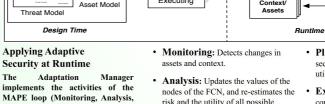


Context is explicitly represented and can activate/ deactivate parts of the Asset, Threat and Goal Model.

Configuring Adaptive Security 2

The trio model is used to configure the activities necessary to support adaptive security.

- A Fuzzy Causal Network (FCN) is generated from the asset, threat, and goal models. Each node of the FCN is associated with a specific security concern while the links identify influence relationships among security concerns
- Assets and context are associated with the probes provided by the system to monitor them
- Security controls are mapped to the security functions implemented in the system.



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Monitoring

Executina

2

Cor

Goal Mode

Design Time

Threat Model

Applying Adaptive

Security at Runtime

Planning and Executing).

Adaptation

3

The

nodes of the FCN, and re-estimates the risk and the utility of all possible. configurations of security controls

Monitoring

monitors

onerate

in/on

Planning: Selects the security controls with the best utility

re-configures

Running

System

Executing: Applies the best configuration of security controls on the system.

