

DESIGN ASSURANCE STANDARD v1.0 OFFICIAL LAUNCH

Institute of Operational Privacy Design

MARCH 19, 2025 @ 1:00 PM (EDT)



AGENDA

1. Introduction to the IOPD
2. Purpose of the Standard
3. Introduction to the Standard
 - a. Assurance Case
 - b. Major Claims
 - c. Risk Model
 - d. Quick Start Guide
 - e. Perspective in Scoping
 - f. Controls
4. Future Work and How to Get Involved

Meant to be an introduction and overview, not a training session.



INTRODUCTION TO THE Institute of Operational Privacy Design



IOPD

Incorporated 2021
Non-Profit 501c(6)



Organization

Professional Membership
Board of Directors
Standards Committee
Ad-Hoc Committees



Mission

To promote the adoption of
common, free, and
comprehensive standards
committed to protecting
individuals' privacy.



INTRODUCTION TO THE Standards Committee of the IOPD



Chair

Nandita Narla



Organization

~20 Members



2025 Mission

Controls Catalog

Data Protection by Design

Review Design Process
Standard

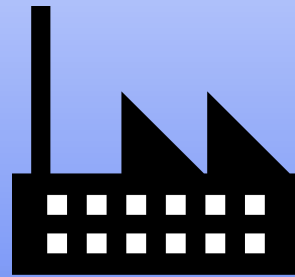


PURPOSE OF THE STANDARD



Professionals

Improve privacy



Companies

External validation of “privacy by design” claims



Implementers & Auditors

Support their clients



Regulators

Review claims of “privacy by design”



Benefits of using the Standard

Improve Privacy Program

Looking at privacy from a different perspective can improve the overall health of an organization's privacy program.

Remove Sales Blockages

Failure to provide adequate assurance on privacy can impede B2B sales.

Holistic Regulatory Approach

Compliance can be tricky. Applying a privacy by design can cover 80% of regulatory obligations in 80% of jurisdictions and future proof products.

Prepare for Certification

For organizations wanting to eventually get certified, starting now will give you a head start against competitors.

Validate Marketing Claims

Claiming "Privacy by Design" without substantive backing can open up an organization to deceptive trade practices.

Improve Products and Trust

Studies show consumers want privacy and will have more favorable impression of brands that protect their privacy.



Design Assurance Standard

Institute of Operational Privacy Design
Design Assurance Standard

Version 1.0
Release Date: March 1, 2025

Design Assurance Standard

Version 1.0

Adopted March 1st, 2025
Standards Committee
Institute of Operational Privacy Design

R. Jason Cronk President Institute of Operational Privacy Design	Nandita Narla Chair Standards Committee
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Members of the Standards Committee Contributing to this Standard:

