

IM&CTCPA-2018

Incident Management and Countering Targeted Cyber-Physical Attacks
in Distributed Large-Scale Critical Systems

Modeling of the Cyber-Physicals Systems. Design and Validation

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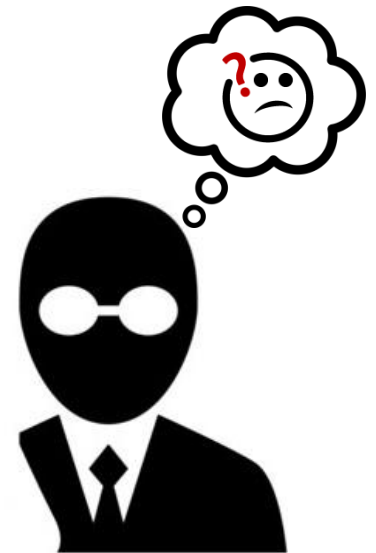
(SPIIRAS, ITMO, UPS, IRIT)

23 October, 2018, St. Petersburg, Russia

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Design methodology for secure Cyber-Physical Systems

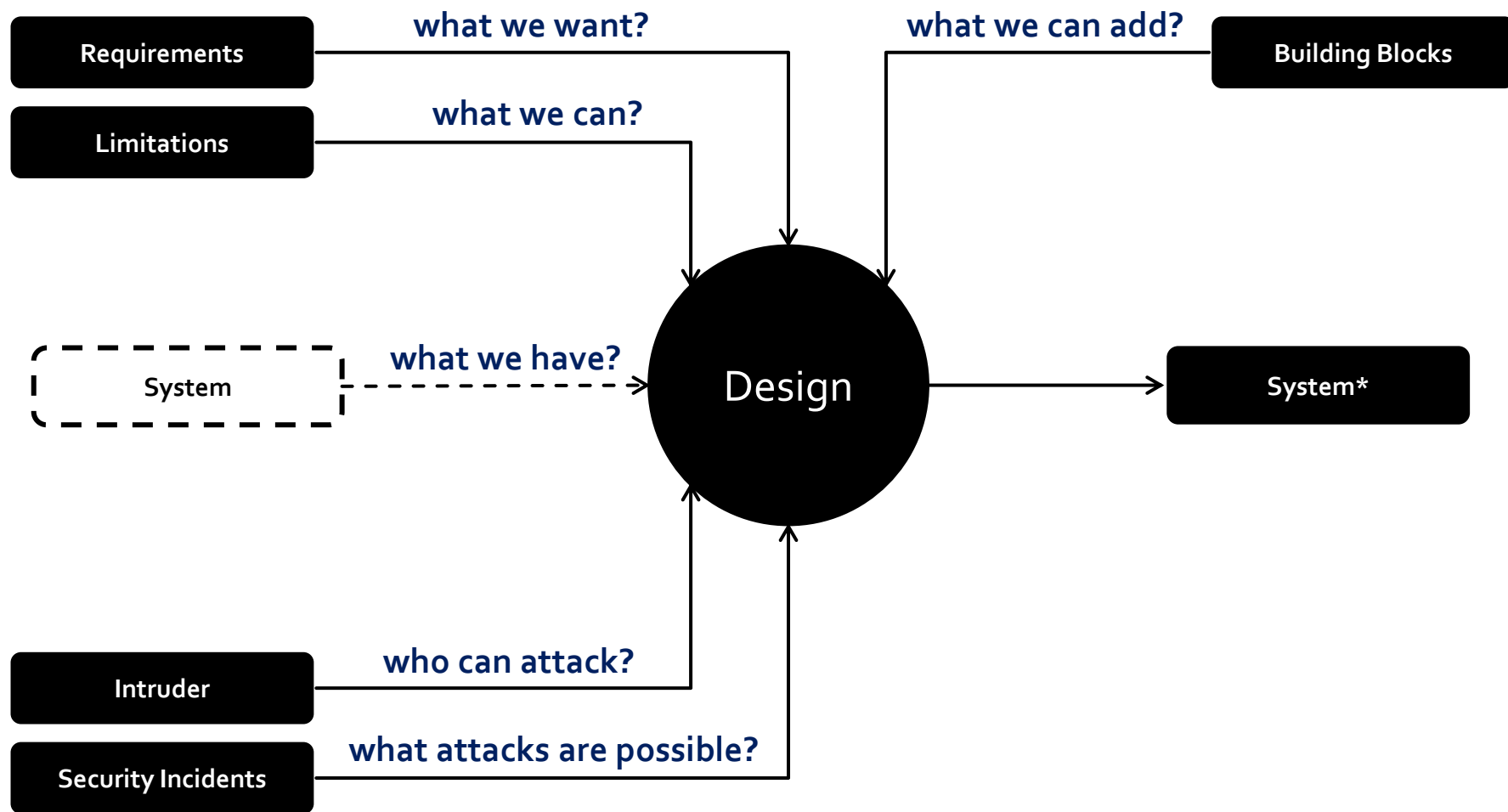
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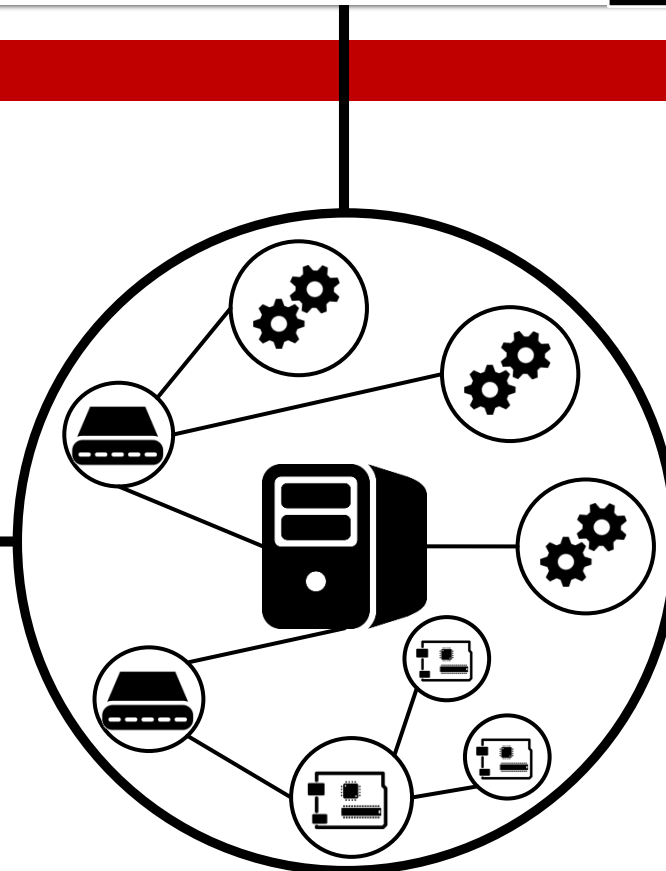
DESIGN

