**Missile Warning System**

**System Requirement Specification**

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**History**

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| Ref-1 | Therma case.pdf | 1 |
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**Abbreviations**

|  |  |
| --- | --- |
| UR | User Requirement |
| FR | Functional Requirement |

# Scope

## Identification

This document describes a self protection suite for the F-16 combat aircraft used by the Royal Danish Air Force. The protection suite incorporates a pod for mounting under the left wing and an intelligent cockpit control unit for controlling the system. In the pod is mounted a Missile Warning System (MWS) which gives input to the cockpit control unit. From the cockpit control unit is the dispensing of flares and chaffs from the pod controlled. The solution shall provide warning upon detection of missile threats and be able to automatically dispense payloads in response.

The MWS will be provided as Government Furnished Equipment (GFE) and be physically installed by your company.

If there where more information about the system it should also be placed here, that could be information about which version and type of MWS system that shall be mounted.

This paragraph shall contain a full identification of the system to which this

document applies, including, as applicable, identification number(s), title(s), abbreviation(s),

version number(s), and release number(s).

## System overview

The system is a self protection suite for a F-16 combat aircraft , it shall protect the aircraft against missile attacks. The system consists of 2 main systems:

* Cockpit Unit, which communicate with the systems in the POD and Aircraft Mission Computer. Has also an interface to the aircraft intercom system and an interface for the user to control the system.
* POD, which holds magazines for flares and chaffs and what is needed for firing them of, plus the MWS system.



Missiles shall be detected by the MWS that are provided as a GFE equipment and mounted by Company F. When missile attacks are detected information is sent to the cockpit control unit, which depending on the mode it is in will react on the information and is able to react according to a number of programs by dispensing flares and chaffs according to the program chosen. By the interface to the aircraft intercom system audio cues and warnings can be provided.

The system has a number of different users depending on what is done and where:

* On ground the system can be maintained by technicians that update SW and control the system
* Ground personnel shall be able to mount it and when ready to takeoff arm it.
* The pilot shall use the system, by choosing an appropriate program and depending on program chosen do further to let it dispense when missile attacks are detected.
* After dispensing has happened maintenance has to be done again to fill up the magazines again with flares and chaffs.

Other relevant documents for this system are:

* Technical description of MWS system. Document number xxx
* Mechanical description of MWS system. Document number xxx
* User handbook of MWS system. Document number xxx

System overview. This paragraph shall briefly state the purpose of the system to which

this document applies. It shall describe the general nature of the system; summarize the history

of system development, operation, and maintenance; identify the project sponsor, acquirer, user,

developer, and support agencies; identify current and planned operating sites; and list other

relevant documents.

## Document overview

This document shall describe all the Systems Requirements for the Self Protection System for the F-16 combat aircraft and the development of the system shall be based on this document, when the system fulfil the requirements in this document the requirement of the Royal Danish Air Force is fulfilled.

This document must only be used in the project group by Company F and project group and other personal at The Royal Danish Air force that are cleared to have access to this project.

Document overview. This paragraph shall summarize the purpose and contents of this

document and shall describe any security or privacy considerations associated with its use.

# Referenced documents

* Terma case.pdf Document received from TERMA at IHA 3/9 2010.
* Terma case comments v1.pdf
* Terma case meeting 17 9 2010 at IHA v1.pdf
* Terma case questions and answers v1.pdf. Answers received at consultation meeting at IHA 17/9 2010 room 517.
* MIL standard 1600-2-9 v12.45 – POD design rules.

This section shall list the number, title, revision, and date of all

documents referenced in this specification. This section shall also identify the source for all

documents not available through normal Government stocking activities.

