FE-10	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben
34	BND Converter (v1 01)	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben

Contents (Continued)

Chap.	Name or type number	Category/function	Country	Contributor
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 (v1 01)	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 03)	Radio Transmitters and Receivers	Ger.W.	Detlev Vreisleben
53 f)	Type 12 WG (v1 03)	Radio Transmitters and Receivers	Ger.W	Detlev Vreisleben
54 f)	Modular	Radio Transmitters and Receivers	USA/Germ. W.	Detlev Vreisleben
55	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

Contents (Continued)

Chap.	Name or type number	Category/function	Country	Contributor
85	RS-13 (v1 03)	Radio Transmitters and Receivers	USA	Detlev Vreisleben
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 02)	Radio Transmitters and Receivers	England/Czech	Alois Veselý
94 f)	Šimandl (v1 01)	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 03)	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 (v1 01)	Special equipment	GDR	Detlev Vreisleben
PART 2				
101	WSA 6 (v1 01)	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 f)	Kongshavn (v1 01)	Radio Transmitters and Receivers	Norway	Tore Moe Namsos
109	R-353L	Radio Transmitters and Receivers	Russia	Detlev Vreisleben
110	NP-3/OP-3	Radio Transmitters and Receivers	England	Francis Kay Vintage
111 f)	TRD	Radio Transmitters and Receivers	England	Malcolm Atkin
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	S 87/20	Radio Transmitters and Receivers	Germany	Gerhard Reinel
118	S 90/40	Radio Transmitters and Receivers	Germany	Gerhard Reinel
119	SRR-4	RDF and Intercept Sets	USA	Pete McCollum
120	PR-35 Faun (v1 01)	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
121	PR-36 Oberon (v1 01)	Radio Transmitters and Receivers	Czechoslovakia	Miro Hornik
122*	Intro GDR radio based bugs	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) (v1 01)	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
127	31216-1 (GDR bugs V) (v1 02)	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
128	31217-1 (GDR bugs VI) (v1 01)	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
129	31218-1 (GDR bugs VII) (v1 01)	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

Contents (Continued)