Devices
based on microcontrollers

Network systems
based on microcontrollers

Based on a model

Based on a real system



DEVELOPMENT

Microsoft
Security Development Lifecycle

Cisco
Security Development Lifecycle

Cryptography & Authentication

Secure Protocol Adaption

VERIFICATION

PARTICULAR SOLUTIONS

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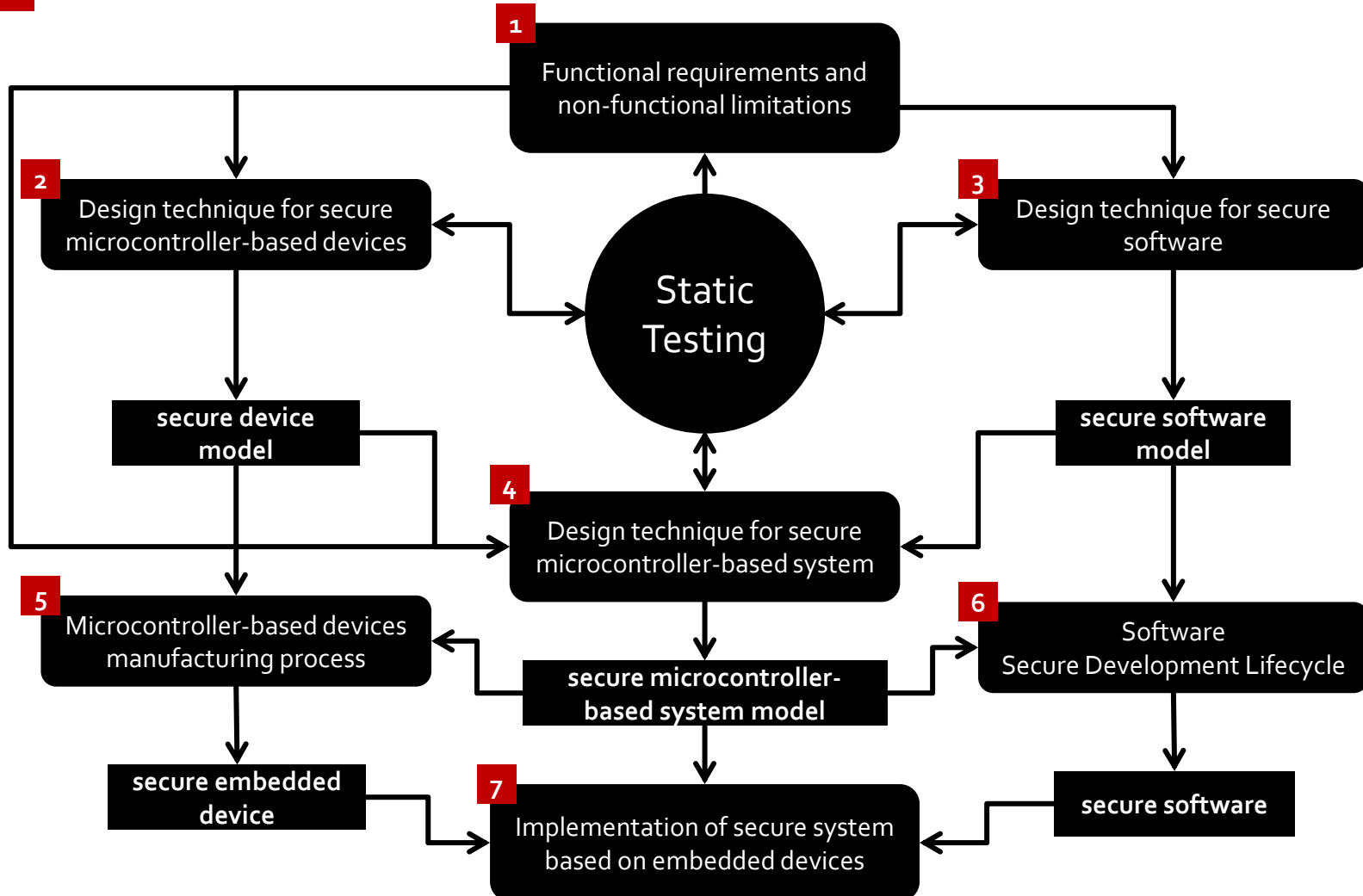
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Design methodology for secure Cyber-Physical Systems