# Requirements

|  |  |
| --- | --- |
| **REQ ID** | **Requirement** |
| FR-1 |  |

## States and modes

## Functional requirements

## External interfaces

## Internal interfaces

## Design constraints

# Requirement traceability

|  |  |  |  |
| --- | --- | --- | --- |
| **REQ ID** | **Requirement (short)** | **Trace ID** | **Reference** |
| FR-1 |  | UR-1 |  |

# 3. Requirements.

This section shall be divided into the following paragraphs to specify the

system requirements, that is, those characteristics of the system that are conditions for its

acceptance. Each requirement shall be assigned a project-unique identifier to support testing

and traceability and shall be stated in such a way that an objective test can be defined for it.

Each requirement shall be annotated with associated qualification method(s) (see section 4) and,

for subsystems, traceability to system requirements (see section 5.a), if not provided in those

sections. The degree of detail to be provided shall be guided by the following rule: Include those

characteristics of the system that are conditions for system acceptance; defer to design

descriptions those characteristics that the acquirer is willing to leave up to the developer. If there

are no requirements in a given paragraph, the paragraph shall so state. If a given requirement

fits into more than one paragraph, it may be stated once and referenced from the other

paragraphs.

## 3.1 Required states and modes.

The system shall be able to work in 2 different states:

* Armed: In this state the system is able to react on information from the MWS system and depending on which mode it is set to by the pilot (Manuel, Semi automatic or automatic from UR 12 in TBD) it will react according to the mode. But for security reasons there shall also be a “plane on ground” mode, where firing of chaffs and flares are disabled.
* Disarmed: in this state it shall be impossible to fire flares or chaffs even though the MWS system of any reason gives a warning against missile attack. In this state shall it also be possible to update SW in the MWS and run different tests to make sure every part of the system report normal conditions or some information about things that are not correct.



Required states and modes. If the system is required to operate in more than one state

or mode having requirements distinct from other states or modes, this paragraph shall identify and

define each state and mode. Examples of states and modes include: idle, ready, active, postuse

analysis, training, degraded, emergency, backup, wartime, peacetime. The distinction

between states and modes is arbitrary. A system may be described in terms of states only,

modes only, states within modes, modes within states, or any other scheme that is useful. If no

states or modes are required, this paragraph shall so state, without the need to create artificial

distinctions. If states and/or modes are required, each requirement or group of requirements in

this specification shall be correlated to the states and modes. The correlation may be indicated

by a table or other method in this paragraph, in an appendix referenced from this paragraph, or

by annotation of the requirements in the paragraphs where they appear.

## 3.2 System capability requirements.

This paragraph shall be divided into subparagraphs to

itemize the requirements associated with each capability of the system. A "capability" is defined

as a group of related requirements. The word "capability" may be replaced with "function,"

"subject," "object," or other term useful for presenting the requirements.

### 3.2.x (System capability).

Beskriver blot lige nogle tanker om struktur

POD

* Dispensing
  + Dispense forward, sideways and downwars
  + Hardware safety interlock
  + osv
* Optimal coverage

Cockpit Control Unit

* Control Power for dispensing system and MWS
* Interface Aircraft intercom to provide audio cues and warnings.

This paragraph shall identify a required system capability and shall

itemize the requirements associated with the capability. If the capability can be more clearly

specified by dividing it into constituent capabilities, the constituent capabilities shall be specified

in subparagraphs. The requirements shall specify required behavior of the system and shall

include applicable parameters, such as response times, throughput times, other timing constraints,

sequencing, accuracy, capacities (how much/how many), priorities, continuous operation requirements,

and allowable deviations based on operating conditions. The requirements shall include,

as applicable, required behavior under unexpected, unallowed, or "out of bounds" conditions,

requirements for error handling, and any provisions to be incorporated into the system to provide

continuity of operations in the event of emergencies. Paragraph 3.3.x of this DID provides a list

of topics to be considered when specifying requirements regarding inputs the system must accept

and outputs it must produce.

## 3.3 System external interface requirements.

This paragraph shall be divided into subparagraphs

to specify the requirements, if any, for the system’s external interfaces. This paragraph

may reference one or more Interface Requirements Specifications (IRSs) or other documents

containing these requirements.

