

Object Identifier	Joint Mission Planning System User Requirements Database	Task Description
URDB-16	1 Tasking	The summary task for the receipt, processing and generation of mission tasking.
URDB-22	1.1 Receive and process tasking	Receive and process tasking that initiates the follow-on mission planning.
URDB-82	1.1.1 Create concept plan	The user needs to be able to quickly put together a simple, conceptual plan based on the initial tasking received.
URDB-83	1.1.2 Create initial task assignments	The user will assign various tasks to be completed to other members of the planning team. These tasks will then be electronically distributed to these members along with the information necessary for completion.
URDB-153	1.1.2.1 Aircraft readiness and weapon inventory	Determine the general aircraft constraints that need to be considered in the mission concept plan.
URDB-84	1.1.3 Create initial timeline	The mission planner needs the administrative ability to lay out mission planning tasks against a known timeline. This allows all members of the planning team to check the status of their work against a master timeline.
URDB-154	1.1.4 Define mission objectives	Clearly define the actual objectives of the assigned mission based on the original tasking message, commander's intent, etc.
URDB-85	1.1.5 Identify planning teams	Identify the members of the mission planning team and assign roles on the team.
URDB-86	1.1.6 Parse or forward tasking to COG players	Once planning teams have been identified, all elements of the mission tasking order are then electronically parsed or forwarded to the appropriate planning members.
URDB-87	1.1.7 Receive ROE	Generate any rules of engagement required for mission execution that have not previously been determined, including Joint Restricted Frequency List.
URDB-2389	1.1.8 Validate tasking	Query and confirm with tasking authorities when the validity or clarity of the objectives, effectiveness, or suitability of tasking is not certain.
URDB-23	1.2 Generate tasking	Generate any additional tasking required to accomplish mission objectives.

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URDB-88	1.2.1 Generate/modify contingency tasking	Well prior to mission tasking, prepare for anticipated missions by issuing tasking appropriate to the anticipated mission. Generally, contingency mission plans form the pre-planned foundation or starting point for mission planning when specific mission tasking is received.
URDB-89	1.2.2 Generate local force tasking	Generate any additional tasking for assets under local commander's control required to accomplish mission objectives.
URDB-2390	1.2.3 Generate ROE	Generate ROE for own element and operational subordinates participating in the mission. Refine ROE provided by higher authority for a specific mission. Generate spins to insure ROE are followed.
URDB-19	2 Data collection and analysis	Overall data preparation prior to planning ensure that as much relevant information is pre-positioned for use in all phases of mission planning, or obtained as required.
URDB-27	2.1 Perform source data collection	Referencing data sources, populate the mission planning folder(s) with as much relevant information as possible prior to mission planning.
URDB-91	2.1.1 Access data	Provide the user with the ability to request and receive data required for mission planning.
URDB-95	2.1.1.1 Access electronic data	Provide the connectivity, interoperability and availability of information via electronic means, primarily via wide area communications. Including ability to access EWDS database to populate aircraft libraries. Secondary access will be via external systems such as GCCS or TBMCS.
URDB-2391	2.1.1.2 Access non electronic data	For non-electronic data, including publications, manuals, or original materials selected by the user, provide means of implementing ready access through conversion and retention in electronic format or through other document/data management archiving and access techniques.
URDB-92	2.1.2 Obtain essential elements of information	Identify and locate critical items of information regarding the enemy and the environment needed by the commander by a particular time to relate with other available information and intelligence in order to assist in reaching a logical decision. (Joint Pub 2.0)
URDB-97	2.1.2.1 Identify needed information	Identify types of information necessary to accomplish mission objectives. These could be threat, operational, performance, meteorological.

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URDB-98	2.1.2.2 Identify resources	Identify the most reliable or validated sources of information based on your requirements and location.
URDB-99	2.1.2.3 Search for data	Enable the user to search for missing information in a free text manner similar to internet search engines.
URDB-93	2.1.3 Manage source data	The ability to manage the data environment necessary to meet mission objectives. This includes understanding validated sources, understanding content and frequency of update of these sources.
URDB-100	2.1.3.1 Receive data	The ability to receive and file information from known sources, onboard and offboard. For PGMs, provide GPS Almanac Data for effectiveness calculations.
URDB-156	2.1.3.2 Extract data from files	The ability to manually or automatically extract a relevant subset of information from a data source regardless of data type or file type.
URDB-101	2.1.3.3 Manipulate data	The ability to process information in such a way as to make it more useful to the process it is supporting. This can be sorting, changing, calculating, or cataloging.
URDB-460	2.1.3.3.1 Update/append the data	Manipulate data either by manually editing, revising, or otherwise altering content; or by importing files from sources outside the mission planning system.
URDB-102	2.1.3.4 Validate the data	Ensure information is timely, accurate and verified to be correct by an authoritative organization responsible for its content. Weapons require Target Location Error (TLE) to calculate weapon CEP. TLE validates the precision of the position provided to ensure it is sufficient for PGM use.
URDB-103	2.1.3.5 Store the data	Provide the ability to store any information, subset, or replica of information necessary to have it available during the various phases of mission planning.
URDB-461	2.1.3.5.1 Store real-time data (tactical)	Archive user-defined data of interest that must be continually renewed such that near instantaneous access on demand to the latest available (real-time or near real-time tactically significant) information is provided to the mission planner. Includes purging of information no longer relevant and maintaining consistency and/or coherency with authoritative tactical databases.