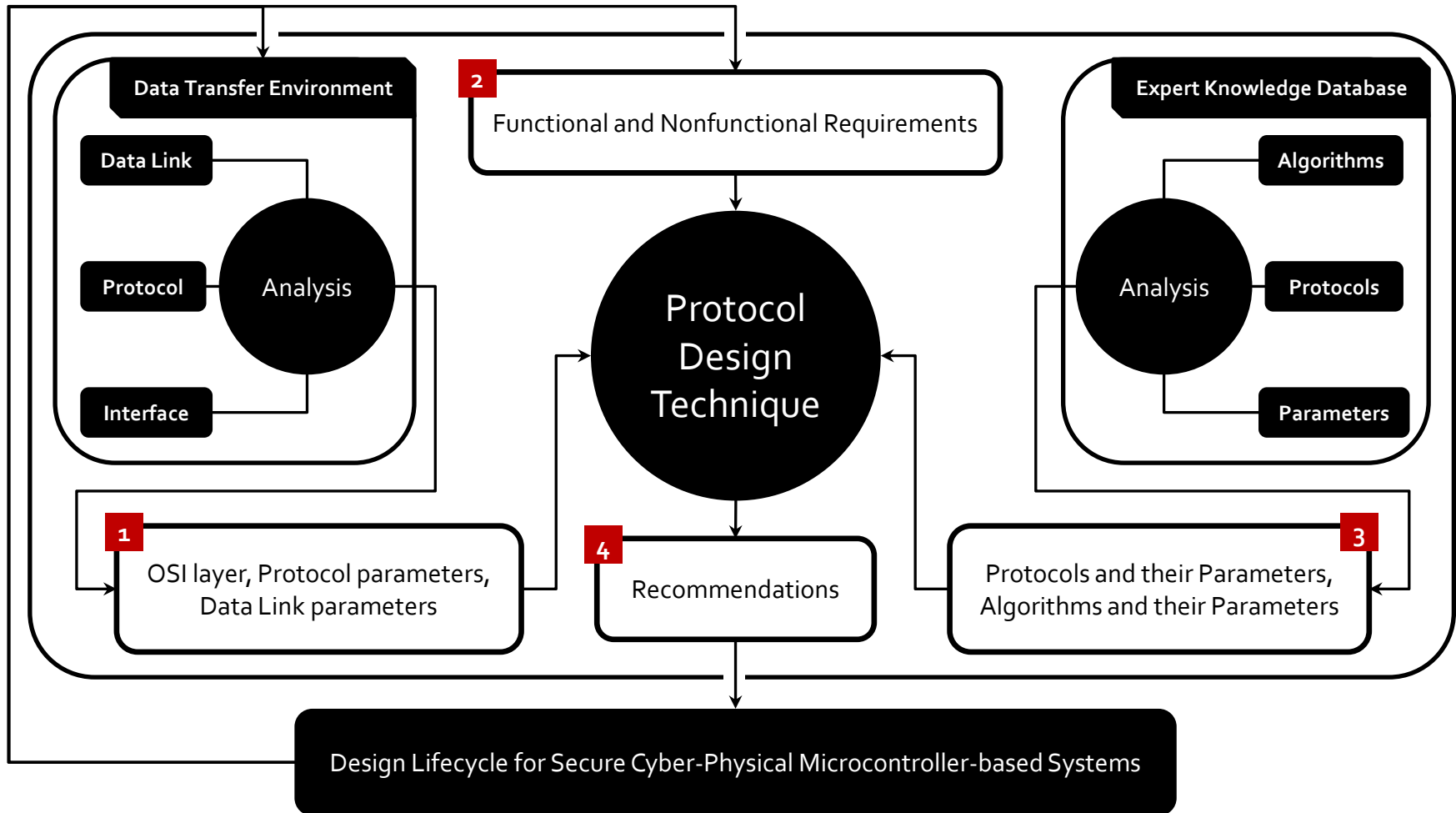
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Modeling of Cyber-Physical Systems