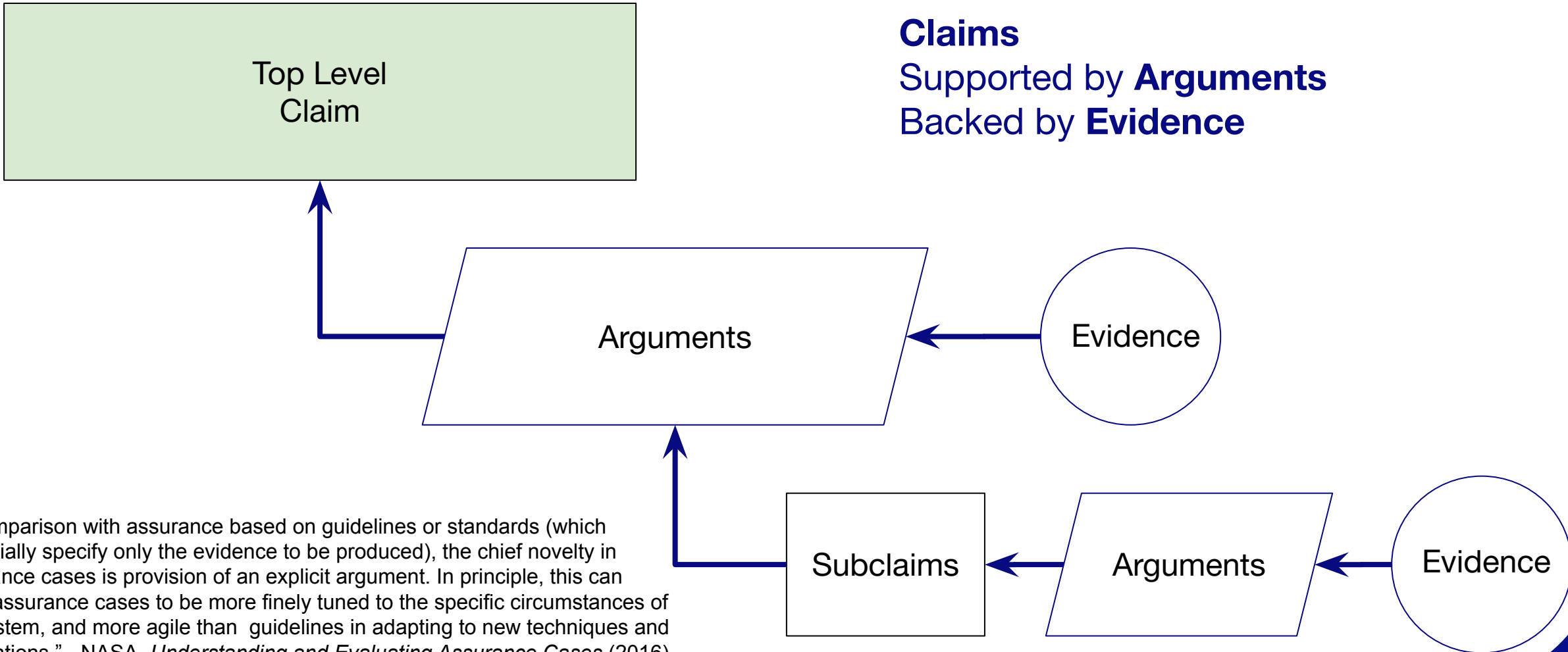
Kingsley Audu, Jay Averitt, Caroline Carver, Hilary Coote, Tarana Damania, Kayvis Dampley, Peter Duran, Scott Edmiston, Debra Farber, Selin Fidan, Pruthvi Gurrarn, Steve Hickman, Charlene Hinton, Conor Hogan, Amaka Ibeji, Shalab Jain, Rohit Kumar, Kimberly Lancaster, Dan Lopresto, Rongfei Lu, Carl Mathis, Vamsee Metlapalli, Sean Milford, Maaz Bin Musa, Nicole Nguyen, Ralph O'Brien, Vandana Padmanabhan, Mahim Patel, Varun Prasad, Sagar Rahrurkar, Smita Rajmohan, Denise Schoeneich, Nabeel Shamsi, Stuart Shapiro, Divya Sharma, Kiran Sharma, Mukta Sharma, Tanusree Sharma, Daniel Smullen, Vijay Jyoti (BVJ) Sriinivas, Akhilesh Srivastava, and Mary Yip.

IOPD A Florida, USA based non-profit
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instituteofprivacydesign.org

- Version 1.0
- Adopted March 1st, 2025
- Covers products, services and business processes
- Not a guarantee of privacy but reasonable **assurance**



Assurance Case



“In comparison with assurance based on guidelines or standards (which essentially specify only the evidence to be produced), the chief novelty in assurance cases is provision of an explicit argument. In principle, this can allow assurance cases to be more finely tuned to the specific circumstances of the system, and more agile than guidelines in adapting to new techniques and applications.” - NASA, *Understanding and Evaluating Assurance Cases* (2016)



Design Assurance Standard

“Privacy by Design and Default”

