

If they can't find your data, they can't steal your data.

Ransomware and data theft are trillion-dollar threats

Use Cases

Use cases fall into 2 categories: documents and databases.



Documents (Word, Excel, email, attachments, reports, briefs)

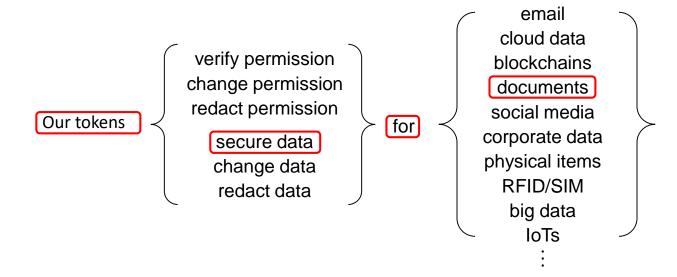
- Provides the maximum control at the field level while making each field data breach-safe, ransomware-safe, quantum computer-safe, and GDPR/CCPA-safe.
- Individually fields are identified programmatically or manually.
- Each field has its own security, rules, permissions, and owner.
- Each can be cut and pasted into other documents.
- No matter where the field ends up, its security, rules, permissions, and owner remain the same.



We created a proof-of-concept for our first patent – an Excel plug-in that lets users identify sensitive data that is then transparently moved to the Vault.

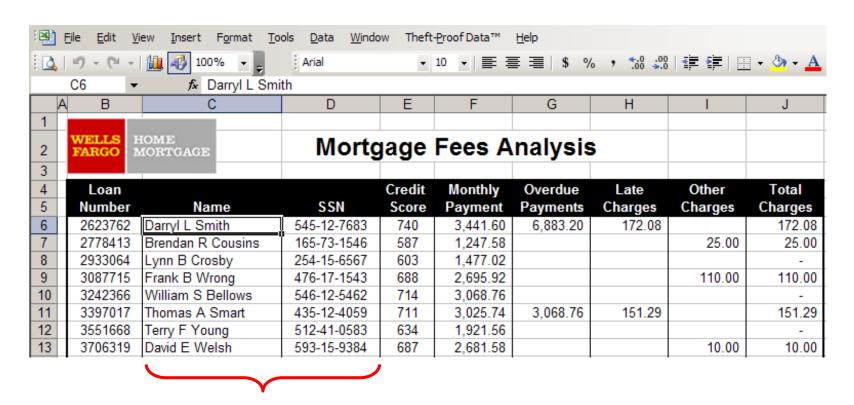
One random token replaced each Excel cell being secured, and each could be cut and pasted into other Excel files. For large files, we designed a "burst mode" that efficiently moved thousands of tokens back and forth in a single command.

This use case secures data in Excel documents:





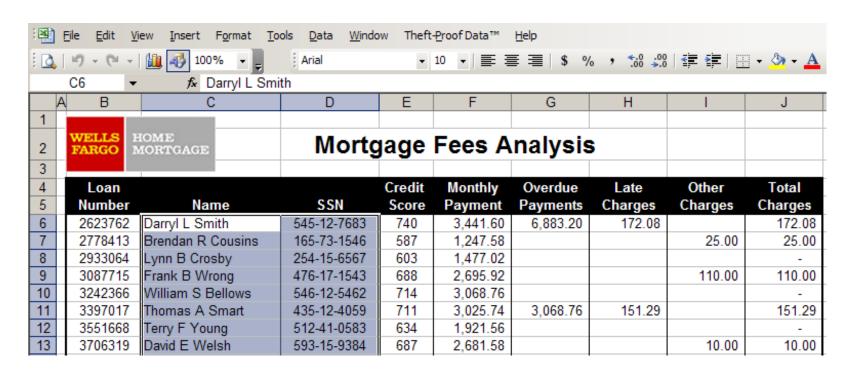
Two columns were identified as needing security.



Sensitive information.