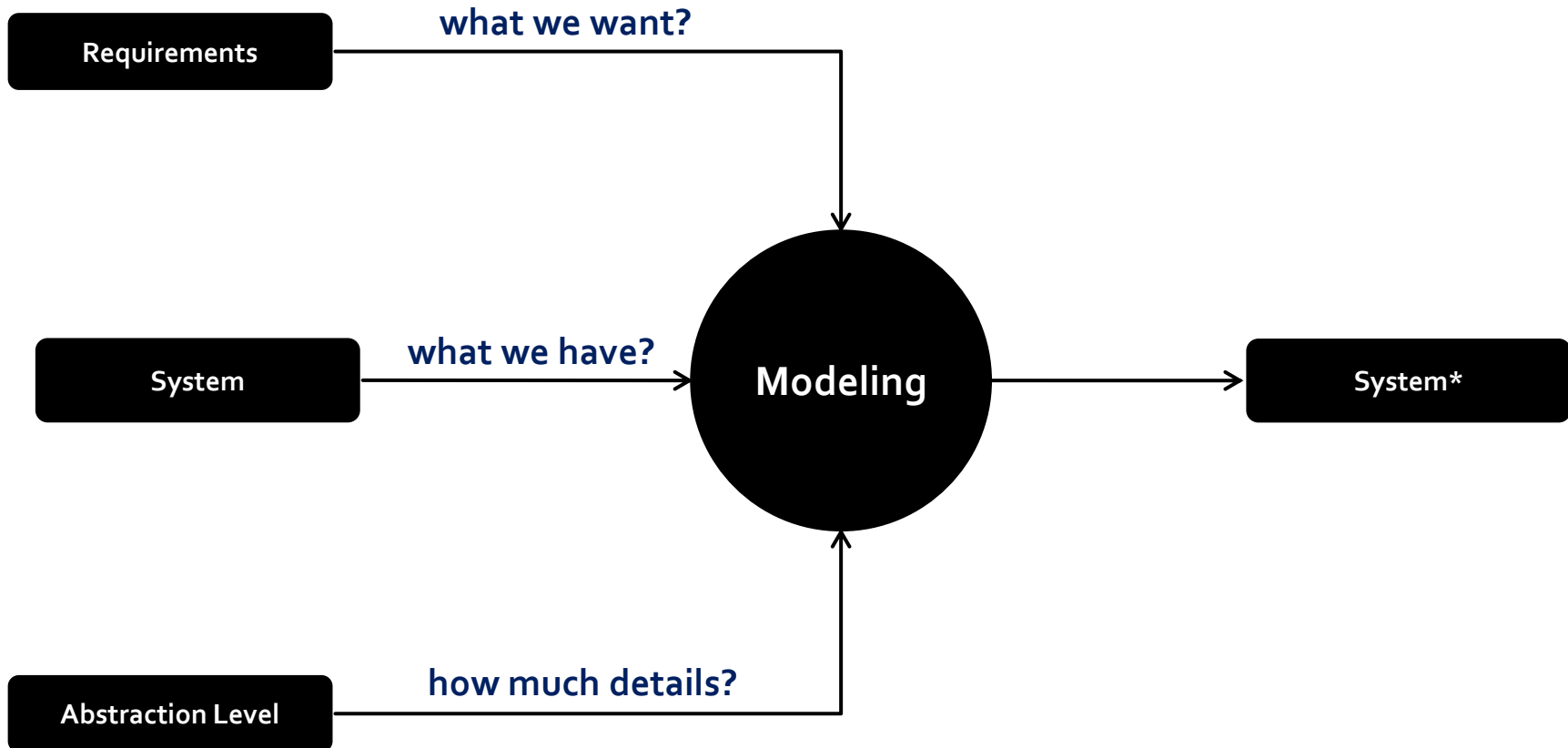
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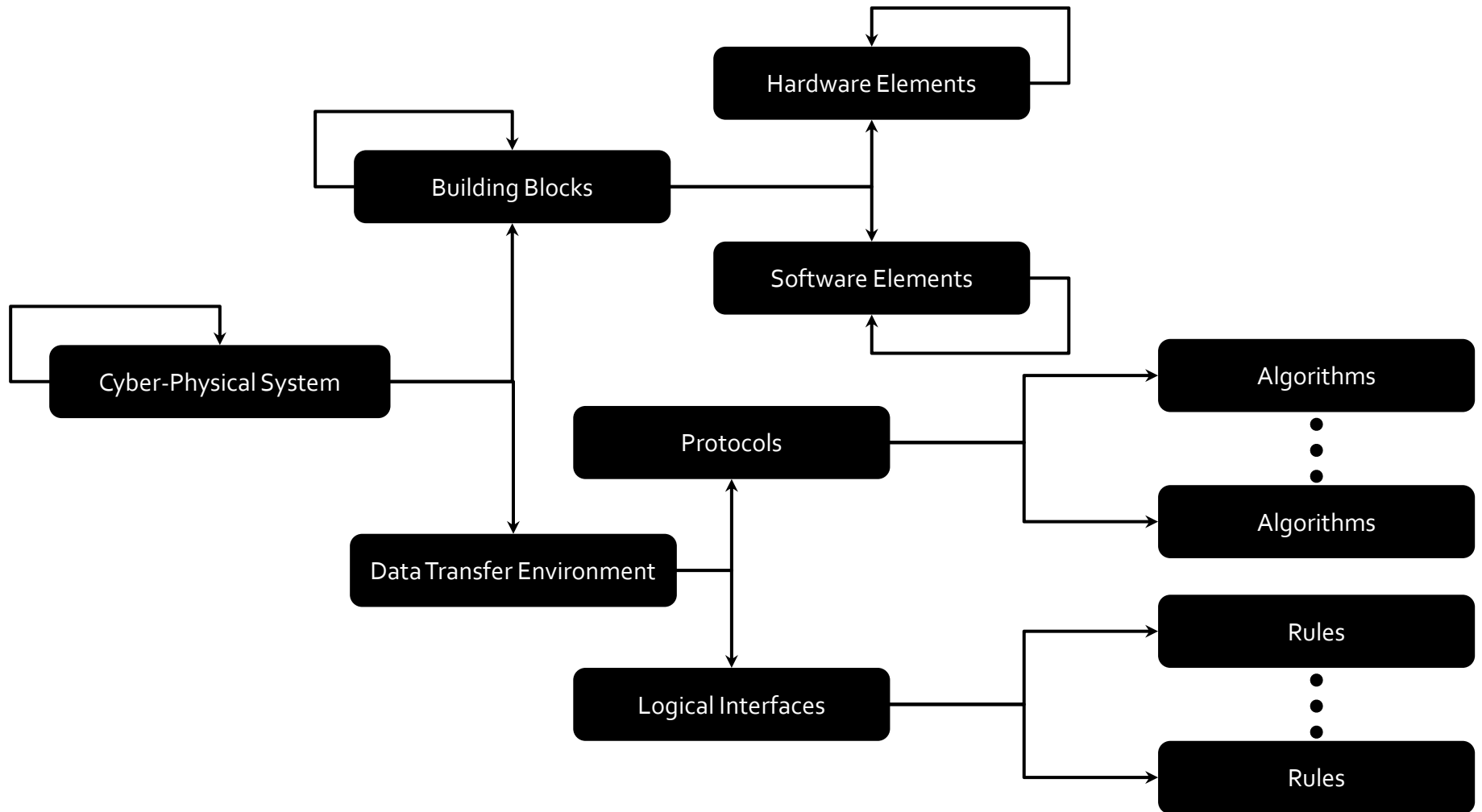