### 3.3.1 Interface identification and diagrams.

Oversigtstegning der viser de forskellige interfaces mellem Cockpit Control Unit og AMC samt Intercom. Skal interface i vingen mellem pod og kabler fra CCU’en beskrives her eller under interne interfaces??.

This paragraph shall identify the required external

interfaces of the system. The identification of each interface shall include a project-unique

identifier and shall designate the interfacing entities (systems, configuration items, users, etc.) by

name, number, version, and documentation references, as applicable. The identification shall

state which entities have fixed interface characteristics (and therefore impose interface

requirements on interfacing entities) and which are being developed or modified (thus having

interface requirements imposed on them). One or more interface diagrams shall be provided to

depict the interfaces.

### 3.3.x (Project-unique identifier of interface).

3.3.2 Beskrivelse af og krav til interface mellem CCU og AMC.

3.3.3 Beskrivelse af og krav til interface mellem CCU og Intercom.

This paragraph (beginning with 3.3.2) shall identify

a system external interface by project-unique identifier, shall briefly identify the interfacing entities,

and shall be divided into subparagraphs as needed to state the requirements imposed on the

system to achieve the interface. Interface characteristics of the other entities involved in the

interface shall be stated as assumptions or as "When [the entity not covered] does this, the

system shall...," not as requirements on the other entities. This paragraph may reference other

documents (such as data dictionaries, standards for communication protocols, and standards for

user interfaces) in place of stating the information here. The requirements shall include the

following, as applicable, presented in any order suited to the requirements, and shall note any

differences in these characteristics from the point of view of the interfacing entities (such as

different expectations about the size, frequency, or other characteristics of data elements):

a. Priority that the system must assign the interface

b. Requirements on the type of interface (such as real-time data transfer, storage-andretrieval

of data, etc.) to be implemented

c. Required characteristics of individual data elements that the system must provide, store,

send, access, receive, etc., such as:

1) Names/identifiers

a) Project-unique identifier

b) Non-technical (natural-language) name

c) DoD standard data element name

d) Technical name (e.g., variable or field name in code or database)

e) Abbreviation or synonymous names

2) Data type (alphanumeric, integer, etc.)

3) Size and format (such as length and punctuation of a character string)

4) Units of measurement (such as meters, dollars, nanoseconds)

5) Range or enumeration of possible values (such as 0-99)

6) Accuracy (how correct) and precision (number of significant digits)

7) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether

the data element may be updated and whether business rules apply

8) Security and privacy constraints

9) Sources (setting/sending entities) and recipients (using/receiving entities)

d. Required characteristics of data element assemblies (records, messages, files, arrays,

displays, reports, etc.) that the system must provide, store, send, access, receive, etc.,

such as:

1) Names/identifiers

a) Project-unique identifier

b) Non-technical (natural language) name

c) Technical name (e.g., record or data structure name in code or database)

d) Abbreviations or synonymous names

2) Data elements in the assembly and their structure (number, order, grouping)

3) Medium (such as disk) and structure of data elements/assemblies on the medium

4) Visual and auditory characteristics of displays and other outputs (such as colors,

layouts, fonts, icons and other display elements, beeps, lights)

5) Relationships among assemblies, such as sorting/access characteristics

6) Priority, timing, frequency, volume, sequencing, and other constraints, such as whether

the assembly may be updated and whether business rules apply

7) Security and privacy constraints

8) Sources (setting/sending entities) and recipients (using/receiving entities)

e. Required characteristics of communication methods that the system must use for the

interface, such as:

1) Project-unique identifier(s)

2) Communication links/bands/frequencies/media and their characteristics

3) Message formatting

4) Flow control (such as sequence numbering and buffer allocation)

5) Data transfer rate, whether periodic/aperiodic, and interval between transfers

6) Routing, addressing, and naming conventions

7) Transmission services, including priority and grade

8) Safety/security/privacy considerations, such as encryption, user authentication,

compartmentalization, and auditing

f. Required characteristics of protocols the system must use for the interface, such as:

1) Project-unique identifier(s)

2) Priority/layer of the protocol

3) Packeting, including fragmentation and reassembly, routing, and addressing

4) Legality checks, error control, and recovery procedures

5) Synchronization, including connection establishment, maintenance, termination

6) Status, identification, and any other reporting features

g. Other required characteristics, such as physical compatibility of the interfacing entities

(dimensions, tolerances, loads, plug compatibility, etc.), voltages, etc.

