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**Software Requirements specification**

**For**

**[Project Name]**

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**VERSION [X.X]**

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**Software REQUIREMENTS SPECIFICATION**

**For The**

**<Project Name>**

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# Scope

This section identifies the system and software for which requirements are provided, includes an overview of the system, as well as an overview of document contents.

## Identification

[*This paragraph shall contain a full identification of the system and the Computer Software Configuration Item(s) (CSCI) to which this document applies, including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s). This template conforms to DI-IPSC-81433A. The format allows for the software requirements of large, complex systems to be captured across multiple documents {e.g., one Software Requirements Specification (SRS) per (CSCI), a separate Interface Requirements Specification (IRS)} or all software requirements of small, less complex systems captured within one SRS.*]

Body text

## System Overview

[*This paragraph shall briefly state the purpose of the system and the software to which this document applies. It shall describe the general nature of the system and software; 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.*]

Figure 1-1 shows the System Architecture.

Figure 1-1 System Architecture

## Document Overview

This document is organized into the following sections:

* Section 1 defines the purpose of the SRS, a summary of its contents, and provides a brief overview of the system
* Section 2 lists all documents referenced by this SRS
* Section 3 identifies all of the requirements for the CSCI(s) identified in Section 1.1 of this document
* Section 4 identifies the specific qualification methods used to verify the software requirements in this document
* Section 5 discusses the traceability of software requirements in this document to parent requirements
* Section 6 contains a list of acronyms used in this document and their definitions

# Referenced Documents

Table 2-1 contains a list of documents that are referenced within this document.

Table 2-1 Referenced Documents

| Document Number | Document Title | Revision | Date |
| --- | --- | --- | --- |
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# REQUIREMENTS

[*This section shall be divided into the following paragraphs to specify the CSCI requirements, that is, those characteristics of the CSCI(s) that are conditions for its acceptance, as well as the system-level requirements from which CSCI requirements are sourced. CSCI requirements are software requirements generated to satisfy the system requirements allocated to each CSCI. 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 traceability to source requirements (see section 5) 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 CSCI that are conditions for CSCI 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 may be deleted. If a given requirement fits into more than one paragraph, it may be stated once and referenced from the other paragraphs.*]

This section defines the [xxx] CSCI requirements.

## Required States and Modes

[*This paragraph shall be divided into subparagraphs to identify and define each state and mode if the CSCI(s) are required to operate in more than one state or mode having requirements distinct from other states or modes.* This paragraph and its subparagraphs may be deleted if there are no required states or modes. *Examples of states and modes include: idle, ready, active, post-use analysis, training, degraded, emergency, backup, wartime, peacetime. The distinction between states and modes is arbitrary. A CSCI may be described in terms of states only, modes only, states within modes, modes within states, or any other scheme that is useful.*

The component states are illustrated in Figure 3-1.

Figure 3-1 Component States and Transitions

### (Component State 1)

Body text

### (Component State n)

Body text

## CSCI Capability Requirements

[*This paragraph shall be divided into subparagraphs to itemize the requirements associated with each capability of each CSCI. 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.*]

The following paragraphs identify the software requirements (or user stories), grouped by capability (or user function).

Table 3-1 describes the system-level requirements, epics or user stories from which the software requirements are sourced.

Table 3-1 Source [xxx] System Requirements

| **Rqmt ID** | **Description** | **Acceptance Criteria** | **Target Release** |
| --- | --- | --- | --- |
|  |  |  |  |
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|  |  |  |  |

### ([xxx] CSCI Capability 1)

[*This paragraph shall identify a required CSCI capability and shall itemize the requirements associated with the capability. The requirements shall specify required behavior of the CSCI(s) 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, or "out of bounds" conditions, requirements for error handling, and any provisions to be incorporated into the CSCI(s) to provide continuity of operations in the event of emergencies.*]

Table 3-2 describes the ([xxx] CSCI Capability 1) requirements and assigned qualification method.

Table 3-2 ([xxx] CSCI Capability 1) Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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|  |  |  |
|  |  |  |

### ([xxx] CSCI Capability n)

[*Additional CSCI information.*]

Table 3-3 describes the ([xxx] CSCI Capability n) requirements and assigned qualification method.

Table 3-3 ([xxx] CSCI Capability n) Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
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## CSCI External Interface Requirements

[*This paragraph shall include one or more diagrams depicting the CSCIs’ external interfaces and specify the requirements for the CSCIs’ external interfaces (in one or more tables), as applicable. This paragraph may reference one or more IRSs or other documents containing these requirements.* This paragraph and its subparagraphs may be deleted if there are no CSCI external interface requirements.]

### Interface Identification and Diagrams

[*This paragraph shall identify the required external interfaces of the CSCIs (that is, relationships with other entities that involve sharing, providing or exchanging data). The identification of each interface shall include a project-unique identifier and shall designate the interfacing entities (systems, configuration items, users, etc.), 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).*]

The [xxx] CSCI interacts with [#] external entities in the [system name] as depicted in Figure 3-2.