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URDB-462	2.1.3.5.2 Store non real-time data (historical)	For information that lacks time-sensitivity and tactical significance, but instead is historical, for reference, or for instruction, archive the information according to user preferences. This requirement includes maintaining common and/or consistent configuration with respect to the authoritative reference databases germane to the mission.
URDB-104	2.1.3.6 Change classification of data	Extract specific data of lower classification from classified documents, and distribute and incorporate that information into products of lower classification as necessary, without compromising security. Includes the ability to know classification authorities and information pertaining to classification of source documents.
URDB-2161	2.1.4 Generate request for information	If information needed can not be obtained by search, then information must be requested from the information provider, without direct user intervention, if possible.
URDB-2398	2.1.5 Collect <i>in-situ</i> environmental data	Aside from environmental data available from standard METOC, G&IS, and other institutionalized data sources, gather information from local force sources, especially platforms similar to those used by mission planners. Applies to data gathered during and after the preceding mission.
URDB-90	2.2 Perform data analysis	The ability to evaluate different types of data and extract/produce informational results meaningful to mission planning.
URDB-105	2.2.1 Determine force laydown	Understand the disposition and strengths (capabilities) of enemy, neutral and friendly forces relevant to planning a mission. This information will be used by numerous phases of the mission planning process.
URDB-106	2.2.1.1 Analyze location and order of battle (OOB)	Use all available information to determine numbers and locations of all forces. This information may not provide direct answer to all questions, and may require fusing multi-source information together to provide a best-guess answer.
URDB-108	2.2.1.1.1 Analyze neutral LOC/OOB	Fuse information necessary to discern the location and intentions of neutral forces. This is often necessary to ensure that there are no "blue-on-white" engagements or that the planning can work around the neutral forces.
URDB-109	2.2.1.1.2 Analyze friendly LOC/OOB	Fuse information necessary to discern the location and intentions of friendly forces. This can be done to preclude "blue-on-blue" engagements, understand blue force capabilities for coordinated operations and for deconfliction of operations (to include location, RF, weapons, etc).
URDB-110	2.2.1.1.3 Analyze enemy LOC/OOB	Fuse all-source information necessary to discern the location and force levels of enemy forces.

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URDB-6441	2.2.1.1.4 Analyze Friendly Capabilities	Use all source information available to determine friendly force capabilities.
URDB-6442	2.2.1.1.5 Analyze Friendly Vulnerabilities	Use all source information available to determine friendly force vulnerabilities.
URDB-107	2.2.1.2 Analyze threats	Using available all-source information, assess enemy capabilities and intentions.
URDB-111	2.2.1.2.1 Analyze threat tactics	Using established, validated, historical assessments of enemy tactics, analyze blue force operations and current intelligence to predict or determine the enemy's intentions, objectives and future movements.
URDB-112	2.2.1.2.2 Analyze threat vulnerabilities	Using established, validated, historical assessments of enemy tactics and current intelligence, analyze enemy exploitable weaknesses and corresponding possible points of attack and attack tactics.
URDB-113	2.2.1.2.3 Analyze camouflage, concealment and deception	Understand and exploit all information necessary to negate the effects of camouflage, concealment and deception.
URDB-414	2.2.1.2.4 Analyze threat performance and characteristics	Utilizing established, validated, historical assessments of threat system performance capabilities and other known characteristics, determine strengths, and exploitable weaknesses and vulnerabilities in order to understand threat impact to mission and options for mitigation.
URDB-94	2.2.2 Analyze environmental effects on mission	Determine the effects of external factors such as geography, METOC and bathymetry data on mission planning performance and enemy performance.
URDB-114	2.2.2.1 Perform safety of flight analysis	Analyze weather impact to safety of flight. Use geographic and atmospheric environmental factors to determine such things as target visibility, terrain avoidance, storm avoidance and any other environmental issues that threaten the mission platform.
URDB-115	2.2.2.2 Analyze environmental effect on sensor performance	Use appropriate environmental factors to determine performance effects on appropriate sensor systems. Performance factors may include but not be limited to range, power, accuracy, sensor resolution.
URDB-117	2.2.2.2.1 Analyze effects on magnetic sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of magnetic sensors.

