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The key stages of report considerations:

1. History of creation.
2. Key theoretical aspects: elements, systems, procedures and structures.
3. Applications of the theory of plafales into the solutions (as proof algorithms)

to the Millennium problems in Mathematics: the proof algorithm of the central problem of computer science P vs NP, the solutions to the Navier-Stokes equations, Riemann hypothesis proof.

4. There are new cryptographic algorithms and IT platforms, based on the theory of plafales, which can be used and implanted in the following sectors of industry:

4.1. Military-industrial complex: reorganization of the system of identification of military objects “*Friend-Foe*” (the central aspect of radar systems), the protection of military talks, data translation, complex protection for computer systems and computer appliance.

4.2. IT: database protection, software protection, the creation of secure communication protocols, providing a platform on which implemented the equality of complexity classes $P = NP$.

4.3. Banking system: protection of databases “*Client-Banks*”, software protection, protection of electronic payment systems, the protection of bank cards and payment terminals.

4.4. Financial market: software and databases protection of Trading terminals and Stock markets, development of artificial neural network.

5. Conclusion.