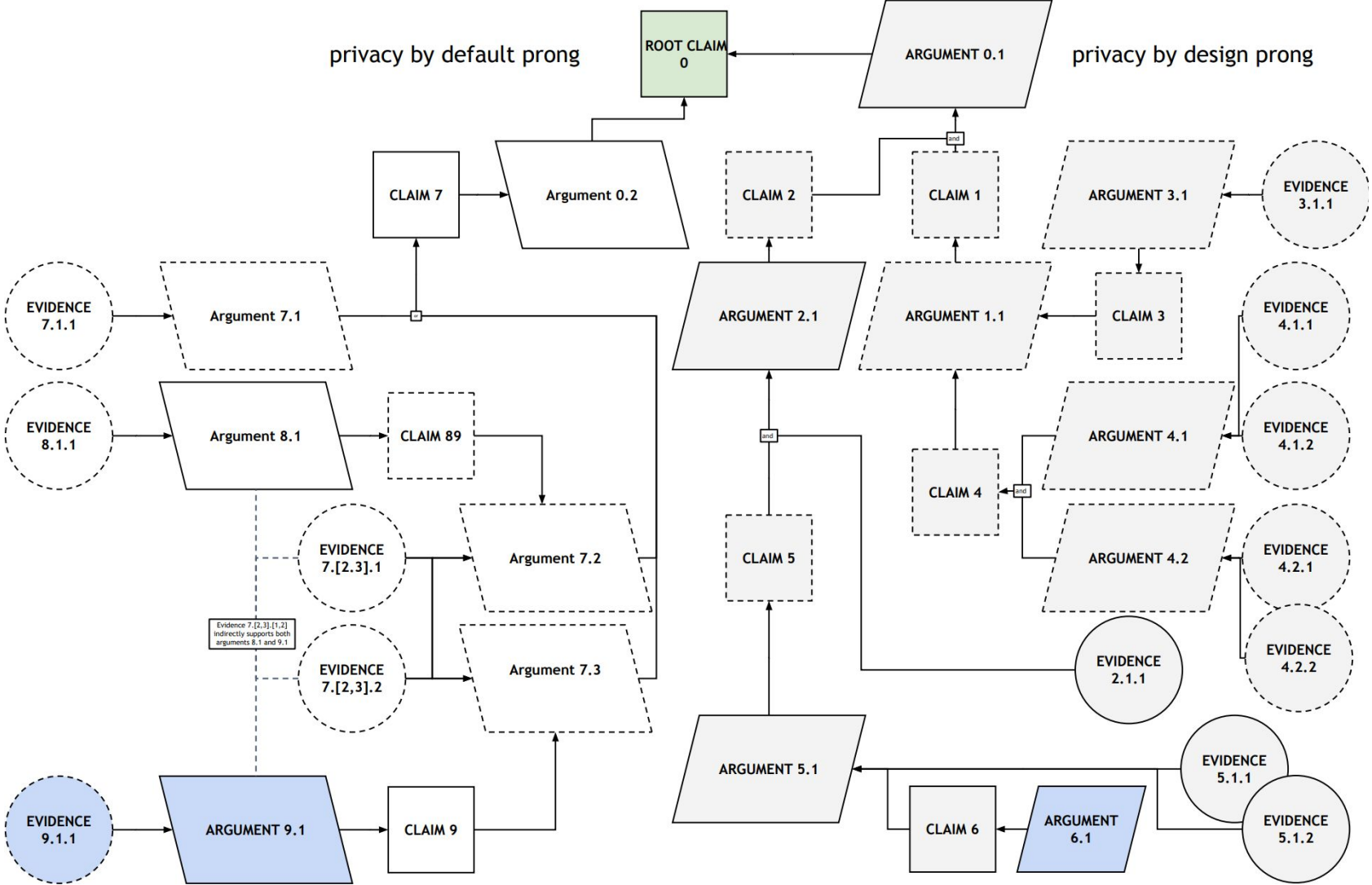
Privacy has been designed into the Target System (“Privacy by Design”), and the Configuration(s) of the Target System are privacy-respecting (“Privacy by Default”).

Arguments that privacy
has been designed in

Arguments that the
defaults are
privacy-respecting



Design Assurance Standard (10 Claims)



Claims

0. Privacy by design and default
 1. Controls are in place which treat risk
 2. Residual risk is tolerable
 3. Controls (in principle) treat risk
 4. Controls are operational and effective
 5. Justifications are proportional to the residual risk
 6. Benefits outweigh residual risks
 7. Benefits and residual risks cannot be further balanced
 8. Changes to configuration would only increase risks
 9. Changes to configurations would create undesirable balance of benefits and risks



Claims

0. **Privacy by design** and default

1. Controls are in place which treat risk
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Claims

0. **Privacy by design** and **Privacy by default**

1. Controls are in place which treat risk
2. Residual risk is tolerable
3. Controls (in principle) treat risk
4. Controls are operational and effective
5. Justifications are proportional to the residual risk
6. Benefits outweigh residual risks
7. **Benefits and residual risks cannot be further balanced**
8. Changes to configuration would only increase risks
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Risk