## 3.4 System internal interface requirements.

Oversigttegning der viser interfaces mellem CCU og MWS/ECU, samt CCU og DSS’er.

This paragraph shall specify the requirements,

if any, imposed on interfaces internal to the system. If all internal interfaces are left to the design

or to requirement specifications for system components, this fact shall be so stated. If such

requirements are to be imposed, paragraph 3.3 of this DID provides a list of topics to be

considered.

## 3.5 System internal data requirements.

Interface CCU og MWS/ECU.

Interface CCU og DSS’er.

This paragraph shall specify the requirements, if any,

imposed on data internal to the system. Included shall be requirements, if any, on databases and

data files to be included in the system. If all decisions about internal data are left to the design

or to requirements specifications for system components, this fact shall be so stated. If such

requirements are to be imposed, paragraphs 3.3.x.c and 3.3.x.d of this DID provide a list of topics

to be considered.

## 3.6 Adaptation requirements.

Ikke relevant for os

This paragraph shall specify the requirements, if any,

concerning installation-dependent data that the system is required to provide (such as sitedependent

latitude and longitude or site-dependent state tax codes) and operational parameters

that the system is required to use that may vary according to operational needs (such as

parameters indicating operation-dependent targeting constants or data recording).

## 3.7 Safety requirements.

Vi har ikke fået sådanne krav fra Terma.

This paragraph shall specify the system requirements, if any,

concerned with preventing or minimizing unintended hazards to personnel, property, and the

physical environment. Examples include restricting the use of dangerous materials; classifying

explosives for purposes of shipping, handling, and storing; abort/escape provisions from

enclosures; gas detection and warning devices; grounding of electrical systems; decontamination;

and explosion proofing. This paragraph shall include the system requirements, if any, for nuclear

components, including, as applicable, requirements for component design, prevention of

inadvertent detonation, and compliance with nuclear safety rules.

## 3.8 Security and privacy requirements.

Krav og beskrivelse af zeroize signal/mulighed.

This paragraph shall specify the system requirements,

if any, concerned with maintaining security and privacy. The requirements shall include, as

applicable, the security/privacy environment in which the system must operate, the type and

degree of security or privacy to be provided, the security/privacy risks the system must withstand,

required safeguards to reduce those risks, the security/privacy policy that must be met, the

security/privacy accountability the system must provide, and the criteria that must be met for

security/privacy certification/accreditation.

## 3.9 System environment requirements.

Temperatur

G-påvirkninger

This paragraph shall specify the requirements, if any,

regarding the environment in which the system must operate. Examples for a software system

are the computer hardware and operating system on which the software must run. (Additional

requirements concerning computer resources are given in the next paragraph). Examples for a

hardware-software system include the environmental conditions that the system must withstand

during transportation, storage, and operation, such as conditions in the natural environment (wind,

rain, temperature, geographic location), the induced environment (motion, shock, noise,

electromagnetic radiation), and environments due to enemy action (explosions, radiation).

## 3.10 Computer resource requirements.

This paragraph shall be divided into the following

subparagraphs. Depending upon the nature of the system, the computer resources covered in

these subparagraphs may constitute the environment of the system (as for a software system)

or components of the system (as for a hardware-software system).

### 3.10.1 Computer hardware requirements.

This paragraph shall specify the requirements, if any,

regarding computer hardware that must be used by, or incorporated into, the system. The

requirements shall include, as applicable, number of each type of equipment, type, size, capacity,

and other required characteristics of processors, memory, input/output devices, auxiliary storage,

communications/network equipment, and other required equipment.