Figure 3-2 [xxx] CSCI External Interfaces

Table 3-4 lists all of the external interfaces of the [xxx] CSCI.

Table 3-4 [xxx] CSCI External Interfaces

| **ID** | **Interface Name** | **External Interface Entity** | **Fixed / Developmental Interface** |
| --- | --- | --- | --- |
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### (Project-Unique Identifier or Interface)

[*This paragraph (beginning with 3.3.2) shall identify a CSCI external interface by project-unique identifier, shall briefly identify the interfacing entities, and shall state the requirements imposed on the CSCI 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 CSCI 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.*]

Table 3-5 describes the ([xxx] CSCI External Interface [yyy]) requirements and assigned qualification method.

Table 3-5 ([xxx] CSCI External Interface [yyy]) Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
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## CSCI Internal Interface Requirements

[*This paragraph shall include one or more diagrams depicting the CSCIs’ internal interfaces and specify the requirements imposed on interfaces internal to the CSCIs, as applicable. If all internal interfaces are left to the design, this fact shall be so stated. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no CSCI internal interface requirements.]

The [xxx] CSCI internal interfaces are depicted in Figure 3-3.

Figure 3-3 [xxx] CSCI Internal Interfaces

Table 3-6 describes the ([xxx] CSCI Internal Interface [yyy]) requirements and assigned qualification method.

Table 3-6 ([xxx] CSCI Internal Interface [yyy]) Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
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## CSCI Internal Data Requirements

[*This paragraph shall specify the requirements imposed on data internal to the CSCI(s), as applicable. Included shall be requirements on databases and data files to be included in the CSCI(s). If all decisions about internal data are left to the design, this fact shall be so stated. If such requirements are to be imposed, Sections 3.3.1 and 3.3.2 of this document provide a list of topics to be considered. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no internal data requirements.]

Table 3-7 describes the [xxx] CSCI internal data requirements and assigned qualification method.

Table 3-7 [xxx] CSCI Internal Data Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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## Adaptation Requirements

[*This paragraph shall specify the requirements concerning installation-dependent data to be provided by the CSCI(s) (such as site-dependent latitude and longitude or site-dependent state tax codes) and operational parameters that the CSCI(s) are required to use that may vary according to operational needs (such as parameters indicating operation-dependent targeting constants or data recording), as applicable. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no adaptation requirements.]

Table 3-8 describes the [xxx] CSCI adaptation requirements and assigned qualification method.

Table 3-8 [xxx] CSCI Adaptation Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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## Safety Requirements

[*This paragraph shall specify the CSCI requirements concerned with preventing or minimizing unintended hazards to personnel, property, and the physical environment, as applicable. Examples include safeguards the CSCI(s) must provide to prevent inadvertent actions (such as accidentally issuing an "auto pilot off" command) and non-actions (such as failure to issue an intended "auto pilot off" command). This paragraph shall include the CSCI requirements, as applicable, regarding nuclear components of the system, including, as applicable, prevention of inadvertent detonation and compliance with nuclear safety rules. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no safety requirements.]

Table 3-9 describes the [xxx] CSCI safety requirements and assigned qualification method.

Table 3-9 [xxx] CSCI Safety Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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## Security and Privacy Requirements

[*This paragraph shall specify the CSCI requirements concerned with maintaining security and privacy. These requirements shall include, as applicable, the security/privacy environment in which the CSCI(s) must operate, the type and degree of security or privacy to be provided, the security/privacy risks the CSCI(s) must withstand, required safeguards to reduce those risks, the security/privacy policy that must be met, the security/privacy accountability the CSCI(s) must provide, and the criteria that must be met for security/privacy certification/accreditation. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no security and privacy requirements.]

Table 3-10 describes the [xxx] CSCI security and privacy requirements and assigned qualification method.

Table 3-10 [xxx] CSCI Security and Privacy Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
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## CSCI Environment Requirements

[*This paragraph shall specify the requirements regarding the environment in which the CSCI(s) must operate, as applicable. Examples include the computer hardware and operating system on which the CSCI(s) must run. (Additional requirements concerning computer resources are given in the next paragraph.) Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no CSCI environment requirements.]

Table 3-11 describes the [xxx] CSCI environment requirements and assigned qualification method.

Table 3-11 [xxx] CSCI Environment Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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## Computer Resource Requirements

[*This paragraph shall be divided into the following subparagraphs. If there are no computer resource requirements, this paragraph and its subparagraphs may be deleted.*]

### Computer Hardware Requirements

[*This paragraph shall specify the requirements regarding computer hardware that must be used by the CSCI(s). 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. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no computer hardware requirements.]

Table 3-12 describes the [xxx] CSCI computer hardware requirements and assigned qualification method.

Table 3-12 [xxx] CSCI Computer Hardware Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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### Computer Hardware Resource Utilization Requirements

[*This paragraph shall specify the requirements, as applicable, on the CSCIs’ 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 under which the resource utilization is to be measured, as applicable. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no computer hardware resource utilization requirements.]

Table 3-13 describes the [xxx] CSCI computer hardware resource utilization requirements and assigned qualification method.