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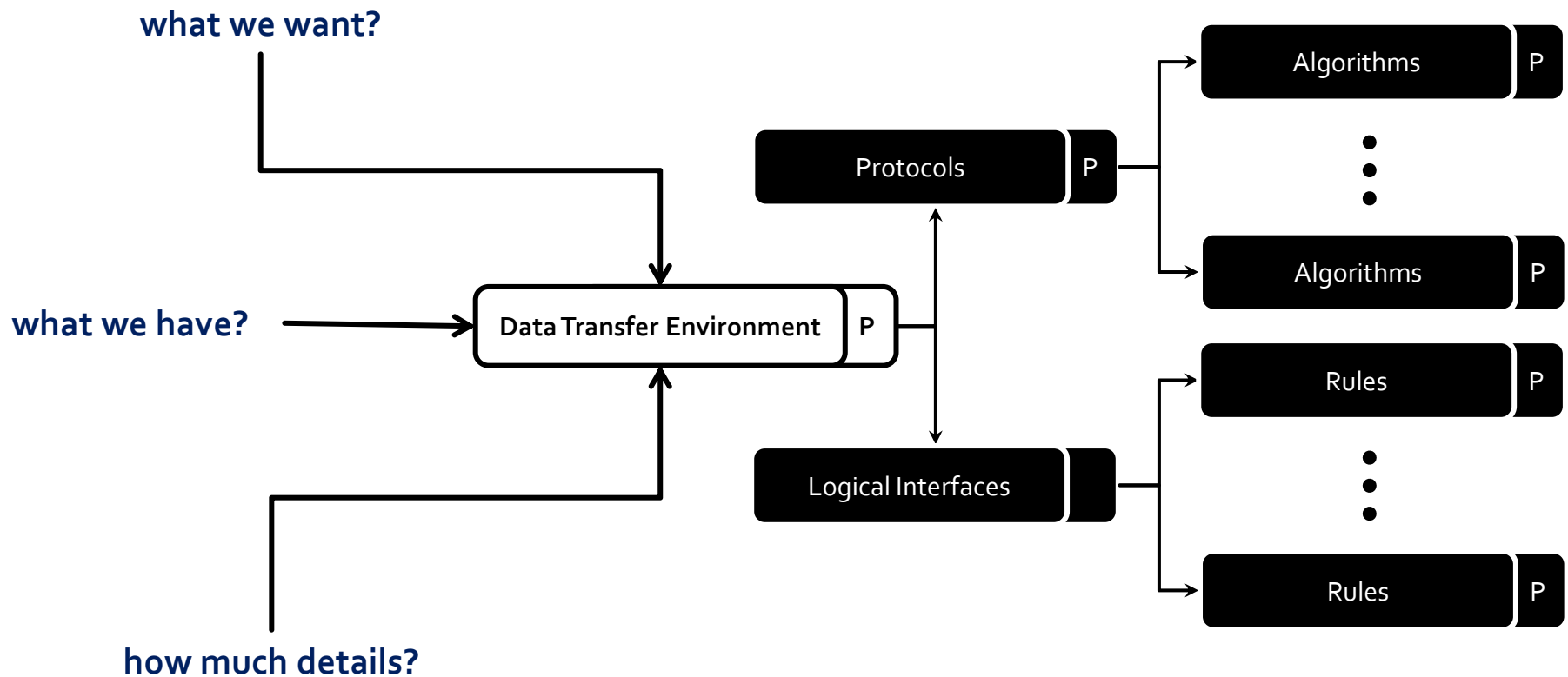
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