

PROMPT 2 DATA DICTIONARY

****Highlighted values were recorded after the threat event ended**

Threat Type: (Categorical: Air, Naval, Cyber, Missile, Hybrid)

Type of adversary threat encountered in the operational theater

enemy_unit_count: The estimated number of adversary units involved at the time of response planning(ships, aircraft, battalions, etc.)

Enemy.Capability.Index: A composite score representing the perceived technological sophistication, training, and readiness of adversary forces based on pre-response assessments

ThreatEscalationHours: The estimated number of hours before the threat would escalate if no effective response were taken

friendlyUnitCount: Total number of friendly units available or committed to the response at the time decisions were made

LCS_COUNT: Number of Littoral Combat Ships (LCS) available or assigned to the operation

Aircraft Count: Number Aircrafts available or assigned to the operation.

cyber_defense_teams: Number of dedicated defense teams available or assigned to protect friendly networks, systems, and communications during the response window

Patriot.Batteries: Number of Patriot missile defense batteries available or deployed to defend against ballistic or aerial threats during the operation

ISR_AssetCount: Total number of Intelligence, Surveillance and Reconnaissance (ISR) assets available or tasked to support situational awareness and targeting during the response(drones, reconnaissance aircraft, surveillance systems)

satellite coverage score: A score indicating the quality and availability of satellite coverage over the operational theater at the time of response. Higher values indicate higher quality

JointForceIntegration: A score indicating the coordination amongst join commands and allied forces in the response. Higher values indicate stronger operational cohesion

EW_Capability: An Electronic Warfare (EW) capability score indicating the ability to disrupt adversary command systems. Higher values indicate stronger EW effectiveness

Supply Chain Resilience: A score representing the reliability of supply chains supporting the operation at the time of the threat response. Higher values indicate a stronger more robust supply chain

PriorEngagements: The number of prior engagements or operational responses conducted by the involved forces before this event

force_readiness_score: A score representing the operational readiness of friendly forces at the time of the response, encompassing maintenance status, training levels, and personnel availability. Higher values indicate better preparation at the time the threat was made

Intel Confidence: Represents the confidence level in the intelligence used to inform planning and execution. Higher values indicate more reliable intelligence at the time decisions were made

ResponseTime_hrs: Time (in hours) elapsed between threat detection and the initiation of the response

logistics_delay_hours: Estimated delay introduced by logistical constraints

CMD_COORD_SCORE: A score representing Command Coordination indicating the effectiveness of leadership and communication

roe_complexity_score: Indicates the complexity of the rules of engagement governing the response. Higher values suggest more restrictive or nuanced decision making constraints

Operations Budget (MUSD): The budget allocated for the response operation prior to the execution, expressed in millions of U.S. Dollars

BudgetUtilization_pct: The planned percentage of the allocated budget expected to be used at the time of response planning. This reflects the financial assumptions, not outcomes

Weather_Severity: Represents the severity of weather conditions anticipated during the response window. Higher values indicate more challenging environments

Threat Distance KM: Approximate distance from the primary command location to the operational theater

Season: (Categorical: Spring, Summer, Fall, Winter)

Season during which the response operation occurred (may affect environmental conditions)

response_success: Indicates whether the response strategy successfully mitigated the threat. 1 and “Yes” represent a successful outcome, while 0 and “No” represent unsuccessful outcomes.

Financial_Loss_MUSD: Estimated total financial loss associated with the response, including operational costs, damage, and secondary impacts. Values are expressed in millions of U.S. Dollars

days_to_stabilization: The number of days elapsed between the initiation of the response and the point at which the threat was fully contained and operational stability was restored