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URDB-118	2.2.2.2.2 Analyze effects on acoustic sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of acoustic sensors.
URDB-119	2.2.2.2.3 Analyze effects on radar sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of radar sensor.
URDB-120	2.2.2.2.4 Analyze effects on infrared sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of missile seeker infrared sensors.
URDB-121	2.2.2.2.5 Analyze effects on ESM sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of electromagnetic surveillance measures sensors.
URDB-122	2.2.2.2.6 Analyze effects on laser sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of missile seeker lasers/lidars based on atmospheric environmental factors.
URDB-415	2.2.2.2.7 Analyze effects on visible and optical sensors	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of visible and optical sensors other than infrared and laser sensors (e.g. video and imagery cameras, telescopes, human eye, low-light systems, night vision goggles, ultraviolet sensors).
URDB-116	2.2.2.3 Analyze environmental effect on released stores	Determine the effects of the environment on release parameters and performance of stores.
URDB-2395	2.2.2.4 Analyze environmental effects on communications	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of communication systems other than datalinks.
URDB-2396	2.2.2.5 Analyze environmental effects datalinks	Using applicable Tactical Decision Aid (TDA) determine environmental impacts to the performance and employment of datalinks.
URDB-463	2.2.3 Analyze target and weaponeering	Using data collected relevant to the target or weapon choices, analyze the data and formulate information outputs for use by the mission planners in making targeting and weaponeering decisions. Information outputs could include options or alternatives, alternatives evaluation criteria, recommendations and rationale, risks.
URDB-464	2.2.4 Perform data correlation	Locate relationships between individual data and link them together so that the user is presented data that is correlated or fused. Allow the user to access raw or uncorrelated

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		data as a user-selectable option. Allow user to analyze Mission Reports (MISREPs) using imported lessons learned tools.
URDB-20	3 Construct the plan	The overall task for generating the mission plan, covering both prior to mission execution, and during mission execution.
URDB-157	3.1 Perform offensive tactical planning	The summary task for generating offensive tactics, i.e. tactics and tactical concerns directly associated with the offensive delivery of firepower, as opposed to defensive, routine, or administrative aspects of the mission plan
URDB-158	3.1.1 Determine mission package	Identify the aircraft type/model/series participating in the mission.
URDB-160	3.1.2 Plan offensive support tactics	Determine tactics directly associated with employing or supporting the employment of firepower offensively.
URDB-161	3.1.2.1 Determine I & W tactics	Determine the surveillance tactics (other than sensor employment) to obtain indications and warnings of enemy activity relevant to the mission.
URDB-162	3.1.2.2 Determine C2 tactics	Determine the tactics for exercising command and/or control of units/elements participating in mission execution, or other reserve/backup elements.
URDB-164	3.1.2.3 Plan offensive air tactics	Determine tactics to search for, locate, attack, and neutralize or destroy enemy threat aircraft before they can prosecute an attack on the mission participants or friendly units.
URDB-169	3.1.2.4 Plan attack tactics	Determine offensive tactics to attack and destroy the enemy surface targets per the objectives of the mission tasking (does not include delivery maneuver or target planning details).
URDB-6532	3.1.2.4.1 HARM planning	Determine offensive enemy threat suppression - HARM planning.
URDB-413	3.1.2.5 Plan ingress and egress tactics	Determine tactics for opposed transit to and from the target or objective area.
URDB-416	3.1.2.6 Plan search & localization tactics	Determine tactics to search for and locate moving or mobile targets with sufficient accuracy for attack.

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URDB-6523	3.1.2.7 Plan airdrop	The ability to plan for release of any type of cargo from an aircraft into a dropzone. This includes, but is not limited to, personnel, vehicles, pallets, supplies, oversize weapons etc.
URDB-6524	3.1.2.8 Plan jammer game plan	Generate, by EA-6B Transmitter Band, a prioritized list of jamming targets (emitters and locations).
URDB-6530	3.1.2.8.1 Plan radar jammer game plan	Generate, by EA-6B Transmitter Band, a prioritized list of radar jamming targets (emitters and locations).
URDB-6525	3.1.2.8.2 Plan comm jammer game plan	Generate, by EA-6B Transmitter Band, a prioritized list of comm jamming targets (emitters and locations).
URDB-170	3.1.3 Plan fratricide avoidance measures	Define tactical measures to be employed so that friendlies or neutrals are not inadvertently attacked (does not include generation of ROE, determining IFF settings, deconfliction of plans, or self-imposed threats to safety).
URDB-171	3.1.3.1 Plan positive identification measures	Define tactics to discriminate with high confidence between enemy and friendly or neutral elements.
URDB-6526	3.1.3.2 Plan ambiguity resolution	Devise ambiguity resolution plan between Blue/Green/Red emitters. Make an RF deconfliction plan to alleviate friendly RF fratricide.
URDB-172	3.1.4 Perform target/objective attack planning	Summary task to determine the details of target attack or objective area plan.
URDB-173	3.1.4.1 Plan minefield	Plan details of mine type and mine placement based on analysis done elsewhere.
URDB-175	3.1.4.2 Plan target prosecution tactics	Plan the details of the prosecuting targets or objective that have been located and identified with sufficient accuracy or precision for attack.
URDB-465	3.1.4.2.1 Plan target attack	Using analysis results derived elsewhere (e.g., target defenses, vulnerabilities, weapon choices, aircraft availability) select points of attack, direction of attack, aimpoints, weapon delivery maneuvers, weapon types, weapon numbers, and fuze settings to be used in the attack. Does not include weaponing (specifics of weapon settings and

