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| Title | Bank Transfer - real tokenised |
| Creator / Responsible Partner | CaixaBank (CAIXA) |
| Dataset Identifier | 03_TokenisedBankTransferCAIXA_I-BiDaaS_WP2_D2.1_v0.2 |
| DOI | 10.5281/zenodo.4264086 ¹ |
| Dataset Description | ‘Advanced analysis of bank transfer payment in financial terminal’ use case dataset is a dataset generated collecting most of the relevant and additional contextual information of a bank transfer done by a CAIXA employee in a bank office. It is executed by the employee in the name of a customer that authenticates itself and orders it, by identifying all the relational tables that can contain information of the transfer, the customer, the receiver of the transfer, the office and terminal where it is executed and the employee that proceeded with it. The dataset was used in order to identify anomalies that lead to potentially fraudulent bank transfers or bad practices done in the offices. |
| Work Package/Deliverable | WP2/D2.1 |
| Source | The data was collected from the different operations’ monitoring channels from CaixaBank and stored in the “Datapool” of the entity. The information was collected from different structures stored in the “Datapool” and merged in order to generate a table with all the contextual information of a bank transfer executed in a bank office of the entity. |
| Processing | All the fields containing sensitive information were encrypted using the following encryption formats: <ul style="list-style-type: none"> • Format preserving encryption for categorical fields. • Order preserving encryption for numerical fields. • A Bloom-filtering encryption process for free text fields. |
| Repository | Zenodo |
| Language | Spanish/Catalan/English |
| Code list | <ul style="list-style-type: none"> • PK_OFICINA: Office where the transaction has been done. Integer. Format Preserving Encryption. • FK_CENTRO_AP: Office that the employee belongs (generally should be the same as PK_OFICINA). Integer. Format Preserving Encryption. • PK_TERMINAL: Identifier of the workstation of the employee. ID (text). Format Preserving Encryption. • IP_TERMINAL IP: address of the workstation of the employee. Decimal IPv4 address. Format Preserving Encryption. |

¹ <https://doi.org/10.5281/zenodo.4264086>

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| | <ul style="list-style-type: none"> • FK_NUMPERSO_PRINCIPAL: Identifier of the client (bank transfer sender). Id (text). Format Preserving Encryption. • FK_CONTRATO_PPAL_OPE: Bank account identifier of the sender. 12-digit ID. Format Preserving Encryption. • CONTRATO_DESTINO: Bank account identifier of the receiver. 20-digit or 14-digit ID. Format Preserving Encryption. • TIPO_COD_OPERACION_2: List of the sub-operations to undertake the bank transfer. Comma-separated list of operations identifiers (text). Clear data. • PK_TSINSERCIÓN: List of the timestamps of the sub-operations to undertake the bank transfer. Comma-separated list of timestamps. Clear data. • PERSONA_LOCALIZADA: List of the identifiers of the sub-operations, indicating if the client is present or not (S=yes, N=no, A=administrative transactions, -1=Not applicable). Comma-separated list of IDs. Clear data. • NIVEL_AUT_REQ: Level of required authorization. Clear data. • FK_EMPLEADO_AUT: Employee who authorizes the operation (when needed). ID (text). Format Preserving Encryption. • FK_IMPORTE_PRINCIPAL: Transfer amount. Integer. Order Preserving Encryption. • IMPORTE_CONSOLIDAR_ESTADO_CON: Other amounts related to the transfer and its sub-operations. Integer. Order Preserving Encryption. • IMPORTE_CONSOLIDAR_ESTADO_AUT: Other amounts related to the transfer and its sub-operations. Integer. Order Preserving Encryption. • IMPORTE_CONSOLIDAR_ESTADO_ANU: Other amounts related to the transfer and its sub-operations. Integer. Order Preserving Encryption. • IMPORTE_VALIDAR_DATOS_NOK: Other amounts related to the transfer and its sub-operations. Integer. Order Preserving Encryption. • IMPORTE_VALIDAR_DATOS_CON: Other amounts related to the transfer and its sub-operations. Integer. Order Preserving Encryption. |
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| | <ul style="list-style-type: none"> IMPORTE_VALIDAR_DATOS_OK: Other amounts related to the transfer and its sub-operations. Integer. Order Preserving Encryption. |
| Type | Categorical, Numerical, Text |
| Format | CSV file |
| Expected Size | 355.5 MB |
| Keywords | Bank transfer, encrypted, anomaly detection, fraud, bad practices |
| Version | V0.2 |
| Date of Repository Submission | 09-11-2020 |
| Necessary software | - |
| Rights | - |
| Access Information | Open |