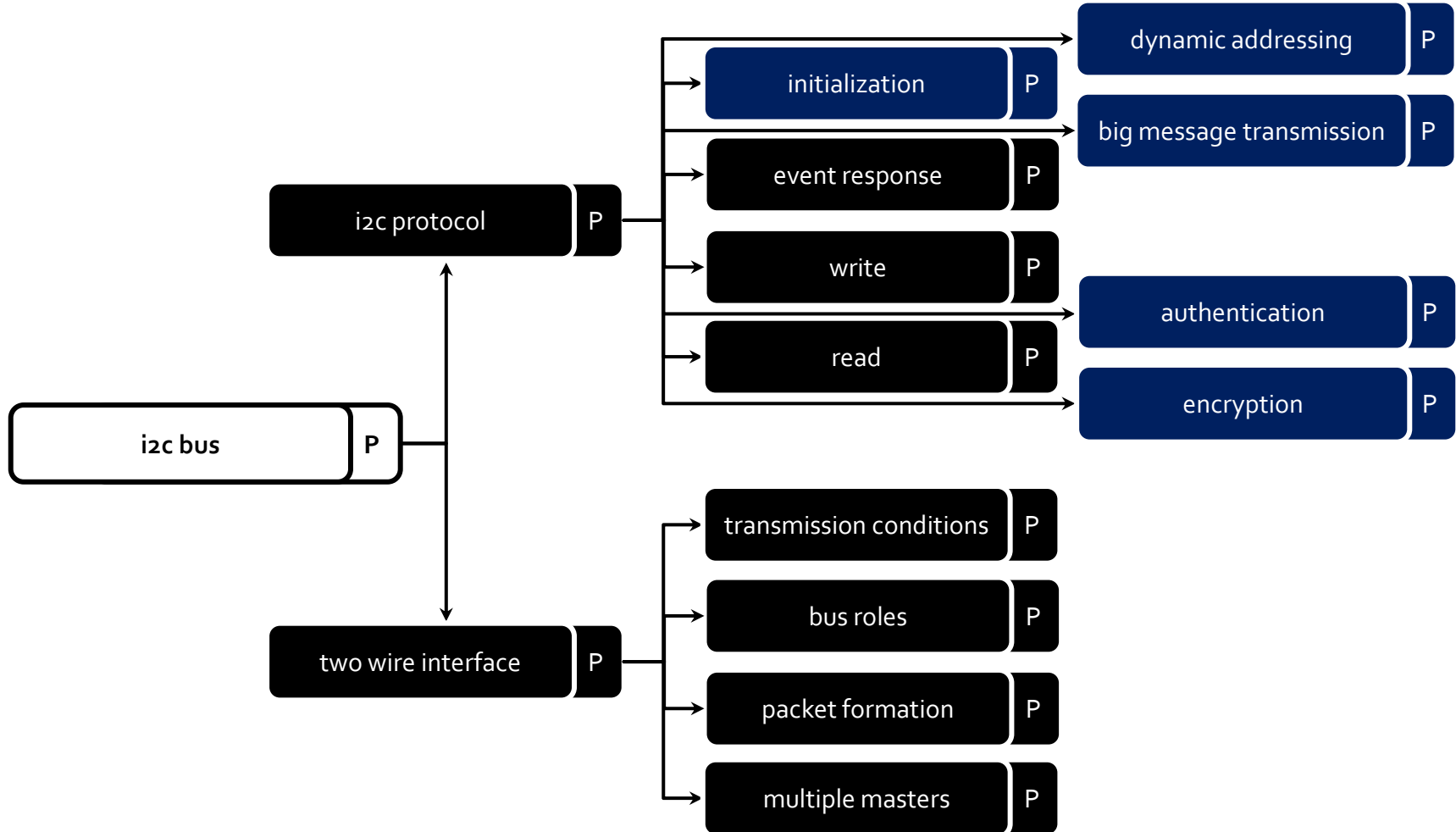
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Validation of Cyber-Physical Systems