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		restrictions), defensive tactics, or attack tactics covering pre-delivery and post-delivery maneuvering or reattack.
URDB-176	3.2 Perform defensive tactical planning	A summary task encompassing all defensive tactical measures.
URDB-177	3.2.1 Plan defensive tactics	Plan tactical counters to enemy weapons systems that threaten mission participants.
URDB-178	3.2.1.1 Plan air threat counters	Plan pre-emptive and reactive tactical counters to potential enemy fighter aircraft attacks on mission participants.
URDB-179	3.2.1.2 Plan surface threat suppression	Plan pre-emptive and reactive tactical counters for hard and soft-kill of surface-launched anti-air (i.e. manned and unmanned air vehicles) weapons.
URDB-2379	3.2.1.3 Plan subsurface threat defense	Plan preemptive and reactive airborne tactical counters for underwater threats to aircraft or mine threats to ships.
URDB-418	3.2.1.3.1 Plan minesweep	Determine the specific tactics and procedures for planning how the located minefield will be cleared.
URDB-6443	3.2.1.4 Plan for surface-to-air threats	Plan preemptive and reactive airborne tactical counters for surface-to-air threats to aircraft.
URDB-180	3.2.2 Plan vulnerability mitigation	Plan measures that reduce as much as possible the vulnerabilities of the participating aircraft to enemy threats.
URDB-181	3.2.2.1 Plan deception, decoy, DECM	Plan mission and individual measures to diminish the effectiveness of enemy systems for detection, warning, search, acquisition, targeting, weapons guidance and fuzing, and C4I through deception, decoys, or defensive electronic counter measures. Does not include threat suppression or avoidance measures or electronic attack.
URDB-182	3.2.2.2 Plan detection avoidance measures	Plan tactical measures to avoid known threats, delay detection by known threats where detection is unavoidable, and avoid as much as possible detection by unknown threats.
URDB-184	3.3 Perform flight planning	A summary task for mission planning of air vehicle performance, route of flight, and flight rules.

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URDB-185	3.3.1 Assess flight characteristics	Determine the aerodynamic and mechanical performance characteristics of the air vehicles participating in the mission.
URDB-186	3.3.1.1 Assess fuel use performance	Determine fuel flows and/or fuel usage of participating aircraft considering aircraft configuration, environmental data, and operating parameters of mission aircraft. Does not include initial fuel load determination or airborne refueling planning.
URDB-187	3.3.1.2 Determine optimal flight parameters	Considering other planning factors such as survivability against threats, route, altitude constraints, timing constraints, aircraft configuration, fuel load, flight performance characteristics of the air vehicle, and objectives (e.g. best cruise performance or best endurance), generate a recommendation for optimum speed or speed range and related parameters (e.g. fuel flow) for mission aircraft at any point in the flight.
URDB-188	3.3.1.3 Assess takeoff and landing performance	Considering other factors such as environmental conditions, launch elevation, aircraft configuration (including consideration of one or more engines failed), and aircraft flight/power performance characteristics, assess aircraft performance and performance margins for takeoff, aborted takeoff, landing, waveoff, and hover in or out of ground effect.
URDB-189	3.3.1.4 Assess power performance	Considering other planning factors such as environmental conditions, aircraft configuration, and altitude, assess aircraft power performance and performance margins.
URDB-190	3.3.1.5 Assess weight and balance characteristics	Determine aircraft gross weight and center of gravity location (including position relative to center of lift) at takeoff and during flight.
URDB-421	3.3.1.6 Calculate aircraft signatures	Determine aircraft signatures in a form meaningful to mission planners for all relevant spectral characteristics, in all relevant aspect angles of elevation and azimuth. Relevance is a function of the mission and threats the mission will encounter.
URDB-191	3.3.2 Perform navigation planning	Determine the route of flight, altitudes, and timing to and from the target(s) or objective area(s) for all mission aircraft.
URDB-192	3.3.2.1 Plan route in four dimensions	Determine the horizontal and vertical location over the earth of each mission aircraft and weapon route(s) from release point(s) to target impact point(s) at any time during the mission.
URDB-193	3.3.2.2 Resolve and control chart characteristics	Resolve and/or allow for control of incompatibilities and errors in coordinate systems (e.g. lat/long, grid), measurement units (e.g. feet, meters), and datums (e.g. WGS 84).

