

# ETMF RISK SCORING CONFIGURATION, MIGRATION & ADOPTION GUIDE



## 1. Table of Contents

1. Table of Contents .....	2
2. Overview.....	3
3. Risk Architecture .....	4
4. Configuration Options Summary .....	6
5. Recommended Default Configuration .....	7
6. Implementation Steps for Configuration Team .....	8
7. Migration Considerations.....	9
8. Adoption Strategy Guidance .....	10
9. Key Design Principles.....	11
10. Final Recommendation .....	12
11. Visual Risk Architecture Diagram .....	13
12. Sales Positioning Brief.....	15

## 2. Overview

The Risk Scoring feature provides configurable, hierarchical risk visibility across the eTMF.

Risk can be enabled at two levels for the 'Master Feature Toggles' which can be enabled independently.

- Document Level Risk (Document-level scoring)
- Document/Site/Country/Trial Risk (Aggregate roll-up scoring)

This allows end users to:

- Use only document type-level risk
- Use full hierarchical roll-up risk
- Disable the features entirely

### 3. Risk Architecture

#### A. TOGGLE 1: DOCUMENT TYPE RISK

When this toggle is enabled, every document is assigned a risk score between 0-100.

The Document Risk consists of the following:

##### Document Type Risk

Each document type has a predefined risk value between 0–100.

Example:

- ICF – 95
- Safety Report – 90
- CV – 60
- Training Log – 40

A script exists to populate out-of-the-box (OOTB) document type risk values which represents inherent regulatory criticality.

##### Dynamic Document Risk

The dynamic risk adjusts the baseline risk using the following operational factors:

Factor	Description	Configurable?
Status	Lifecycle status	<input checked="" type="checkbox"/> Always enabled
Open Query	Active query present	<input checked="" type="checkbox"/> Enable/Disable
In Audit	Included in audit	<input checked="" type="checkbox"/> Enable/Disable
AI Flag	AI-detected issue	<input checked="" type="checkbox"/> Enable/Disable

**Note:** Each factor has a configurable weighting and follows a default hierarchy i.e., Status > Query > Audit > AI Flag.

#### B. TOGGLE 2: SITE, COUNTRY AND TRIAL RISK

If the toggle is ON for site, country or trial, document risks roll up hierarchically as follows:

Document → Site → Country → Trial

In addition to aggregated document risk, the following risk factors may be included:

Factor	Configurable?
Missing Document Rate	<input checked="" type="checkbox"/> Enable/Disable
Document Rejection Rate	<input checked="" type="checkbox"/> Enable/Disable

Aggregated Document Risk

**X** Always included when roll-up is enabled

If the toggle is OFF:

- Site, country, and trial risk are not calculated
- Document-level risk remains functional (if enabled)

## 4. Configuration Options Summary

### Master Toggles

Feature	Can Enable/Disable?
Document Type Risk	<input checked="" type="checkbox"/> Yes
Document/Site/Country/Trial Risk	<input checked="" type="checkbox"/> Yes

### Document Type Risk

Item	Configurable?
Risk score per document type (0-100)	<input checked="" type="checkbox"/> Yes

**Note:** It is recommended to use the OOTB values initially.

### Dynamic Document Risk

#### Enable Disable Factors

Factors	Can Disable?
Status	<input checked="" type="checkbox"/> No
Query	<input checked="" type="checkbox"/> Yes
Audit	<input checked="" type="checkbox"/> Yes
AI Flag	<input checked="" type="checkbox"/> Yes

#### Adjust Factor Weights

Weights are configurable with the default weighting priority being as follows:

**Status > Query > Audit > AI Flag**

**Note:** It is recommended to not modify at initial go-live.

### Site, Country and Trial Risk Factors

If the roll-up toggle is enabled, the following factors can be enabled or disabled.

Factors	Can Disable?
Missing Document Rate	<input checked="" type="checkbox"/> Yes
Document Rejection Rate	<input checked="" type="checkbox"/> Yes
Aggregated Document Risk	<input checked="" type="checkbox"/> No

**Note:** It is recommended to keep both missing document rate and rejection rate enabled for accurate oversight.

## 5. Recommended Default Configuration

It is strongly recommended to launch customers with full feature enabled and OOTB configuration.

### Recommended Setup

Setting	Recommendation
Document Type Risk	ON
Document/Site/Country/Trial Risk	ON
Document Type Risk Values	OOTB
Status Factor	Enabled
Query Factor	Enabled
Audit Factor	Enabled
AI Flag	Enabled (if AI used)
Dynamic Weights	Default
Missing Document Rate	Enabled
Rejection Rate	Enabled

## 6. Implementation Steps for Configuration Team

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### STEP 1: CONFIRM THE SCOPE WITH CUSTOMER

Clarify whether:

- Document risk only?
- Full hierarchical risk?
- AI in use?
- Audit module in use?

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### STEP 2: RUN DOCUMENT TYPE RISK SCRIPT

Populate the OOTB baseline risk values.