Chap.	Name or type number	Category/function	Country	Contributor
133	RTP-37 (v1 01)	Radio Transmitters and Receivers	Czechoslovakia	Patrick Giraud
134	Grille	Radio Transmitters and Receivers	Germany W	Detlev Vreisleben
135	Unknown Telefunken (v1 01)	Radio Transmitters and Receivers	Germany W	Detlev Vreisleben
136	'Jerrycan' VHF radio	Radio Transmitters and Receivers	England	Detlev Vreislebe
137	UHF radio	Radio Transmitters and Receivers	England	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	AT-3	Radio Transmitters and Receivers	USA	Pete McCollum
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	TA-1	Radio Transmitters and Receivers	USA	Pete McCollum
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*	Midget receivers 3	Radio Transmitters and Receivers	Holland	
152*	Midget receivers 4	Radio Transmitters and Receivers	Holland	
153*	Moffenzeef	Radio Transmitters and Receivers	Holland	
154	Rion	Radio Transmitters and Receivers	Russia	Crypto Museum
155 f)	PR-56A	Radio Transmitters and Receivers	Russia	Crypto Museum
156*	R393 R	Radio Transmitters and Receivers	Russia	
157*	R394 K	Radio Transmitters and Receivers	Russia	Crypto Museum
158*	R394 KM	Radio Transmitters and Receivers	Russia	Crypto Museum
159*	Strizh	Radio Transmitters and Receivers	Russia	Crypto Museum
160*	Severok K	Radio Transmitters and Receivers	Russia	Crypto Museum
161*	RS-6	Radio Transmitters and Receivers		
162*	32620 speech-morse generator	Special Equipment	GDR	Detlev Vreisleben
163*	Intro GDR line based bugs I	Special Equipment	GDR	Detlev Vreisleben
164*	NF-B audio bugs GDR line bugs II	Special equipment	GDR	Detlev Vreisleben
165*	TF-B AC mains 1 GDR line bugs III	Special Equipment	GDR	Detlev Vreisleben
166*	TF-B AC mains 2 GDR line bugs IV	Special Equipment	GDR	Detlev Vreisleben
167*	TF-B tel 1 33010 GDR line bugs IV	Special Equipment	GDR	Detlev Vreisleben
168*	TF-B tel 2 33011 GDR line bugs V	Special Equipment	GDR	Detlev Vreisleben
169*	TF-B tel 3 33012 GDR line bugs VI	Special Equipment	GDR	Detlev Vreisleben
170*	TF-B tel bugs 4 GDR line bugs VII	Special Equipment	GDR	Detlev Vreisleben
171*	TF-B doorbell GDR line bugs VIII	Special Equipment	GDR	Detlev Vreisleben
172*	TF-B 2-wire line GDR line bugs IX	Special Equipment	GDR	Detlev Vreisleben
173*	TF-B Passive GDR line bugs X	Special Equipment	GDR	Detlev Vreisleben
174*	LWE 6-1 rec. GDR line bugs XI	Special Equipment	GDR	Detlev Vreisleben
175*	LWE 6-2 rec. GDR line bugs XII	Special Equipment	GDR	Detlev Vreisleben
176*	Russian bugs, SSC 5-1, SSC 5-2	Special Equipment	Russia	Crypto Museum
177*	ESK 52	Radio Transmitters and Receivers		
178*	SRR 5	Radio Transmitters and Receivers	USA	Crypto Museum
179*	TAR-224	Radio Transmitters and Receivers	USA	Pete McCollum
180*	CMS	Radio Transmitters and Receivers	USA	
181	Chaika	Radio Transmitters and Receivers	Russia	Crypto Museum
182	Kama	Radio Transmitters and Receivers	Russia	Crypto Museum

Contents (Continued)

Chap.	Name or type number	Category/function	Country	Contributor
183	Kaira (v1 01)	Radio Transmitters and Receivers	Russia	Crypto Museum
184	Anker (v1 01)	Radio Transmitters and Receivers	Russia	
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*	Kopchik	Radio Transmitters and Receivers	Russia	
191*	Lily	Radio Transmitters and Receivers	Russia	
192*	Aryk	Radio Transmitters and Receivers	Russia	
193*	Glet	Radio Transmitters and Receivers	Russia	
194*	Angstrem	Radio Transmitters and Receivers	Russia	
195*	Aiwa	Radio Transmitters and Receivers	Russia	
196*	Logarithm	Radio Transmitters and Receivers	Russia	
197*	Litmus	Radio Transmitters and Receivers	Russia	
198*	Litmus 2	Radio Transmitters and Receivers	Russia	
199*	UFT-435	Radio Transmitters and Receivers	GDR	
200*	MRK-1	Radio Transmitters and Receivers	Hungary	

PART 3

201*
202*
203*
204*
205*
206*
207*
208*
209*
210*

Acknowledgements

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. It is therefore that I gratefully thank the contributors listed below:

