2020-11-24 Meeting

Send an email to semantic-domain-wg@lists.trustoverip.org to request a calendar invite (you can subscribe to the mailing list at lists.trustoverip.org).

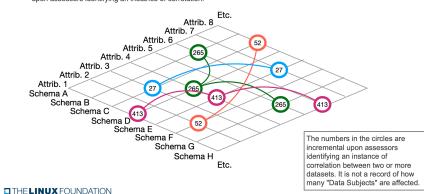
Agenda

Guiding Goal: Mitigating correlation attacks which might unblind the identity of a governing entity.

- Welcome (Paul-2.5 mins)
- Newcomer Introductions (WG—2.5 mins)
- Task Force Updates (WG, 5 mins)
 - Imaging TF (Scott)
 - Medical Information TF (Scott)
 - OCA-FHIR FG (John)
 - The OCA-FHIR FG are WIP with the Base Schema transformation and addressing the rich schema processing per the examples from last week.
 - Investigating and documenting a potential RFC. Hope to have something to share with the SDWG next week.
 - Meetings: Switching to bi-weekly every other Thursday at 08:00am PT. The next meeting will be Thursday, December 3rd.
 - This will allow team members to attend the Notice and Consent bi-weekly meetings in the off weeks.
 - Notice & Consent TF (Mark)
- Update: Industry Sector Classification at ToIP (Paul—10 mins)
 - O Direct relationship between the stacks
 - Industry Sector Classification
 - Ref.: https://wiki.trustoverip.org/display/HOME/Industry+Sector+Classification
 - ° To be discussed in the next Steering Committee meeting on Wednesday, December 9th.
- Identity Correlation Bitmap: An object for mitigating against attribute correlation patterns (Paul—35 mins)
 - o What is Personally Identifiable Information?
 - Ref.: https://www.csoonline.com/article/3215864/how-to-protect-personally-identifiable-information-pii-under-gdpr.html
 - NIST 800-122: Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)
 - Ref.: https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-122.pdf
 - Blinding Identity Taxonomy (BIT)
 - Ref.: https://kantarainitiative.org/download/blinding-identity-taxonomy-pdf/
 - Blinding attributes in a schema base
 - Mitigation against privacy attacks
 - Attribute-correlation attacks
 - Inference attacks
 - Ref.: https://www.ijert.org/privacy-preserving-and-information-security-forensics-brokering
 - o Identity Correlation Bitmap: Preparing a Schema Base
 - O Building an Identity Correlation Bitmap

Building an Identity Correlation Bitmap

The creation of a dynamic bitmap that constantly evolves each time an assessor identifies a correlation risk between attributes that could potentially unblind the identity of a governing entity. The numbers in the circles are incremental upon assessors identifying an instance of correlation.



- O A COM
- Correlation coefficients
 - Ref.: https://www.statisticshowto.com/probability-and-statistics/correlation-coefficient-formula/
- Posted by John Wunderlich ...

Technique name	Data truthfulness at record level	Applicable to types of values	Applicable to types of attributes	Reduces the risk of		
				Singling out	Linking	Inference
Permutation	No	All	Identifying at- tributes	Partially	Partially	Partially
Micro aggregation	No	Continuous	Indirect identi- fiers, and all attributes	No	Partially	Partially
Differential privacy	No	All	Identifying at- tributes	Yes	Yes	Partially
K-anonymity	Yes ^b	All	Quasi identi- fiers	Yes	Partially	No

- a If the data principal record is not included in the sample.
- Unless K-anonymity is implemented using microaggregation.
- N/A Not applicable.
- How to measure risk or "impact level" on an individual? (Jan Lindquist to discuss)
 - Paul Knowles has reached out to Jim St.Clair to see if the tech team can get hold of ISO/IEC 20889:2018 for development purposes.
- Logistics and miscellaneous (Paul—5 mins)
 - O News from the Operations Team
 - Nick Nayfack (Group representative)
 - Leadership positions
 - Paul Knowles (Chair) / John Wunderlich (Vice-chair)
 - · Meeting schedule
 - Notice & Consent TF bi-weekly meeting
 - Thursday, November 26th @ 08:30 US PT / 17.30 CET
 - Zoom link: https://zoom.us/j/92346573961?pwd=RmZHNnQxS2lya3NCMHZTVXYra3Rrdz09
 - Semantics Domain WG weekly meeting
 - Tuesday, December 1st @ 09:00 US PT / 18.00 CET
 - Zoom link: https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMHJqL0ZQM3l3Zz
 - OCA-FHIR FG bi-weekly meeting
 - Thursday, December 3rd @ 08:00 US PT / 17.00 CET
 - Zoom link: https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMHJqL0ZQM3I3Zz09

Meeting Notes

Recording

Participants (Name / Location / Time zone / Affiliation):

- Paul Knowles / Basel, Switzerland / CET / Human Colossus Foundation
- Robert Mitwicki / Graz, Austria / CET / Human Colossus Foundation
- Jan Lindquist / Stockholm, Sweden / EST / Linaltec
- John Wunderlich / Toronto, Canada / EST / JLINC Labs
- Philippe Page / Geneva, Switzerland / CET / Human Colossus Foundation
- Andre Kudra / Frankfurt, Germany / CET / esatus
- Burak Serdar / Denver, CO, USA / MST / Cloud Privacy Labs
- John Walker / Bay Area, CA, USA / PST / SemanticClarity, CCI
- Ken Adler / Oakland, CA, USA / PST / ThoughtWorks
- Mukundan Parthasarathy / Bay Area, USA / PDT / SemanticClarity
- Philippe Métais / Paris, France / CET / evidence.fyi
- Salvatore D'Agostino / Boston, MA, USA / EST / Open Consent Group
- Scott Whitmire / Scottsdale, AZ, USA / MST / Mayo Clinic
- Steven Milstein / Montreal, Canada / EST / Colab Ventures
- Subra Subramaniam / Bay Area, CA, USA / PST / CyberKnowledge
- Wenjing Chu / Bay Area, USA / PDT / Futurewei Technologies
- Carly Huitema / Kitchener, Canada / EDT / University of Guelph, Waterloo Centre of Microbial Research
- David Luchuk / Vancouver, Canada / PDT / Trust over IP Foundation

Leadership positions:

- Semantics WG
 - O Chair: Paul Knowles (Human Colossus Foundation)
 - Vice-chair: John Wunderlich (JLINC Labs)
 - Operations Team Group Representative : Nick Nayfack (Team Ikigai)

- Medical Information TF
 - o Chair volunteers
 - Mukundan Parthasarathy (SemanticClarity)John Walker (SemanticClarity)
 - Vice-chair volunteers
- OCA-FHIR FG

 - Chair volunteersVice-chair volunteers
- Notice & Consent TF
 - o Chair volunteers

 - Mark Lizar (Open Consent Group)
 Salvatore D'Agostino (Open Consent Group)
 - Vice-chair volunteers

