

# Category 6: Group Dynamic Vulnerabilities

## Contents

<b>Overview</b>	<b>1</b>
<b>Indicators</b>	<b>2</b>
<b>Implementation Schema</b>	<b>2</b>
<b>Key Metrics</b>	<b>2</b>
Groupthink Index . . . . .	2
Responsibility Diffusion Score . . . . .	2
Social Loafing Coefficient . . . . .	2
<b>Key Data Sources</b>	<b>2</b>
<b>Detection Approach</b>	<b>2</b>
Groupthink Detection . . . . .	2
Diffusion of Responsibility . . . . .	3
<b>Baseline Establishment</b>	<b>3</b>
<b>Common Event Types</b>	<b>3</b>
<b>Risk Levels</b>	<b>3</b>
<b>Mitigation Strategies</b>	<b>3</b>
Structural . . . . .	3
Cultural . . . . .	4
Process . . . . .	4
<b>Related Resources</b>	<b>4</b>

This directory contains detailed implementation schemas for all 10 indicators in the Group Dynamics vulnerability category.

## Overview

Group dynamic vulnerabilities exploit collective behavior patterns, groupthink, diffusion of responsibility, and organizational defense mechanisms.

## Indicators

1. [6.1] Groupthink security blind spots - Collective decision-making failures
2. [6.2] Risky Shift Phenomena - Groups taking riskier decisions than individuals
3. [6.3] Diffusion of Responsibility - Everyone assumes someone else will act
4. [6.4] Social Loafing in Security Tasks - Reduced individual effort in groups
5. [6.5] Bystander Effect in Incident Response - Failure to respond assuming others will
6. [6.6] Dependency Group Assumptions (baD) - Collective dependency fantasies
7. [6.7] Fight-Flight Security Postures (baF) - Group-level attack/avoidance patterns
8. [6.8] Pairing Hope Fantasies (baP) - Unrealistic group optimism
9. [6.9] Organizational Splitting - Good/bad division creating blind spots
10. [6.10] Collective Defense Mechanisms - Group-level denial, rationalization

## Implementation Schema

Each indicator follows the **OFTLISRV** framework with focus on group-level observables.

## Key Metrics

### Groupthink Index

```
GI = Decision_unanimity * Speed_to_consensus / Devil's_advocate_presence
```

### Responsibility Diffusion Score

```
RDS = Incident_response_delay * Ownership_transfers / Team_size
```

### Social Loafing Coefficient

```
SLC = Individual_contribution / Expected_contribution_per_member
```

## Key Data Sources

- **Ticketing:** Ownership transfers, group assignments, response times
- **Meeting Data:** Decision records, dissent markers, participation
- **Collaboration Tools:** Contribution metrics per team member
- **Incident Response:** Group incident handling vs individual
- **Change Management:** Group-approved changes vs individual

## Detection Approach

### Groupthink Detection

```
# Analyze group decision patterns
decision = get_group_decision(incident_id)

groupthink_markers = {
    'unanimity': all([vote == decision for vote in votes]),
```

```

    'no_dissent': count_dissenting_views == 0,
    'quick_consensus': decision_time < baseline * 0.5,
    'illusion_invulnerability': overconfidence_markers > 0,
    'collective_rationalization': justification_complexity < baseline
}

if sum(groupthink_markers.values()) >= 3:
    flag_groupthink_risk(team_id)

```

## Diffusion of Responsibility

```

# Track ownership transfers
transfers = get_ownership_transfers(incident_id)

if len(transfers) > 3: # Passed around multiple times
    diffusion_detected = True

# Check for assumption someone else will handle
assumption_keywords = ['thought you', 'assumed', 'believed handled']
if any(kw in incident_notes for kw in assumption_keywords):
    diffusion_detected = True

```

## Baseline Establishment

Group dynamic indicators require:

- Team composition and size data
- Historical group decision patterns
- Normal responsibility transfer rates
- Organizational culture assessment

## Common Event Types

- group\_decision → 6.1, 6.2, 6.8
- ownership\_transfer → 6.3, 6.5
- group\_task\_assigned → 6.4
- organizational\_crisis → 6.7, 6.9, 6.10
- dependency\_reference → 6.6

## Risk Levels

- **Low** (0-0.33): Healthy group dynamics, individual accountability
- **Medium** (0.34-0.66): Some group influence, responsibility still clear
- **High** (0.67-1.00): Systematic group dysfunction, diffusion of responsibility

## Mitigation Strategies

### Structural

- Explicit individual responsibility assignment

- Devil's advocate roles in security decisions
- Decision review processes
- Individual performance metrics alongside group metrics

## Cultural

- Reward individual initiative
- Normalize dissent and questioning
- Clear accountability structures
- Post-decision reviews

## Process

- Individual accountability in group tasks
- Bystander intervention training
- Explicit handoff protocols
- Group decision documentation requirements

## Related Resources

- **Dense Foundation:** [/foundation\\_docs/core/en-US/](/foundation_docs/core/en-US/) - Group dynamics formalization
- **Bion's Basic Assumptions:** Theoretical foundation for 6.6-6.8
- **Dashboard:** </dashboard/soc/> - Group-level metrics