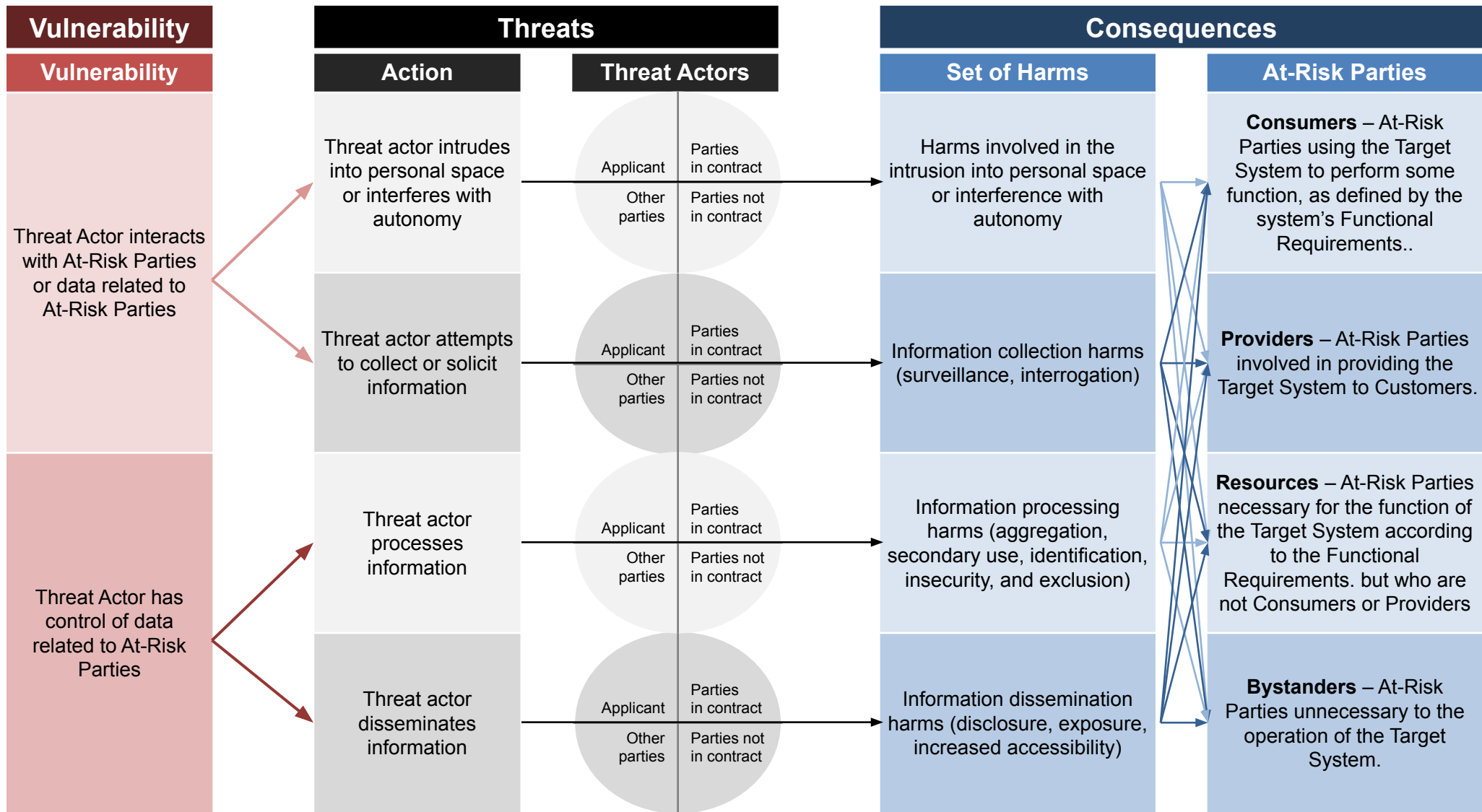
Risk Model



What can threat actors do to at-risk parties resulting in privacy harms?



Risk Model



Risk Model



64 Potential Risks

What information do parties in contract attempt to collect about consumers?



Quick Start Guide

Scoping	Target System	Controls	Residual Risk	Configurations
Identify the Applicant	Identify the product or service requirements	Specify how controls reduce risk	Justify residual risk	Documents configurations
Specify the product or service	Identify interactions	Show control verification process	Identify benefits	Show changes would increase risks or be undesirable
Specify the customers	Show interactions are necessary for the product or service	Show that controls were verified	Assure that benefits outweigh risks	
Select the risks		Show how to measure effectiveness of controls		
		Show controls are effective		



Importance of Perspective in Scoping

Google

“Applicant”

You
Tube

“Product or Service”

Media

Publishing Platform

Advertising System

Viewers (“Customer”)