Table 3-13 [xxx] CSCI Computer Hardware Resource Utilization Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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### Computer Software Requirements

[*This paragraph shall specify the requirements regarding computer software that must be used by, or incorporated into, the CSCI(s), as applicable. 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. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no computer software requirements used by or incorporated into the CSCI(s).]

Table 3-14 describes the [xxx] CSCI computer software requirements and assigned qualification method.

Table 3-14 [xxx] CSCI Computer Software Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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### Computer Communications Requirements

[*This paragraph shall specify the additional requirements concerning the computer communications that must be used by the CSCI(s), as applicable. 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. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no computer communications requirements.]

Table 3-15 describes the [xxx] CSCI computer communications requirements and assigned qualification method.

Table 3-15 [xxx] CSCI Computer Communications Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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## Software Quality Factors

[*This paragraph shall specify the CSCI requirements concerned with software quality factors identified in the contract or derived from a higher level specification, as applicable. Examples include quantitative requirements regarding CSCI functionality (the ability to perform all required functions), reliability (the ability to perform with correct, consistent results), maintainability (the ability to be easily corrected), availability (the ability to be accessed and operated when needed), flexibility (the ability to be easily adapted to changing requirements), portability (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. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no identified or derived software quality factors.]

Table 3-16 describes the [xxx] CSCI software quality factors and assigned qualification method.

Table 3-16 [xxx] CSCI Software Quality Factors

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
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## Design and Implementation Constraints

[*This paragraph shall specify the requirements that constrain the design and implementation of the CSCI(s), as applicable. These requirements may be specified by reference to appropriate commercial or military standards and specifications. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no design and implementation constraints.]

Table 3-17 describes the [xxx] CSCI design and implementation constraints and assigned qualification method.

Table 3-17 [xxx] CSCI Design and Implementation Constraints

| **Rqmt ID** | **Description** | **Qualification Method** |
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## Personnel-Related Requirements

[*This paragraph shall specify the CSCI requirements included to accommodate the number, skill levels, duty cycles, training needs, or other information about the personnel who will use or support the CSCI(s), as applicable. Examples include requirements for number of simultaneous users and for built-in help or training features. Also included shall be the human factors engineering requirements imposed on the CSCI(s), as applicable. 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 color and duration of error messages, physical placement of critical indicators or keys, and use of auditory signals. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no personnel-related requirements.]

Table 3-18 describes the [xxx] CSCI personnel requirements and assigned qualification method.

Table 3-18 [xxx] CSCI Personnel Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

## Training-Related Requirements

[*This paragraph shall specify the CSCI requirements pertaining to training, as applicable. Examples include training software to be included in the CSCI(s). Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no training-related requirements.]

Table 3-19 describes the [xxx] CSCI training requirements and assigned qualification method.

Table 3-19 [xxx] CSCI Training Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

## Logistics-Related Requirements

[*This paragraph shall specify the CSCI requirements concerned with logistics considerations, as applicable. These considerations may include: system maintenance, software support, system transportation modes, supply-system requirements, impact on existing facilities, and impact on existing equipment. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no logistics-related requirements.]

Table 3-20 describes the [xxx] CSCI logistics requirements and assigned qualification method.

Table 3-20 [xxx] CSCI Logistics Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

## Other Requirements

[*This paragraph shall specify additional CSCI requirements not covered in the previous paragraphs. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no additional requirements not covered in previous paragraphs.]

Table 3-21 describes the [xxx] CSCI other requirements and assigned qualification method.

Table 3-21 [xxx] CSCI Other Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

## Packaging Requirements

[*This section shall specify the requirements, as applicable, for packaging, labeling, and handling the CSCI(s) for delivery (for example, delivery on media labeled and packaged in a certain way). Applicable military specifications and standards may be referenced if appropriate. Subparagraphs may be added when multiple CSCIs are included in one SRS.* This paragraph may be deleted if there are no packaging requirements.]

Table 3-22 describes the [xxx] CSCI packaging requirements and assigned qualification method.

Table 3-22 [xxx] CSCI Packaging Requirements

| **Rqmt ID** | **Description** | **Qualification Method** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

## Precedence and Criticality of Requirements

[*This paragraph shall specify, as 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. Subparagraphs may be added when multiple CSCIs are included in one SRS. If all requirements have equal weight, this paragraph may be deleted.*]

Table 3-23 describes the precedence and criticality of [xxx] CSCI requirements.

Table 3-23 Precedence and Criticality of [xxx] CSCI Requirements

| **Rqmt ID** | **Description** | **Precedence/Criticality** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

# QUALIFICATION PROVISIONS

Each requirement in Section 3 has been annotated with one or more qualification methods.

# REQUIREMENTS TRACEABILITY

Requirements traceability from each CSCI requirement in this specification to the source requirement is maintained in [state separate RTM document or requirements management tool].

# Acronyms

|  |  |
| --- | --- |
| Acronym | Definition |
| CSCI | Computer Software Configuration Item |
| DID | Data Item Description |
| IRS | Interface Requirements Specification |
| SRS | Software Requirements Specification |
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