



Mana'o Pili LLC





PREVENTING DUPLICATE TICKETS SUBMISSION

ServiceNow Best Practices

An Exploration of the Duplication Control
Maturity Model

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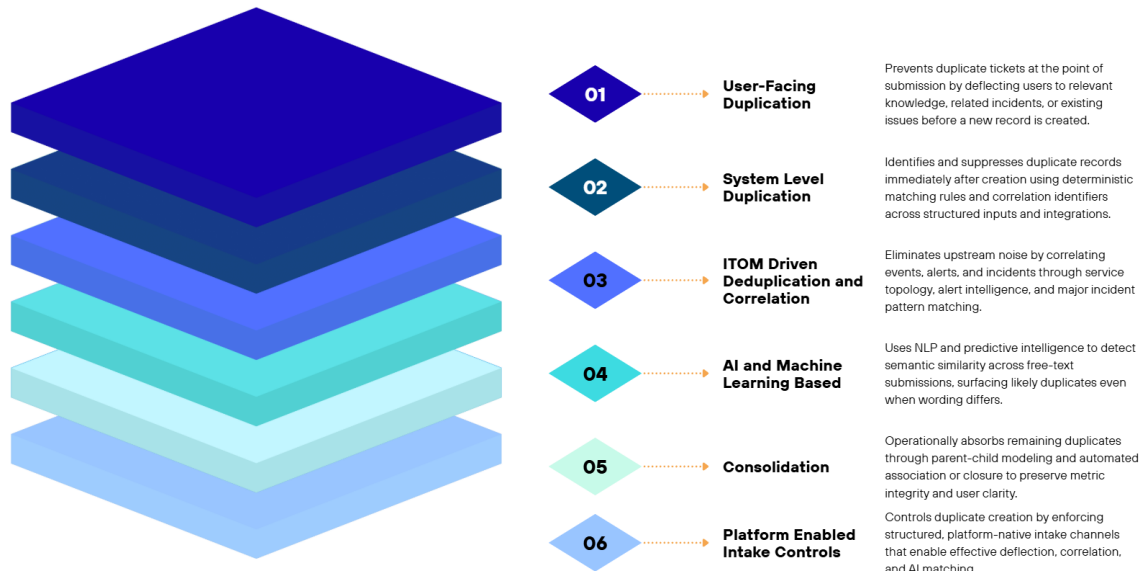
www.manaopili.com 

500 Ala Moana Blvd. Suite 7400 
Honolulu, HI 96813

Preventing Duplicate Ticket Submission in ServiceNow

Rev. December 15, 2025

Executive Overview



Duplicate incidents, requests, and events inflate ticket volumes, slow resolution, distort operational metrics, and create unnecessary friction for users, agents, and leadership teams. In most environments, duplication is not caused by a single failure, but by gaps across intake, correlation, and operational handling.

At Mana'o Pili, we see duplicate reduction not as a rip-and-replace exercise, but as a **Transform- in- Place** opportunity: extracting more value from the ServiceNow capabilities organizations already own. The most effective outcomes come from **layered controls**, applied deliberately across the ticket lifecycle, using platform-native intelligence rather than additional process overhead.

Sustainable duplicate reduction requires the alignment of **technology, process, and people**, with ServiceNow acting as the system of control. No single feature eliminates duplication on its own. Instead, value is unlocked when proactive intake deflection, systematic correlation, and AI- led pattern recognition operate together as an integrated capability.

This framework defines that capability as the **Duplication Control Layer**, a defense-in-depth approach that spans portals, AI, ITOM, integrations, and operational workflows. When designed intentionally, the Duplication Control Layer reduces ticket volume, improves MTTR, restores metric integrity, and improves user experience without increasing operational burden.

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1. User-Facing Deflection (Preventing Duplicates at Submission)

The screenshot shows the 'Create Incident' form in ServiceNow. The breadcrumb trail is 'Home > Service Catalog > Can We Help You? > Create Incident'. The form title is 'Create Incident' with a subtitle 'Create an Incident record to report and request assistance with an issue you are having'. Below this is a description: 'Request assistance with an issue you are having. An incident record will be created and managed through to successful resolution. You will also be notified of progress.' The 'Urgency' field is set to '1 - High'. The 'Please describe your issue below' field contains the text 'Unable to login'. Below this field, a 'Search Results' section is displayed, showing two results: 'Workstation Security Standard' and 'What to do when you are locked out of you computer?'. The 'Submit' button is visible on the right side of the form.