Creators (“Customer”)

Advertisers
 (“Customer”)

Scoping
Identify the Applicant
Specify the product or service
Specify the customers
Select the risks

**3 Different Services
with distinct risks**



Importance of Perspective in Scoping

Scoping
Identify the Applicant
Specify the product or service
Specify the customers
Select the risks

Google

“Party in contract”



Media

Viewers (“Customer”)

Creators (“Applicant”)

Advertisers
 (“Parties not
 in contract”)

**Different Service
 = Different Risks**



Quick Start Guide

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System versus Environmental Controls

Common Control Divisions

Administrative, Technical & Physical
 Technical & Organizational
 Preventative, Detective and Corrective

Controls

Specify how controls reduce risk

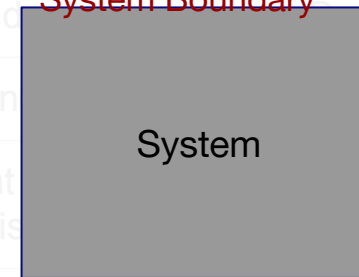
Show control verification process

Show that controls were verified

Show how to measure effectiveness of controls

Show controls are effective

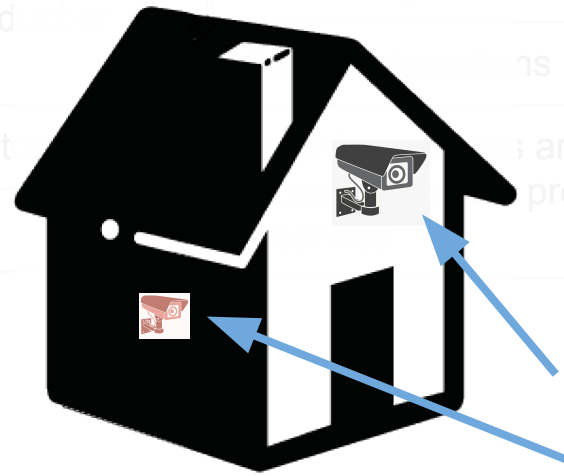
System Boundary



System versus Environmental Controls

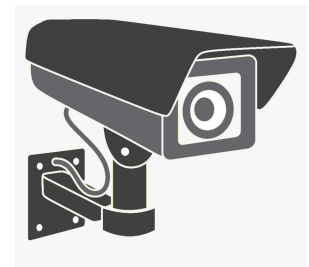
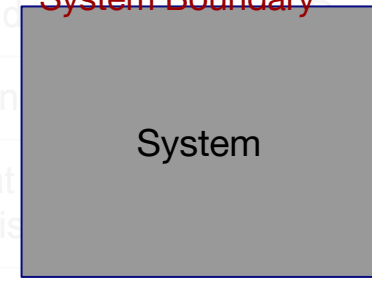
Scoping	Target System	Controls	Residual Risk	Configurations
Identify the Applicant	Identify the product or service requirements	Specify how controls reduce risk	Justify residual risk	Document configurations
Specify the product or service	Identify the system components	Show control verification process	Identify benefits	How changes would affect risk
Specify the customer requirements	Identify the system boundaries	Show that controls were verified	Assure that controls outweigh risks	How changes would affect risks or be desirable
Select the risks	Identify the system product	Show how to measure effectiveness		

Environment



Outside house or Inside house?

System Boundary



NEXT STEPS



CURRENT WORK



Standards Committee

Controls Catalog



Article 42 Committee

Data Protection by Design and Default

EU Certification



ISO/IEC DIS 17007

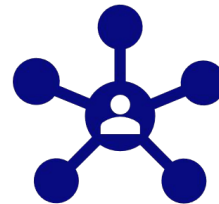
Conformity Assessment



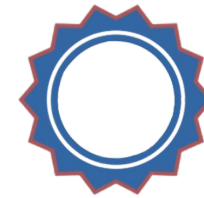
CALL TO ACTION!



Review the Standard



Join the IOPD



**Apply the Standard
to your product or
service**



Open Volunteer Roles

Open to members and select* non-members

- Board of Directors - Treasurer
- Privacy Wiki Editors
- Standards Committee
 - Control experience
- Article 42 Committee
 - EU Regulatory Subject Matter Expertise

* Non-members, except Privacy Wiki Editors, must be approved by the Leadership Team



Thank You

Contact: admin22@instituteofprivacydesign.org



QUESTIONS?

