

Req. Nr.	Overall System Requirements
1	Provide a distributed repository for approved M&S resources
2	Provide members of the M&S community with a facility to electronically register users with the MSRR Registrar
3	Provide members of the M&S community with a facility to electronically search for resources in the repository
4	Provide members of the M&S community with a facility to electronically navigate among MSRR sites
5	Provide members of the M&S community with a facility to electronically review resources among MSRR sites
6	Provide members of the M&S community with a facility to electronically retain an MSRR identity among MSRR sites
7	Provide members of the M&S community with a facility to electronically access M&S resources stored on the MSRR or on sites external to the MSRR
8	Provide members of the M&S community with a facility to electronically order M&S resources from resource providers
9	Provide tools for browsing M&S resources
10	Facilitate and foster communications within the M&S community
11	The MSRR will operate continuously
12	Unregistered users may only access public areas. Public areas are defined as those areas which contain information readily available to the public at large
13	MSRR users working from unclassified terminals will access the Unclassified MSRR (UMSRR) through the INTERNET
14	The MSRR users working from classified terminals will access the Classified MSRR (CMSRR) through the SIPRNET
15	Provide the varying levels of access to its resources based on release criteria established by the resource providers
16	Provide resource providers with a facility to electronically nominate M&S resources
17	Provide a facility to electronically authenticate users
18	Provide a facility to electronically authorize appropriate access to authenticated users
19	Provide a means to contact the resource provider

20	Track resource usage
21	Provide on-line access to all published MSRR procedures and supporting documentation
22	Provide the capability of administering a distributed repository from a central site
23	Provide users with a facility to electronically order M&S resources from resource providers
24	Facilitate the use of toolset specific user profiles
25	The Classified MSRR will be capable of employing SIPRNET domain name information and directory services
26	The Unclassified MSRR will be capable of employing Internet domain name information and directory services
27	Support the use of HTTP client/server communications
28	Collect and maintain data on system access and use
29	Create and maintain a current list of active MSRR resource nodes and resource provider nodes
30	The Unclassified MSRR is to provide members of the M&S community with a facility to electronically protect sensitive but unclassified (SBU) data
31	Access to MSRR resources will be controlled in accordance with releasability (e.g., security) policies established by the resource providers
32	The MSRR will comply with the National Industrial Security Program Operating Manual (NISPOM) policies
33	Users will be revalidated at 18 month intervals for re-registration
34	The MSRR system architecture will allow the integration of legacy repositories into the MSRR

Req. Nr.	Discovery Subsystem Requirements
1	Provide a facility to ascertain and identify information resources across a distributed repository.
2	Provide an electronic key word search, structured database queries, freeform text search, and routine browsing facility.
3	The Resource Discovery Subsystem will not support circumvention of MSRR security functions.
4	The Resource Discovery Subsystem will discover only those resources hosted within the user's current security classification and access domains.
5	The Resource Discovery Subsystem will operate within an HTTP client/server environment.
6	The Resource Discovery Subsystem will provide the capability to define resource searches based on resource content. Searchable resources may include on-line documents, on-line information sources, and user posted information.
7	The Resource Discovery Subsystem will provide the capability to define resource searches based on resource metadata.
8	The Resource Discovery Subsystem will allow the user to review search results on-line.
9	The resource Discovery Subsystem will allow the user to create Boolean searches using the following operators:
10	Free text searches will provide a ranking of results weighted by relevancy to the search.
11	In the absence of ranking, search results will be listed alphabetically.
12	The Discovery Subsystem will provide the user with the choice of hits that will be displayed on the monitor.
13	Summary information will be provided along with the pointer and POC information for each search hit.

Req. Nr.	Delivery Subsystem Requirements
1	The MSRR Resource Delivery Subsystem will provide an electronic means of access to and delivery of distributed resources for review
2	The CMSRR Resource Delivery Subsystem will provide an electronic means that provides usage of distributed resources
3	The MSRR Resource Delivery Subsystem will provide an electronic means for recording accessing of resources
4	The MSRR Resource Delivery Subsystem will work in concert with the Security Subsystem to ensure proper access to resources based on local release policies
5	The MSRR Resource Delivery Subsystem will provide an electronic means of control for providing centralized configuration management of all MSRR system components
6	The UMSRR Resource Delivery Subsystem will use a computer network architecture that employs standard Internet practices
7	The Resource Delivery Subsystem will facilitate the delivery of cross linked resources to the users
8	The Resource Delivery Subsystem will facilitate electronic communication with resource Point of Contact

Req. Nr.	Registration Subsystem Requirements
1	The Registration Subsystem will support electronic collection of information identifying the user, the user's sponsor, and justification for granting registration status
2	The Registration Subsystem will support status notification via electronic notification to the user who requested registration
3	The Registration Subsystem will support dispositioning a user registration request
4	The Registration Subsystem will request validation of user requested password from the A&A Subsystem
5	The Registration Subsystem will request validation of user requested username uniqueness from the A&A Subsystem
6	The Registration Subsystem will support maintaining user information required by the A&A Subsystem
7	The Registration Subsystem will support maintaining user information for the MSRR Registrar
8	The Registration Subsystem will notify the registered user via electronic notification whenever user information is changed
9	The Registration Subsystem will support the creation and maintenance of user access groups
10	The Registration Subsystem will inform the user of the guidelines and policy established for MSRR registered users and record their acceptance
11	The Registration Subsystem will support electronic collection of the resource quality profile, capturing Organization Identification, access permissions and/or restrictions, usage constraints and keyword assignments
12	The Registration Subsystem will support maintaining the quality profile, Organization categorization, resource reference cross links, access permissions, usage constraints and keywords by Registrar
13	The Registration Subsystem will support the cataloging of Modeling and Simulation resources; including but not limited to, Models, Simulations, Algorithms, Data Sources, Documents, Tools, Simulation Centers, and Events
14	The Registration Subsystem will support access group creation, definition and maintenance
15	The Registration Subsystem will support resource nomination status notification via electronic notification to the resource provider

16	The Registration Subsystem will notify via electronic notification, the assigned Organization Resource Coordinator and the MSRR Registrar, upon resource nomination
17	The Registration Subsystem will notify the resource coordinator and resource provider via electronic notification whenever the resource entry is changed
18	The Registration Subsystem will notify resource provider of the guidelines and policies established for MSRR registered resources and record acceptance
19	The Registration Subsystem will notify the Security Subsystem whenever a nominated resource is approved or access constraints altered
20	The Registration Subsystem will support the creation and maintenance of resource coordinator assignments
21	The Registration Subsystem will support the creation, maintenance and association of resource keywords
22	The Registration Subsystem will support the maintenance of cross-links between resources

Req. Nr.	Security Subsystem Requirements
1	Authentication information will be collected as part of the user registration process
2	Authorization information will be collected as part of the resource registration process
3	The Security Subsystem will enforce resource release policies of the Resource Provider
4	The Security Subsystem will provide a mechanism for maintaining logs for intrusion and audit control
5	The Security Subsystem function will operate within the HTTP environment
6	The Security Subsystem will have the capability of being administratively controlled from a central site
7	The Security Subsystem function will allow single log on and maintain persistent identity for access to all MSRR protected resources
8	The Security Subsystem will ensure that MSRR users are notified of impending expiration of their user account
9	The Security Subsystem will facilitate electronic notification to the MSRR users of proper authorities for resource access
10	The Security Subsystem will provide security services across multiple repositories, using a common access list
11	The Security Subsystem will include a Security Subsystem status and monitoring function, ensuring that nodes in a multiple repository configuration remain in communications, that all access control lists are sent and received for, and