

PROFORMA

What is SIGINT?

SIGINT is knowledge derived from the interception and processing of communications and non-communications signals. It is composed of four elements. Communications Intelligence (COMINT) is the interception and analysis of communications signals. Foreign Instrumentation Signals (FIS) Intelligence (FISINT) makes up another portion of the SIGINT discipline. FISINT attempts to collect and interpret the data from telemetry and instrumentation systems in order to derive system capabilities and activities. For strategic arms control, the U.S. could count numbers principally through the use of photo satellites, "But the chief means of monitoring the capabilities of these missiles was interception of Soviet missile test telemetry by signals intelligence satellites and ground stations." ³

"Proforma" or data link signals make up another SIGINT category which is growing in importance. These are hybrid signals containing the characteristics of both COMINT and Electronic Intelligence (ELINT) signals.

ELINT is defined as, "...intelligence information that is the product of activities in the collection and processing, for subsequent intelligence purposes, of potentially hostile, non-communications electromagnetic radiations which emanate from other than nuclear detonations and radioactive sources."⁴

Quelle: <http://www.dtic.mil/dtic/tr/fulltext/u2/a277013.pdf>



(bearbeitet : Manfred Bischoff)

Other kinds of communication between machines are of interest, such as the automated communications between radars and missile sites in an air defense network. These communications can use dedicated microwave or [troposcatter](#) networks, so they can be intercepted using the same methods as COMINT targets. The US codeword for these activities is **PROFORMA**.

<https://satelliteobservation.net/2017/06/04/signal-intelligence-101-sigint-targets/> (28.03.2020)

PROFORMA - Digital command and control data communications signals that relay information and instructions to and from radar systems, weapon systems (e.g. surface-to-air missiles, anti-aircraft artillery, fighter aircraft), and control centers. Or just machine-to-machine transmissions.

<https://electrospace.blogspot.com/p/nicknames-and-codewords.html> (28.03.2020)

GUARDRAIL COMMON SENSOR (GR/CS)

PROGRAM SUMMARY and SYSTEM DESCRIPTION - Final Revision 0.615 April 1994

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2.5.1.7

Special Signal Processor (Proforma); The system employs the **EPR-107C** which is a PC workstation installed to process special narrow band digitized signals. The proforma operator works and interprets intercepts the processed data. The input is from an operator's radio or from the receiver pool. Up to two **Special Signal Processing (SSP)** recognizers/classifiers can be tasked to identify and process formatted weapon's signal and other proforma data. Receivers are seized from the receiver pool to support the SSP tasking or it can monitor the operators channel. Wide band SSP recognizers are planned for on-board processing. Recognized channels will alert the operator to engage the **Integrated Processing Facility (IPF)** SSP for further processing.

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3.1.2

Narrow Band/Wide Band Proforma; The Proforma upgrade integrates the **EPR-107C** Special signal processor (SSP) into the IPF. The SSP is a PC based, classified capability that connects into the signal path via the Audio Management system. Signals that are routed to the SSP can come from a operator assigned receiver; or from a specified receiver that is assigned as part of the system search capability when the signal is recognized by **Signal Classification and Recognition System (SCAR)**; or an intercept receiver can be seized from the receiver pool when a manually recognized signal has been identified for processing. There will be two **EPR-107's** in the IPF located in two separate vans. This capability with its specified weapons systems signal analysis and its ability to process other digital signals, will be similar to other GR installations except its tasking and output will transfer into the system data base to support a more integrated data correlation.

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Quelle: <https://fas.org/irp/program/collect/GRHAND.pdf> (28.03.2020)

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