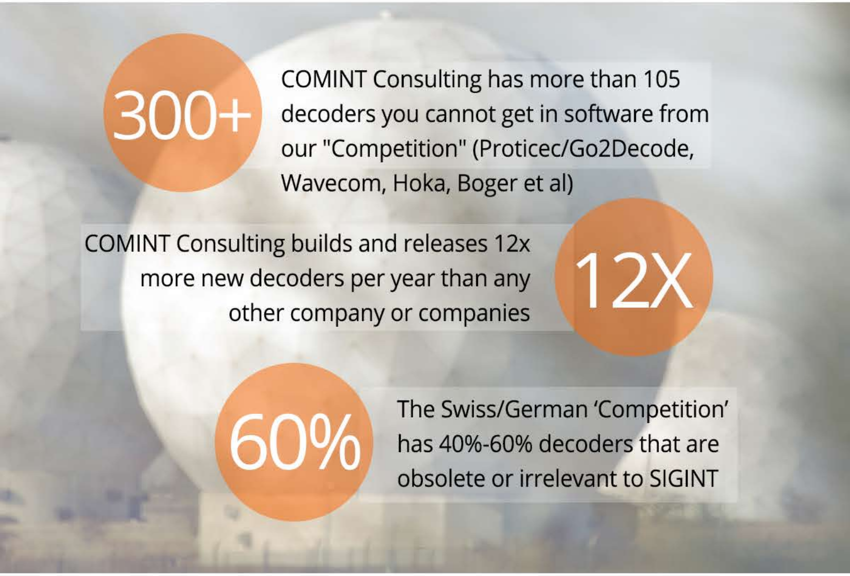
DECODER COMPARISON



300+

COMINT Consulting has more than 105 decoders you cannot get in software from our "Competition" (Proticec/Go2Decode, Wavecom, Hoka, Boger et al)

COMINT Consulting builds and releases 12x more new decoders per year than any other company or companies

12X

60%

The Swiss/German ‘Competition’ has 40%-60% decoders that are obsolete or irrelevant to SIGINT

100%

All COMINT Consulting decoders are 100% relevant, current, and work against target modems still in use today. For example, Go2Decode currently (2024) offers nearly 50 obsolete decoders and

20+

There are more than 10 specific decoders where COMINT Consulting has more complete solutions (i.e. – all waveforms are demodulated and decoded as well as decoding many more variants). The “Competition” is

20+ incomplete decoders.

often missing 2 or more waveforms of multi-waveform modems.

COMINT CONSULTING...

has 4,000+ precision, real-time HF classifiers ("Competition": ~ 23 coarse recognizers)

has cryptographic parsers (KG84, Citadel I/II, Azimut, etc)

has control modules for almost 400 hardware devices (SDR, DF, receivers, capture cards, recorders and digitizers)

has built-in cryptanalytic and collection tools

has decryption tools (not public; only available to allied countries)

offers parallel decoding (10x instances of Krypto500 run per key)

does NOT require a soundcard

supports a half-dozen industry-leading file formats

supports numerous Allied Intelligence Community protocols and interfaces and is VITA-49 compliant, XMidas / MidasBlue compatible

does not charge 400 Euros for email support as does Wavecom

does not charge for bug fixes

offers free updates for 12 months

offers custom and proprietary decoder development

has nearly 500 radio fingerprinters ("Competition": zero)

has new and completely-unique visual parsers for exploitation of proforma data

can be embedded in hardware devices and run on Virtual Machines (VM)

OBSOLETE NON-TARGET AMATEUR MODES

Though COMINT Consulting does not produce demodulator-decoder-parser chains for these modes, they are ALL properly and accurately classified by its classifiers.

COMINT Consulting and its customer base have no interest in modes not used by SIGINT targets (such as radio amateur modes or modes used by innocuous agencies or those of no interest to SIGINT systems). COMINT Consulting does not deploy solutions to modes off-air for many years.

Obsolete HF modes offered by "Competition":

ALE-400
ALF-RDS
ARQ6-90
ARQ6-98
ARQ-M2-242
SP-14
ARQ-M4-342
ARQ-N
AUTOSPEC
BULG-ASCII
DCS SELCALL
FEC-A
Alcatel 801H
BULG-ASCII
HC-ARQ
HNG-FEC
FIRE / MS5
PICCOLO
AMOR / AMOR-96
RUM-FEC
TWINPLEX
POL-ARQ
PRESS-FAX
ARTRAC / DUP-ARQ
SI-ARQ
ARQ-M4-342 / TDM 342
SPREAD-11/-21/-51
SI-FEC / FEC-S / SI-AUTO
FEC-12 / VISEL / YUG-20
ARQ-SWE / SWED-ARQ
FEC-100 / FEC-101 / FEC-A
ARQ-M4-242 / TDM 242
ARQ-28 / ARQ-58
ROU-FEC / RUM-FEC / SAUD-FEC
PICCOLO 6 / PICCOLO Mk 6 / PICCOLO Mk 12
COQUELET-8 / COQUELET-13 / COQUELET Mk 1 / COQUELET Mk 2 / COQUELET-80 / COQUELET-100 / COQUELET-8 FEC

Incomplete Modes (offered by "Competition"):

AK10 (aka AK10 FEC 101)

Incorrect name. A variant of CCIR476, whose solution was deployed 8 years ago by COMINT Consulting, some of whose competitors added a solution in 2016. Again, SIGINT software is kept current - radio hobby/monitoring software is not, even if you put the label 'Professional' on it - you can't hide inaccuracy, obsolescence or incompleteness.