### 3.10.2 Computer hardware resource utilization requirements.

This paragraph shall specify the

requirements, if any, on the system’s computer hardware resource utilization, such as maximum

allowable use of processor capacity, memory capacity, input/output device capacity, auxiliary

storage device capacity, and communications/network equipment capacity. The requirements

(stated, for example, as percentages of the capacity of each computer hardware resource) shall

include the conditions, if any, under which the resource utilization is to be measured.

### 3.10.3 Computer software requirements.

This paragraph shall specify the requirements, if any,

regarding computer software that must be used by, or incorporated into, the system. Examples

include operating systems, database management systems, communications/network software,

utility software, input and equipment simulators, test software, and manufacturing software. The

correct nomenclature, version, and documentation references of each such software item shall

be provided.

### 3.10.4 Computer communications requirements.

This paragraph shall specify the additional

requirements, if any, concerning the computer communications that must be used by, or

incorporated into, the system. Examples include geographic locations to be linked; configuration

and network topology; transmission techniques; data transfer rates; gateways; required system

use times; type and volume of data to be transmitted/received; time boundaries for transmission/

reception/response; peak volumes of data; and diagnostic features.

## 3.11 System quality factors.

This paragraph shall specify the requirements, if any, pertaining

to system quality factors. Examples include quantitative requirements concerning system

functionality (the ability to perform all required functions), reliability (the ability to perform with

correct, consistent results -- such as mean time between failure for equipment), maintainability

(the ability to be easily serviced, repaired, or corrected), availability (the ability to be accessed and

operated when needed), flexibility (the ability to be easily adapted to changing requirements),

portability of software (the ability to be easily modified for a new environment), reusability (the

ability to be used in multiple applications), testability (the ability to be easily and thoroughly

tested), usability (the ability to be easily learned and used), and other attributes.

## 3.12 Design and construction constraints.

Weight.

Mounting (Under left wing, T-hooks 13” osv.)

Use of MWS provided as GFE

This paragraph shall specify the requirements, if any,

that constrain the design and construction of the system. For hardware-software systems, this

paragraph shall include the physical requirements imposed on the system. These requirements

may be specified by reference to appropriate commercial or military standards and specifications.

Examples include requirements concerning:

a. Use of a particular system architecture or requirements on the architecture, such as

required subsystems; use of standard, military, or existing components; or use of

Government/acquirer-furnished property (equipment, information, or software)

b. Use of particular design or construction standards; use of particular data standards; use

of a particular programming language; workmanship requirements and production

techniques

c. Physical characteristics of the system (such as weight limits, dimensional limits, color,

protective coatings); interchangeability of parts; ability to be transported from one location

to another; ability to be carried or set up by one, or a given number of, persons

d. Materials that can and cannot be used; requirements on the handling of toxic materials;

limits on the electromagnetic radiation that the system is permitted to generate

e. Use of nameplates, part marking, serial and lot number marking, and other identifying

markings

f. Flexibility and expandability that must be provided to support anticipated areas of growth

or changes in technology, threat, or mission

## 3.13 Personnel-related requirements.

This paragraph shall specify the system requirements,

if any, included to accommodate the number, skill levels, duty cycles, training needs, or other

information about the personnel who will use or support the system. Examples include

requirements for the number of work stations to be provided and for built-in help and training

features. Also included shall be the human factors engineering requirements, if any, imposed on

the system. These requirements shall include, as applicable, considerations for the capabilities

and limitations of humans, foreseeable human errors under both normal and extreme conditions,

and specific areas where the effects of human error would be particularly serious. Examples

include requirements for adjustable-height work stations, color and duration of error messages,

physical placement of critical indicators or buttons, and use of auditory signals.

## 3.14 Training-related requirements.

This paragraph shall specify the system requirements, if

any, pertaining to training. Examples include training devices and training materials to be

included in the system.

## 3.15 Logistics-related requirements.

This paragraph shall specify the system requirements, if

any, concerned with logistics considerations. These considerations may include: system

maintenance, software support, system transportation modes, supply-system requirements, impact

on existing facilities, and impact on existing equipment.

