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| ***Relais Process Execution*** Software download The new version of Relais performs the probalilistic linkage approach, based on the Fellegi-Sunter method   * Documentation: description of Relais architecture on GitHub <https://github.com/mecdcme/is2/tree/master/doc> * Open source: the source code is available on GitHub <https://github.com/mecdcme/is2/> | Developing and sharing statistical servicesThe project In the European Statistical System (ESS), the Vision 2020 promotes a joint strategic vision, based on common models and standards. In this context, the project “Integrating Shared Statistical Services” (I3S) aims to:   * foster the implementation of shareable statistical services * reduce the technological and methodological barriers that make the process of sharing rather complex   **Contacts**  If you are interested in the shareable services developed as part of this project, please contact: Franck Cotton, expert in the information system, Directorate of INSEE  email: [franck.cotton@insee.fr](mailto:franck.cotton@insee.fr)  For specific request on Relais service, please contact Mauro Bruno or Marco Silipo, team leaders of Istat task force for Relais reengineering  email: mbruno@istat.it  email: [silipo@istat.it](mailto:silipo@istat.it) | |  | | --- | | ESS**Net**  I3S logo  Implementing  Shared  Statistical Services  http://www.cros-portal.eu/  http://www.cros-portal.eu/ | |  | | RELAIS statistical SERVICE | | RECORD LINKAGE AT ISTAT | |
| ***Main steps of record linkage*** Service descriptionThe conceptual approach The first version of Relais dates back to 2007. The toolkit was designed as a standalone software running on desktop computer  Record linkage is a process that aims to identify if two (or more) records represent the same real world entity or not. Different process steps can be combined in order to achieve the optimal solution | Relais Statistical Service During the Essnet, the existing components have been re-engineered to perform the probabilistic linkage  Relais is a software designed and developed to solve record linkage problems Implemented method The new version of Relais performs the probabilistic linkage approach, based on the Fellegi-Sunter method. The process is composed by the following steps:   1. Selection of datasets for record linkage 2. Creation of search space using the cross-product method 3. Matching variable and comparison function selection 4. Application of the decision model that implements the Fellegi-Sunter probabilistic method 5. Creation of the resulting datasets (match, un-match, possible match) | ***Statistical service components*** Relais architecture components The service architecture is the combination of the following elements:   * Data/Metadata repository * Package/libraries catalogue * Workbench   These components allow the end user to:   1. Create a working session (upload input data, select method) 2. Launch data processing (specify core variables, set parameters) 3. Run method (create and analyze output)  Plans for the future… Next software release will allow the user to perform the deterministic record linkage |