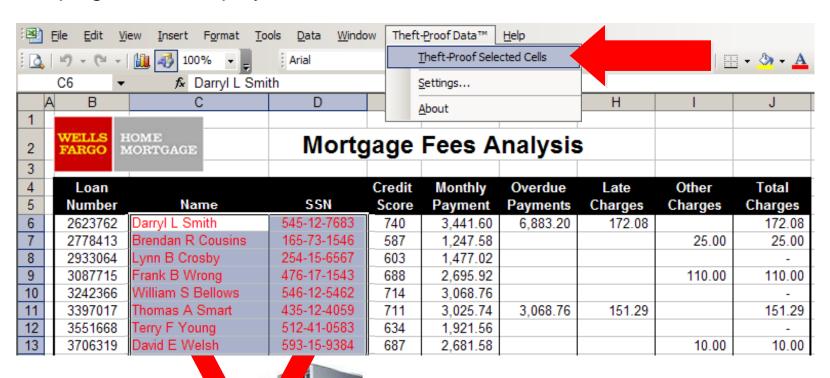


The columns were highlighted.



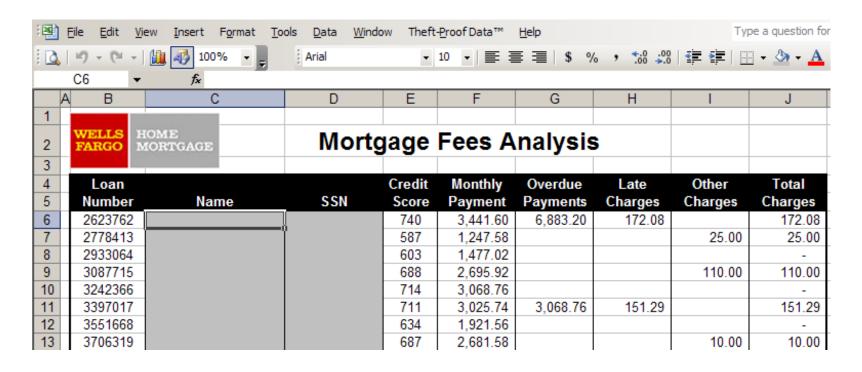


A drop-down menu instructed the plug-in to move the cells to the Vault. The plug-in then displayed the cells in a different color.





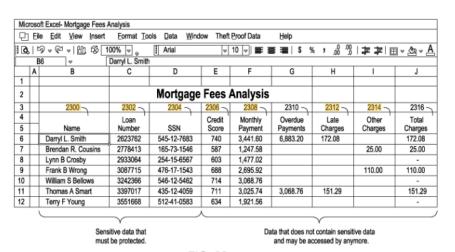
But users who did not authenticate and have permission saw nothing.



Very important for CCPA control!!



U.S. 7,937,579

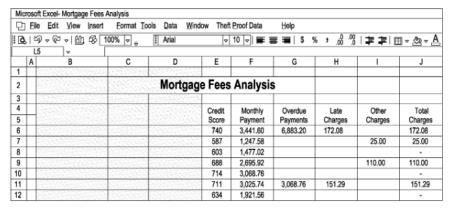


Secure Server 2400 gage Fees Analys Microsoft Excel- Mo ☐ File Edit at Tools D Window Theft-Proof Data w Insert 品®|≢≢|⊞▽♨▽A Q 19 + @ 曲 @ 100% Theft-Proof Selected Cells Un Theft-Proof Selected Cells A Server Status... Mortgage F 2 Loan Credit Monthly Overdue Total 5 Name Number SSN Payment Payments Charges Charges Score Charges Darryl L. Smith 172.08 2623762 545-12-7683 740 3,441.60 6,883.20 172.08 Brendan R. Cousins 2778413 165-73-1546 587 1,247.58 25.00 25.00 Lynn B Crosby 2933064 254-15-6567 1,477.02 Frank B Wrong 3087715 476-17-1543 688 2,695.92 110.00 110.00 William S Bellows 3242366 546-12-5462 714 3,068.76 Thomas A Smart 3397017 435-12-4059 711 3,025.74 3,068.76 151.29 151.29 Terry F Young 3551668 512-41-0583 634 1,921.56

FIG. 24A

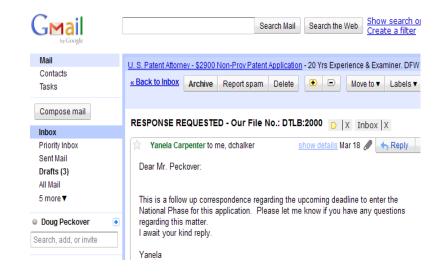
FIG. 23







Another example: Cloud-based apps







Databases (borrower data, HR records)