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URDB-194	3.3.2.3 Plan ATC procedures	Plan flight profiles and navigation procedures to account for Federal Aviation Administration and/or International Civil Aviation Organization air traffic control rules, regulations, conventions, standards, procedures, notices to airmen, etc.
URDB-244	3.3.2.4 Plan NAVAIDS and time sources	Plan navigation aids and frequency settings, including preset dataloads. Includes notices to airman and other indications of servicability, and warnings of unreliability or meaconing.
URDB-200	3.3.2.4.1 Plan GPS	Plan and encrypt Global Position System performance and employment considerations/constraints for navigation and/or time source use. Plan aircraft dataload, including GPS Crypto Key (red & black) and GPS Jamming effects on weapons accuracy.
URDB-2387	3.3.2.4.2 Plan non-GPS nav aids	Plan employment of NAVAIDS (e.g. TACAN, DME, VOR), NOTAMS, environment, terrain and other factors. Include planning for channelization, presets, and dataloads.
URDB-195	3.4 Plan sensor employment	A summary task that determines expected performance and physical constraints with regard to various sensors in the mission package. Data sources used for the analysis include local real-time or near real-time sources as well as historical or theoretical modeling analysis. Factors considered include environmental conditions, aircraft location, objective, threat, tactics, etc.
URDB-196	3.4.1 Plan magnetic sensor employment	Determine the performance and constraints of magnetic sensors. Depending on tactics of sensor performance, determine sensor settings and generate preset dataload, if applicable.
URDB-197	3.4.2 Plan acoustic sensor employment	Determine the performance and constraints of acoustic sensors, including sensor stores (e.g. sonobouys). Depending on tactics of sensor employment, determine sensor settings and generate preset dataload, if applicable.
URDB-430	3.4.2.1 Plan sonobuoy layout	Plan details of sonobuoy type and placement based on analysis done elsewhere.
URDB-198	3.4.3 Plan radar sensor employment	Determine performance and constraints of radar systems, including SAR/ISAR. Depending on mission tactics and sensor performance, determine radar employment plan and sensor settings, and generate preset dataload, if applicable.
URDB-199	3.4.4 Plan infra-red sensor employment	Determine the performance and constraints of sensors operating in the infra-red portion of the electromagnetic spectrum, except for laser systems. Depending on mission tactics and sensor performance, determine sensor employment plan and sensor settings, and generate preset dataload, if applicable.

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URDB-203	3.4.5 Plan ESM sensor employment	Determine the performance and constraints of electromagnetic surveillance systems used in the mission, e.g. ALR 66. Depending on mission tactics and sensor performance, determine sensor employment plan and sensor settings, and generate preset dataloads, if applicable.
URDB-2382	3.4.6 Plan laser sensor employment	Determine the performance and constraints of lasers or LIDARs used in the mission. Depending on mission tactics and sensor performance, determine laser employment plan and settings, and generate preset dataloads, if applicable. Does not include planning weapon-compatible laser codes or laser tactics for weapon delivery.
URDB-2383	3.4.7 Plan visible and optical sensor employment	Determine performance and constraints of visible and ultraviolet spectrum sensors other than lasers. Includes video and imagery cameras, telescopes, human eye, low-light systems, night-vision goggles, UV sensors. Depending on tactics and sensor performance, determine sensor settings and generate preset dataload, if applicable.
URDB-204	3.5 Perform emissions planning	A summary task for planning radio employment and overall emissions constraints on participating mission aircraft.
URDB-205	3.5.1 Plan voice, datalink and IFF communications	Plan radio employment for mission aircraft, including voice communications procedures, datalink procedures, IFF procedures, communications security measures, frequency assignments, and radio settings including preset dataloads.
URDB-206	3.5.1.1 Plan communications security	Plan communications security measures, including measures to avoid jamming, spoofing, intrusion, or other information warfare concerns. Includes plans for use of encryption, crypto settings and preset dataloads, codewords, zip-lip, and general communications discipline, but not EMCON.
URDB-207	3.5.1.2 Plan voice communications	Plan voice procedures and frequency assignments with consideration to factors such as net loading, tactics, message traffic priorities, data bandwidth requirements, emissions control, operational security, etc.
URDB-447	3.5.1.3 Plan datalink communications	Plan datalink procedures and frequency assignments with consideration to factors such as net loading, tactics, message traffic priorities, data bandwidth requirements, emissions control, operational security, etc.
URDB-448	3.5.1.4 Plan IFF communications	Plan Identification-Friend or Foe communications, including squawks for any friendly or neutral aircraft that may be encountered during the mission.
URDB-245	3.5.2 Plan laser emissions	Plan tactical constraints on laser emissions by mission aircraft.

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URDB-246	3.5.3 Plan RF emissions control	Plan formal constraints on RF emissions by mission aircraft to avoid detection or interference by the enemy.
URDB-6527	3.5.3.1 Plan EA timeline	Plan a timeline of the EA mission element. To include when emissions are active, intended affects and possible conflicts/interference.
URDB-213	3.6 Perform admin planning	A summary task for planning aspects of the mission that are not directly related to offensive or defensive tactical employment of the aircraft.
URDB-214	3.6.1 Determine launch and recovery sequence	Determine the launch order, which affects carrier aircraft handling or orderly ground and departure control, and determine recovery sequence, which affects marshalling or holding patterns, return-to-base traffic control, and ground or deck handling and aircraft turnaround.
URDB-215	3.6.2 Assign aircrew	Based on qualifications and experience, involvement on planning teams, crew readiness posture, etc. assign flight personnel to missions and possibly to aircraft.
URDB-216	3.6.3 Plan timing	Assign absolute or relative timing (dependent on an absolute time to be assigned later) to events leading to commencement or coming after completion of tactical operations.
URDB-217	3.6.4 Plan routine flight procedures	Plan flight procedures typically accomplished as routine while transitioning to or from tactical operations.
URDB-218	3.6.4.1 Plan own aircraft flight procedures	Plan routine flight procedures and standard operating procedures affecting the conduct of the flight for each participating aircraft while operating free and clear of other mission aircraft.
URDB-219	3.6.4.2 Plan multi-aircraft flight procedures	Plan routine flight and standard operating procedure in vicinity of other mission aircraft, such as formation flight or tanking procedures (does not include determination of tanker give-away).
URDB-2384	3.6.4.3 Plan coordination of multi-ship flight deck operations	Plan for flight operations that involve evolutions with surface ships other than home unit (e.g. refueling operations, stores and reloading operations, DLQ's).
URDB-220	3.6.5 Plan crew tasking and coordination	Plan crew task assignments and internal crew coordination needed to accomplish mission objectives.