- Brian Harrisson, USA
- Jim Kreuzer, USA
- Crypto Museum, Holland
- Paul Reuvers, Holland
- Marc Simons, Holland
- Ray Henville, UK
- Eric Pierret, France
- Stan Feldman, USA
- Royal Signals Museum, UK
- Tim Stankus, RS Museum archivist
- Mike Willenbroek, Holland
- Miro Hornik, Slovak Republic
- Museum Jan Corver, Holland
- Cor Moerman, Holland
- Janez Červek, Slovenia
- Erling Langemyr, Norway
- Gavin Pirie, Norway
- Mirko, Slovenia
- Detlev Vreisleben, Germany
- Chris Bisailion, Canada
- Manfred Bauriedel, Germany
- Walter Zemann, Austria
- Christophe Poirot, France
- Tore Moe Namsos, Norway
- Finn Fossmark, Norway
- Alois Veselý, Czech Republik
- Jan Lexa, Czech Republik
- Roy, Milradio.com, UK
- Immo Hahn, Germany
- Kari Syrjänen, Finland
- Jochen Jirmann, Germany
- Rudolf F Staritz, Germany
- Armand Bouvier, France
- Claude Bouvier, France
- Museeradiomili, France
- Patrick Giraud, France
- Karsten Hansky, Germany
- Dennis Yates †, UK
- Michael Taylor †, UK
- Peter Manteuffel, Germany
- Jan Bury, Poland
- Vit Hanák †, Czech Republic
- Marco Moretti, Italy
- Filippo Sinagra, Italy
- Michal Burian, Czech Republic
- Military History Institute, Prague
- Walt Gromov, Moscow
- WG-Radiomuseum, Moscow
- Gunther Hutter, Austria
- Roman Buja, Poland
- Igor Bobel, USA
- Igor Sergey Gridčín, Russia
- Pete McCollum, USA
- Ronald Evers, Holland.
- Nico van Dongen, Holland.
- Adam Forty, UK.
- Martin Skipworth, UK.
- Tommy Antonsen, Norway.
- Hans Saethre, Norway
- Tor v.d. Lende, Norway
- Dušan Klavik, Czech Republic
- Rota Nazdar Association, Czech Rep.
- Valery, RW6ASE, Russia
- Gerhard Reinel, Germany.
- Antonio Fucci, Italy.
- Malcolm Atkin, UK.
- Francis Kay Vintage, UK.

† Silent key.

Not yet acknowledged photos:

In number of cases it appeared impossible to locate the original source of photographs, or I never received a reply to my request for permission of publication in this free to download publication. I would be grateful to receive information on any possible copyright material which has not previously been acknowledged.

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 sent 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.



COPYRIGHT.

Although a number of pictures were taken by myself from borrowed equipment, the copyright of the majority of photos is owned by the contributors, who gave kind permission for publishing their material in the Supplement. Though downloading, copying and further distribution of the *WftW Volume 4 Supplement* is highly encouraged in its original form, the use of individual pictures is not permitted and expressive permission must be obtained from the contributor mentioned in the 'References' of the particular Supplement chapter.

Links

 	<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>SPY MUSEUM BERLIN Welt der Spione GmbH</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</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>Military History Institute Prague</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>Walt Gromov's Radio Museum (previously RKK Radio Museum) displays an extensive collection of communication equipment of WW1 and WW2 Russian developments, but also lend-lease and German WW2 equipment.</p> <p>http://www.wg-museum.ru</p>
 <p>Green Wave</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>
	<p>Musee des Communications is located in Champagne, France. The collection, ranging from early visual communication to relative modern objects, has a large and rare collection of clandestine radios permanently on display.</p> <p>www.musee-des-communications.fr</p>

List of abbreviations.

FRG	Federal Republic of Germany (Germany West)	Abt.	Abteilung = Department
GDR	German Democratic Republic (Germany East)	O.G.	Operations Gebiet = Operational Area (Usually GDR)
BND	Bundesnachrichtendienst (W German Intelligence Service)	IM	Inoffizielle Mitarbeiter = Non official employee (e.g. agent)
PA	Power Amplifier	NVA	Nationale Volksarmee (East German Army)
CO	Crystal Oscillator	HV	Hauptverwaltung Aufklärung (Head Office Reconnaissance)
OTS	Operativ Technischer Sektor	A	
TBK	Tote BriefKasten = Dead drop box	MfS	Ministerium für Staatssicherheit (Ministry of Security)
OD	Olive Drab (Army green colour)	UD-	Yugoslav State Security Administration
MO	Master Oscillator (Variable oscillator)	BA	
		OG	Organisation Gehlen

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