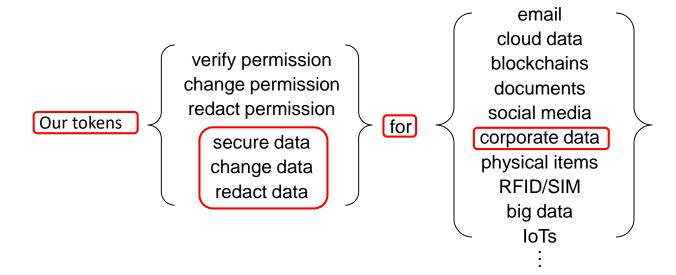
- This is column-level control for data breach-safe, ransomwaresafe, quantum computer-safe, and GDPR/CCPA-safe at the table column level (although individual fields in a record can still be processed differently).
- This can be controlled in the app (using Kloke APIs) or within the database.



Corporate databases

This use case has token security maintaining medical data in an Oracle database. Selected encrypted fields were converted to token security in a progressive manner to avoid any interruption in daily operations. No programming changes were required.

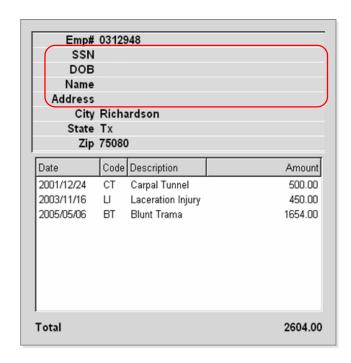
This use case secures, changes, and redacts corporate data:

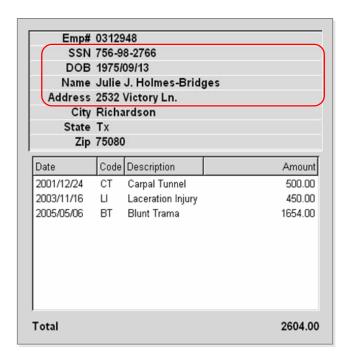




Corporate databases

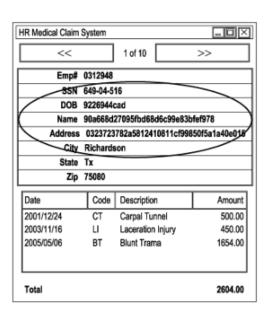
The screen on the left shows the content of the Oracle database after token security was added, so a breach does not put sensitive data at risk.

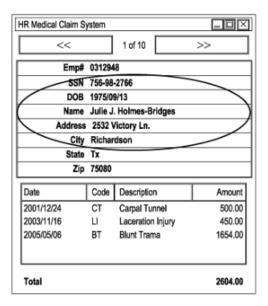






U.S 7,937,579







Comments:

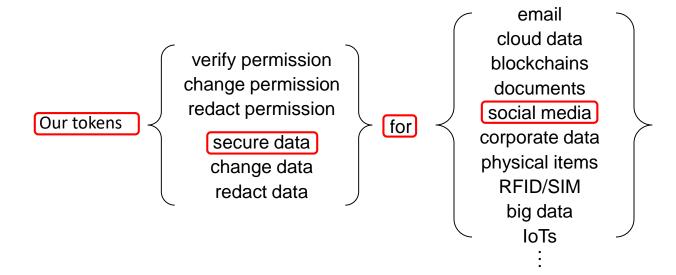
- Kloke is data-type and data-source agnostic.
- PII in non-government apps must treat this information differently (GDPR/CCPA).
- Kloke's ransomware protection protects all files.



Another cloud example

The most common reason for people quitting Facebook is its lack of privacy, and 1 in 8 will pay \$25/year for this privacy. The challenge is making data in third party servers private (Sophos Research calls this "technically impossible").

This use case secures data in Facebook to make it private:





Another cloud example

These screenshots are from a Facebook conversation between two friends, where Lynn made some derogatory comments about her boss.

Lynn used a browser plug-in to specify that this comment could only be seen by friends with permission.





A video of this use case can be seen here.

Note that this plug-in can be used to make the data entered into *any* Website private and secure.