A. Knowledge-Based Deflection and Related Record Suggestions

How it works

ServiceNow performs real-time relevance searches as users type into the short description field. The platform evaluates indexed data across knowledge articles and existing records using configurable weighting and filters.

Primary data elements used:

- Short description (boosted and indexed)
- Category and subcategory
- Service and offering
- Associated CI (if present)
- Record state and age

Configuration controls include search weighting, result limits, minimum confidence thresholds, and whether resolved records are included.

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Duplication prevention model

Proactive and systematic. Duplicate demand is intercepted before ticket creation through relevance-based deflection.

Criteria

- User-submitted tickets via Portal or Employee Center
- High-frequency, repeatable issues
- Curated knowledge base

Use cases

- Password resets
- Access requests
- Common application errors

Outcome

Users self-resolve or associate to known issues without creating new tickets.

Result

Reduced inbound ticket volume and increased knowledge reuse.

Effectiveness

15% – 30% reduction in user-submitted incidents.

B. Portal-Level Incident Matching

How it works

During incident submission, ServiceNow compares the user-entered short description against active incidents using similarity scoring and contextual filters.

Primary data elements used:

- Short description similarity
- Service and CI alignment
- Incident state
- Creation time window

Configuration controls include similarity thresholds, eligible states, maximum match count, and ordering logic.

Duplication prevention model

Proactive and systematic. Duplicate incidents are avoided during intake through automated matching.

Criteria

- Active multi-user incidents
- Portal-based intake

Use cases

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- Application outages
- Network disruptions

Outcome

Users subscribe to existing incidents instead of creating new ones.

Result

Lower duplicate volume during outages.

Effectiveness

20% – 40% percent reduction in duplicate incidents during high-impact events.
(Preventing Duplicates at Submission)

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2. System-Level Duplicate Detection (Post-Creation)

All > Active = true							
Number	Opened	Short description	Caller	Priority	State	Category	Assignment group
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
▼ Short description: I am unable to login into MS Teams. (4)							
INC0010016	2025-12-16 21:40:47	I am unable to login into MS Teams.	Abby Olson	4 - Low	New	Inquiry / Help	Software
INC0010015	2025-12-16 21:40:42	I am unable to login into MS Teams.	Abby Olson	4 - Low	New	Inquiry / Help	Software
INC0010014	2025-12-16 21:38:51	I am unable to login into MS Teams.	Abby Olson	4 - Low	New	Inquiry / Help	Software
INC0010013	2025-12-16 21:38:33	I am unable to login into MS Teams.	Abby Olson	4 - Low	New	Inquiry / Help	Software

A. Deterministic Matching Rules

How it works

After ticket creation, ServiceNow executes rule-based logic to compare new records against existing ones using exact or near-exact field matches.

Primary data elements used:

- Caller or requested-for
- Short description
- Service or CI
- Source and assignment group
- Creation timestamp

Configuration controls include match criteria, time windows, and automated actions (flag, relate, or close).

Duplication prevention model

Reactive and systematic. Duplication is identified immediately after creation without manual review.

Criteria

Highly structured inputs

Predictable creation patterns

Use cases

Automation-generated incidents

Monitoring integrations

Outcome

Duplicates are automatically flagged or consolidated.

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Result

Reduced agent triage effort.

Effectiveness

60% – 80% percent reduction for system-generated tickets.

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B. Correlation IDs for Email and Integrations

How it works

ServiceNow checks incoming records for a unique external identifier before creating a new ticket. If a matching identifier exists, the record is suppressed or related.

Primary data elements used:

- Email message ID
- External alert or event ID
- Transaction or case ID

Configuration controls include ID mapping, uniqueness enforcement, and duplicate handling behavior.

Duplication prevention model

Systematic. Duplication is prevented at the integration layer.

Criteria

Source systems capable of generating unique IDs

Use cases

Email ingestion

ITOM and SecOps alerts

Outcome

Repeated signals do not generate additional tickets.

Result

Clean one-to-one event-to-ticket mapping.

Effectiveness

Over 90% reduction in integration-driven duplicates.