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### STEP 3: CONFIGURE TOGGLES

- Enable/Disable Document Risk
- Enable/Disable Site/Country/Trial Risk

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### STEP 4: CONFIRM DYNAMIC RISK FACTORS

- Enable or disable the following:
  - Query
  - Audit
  - AI Flag
- Confirm weights (default recommended)

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### STEP 5: CONFIGURE ROLL-UP RISK FACTORS

Enable or disable the following

- Missing Document Rate
- Rejection Rate

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### STEP 6: VALIDATE UI COMPONENTS

Ensure the following UI components are validated:

- Risk column visible in document view
- Risk-based dashlets added
- Site/Country/Trial dashboards configured (if roll-up enabled)

## 7. Migration Considerations

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### A. BACKFILL

- Run document type population script before enabling risk.
  - Risk scores calculate dynamically from current state.
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### B. HISTORICAL DATA

- No historical data changes.
  - Risk is calculated based on current document attributes.
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### C. ROLLOUT RECOMMENDATION

Phased adoption recommended:

- Enable with defaults.
- Monitor for 4–8 weeks.
- Adjust configuration only if operationally necessary.

## 8. Adoption Strategy Guidance

Encourage clients/customers to use risk scoring for:

- Inspection Readiness
- Risk based monitoring
- Site oversight prioritization
- Executive reporting
- Quality trending

## 9. Key Design Principles

The two-toggle model allows flexibility while preserving simplicity



## 10. Final Recommendation

For most customers enable both **Document Risk** and **Site/Country/Trial Risk** using default configuration.

Customization should follow operational experience, not precede it.

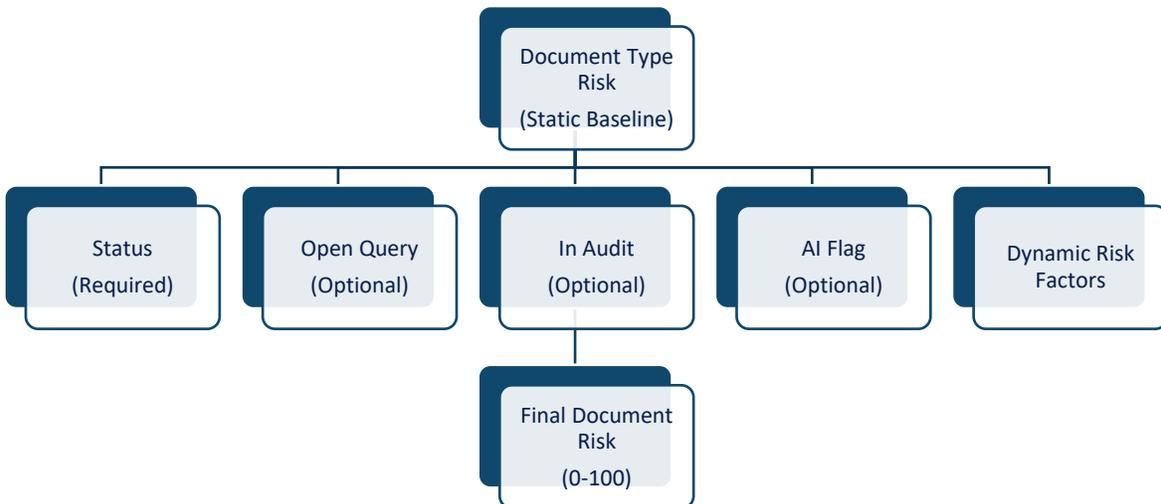
## 11. Visual Risk Architecture Diagram

### A. TWO-TOGGLE FEATURE STRUCTURE

Toggle 1 can be ON independently  
 Toggle 2 required Toggle 1 to be ON



### B. DOCUMENT RISK CALCULATION



**Note:** Weighting is configurable with the default priority being **Status > Query > Audit > AI Flag**.

### C. RISK ROLL-UP MODEL

When the Toggle 2 i.e., Site/Country/Trial Risk is enabled:



### D. ROLL-UP RISK INPUT

At the Site/Country/Trial level:

Inputs	Required/Optional
Aggregated Document Risk	Required
Missing Document Rate	Optional Toggle
Document Rejection Rate	Optional Toggle

### E. END TO END VISUAL SUMMARY



#### Optional Contributors

- Missing document rate
- Rejection rate
- AI signals
- Audit inclusion

## 12. Sales Positioning Brief

### A. CORE VALUE PROPOSITION

Risk Scoring transforms the eTMF from a document repository into a proactive inspection readiness and oversight engine.

It answers:

- Where are we most exposed?
- Which sites need attention?
- Which documents are likely inspection risks?
- Where should QA focus

### B. THE STRATEGIC NARRATIVE

Traditional eTMFs are reactive. The Risk Scoring makes the eTMF:

- Predictive
- Prioritized
- Actionable
- Executive-ready

Instead of reviewing everything, teams review what matters most.

### C. BUSINESS PROBLEMS IT SOLVES

- **Inspection Anxiety:** Sponsors don't know their true inspection posture. The Risk scoring surfaces high-risk documents and sites immediately.
- **Inefficient QA Review:** QA reviews evenly instead of risk-based. Risk enables targeted oversight.
- **Hidden Stack Risk:** Missing documents and rejections aren't contextualized. Roll-up risk highlights problematic countries or sites early.
- **Executive Blind Spots:** Leadership sees completeness metrics, not exposure risk. Trial-level risk provides board-ready insight.

### D. HOW TO POSITION THE TWO TOGGLES

#### Conservative Customer

*"We can enable document-level risk only — no roll-up — so your team gets comfortable with it."*

Low disruption entry point.

#### If Customer Is Advanced / Risk-Based Monitoring Focused

Position full roll-up:

*"This allows you to prioritize sites the same way RBQM prioritizes patient safety."*

Connect to ICH E6(R2) risk-based oversight language.