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URDB-247	3.6.6 Plan OPSEC procedures	Determine measures to protect the mission intentions against discovery by the enemy. Does not include specific deception or decoy tactics used by the mission package during ingress/egress or in the target/operations area.
URDB-249	3.6.7 Plan safety procedures	Plan measures specifically for the safety of the mission, including measures to assess risks in the mission.
URDB-221	3.7 Plan weapons and stores loads	A summary task for accomplishing the planning details connected with the external and internal stores and fuel loaded on mission aircraft.
URDB-222	3.7.1 Plan weapons stores	Considering such factors as delivery parameters (e.g., speed, dive angle), weapon numbers/types, fuzing, ordnance availability, etc., determine ordnance planning details like weapon and fuze configurations/settings, additional armament needed (e.g., bomb racks, missile rails), store placement, armament system settings, weapon-related flight and delivery restrictions, drag count, etc. Provide relevant feedback to aircraft MPM (e.g., drag count, total weight).
URDB-223	3.7.1.1 Plan standard weapons loads	Determine ordnance planning details for standard load configurations, specified before tasking occurs.
URDB-224	3.7.2 Plan fuel loads	Plan individual and aggregated mission aircraft fuel loading plans so the individual and total fuel needs of the mission are known. Includes planning for aerial refueling quantities.
URDB-228	3.7.3 Determine aircraft load plan	Aggregate the results of individual mission aircraft loading plans for fuel, stores, personnel, and other loads so the total logistical and loading needs of the mission are visible to cognizant authorities.
URDB-229	3.7.4 Determine availability of stores	Using information gathered from various sources, determine the stores available for assignment to the mission plan.
URDB-422	3.7.5 Plan non-weapons stores	Considering factors such as intentions for release, delivery parameters, store numbers and types carried, etc., determine store planning details such as jettison constraints, release sequence, armament system settings, drag count, etc.
URDB-423	3.7.5.1 Plan sonobouy load	For sonobouy employment, determine loading positions to obtain proper release sequencing.
URDB-424	3.7.5.2 Plan chaff and flares load	For chaff/flares/decoys, determine cannister loading positions and armament settings to obtain proper release sequencing.

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URDB-425	3.7.5.3 Plan fixed stores	For fixed stores, determine planning details such as drag count and jettison parameters.
URDB-426	3.7.5.4 Plan towed loads	Determine planning factors for towed loads.
URDB-6531	3.7.5.5 Plan transmitter loads	Translate emitter priorities developed in the jammer gameplan into a transmitter load.
URDB-233	3.7.6 Disseminate load requests	Using load planning information developed by mission planners, assemble and disseminate standard logistical requests for stores and fuel to cognizant authority.
URDB-2385	3.7.7 Plan required aircraft configuration changes	Plan aircraft configuration changes required to accomplish the mission. Does not include auxiliary armament equipment such as bomb racks or missile launchers or stores.
URDB-234	3.8 Perform contingency planning	A summary task for planning details related to unexpected but predictable occurrences that if occurring would cause plans to change.
URDB-235	3.8.1 Plan emergencies	Plan emergency procedures in accordance with NATOPS, SOP's, and published procedures. Include planning for response of other mission package members and supporting agencies to the emergency aircraft needs.
URDB-236	3.8.2 Plan battle damage procedures	Plan for the possibility that mission aircraft may suffer battle damage.
URDB-237	3.8.3 Plan alternates and bingos	Prepare contingency planning in case primary landing sites are unavailable or unattainable, including criteria planned elsewhere that bears on use of alternate or bingo fields, e.g. bingo fuel state, or minimum fuel reserve on takeoff.
URDB-238	3.8.4 Plan back-ups, alerts, spares and no-go's	Prepare contingency planning to use resources in reserve, to exercise alternative plans, or halt some part of the mission according to pre-planned decision criteria.
URDB-239	3.8.5 Determine SAR plan	Prepare search and rescue plans for the possibility that one or more ejections/bailouts/ditchings/crashes may occur.
URDB-240	3.9 Perform plan validation	A summary task to ensure that the plan is good and has the approval of proper authority.