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3. ITOM - Driven Deduplication and Correlation

Number	Group	Severity	State	Source	Description	Created	Node	Metric name	Maintenance	Incident	Impacted Services
Alert0311324		Critical	Closed	SolarWinds	Event Source: [SolarWinds-NPM] Runbook:...	08-19-2025 6:24:06 PM	DAAE_AF02b	Node:NodeStatus	false	INC4325328	0
Alert0311329		Critical	Closed	SolarWinds	Event Source: [SolarWinds-NPM] Runbook:...	08-19-2025 6:31:09 PM	DAAE_SW71.man.cox.com	Node:NodeStatus	false	INC4325328	0
Alert0339911		Critical	Closed	SolarWinds	Event Source: [SolarWinds-NPM] EOC, co...	10-20-2025 5:28:29 AM	DADE-UPS-A-02.man.cox.com	Node:NodeStatus	false	INC4325328	0

A. Event Management Deduplication

How it works

ServiceNow ITOM evaluates incoming events using alert rules, topology relationships, and temporal correlation before incident creation.

Primary data elements used:

- CI and service topology
- Alert source and type
- Metric signatures
- Event frequency and timing

Configuration controls include correlation rules, suppression windows, and aggregation logic.

Duplication prevention model

Proactive and systematic. Duplication is eliminated upstream of incident creation.

Criteria

Integrated monitoring tools
Maintained CMDB

Use cases

Infrastructure monitoring
Application performance management

Outcome

Multiple alerts produce a single actionable incident.

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Result

Major reduction in alert-driven incidents.

Effectiveness

70% – 95% percent reduction in alert-based incident volume.

B. Major Incident Pattern Matching

How it works

ServiceNow compares new incidents to defined major incident patterns using service context, CI class, error signatures, and time proximity.

Primary data elements used:

- Service or offering
- CI class
- Keywords or error codes
- Incident timing

Configuration controls include pattern definitions and association rules.

Duplication prevention model

Reactive and systematic. Duplication is consolidated after creation.

Criteria

Repeatable outage patterns

Use cases

Known production issues

Outcome

New incidents are automatically associated to the major incident.

Result

Single investigation and communication stream.