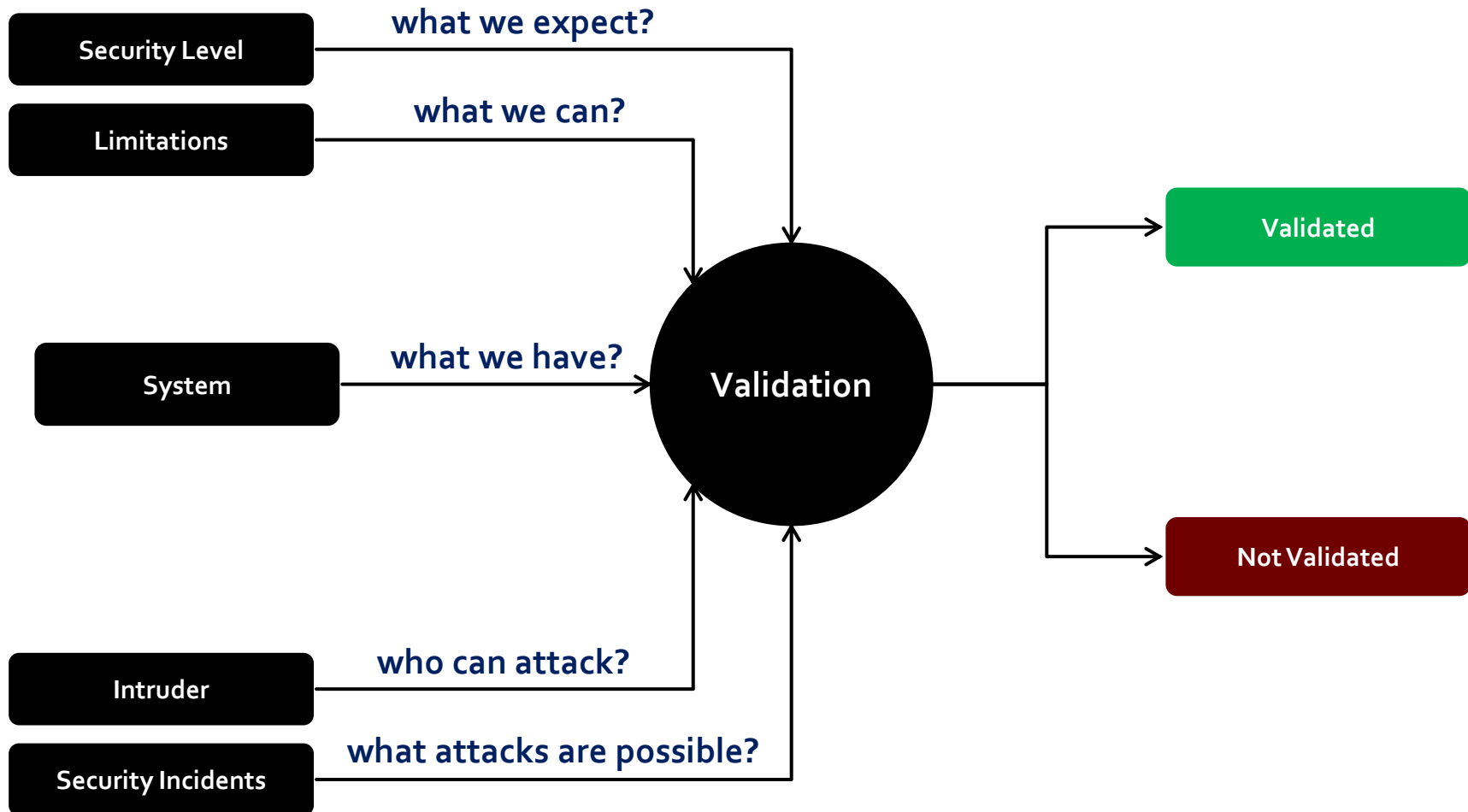
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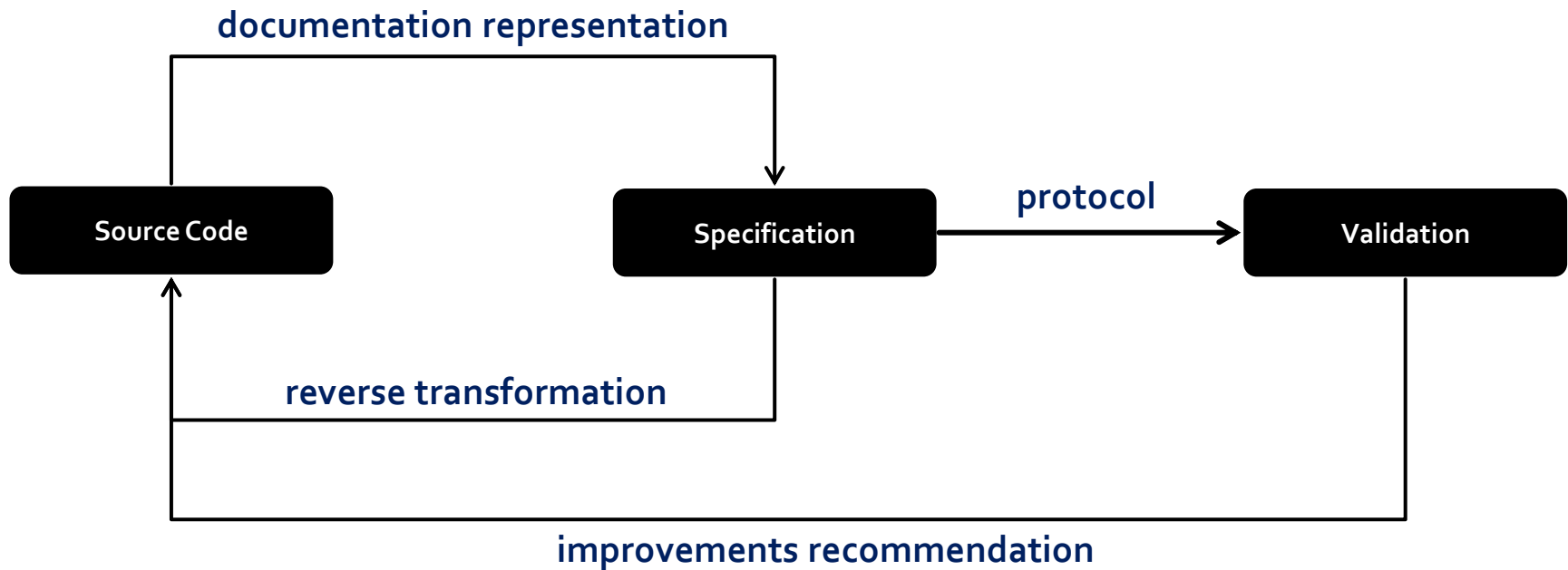
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Validation of Cyber-Physical Systems