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URDB-250	3.9.1 Perform mission effectiveness predictions	Predict effectiveness of mission plan and/or target attack plan.
URDB-427	3.9.2 Intentionally Left Blank	Intentionally left blank to retain space numbering
URDB-251	3.9.3 Conduct simulation	Use simulation of the mission plan and the mission environment (i.e. terrain, threats, weather) to rehearse, practice, adjust, and/or validate the plan. Simulation applies to mission aircraft individually and the mission in aggregate.
URDB-255	3.9.3.1 Rehearse and practice the plan	Use simulation of the mission plan and mission environment to “fly the plan” virtually, up to four dimensions, rehearsing and practicing either the end-to-end mission or isolated subsets of the mission, flown repetitively.
URDB-256	3.9.3.2 Test and analyze plan	Use simulation to stress test the plan or subsets of the plan to find faults or weaknesses, then make immediate changes to the plan, then immediately retest.
URDB-257	3.9.3.3 Conduct what-if scenarios	Use simulation of the mission plan, the mission environment, and simulated enemy reactions/responses or third party “synthetic battlespace” simulations to assess the plan in a “war game” environment.
URDB-258	3.9.4 Obtain higher authority approval	Present sufficient planning details to the mission plan approval authority to gain concurrence for go-ahead (usually occurs before detailed planning is completed).
URDB-259	3.9.5 Review the plan	Perform quality assurance checking of planning results, either during planning or when planning is completed.
URDB-260	3.9.5.1 Review against checklists	Employ checklist(s) to ensure that mission plan is comprehensive and complete.
URDB-261	3.9.5.2 Review against smart agents	Employ wizards and other artificial intelligence means to ensure that the mission plan represents known best practices and lessons learned from past planners.
URDB-262	3.9.5.3 Review against safety and quality checks	Utilizing current and evolving Operational Risk Management (ORM) tools, employ self-test checking methods to ensure the safety and quality of the mission plan.

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URDB-263	3.9.6 Perform sanity checks with SMEs	Perform sanity checks of plans by transmitting plan contents to remote Subject-Matter Experts with knowledge, tools, and simulation facilities not available to mission planners.
URDB-264	3.10 Generate planning products	A summary task covering generation of outputs or products reflecting the content of the mission plan.
URDB-265	3.10.1 Generate data loads	Create formatted data files intended for use on data transfer devices.
URDB-266	3.10.1.1 Generate other data loads	Create a dataload capable of direct feed to mission aircraft or weapon embedded computer systems, without using standard platform DTD's, but compatible with current or in-place standards, data transfer protocols, and communications devices.
URDB-2386	3.10.1.1.1 Generate kneeboard mission planner load	For aircraft without mission planning interfaces, a portable device for use in the cockpit as a kneeboard has been conceptualized. The device requires a dataload suitable for transferring essential mission data, monitoring mission progress, changing the plan in-flight, and linking changes to parent ship, if applicable.
URDB-6528	3.10.1.1.2 Initialize tapes and read records	Prepare an RRS cassette for recording by placing a record leader on the tape. Be able to read files on an RRS tape.
URDB-268	3.10.1.2 Generate data transfer device loads	Create a dataload compatible with standard mission aircraft or weapon data transfer devices.
URDB-269	3.10.2 Generate paper products	Create maps, charts, kneeboard cards, paper images etc. suitable for use in flight by flight crew engaged in aviation duties.
URDB-270	3.10.2.1 Generate imagery hardcopy	Create imagery paper products suitable for use in flight.
URDB-271	3.10.2.2 Generate paper maps and charts	Create maps and charts suitable for use in flight.
URDB-272	3.10.2.3 Generate formatted hardcopy	Using standard formats or formats tailored by the user, generate reports, messages, kneeboard cards or "go-packs", etc.

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URDB-273	3.10.2.4 Generate briefing materials	Produce visual aids reflecting the content of the mission plan results for use in briefing the plan to approval authority, mission participants, and/or other interested parties.
URDB-274	4 Coordinate, collaborate and communicate	An overarching task covering sharing of information with other planners and agencies such that an integrated and cohesive mission plan results, and all participants have the requisite information.
URDB-275	4.1 Communicate and/or exchange information	Physically transmit and receive voice, video, and data with other agencies, systems, computers, or mission participants by establishing linkages, transmitting data in proper formats, and processing received data so that it is readily available to the user.
URDB-276	4.2 Coordinate with external agencies	Convey mission planning intentions, content, needs, requests, questions, and other information to agencies apart from the mission planning participants and receive responses with the intent to coordinate mission support. Does not include data search and retrieve.
URDB-449	4.2.1 Coordinate asset management	Convey resources requested and/or query resources available via communication with individuals or agencies having cognizance over those assets. In the course of coordination, obtain commitments and confirmations of asset availability and dedication to the mission.
URDB-277	4.3 Perform mission deconfliction	Analyze all aspects of the mission plan and other operations with the potential for conflict to determine that there are no conflicts with regard to airspace occupancy, electromagnetic frequency interference, or potential friendly-on-friendly/neutral engagements. Estimate effects on weapon seeker sensors from previous weapon impact on target (impact on ATA) debriefs.
URDB-278	4.4 Collaborate with other planners	Conduct mission planning in concert with other planners, collaborating while in direct communication (synchronously) or indirectly using persistence tools (asynchronously) so that the mission plan is integrated and coordinated as it is built.
URDB-279	4.4.1 Conduct briefings	A special form of synchronous collaboration and coordination between collocated or dispersed individuals where communication is primarily for the purpose of conveying the plan contents and secondarily for making changes to the plan as it exists.
URDB-280	4.4.2 Collaborate asynchronously	Collaborate with other mission planners without requiring direct contact or real-time responses from the other party.
URDB-281	4.4.3 Collaborate synchronously	Collaborate with other mission planners via direct contact for real-time information-passing.

