

TECHNICAL DIRECTIVE MANAGEMENT

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I. Introduction

This document provides a detailed functional analysis and breakdown of the Technical Directive (TD) development requirements.

The analysis has been conducted based on the business needs and specifications expressed in the PDF documents provided, including:

- The current Technical Directive form (Form DA-7005)
- The integration request outlining the expected system behavior and improvements

These documents describe the existing manual process, currently managed through hard copy forms, as well as the target objective of fully integrating the Technical Directive workflow into the ADS/Airtime system.

The purpose of this analysis is to:

- Translate the business requirements into structured User Stories
- Clearly identify the roles and responsibilities across Engineering, Stores, CAMO, and MRO
- Define the expected system behavior, data interactions, and workflow
- Provide a solid foundation for development, estimation, and implementation planning

II. structured User Stories

1. Technical Directive Creation (Engineering)

A. US1 – Create a TD from a component - automatic mode -

As an Engineering user

I want to create a Technical Directive from an existing component

So that I can automatically retrieve technical data from ADS

Acceptance Criteria :

- The user can search for a component (PN/SN)
- The system automatically retrieves:
 - TSN / CSN / TSI / CSI
 - Aircraft Registration
 - Date Removed
- Auto-populated fields are read-only
- The TD is created with status *Draft*

B. US2 – Create a TD in manual mode (non-serialized items)+

As an Engineering user

I want to create a TD without ADS linkage

So that I can handle non-serialized items

Acceptance Criteria :

- All fields are editable
- No blocking validation on PN/SN
- The TD is flagged as "Manual"
- Minimum mandatory fields are defined

C. US3 – Automatic TD number generation

As a system

I want to generate a unique TD number

So that traceability is ensured

• **Acceptance Criteria**

- Automatic numbering (configurable format)
- Guaranteed uniqueness
- Not editable by users

D. US4 – Define work scope

As an Engineering user

I want to define the work scope

So that maintenance actions are clearly specified

- **Acceptance Criteria**

- Free text field (Repair Instructions / Remarks)
- Mandatory before validation
- Change history is tracked

E. US5 – Select work type

As an Engineering user

I want to select the work type

So that the maintenance requirement is categorized

- **Acceptance Criteria**

- Dropdown values:
 - Calibration
 - Repair
 - Others
- Selection is mandatory
- Multi-selection optional (depending on design)

F. US6 – Define return type

As an Engineering user

I want to define the return type

So that logistics handling is clarified

- **Acceptance Criteria**

- Dropdown values:
 - Pool Unit
 - Exchange Unit
 - Loan Unit
- Single selection only

G. US7 – Manage warranty information

As an Engineering user

I want to indicate warranty status

So that appropriate processing can be applied

- **Acceptance Criteria**

- Field: Yes / No
- "Warranty Remarks" enabled if Yes
- Field is optional

H. US8 – Validate and issue TD

As an Engineering user

I want to validate a TD

So that it can be sent to Stores

- **Acceptance Criteria**
- Mandatory fields validation
- Status transition:
 - Draft → Issued
- Issue date recorded
- Notification sent to Stores

2. EPIC 2 –Data Fetch

A. US9 – Retrieve component data

As a system

I want to retrieve component data from ADS

So that manual data entry is avoided

- **Acceptance Criteria**
- Mapping includes:
 - PN
 - SN
 - TSN / CSN / TSI / CSI
- Data consistency with ADS CAMO module

B. US10 – Retrieve removal reason

As a system

I want to retrieve removal reason from Work Orders

So that the TD is enriched with accurate data

- **Acceptance Criteria**
- Link with existing Work Order
- Auto-population when available
- Editable fallback if not available

3. EPIC 3 – Stores Processing (Logistics)

A. US11 – Notify Stores

As a Stores user

I want to be notified when a TD is created

So that I can initiate processing

- **Acceptance Criteria**
- Real-time or scheduled notification
- Direct access to TD

B. US12 – View TD list

As a Stores user

I want to view all open TDs

So that I can prioritize processing

- **Acceptance Criteria**
- Filterable list:
 - Status
 - Type
 - Date
- Sorting capability

C. US13 – Create Repair Order from TD

As a Stores user

I want to create a Repair Order from a TD

So that I can send the component for repair

- **Acceptance Criteria**
- "Create Repair Order" button
- Auto-filled data
- TD ↔ Repair Order linkage

D. US14 – Create Calibration Order

As a Stores user

I want to create a Calibration Order

So that tools can be calibrated

- **Acceptance Criteria**
- Dedicated action button
- Pre-filled data
- Linked to TD

E. US15 – Link existing Pool / Exchange order

As a Stores user

I want to link an existing order

So that duplication is avoided

- **Acceptance Criteria**
- Search existing orders
- Link to TD
- Full traceability

4. EPIC 4 – Workflow & Status Management

A. US16 – Manage TD lifecycle

As a system

I want to manage TD statuses

So that process tracking is ensured

- **Statuses:**
- Draft
- Issued
- In Progress
- Completed
- Closed

B. US17 – Set TD to “In Progress”

As a Stores user

I want to mark a TD as In Progress

So that processing status is visible

C. US18 – Close TD

As a Stores / Engineering user

I want to close a TD

So that the process is finalized

- **Acceptance Criteria**
- All linked orders are closed
- Final status = Closed

5. EPIC 5 – Export / Printing

A. US19 – Generate TD PDF

As a user

I want to export the TD

So that I can keep a formal record

- **Acceptance Criteria**
- PDF matches Form DA-7005 format
- Data aligned with template
- Downloadable file

B. US20 – Print TD

As a user

I want to print the TD

So that it can be used operationally

6. EPIC 6 – Traceability & Audit

A. US21 – Track changes

As a system

I want to log all changes

So that compliance is ensured

- **Acceptance Criteria**
- Change log includes:
 - User
 - Date
 - Modified fields

B. US22 – Link TD to component history

As a CAMO user

I want to view TDs linked to a component

So that I can track its full history

7. EPIC 7 – Access Control

A. US23 – Restrict TD creation

As an Admin

I want to restrict TD creation to Engineering users

So that process integrity is maintained

B. US24 – Provide Stores access

As a Stores user

I want to access TDs

So that I can process them

8. EPIC 8 – UX / Usability

A. US25 – Dynamic form behavior

As a user

I want to see a dynamic form

So that data entry is simplified

- **Behavior:**
- Auto fields are read-only
- Dropdown fields clearly visible
- Manual fields editable

B. US26 – Identify TD type

As a user

I want to know if a TD is manual or automatic

So that I understand its origin