# IAG
INFORMATION ASSURANCE GROUP

Trust-IT

Trust Cases – Justifying trust in IT solutions

The project aims at developing an effective method supporting a continuous assessment of the trustworthiness of IT systems and infrastructures within their application contexts.

The research focuses on devising a methodological framework within which a (justified) confidence in the trustworthiness of the IT system or infrastructure being used in a specific application context can be developed and maintained. The framework is built around the concept of the **Trust Case** (TC).

Trust Case is a documented body of evidence that provides a convincing and valid argument that a system is adequately trustworthy for a given application in a given environment.

Trust Case is developed as a tree-like structure, which allows to decompose the complex ideas of trustworthiness, safety, privacy etc. into more specific claims about the system's properties. The decomposition, however, makes a logical reasoning thanks to argument nodes of the tree. The reasoning in Trust Case is supported by references to project documentation, standards and other relevant documents.
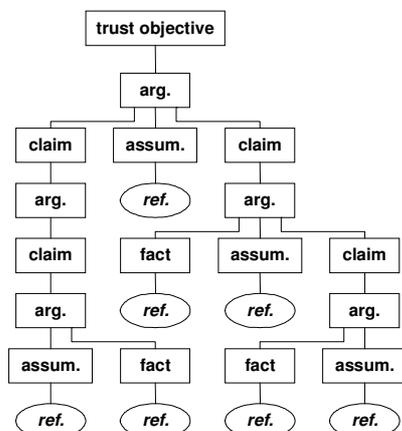
The following Trust-IT objectives are defined:

- ➢ To develop **TC language** defining the syntax, semantics and typical design patterns of trust cases
- ➢ To develop **TC process** defining how trust cases are built, maintained and used
- ➢ To develop **TC system** defining the environment supporting the TC language and process

TC language comprises natural language and object context models for unambiguous description of system's properties and environment. It also uses design and analytical patterns to Trust Case development.

TC process is a workflow which involves TC developers, parties involved in designing and implementing the system, independent assessors and stakeholders' representatives. The process includes iterative TC development, collection of evidence and trust case validation.

TC system consists of a set of tools, which support editing the Trust Case, management of the evidence supporting the claims about the system's trustworthiness as well as publishing subsequent working versions of the trust case for validation or formal assessment from other parties involved in the TC development process.

Visit Trust-IT website:

kio.pg.gda.pl/trust_case/