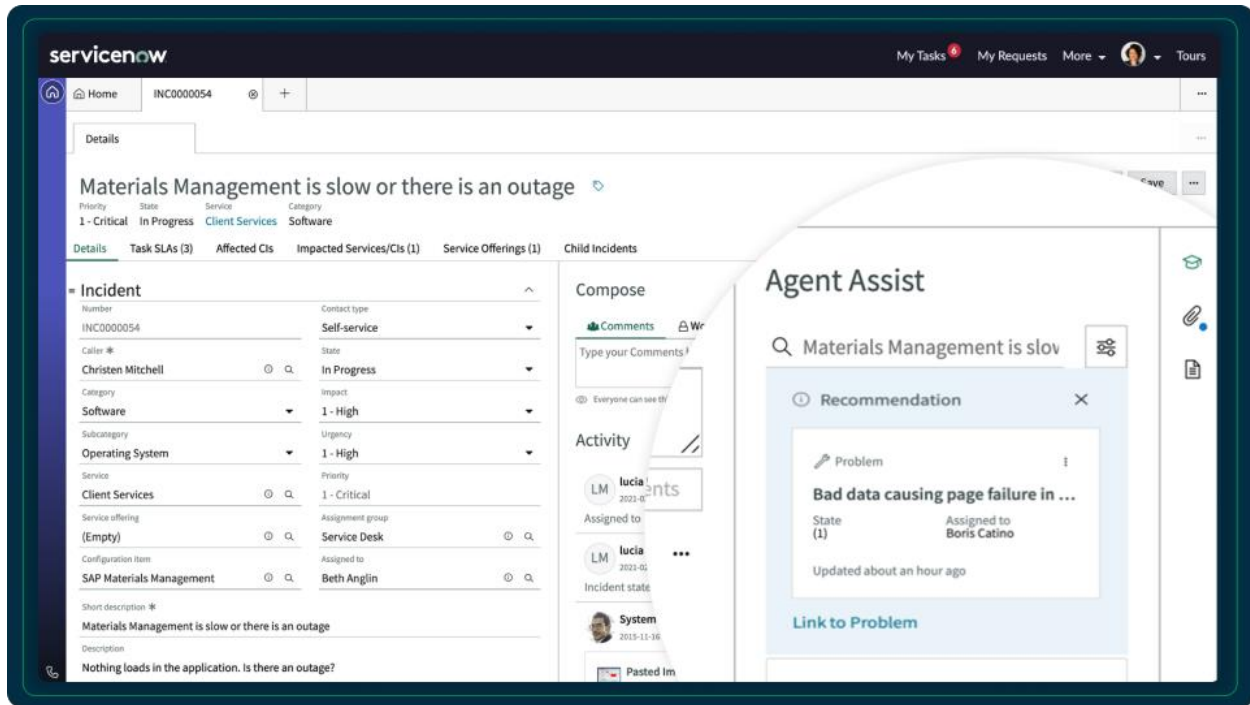
Effectiveness

50% – 70% percent reduction during known outages.

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4. AI and Machine Learning-Based Duplicate Reduction



A. Predictive Intelligence and Similarity Matching

How it works

Predictive Intelligence applies NLP models to assess semantic similarity between new tickets and historical or active incidents.

Primary data elements used:

- Short description and description text
- Categorization history
- Resolution patterns
- Model confidence scores
- Configuration controls include training data selection and confidence thresholds.

Duplication prevention model

Proactive and systematic. Duplicate risk is identified during intake and reinforced post-creation.

Criteria

Sufficient historical data

Use cases

Human-submitted incidents

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Outcome

Likely duplicates are surfaced even with different wording.

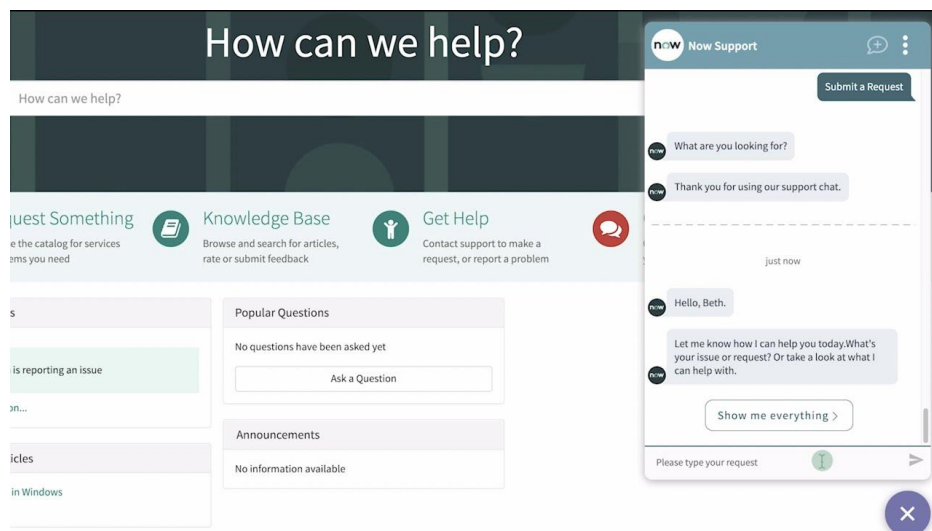
Result

Reduced manual triage.

Effectiveness

25% – 45% percent reduction at scale.

B. Virtual Agent-Based Deflection and Clustering



How it works

Virtual Agent evaluates user intent using NLP and conversational context, then routes users to knowledge, outage status, or existing incidents.

Primary data elements used:

- Defined intents and utterances
- Knowledge metadata
- Active incident data

Configuration controls include intent design, confidence thresholds, and routing logic.

Duplication prevention model

Proactive and systematic. Duplication is prevented before ticket creation.

Criteria

Defined intents

Employee Center adoption

Use cases

High-frequency issues

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Outcome

Demand resolved without ticket creation.

Result

Significant ticket deflection.

Effectiveness

30% – 60% percent deflection when mature.

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5. Consolidation When Duplicates Still Occur

A. Parent–Child Incident Modeling

How it works

ServiceNow uses real-time search and relevance scoring as the user types into the short description field. The platform queries knowledge articles and active or recently resolved records using indexed fields and configurable weighting.

