The SPECIAL Policy Log Vocabulary
A vocabulary for privacy-aware logs, transparency and compliance

Javier D. Fernández, Piero Bonatti, Wouter Dullaert, Sabrina Kirrane, Uros Milosevic, Axel Polleres

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The SPECIAL Consent, Transparency and Compliance framework
Transparency and compliance framework

- Record data processing and sharing events
- We have developed a vocabulary for the logs (SPLOG)
  - http://purl.org/specialprivacy/splog

The SPECIAL Usage Policy Language

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Editor:
Javier D. Fernández (Vienna University of Economics and Business)

Authors:
Piero Bonatti (Università di Napoli Federico II)
Sabrina Kirnane (Vienna University of Economics and Business)
Ilana Mineva Petrova (Università di Napoli Federico II)
Luigi Sauro (Università di Napoli Federico II)
Eva Schleiahn (Unabhängiges Landeszentrum für Datenschutz)

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Abstract

This document specifies usage policy language of SPECIAL. The both the data subjects’ consent and the data usage policies of datable by a computer, so as to automatically verify that the usage of consent.

The ontology defined in this document is publicly available at http://policy.
Transparency and compliance framework

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  - [http://purl.org/specialprivacy/splog](http://purl.org/specialprivacy/splog)

befit:BeFitLog a splog:Log;
    dct:title        "Log of BeFitDatabaseEurope"@en;
    dct:description  "This contains events on BeFitDatabaseEurope tracking devices geo-located in Europe"@en;
    dct:issued       "2018-02-14"^^xsd:date;
    prov:wasAttributedTo  befit:BeFitDatabaseEurope ;
    splog:processor  befit:Us .
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```
befit:BeFitLog splog:logEntry befit:entry3918 .

befit:entry3918 a splog:ProcessingEvent;
    dct:title "Collection of new device position"@en;
    splog:dataSubject befit:Sue ;
    dct:description "We collected a new position of your BeFit device in our database in Europe"@en;
    splog:transactionTime "2018-01-10T13:20:50Z"^^xsd:dateTimeStamp;
    splog:validityTime "2018-01-10T13:20:00Z"^^xsd:dateTimeStamp;
    splog:message "Tracking position by GPS... collected!" ;
    splog:eventContent befit:content3918 ;
```
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```
befit:content3918 a splog:LogEntryContent;
  dct:description       "Location data are collected by a BeFit device
                      only for the health purpose of the service"@en;
  spl:hasData          svd:Location;
  spl:hasProcessing    befit:SensorGathering;
  spl:hasPurpose       befit:HealthTracking;
  spl:hasStorage       [has:location svl:OurServers];
  spl:hasRecipient     [a svr:Ours].
```

befit:SensorGathering rdfs:subClassOf svpr:Collect .
befit:HealthTracking rdfs:subClassOf svpu:Health .
Transparency and compliance framework

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- We have developed a vocabulary for the logs (SPLOG)
  - [http://purl.org/specialprivacy/splog](http://purl.org/specialprivacy/splog)
- We have a running prototype (ESWC 2018)
Discussion

- lack of specific and standard **vocabularies** for representing **privacy-related events**
- It should be possible to describe the event content at different **granularities**
  - from a simple **taxonomy** (stating the type of data, processing, etc.), to the most fine-grained description of the **actual data** associated to the event;
- **Interoperability/standard APIs**
  - different systems within a company and/or different companies
  - Use case example: cyber-physical social systems  
    <http://cityspin.net/>
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