## 3.16 Other requirements.

This paragraph shall specify additional system requirements, if any,

not covered in the previous paragraphs. Examples include requirements for system documentation,

such as specifications, drawings, technical manuals, test plans and procedures, and

installation instruction data, if not covered in other contractual documents.

## 3.17 Packaging requirements.

This section shall specify the requirements, if any, for

packaging, labeling, and handling the system and its components for delivery. Applicable military

specifications and standards may be referenced if appropriate.

## 3.18 Precedence and criticality of requirements.

This paragraph shall specify, if applicable, the

order of precedence, criticality, or assigned weights indicating the relative importance of the

requirements in this specification. Examples include identifying those requirements deemed

critical to safety, to security, or to privacy for purposes of singling them out for special treatment.

If all requirements have equal weight, this paragraph shall so state.

# 4. Qualification provisions.

Her skal vi lægge vores informationer om hvordan vi vil teste/vise at de forskellige requirements er opfyldt.

|  |  |  |
| --- | --- | --- |
| Requirement # | Qualification method |  |
| FR-1 | Test by….. |  |
| FR-? | Analysis that shows that….. |  |

This section shall define a set of qualification methods and shall

specify for each requirement in Section 3 the method(s) to be used to ensure that the requirement

has been met. A table may be used to present this information, or each requirement in Section

3 may be annotated with the method(s) to be used. Qualification methods may include:

a. Demonstration: The operation of the system, or a part of the system, that relies on

observable functional operation not requiring the use of instrumentation, special test

equipment, or subsequent analysis.

b. Test: The operation of the system, or a part of the system, using instrumentation or other

special test equipment to collect data for later analysis.

c. Analysis: The processing of accumulated data obtained from other qualification methods.

Examples are reduction, interpolation, or extrapolation of test results.

d. Inspection: The visual examination of system components, documentation, etc.

e. Special qualification methods. Any special qualification methods for the system, such as

special tools, techniques, procedures, facilities, acceptance limits, use of standard

samples, preproduction or periodic production samples, pilot models, or pilot lots.

# 5. Requirements traceability.

Her skal vi lægge vores matrix ind for den ene vej og den anden vej eller henvise til hvor det findes.

|  |  |  |  |
| --- | --- | --- | --- |
| **REQ ID** | **Requirement (short)** | **Trace ID** | **Reference** |
| FR-1 |  | UR-1 |  |

For system-level specifications, this paragraph does not apply.

For subsystem-level specifications, this paragraph shall contain:

a. Traceability from each subsystem requirement in this specification to the system

requirements it addresses. (Alternatively, this traceability may be provided by annotating

each requirement in Section 3.)

Note: Each level of system refinement may result in requirements not directly traceable

to higher-level requirements. For example, a system architectural design that creates two

subsystems may result in requirements about how the subsystems will interface, even

though these interfaces are not covered in system requirements. Such requirements may

be traced to a general requirement such as "system implementation" or to the system

design decisions that resulted in their generation.

b. Traceability from each system requirement that has been allocated to the subsystem

covered by this specification to the subsystem requirements that address it. All system

requirements allocated to the subsystem shall be accounted for. Those that trace to

subsystem requirements contained in Interface Requirements Specifications (IRSs) shall

reference those IRSs.

# 6. Notes.

Alle forkortelser osv.

This section shall contain any general information that aids in understanding this

document (e.g., background information, glossary, rationale). This section shall contain an

alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document

and a list of any terms and definitions needed to understand this document.

# A. Appendixes.

Appendix A:

Her kan Terma Case RTM.XLS placers.

Appendixes may be used to provide information published separately for

convenience in document maintenance (e.g., charts, classified data). As applicable, each

appendix shall be referenced in the main body of the document where the data would normally

have been provided. Appendixes may be bound as separate documents for ease in handling.

Appendixes shall be lettered alphabetically (A, B, etc.).