Key configuration elements include:

- Short description indexing and boosting
- Category, subcategory, and service filtering
- CI and service context from the form
- Search-as-you-type thresholds and result limits
- Inclusion or exclusion of resolved incidents based on age

Filtering logic can be tuned to prioritize high-confidence matches, such as incidents with the same service or CI, and to suppress noise from unrelated records.

Duplication prevention model

Proactive and systematic. Duplicate prevention occurs before record creation through real-time suggestion, filtering, and relevance scoring.

Benefits

- Centralized resolution
- Accurate reporting
- Consistent communication

B. Automated Duplicate Closure

How it works

ServiceNow uses real-time search and relevance scoring as the user types into the short description field. The platform queries knowledge articles and active or recently resolved records using indexed fields and configurable weighting.

Key configuration elements include:

- Short description indexing and boosting
- Category, subcategory, and service filtering
- CI and service context from the form
- Search-as-you-type thresholds and result limits
- Inclusion or exclusion of resolved incidents based on age

Filtering logic can be tuned to prioritize high-confidence matches, such as incidents with the same service or CI, and to suppress noise from unrelated records.

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Duplication prevention model

Proactive and systematic. Duplicate prevention occurs before record creation through real-time suggestion, filtering, and relevance scoring.

Best practices

- Use selectively
- Always notify the user
- Provide visibility to status updates

Effectiveness

Reduces agent triage effort by 10% – 20% percent when transparently implemented.

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6. Platform-Enabled Intake Controls

A. Channel Normalization

Strategy

Prioritize structured channels such as Portal, Employee Center, and Virtual Agent, while governing email and API intake.

How it reduces duplicates

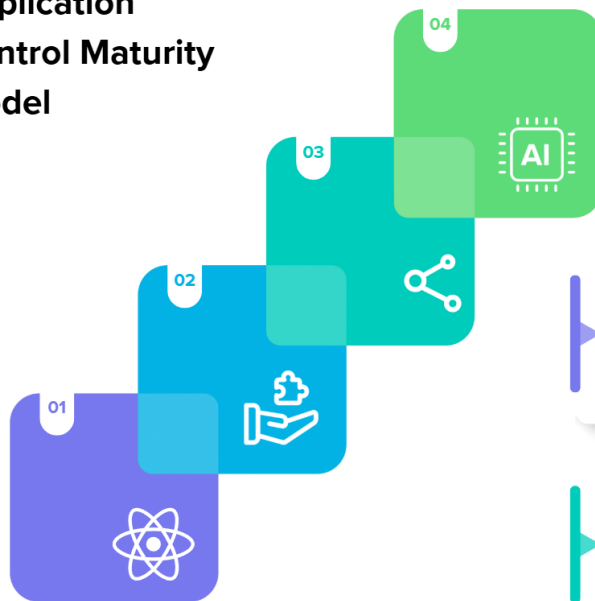
Structured data enables AI matching, correlation, and deflection capabilities to operate effectively.

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7. Duplication Control Maturity Model

Duplication Control Maturity Model



Organizations typically evolve their duplication strategy over time. The most effective programs intentionally mature from reactive cleanup to AI-led prevention.

Level 1 - Reactive Cleanup

Manual identification or simple post-creation rules. High operational noise.

Level 2 - Intake Deflection

Knowledge deflection, portal matching, and Virtual Agent reduce obvious duplicates.

Level 3 - Systematic Correlation

Correlation IDs, ITOM Event Management, and major incident association consolidate demand automatically.

Level 4 - AI Led Prevention

Predictive Intelligence proactively identifies duplicate risk across free-text submissions.

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8. Duplication Control Layer and ServiceNow Capability

Alignment

The **Duplication Control Layer** is most effective when aligned to core ServiceNow capabilities and supported by clear operating practices.

Technology

- ITSM Pro (Predictive Intelligence, Virtual Agent, portal intelligence)
- ITOM Visibility and Event Management
- AI Search and Knowledge Management
- IntegrationHub and inbound email controls

Process

- Defined intake channels and routing
- Major incident and outage communication standards
- Clear consolidation and closure rules

People

- Platform ownership and tuning responsibility
- Agent awareness of consolidation behaviors
- Continuous review of high-duplication patterns

When these elements are aligned, the Duplication Control Layer becomes a durable platform capability rather than a fragile process.

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Conclusion

Duplicate ticket reduction is not a tooling gap—it is a design challenge. Organizations that rely solely on process enforcement or manual cleanup will continue to experience volume inflation and metric erosion.