ALIS, ALIS-2

COMINT Consulting offers solutions to the six variants of ALIS (v10, v30, v40, v50H, v50A+H and ALIS-2000). These are variations in addressing, capability like hopping, adaptiveness, or in the case of v30, unique to a particular R&S customer. COMINT Consulting customers demand this very important difference – and NO other software offers this.

AQUARIUS 200 (aka ACQUARIUS 200)

Correct name Artek-1HF. There are two users and two variants of the modem incorporated in this transceiver system, one of which is simple, unecrypted FSK radioteletype. Listing it as a unique modem is false and misleading, just as using a made-up name is unhelpful and shows you our Competition does not have insight into the actual target systems. Furether, even the unencrypted version of this system has a second waveform, absent from our competitors' software offerings.

COMINT Consulting handles BOTH variant waveforms and traffic types used by the military and intelligence services that use this transmission method. Know the difference - SIGINT software is by necessity more complete, accurate and current than radio hobby / monitoring software.

AUM-13, NUM-13

COMINT Consulting offers solutions to this as well as its two follow-on variants. Also, AUM-13 (incorrect name) has fallen into disuse in recent years.

BR6028

More correctly and more commonly used is BR6029C. COMINT Consulting has, but does not deploy a solution since the only remaining on-air user is NATO/Allied.

G-TOR

COMINT Consulting offers a solution that includes decoder/parser chains for two known variants of this system; though the two variants are now largely in disuse in Asia and S. America.

CHN 4+4

COMINT Consulting offers a solution to both variations of this modem and are unique in this.

CIS-11, CIS-14, CIS-36, CIS 36-50, CIS 50-50

COMINT Consulting offers full and correct automatic classification and demodulation to all of the actual and current modems. The correct names are T-206, T-206 MT, T-206 2MT, T-206 3M, T-206 3M1, T-207, T-208, T-222, T-226, T-310, T-310/50, T-310/51, T-352/353 – and automatically detect the various variants (Army, AF, PVO, FSB, MVD, Railway Forces, etc) , and T-600 (both Naval and VGK versions). For example, CIS-11 decoder offered by The Competition handles only one of two on-air variants. COMINT Consulting handles both, automatically, and uses the correct modem name (T-310/50 Adria).

CIS-12 (aka MS5, FIRE, PSK12, etc.)

The correct name is AT-3004D - it is about 30 years old, and has two waveforms (BPSK and QPSK). It used to contain what was referenced as MS5 as one of many inputs, but has not for decades. MS5 = Maskirovka5 = T-230-1A vocoder - no longer in service…it has been replaced by something else. So, “the competition” (et al) decoders demodulate and decode a vocoder no longer in use. The current situation: the modem is used by 5 users and has 13 possible inputs…no one except COMINT Consulting processes them all.

Worse, the AT-3004D has been replaced by some users with a newer modem called the AT- 3104D. It has 4 waveforms and again, COMINT Consulting is the only company with a complete solution to all waveforms and inputs.

Since the Ukraine incursion, yet another new modem, called Efir-HV, has come to the forefront - it has 4 waveforms, and again, COMINT Consulting is the only company with a complete solution to all waveforms and inputs.

More recently (2015), the Russian military has begun experimenting with a replacement to the Efir-HV modem that uses several burst BPSK waveforms. COMINT Consulting suspects there are 4 waveforms in it, but are aware of only three so far. COMINT Consulting has a solution for all three of them…again, COMINT Consulting is the only company with a complete, current and released solution to all of the above.

Codan Selcall

Actually the correct name is CCIR493-4. The COMINT Consulting version of the CCIR493-4 Selcall decoder automatically and correctly decodes all 6 submodes and 12 variants of this calling system made by various OEMs (Datron, Codan, Barrett, etc).

DGPS

COMINT Consulting handles several variants of DGPS used by targets for military purposes that vary from the standard.

MFSK-16

COMINT Consulting does not offer a solution to the amateur mode, but does offer a solution to the two variants used by a SIGINT target.

PACTORs

COMINT Consulting offers many more unique CRC and other variant (Kantronics, etc) solutions to military targets on-air - several dozen more! Krypt0500 v1.258, for example contains over 30 more Pactor variant solutions than ANY competitor.
Unlike our "The Competition", Krypto500 AUTOMATICALLY handles several variants of Pactor used throughout the world, namely these:

SCS Pactor
Schuemperlin Pactor (aka Swisscom Pactor)
DSP-QUIC
DSP-QUIC-II
Datron DT5200 X-Tor
Datron DT5300 X-Tor
Datron DT5300 X-Tor Maritime
Kantronics Packet
Over 20 Proprietary Pactor customer variants

All of the above are decoded automatically in the Pactor modules contained in Krypto500. This includes decoders for Pactor Selcalls, markers and availability signaling (aka Pactor-Free) as well as all data waveforms - many of which are also not a complete part of our competitors' decoders.

Additionally, the Pactor decoder modules produced by COMINT Consulting also automatically some 20+ more proprietary variants used in Europe, Asia, S. Asia and S. America. As Krypto500 is SIGINT software, there is also a special, built-in tool to allow users to extract content from ANY proprietary version using complex CRC and/or XOR Swap Algorithms. - on the fly, in real-time, when the entity is first encountered!