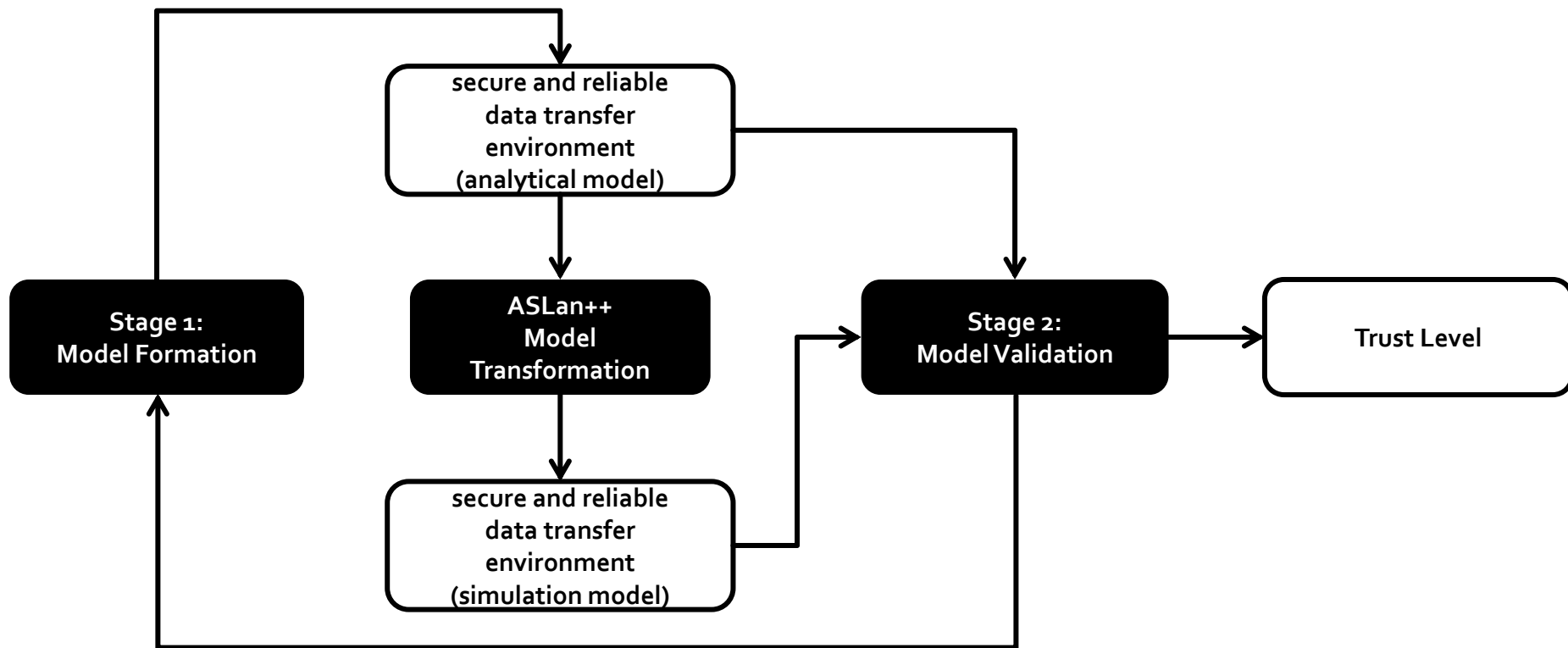
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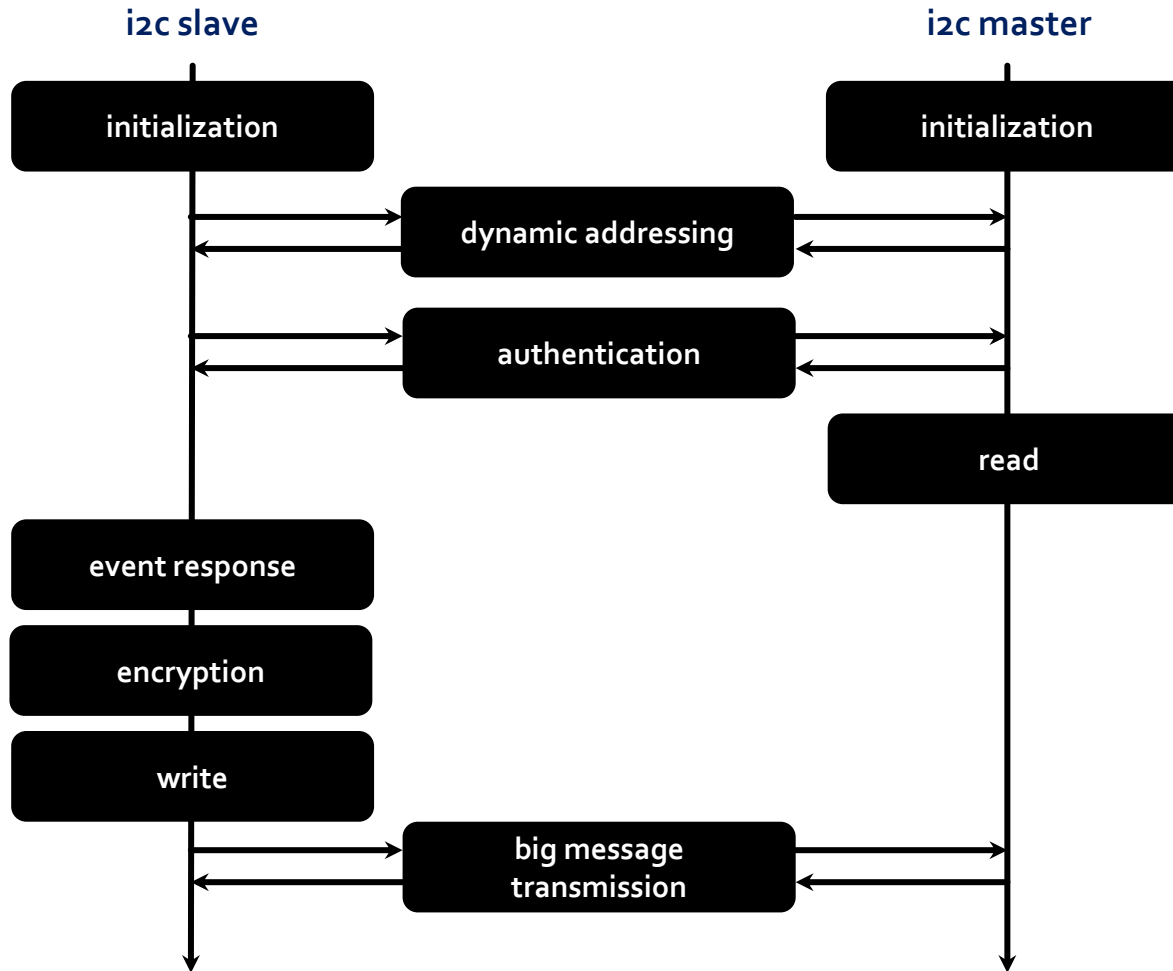
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