By intentionally designing and maturing the **Duplication Control Layer**, organizations can unlock more value from their existing ServiceNow investment, reduce operational noise, and improve outcomes without increasing headcount or complexity.

Why Mana'o Pili

Mana'o Pili specializes in **Transform- in- Place ServiceNow optimization**. We help organizations extract measurable value from the capabilities they already own—ITSM, ITOM, AI, and automation—by designing platform-native solutions that scale.

Our approach combines: - Deep ServiceNow platform expertise - Maturity-based road mapping - Practical AI and ITOM enablement

The result is not just fewer duplicate tickets, but a stronger, more resilient ServiceNow operating model that delivers sustained business value.

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Appendix A – Duplication Control Layer Maturity Self-Assessment

This self- assessment is designed to help ServiceNow platform owners, ITSM leaders, and process managers quickly evaluate their current Duplication Control Layer maturity. Scores should reflect **current, consistently demonstrated behavior**, not aspirational design.

How to Use This Assessment

Rate each statement on a scale of **0–5**:

- 0 = Not in place
- 1 = Ad hoc / inconsistent
- 2 = Partially implemented
- 3 = Implemented and stable
- 4 = Optimized and tuned
- 5 = Fully optimized and AI- led

1. Proactive Intake Deflection

Capability	Score (0-5)
Knowledge articles are surfaced in real time during ticket creation	
Portal displays related incidents before submission	
Virtual Agent deflects common issues without ticket creation	
Intake channels are limited to structured, intelligent entry points	

Interpretation

Low scores indicate duplication is being allowed at the front door and must be cleaned up later.

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2. Systematic Correlation and Consolidation

Capability	Score (0–5)
Correlation IDs prevent duplicate records from integrations	
ITOM Event Management deduplicates alerts before incident creation	
Major incident patterns automatically associate new incidents	
Parent–child incident models are consistently applied	

Interpretation

Low scores suggest duplication is overwhelming operations during outages and alert storms.

3. AI-Led Similarity and Pattern Recognition

Capability	Score (0–5)
Predictive Intelligence identifies similar incidents during intake	
NLP similarity is used to flag duplicates post- creation	
Models are trained, tuned, and periodically reviewed	
Free- text variability is effectively handled	

Interpretation

Low scores indicate reliance on brittle rules rather than scalable intelligence.

4. Operational Handling and Governance

Capability	Score (0–5)
Automated duplicate closure is used selectively and transparently	
Users are subscribed to primary incidents when duplicates occur	
Duplicate patterns are reviewed and tuned regularly	
Platform ownership for duplication control is clearly defined	

Interpretation

Low scores often reflect people and process gaps rather than tooling limitations.

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Overall Maturity Scoring

0–20

Reactive Cleanup – Duplication is primarily manual and disruptive

Recommended actions

Stabilize intake by limiting creation channels to Portal and Employee Center
Implement basic deterministic matching rules for system-generated tickets
Establish parent–child incident usage for widespread issues
Assign clear platform ownership for duplication control

21–40

Intake Deflection – Obvious duplicates are reduced, but gaps remain

Recommended actions

Enable and tune knowledge deflection and portal incident matching
Introduce Virtual Agent for top 5–10 high-volume issues
Normalize categorization, service, and CI data to improve matching accuracy
Begin tracking duplicate ticket KPIs

41–60

Systematic Correlation – Duplication is controlled and predictable

Recommended actions

Implement correlation IDs across all integrations and email ingestion
Enable ITOM Event Management deduplication and alert correlation
Define and operationalize major incident pattern matching
Automate duplicate association and selective closure

61–80

AI-Led Prevention – Duplication is minimized at scale

Recommended actions

Train and tune Predictive Intelligence similarity models
Continuously optimize Virtual Agent intents and NLP confidence thresholds
Review duplication patterns quarterly and refine AI models
Integrate duplication metrics into executive dashboards

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Using This Assessment

At Mana'o Pili, we use this assessment to: - Identify where duplication is entering the lifecycle - Prioritize high- value configuration and optimization work - Build Transform- in- Place roadmaps that reduce volume without increasing cost

The goal is not a perfect score, but a **balanced Duplication Control Layer** that aligns to business scale, risk tolerance, and platform maturity.