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Early UHF bug fitted in a metal tube. (Above) Note the external miniature Sennheiser MM-301* microphone.

Enlarged internal view of this band V bug. (Below).



Introduction to radio based bugs Country of origin: GDR

DATA SUMMARY

Organisation: MfS, Abt 26, GDR. 1)

Design/Manufacturer: MfS, OTS Abt 33, GDR.

Year of Introduction: 1950s onwards.

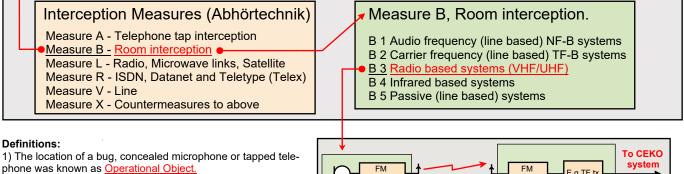
Purpose: Interception of speech in rooms using radio as part of transmission.

Frequency: Initially Band I and III, later Band V. FM. Dual FM for speech concealment and masking hum on later models.

REMARKS

This introduction and the following 10 chapters cover the application of radio based bugs, also known as 'wireless bugs', and ancillary equipment. Radio as (part) transmission medium from a concealed bug to a central recording location was used for non-permanent overhearing, when speed of installation of a bug was required and/or no line could easily be arranged. It should be noted that in most cases the recording of the intercepted speech was routed to and done centrally in the so called CEKO system. See Chapter 163 for details. The first generations of radio bugs operated in Band I and III, (VHF 1 and 3), later radio bugs were exclusively located in Band V (UHF 5).

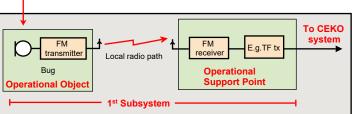
Interception (sometimes referred to as overhearing) systems (*German: Abhörtechnik*) in the GDR were divided into <u>6 different</u> <u>Measures</u> (*German: Maßnahmen*) This introduction chapter and the following chapters deal exclusively with <u>Measure B 3:</u> radio <u>based room interception</u> systems. Measures **B 1, 2, 4 and 5** were covered in other chapters in this WftW 4 Supplement. *The individual numbering and sub-dividing of Measure B systems was not official but a personal addition for ease of identification*.



2) An <u>Operational Support Point</u>, was used when no direct connection of a B measure Operational Object to a District CEKO could be arranged. In the case of radio based systems (B 3), it was usually in a nearby (or the same) building restricted by the relative short range of the transmitter in a radio bug.
3) An Operational Object to the Operational Support Point formed the <u>1st Subsystem</u>.

Due to the rather low RF levels of a radio bug and walls obstructing the RF path, a short range of a few hundred meters (much depending on the type of bug and local circumstances) was to be expected, hence the need of an Operational Support Point within range.

¹⁾ Ministry of Security, Department 26, Telefon- und Fernschreib überwachung, akustische und optische Raumüberwachung. (Telephone and telex interception, acoustical and optical room interception).



Block diagram of the 1st subsystem radio structure in Measure B 3

The Operational Support Point comprised a receiver and for example a line unit. Most of the later receivers at the Operational Support Point were designed to be remotely controlled from the 2nd subsystem. See chapters 123, 126, 130 and 131.

*) With thanks to Paul Reuvers of the Crypto Museum who attended me to the incorrect type of microphone used with the early UHF bug, and an unknown 'Band III' bug (previously in this chapter). The latter appeared to be a Band V bug known as Botond 31217-132, recently acquired and investigated by the museum, was moved to Chapter 128.

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Examples of early radio based bugs