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URDB-428	4.4.4 Control plan configuration	Allow the strike leader or persons with delegated authority (e.g. any or all members of the mission planning team) to control (in real-time) privileges for reading, writing, generating changes, freezing (i.e. lock out further changes) and approving any or all subsets of the plan. Track changes by author since last approved version, and retain a history on who made what changes and when. Maintain a version identification system.
URDB-429	4.4.5 Post the mission plan	Allow persons with appropriate privileges to access the plan in its current form, in whole or in part, at any time during the mission planning process. Nature of access, whether read/write/change/approve, depends on authority delegated from the strike leader.
URDB-2393	4.4.6 Coordinate with ship operators	For those missions involving shipboard planners, host ship operations, or operations on other ships, provide means for sharing, collaborating on, and coordinating the mission plan, including any conflicts with ship operations that are not part of the mission being planned. This task specifically includes coordination of ship sensors and weapons with those of the mission aircraft.
URDB-282	5 Plan execution	An overarching tasking area that encompasses post-launch mission planning and progress/results feedback activities.
URDB-283	5.1 Perform post launch mission planning	A summary task covering mission planning or replanning conducted airborne or by supporting agencies in response to retasking or situations unaccounted for in the original plan.
URDB-284	5.1.1 Change mission plan airborne	Change from the current mission plan to an alternate mission plan.
URDB-285	5.1.1.1 Plan offboard and then uplink to aircraft	Respond to retasking or unaccounted situations by generating a revised mission plan at a surface-based or airborne support node, and uplink to mission aircraft.
URDB-286	5.1.1.2 Plan onboard	Respond to retasking or unaccounted situations by generating a revised mission plan onboard the aircraft.
URDB-287	5.1.2 Intentionally left blank	Intentionally blank to retain numbering scheme.
URDB-288	5.1.3 Monitor flight on GPS-interfaced moving map	Use the JMPS as a moving map system by interfacing a GPS input (either from remote system or GPS integral to JMPS) and displaying aircraft position overlaid on map view. This requirement applies to aircraft without integral moving map capability.

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URDB-289	5.1.4 Update data	Access and/or receive and process uplinked updates of tactical databases.
URDB-290	5.2 Compare real-time events to the plan	Either onboard or off-board the aircraft, compare the mission plan to mission execution as it can be ascertained from available feedback.
URDB-291	6 Post mission reporting	An overarching task area for processing, analyzing, reviewing, recording, and reporting the results of the mission.
URDB-292	6.1 Process post mission data	A summary task to assemble and capture all relevant voice, video, and data generated in the course of mission execution in formats usable in or readily accessible to the JMPS data environment.
URDB-293	6.1.1 Process imagery	Capture imagery data developed during the mission.
URDB-294	6.1.2 Process aircrew inputs	Capture aircrew-generated feedback products including handwritten records.
URDB-295	6.1.3 Download data records	Capture data downloads.
URDB-296	6.1.4 Process other downloads	Capture other downloads.
URDB-6529	6.1.5 Correlate multi source post flight data	Build a post mission picture of activity fusing ES, FLIR, Imagery, mis rep to build a picture of success.
URDB-297	6.2 Analyze mission success	A summary task to assess the degree to which the mission succeeded in achieving its objectives.
URDB-298	6.2.1 Display or replay mission and analysis	Using all available feedback information, recreate mission events in chronological sequence and display to analysts, aircrew, or other interest personnel.
URDB-299	6.2.2 Analyze BDA/BHA or objective results	Determine the ultimate success of the mission in meeting its objective(s) and, if applicable, assessing damage inflicted.
URDB-300	6.2.3 Determine mission effectiveness	Notwithstanding the ultimate results of the mission, assess the overall mission for its efficiency and effectiveness in accomplishing the objective.

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URDB-301	6.3 Report post-mission results	A summary task for reporting mission results to higher authority and cognizant support agencies.
URDB-302	6.3.1 Create post-mission reports	Generate reports containing mission results and feedback.
URDB-303	6.3.1.1 Create formatted reports	Generate formatted naval message or report per cognizant requiring authority.
URDB-304	6.3.2 Record lessons learned	Capture analysis and mission participant feedback relating to lessons learned and forward to appropriate record-holders per higher authority direction.
URDB-305	6.3.3 Generate ops, maintenance and admin feedback	Generate automated debrief products and data files on flight statistics (e.g. yellow sheets, scheduled events completed, training accomplishments, aircraft usage data, aircraft discrepancies, log book information, etc.) and forward as appropriate to maintenance/operations/admin departments.
URDB-306	6.3.4 Archive mission data	Store all relevant mission data, i.e. pre-mission planning, mission execution, and post-mission results, in a manner facilitating ready and rapid retrieval.
URDB-307	6.3.5 Initiate required retasking	Should analysis indicate mission objectives were not completely accomplished and retasking is necessary, cause the retasking process to be initiated and provide all relevant information where needed.
URDB-308	7 Mission planning environment	This is a listing of functionality and human machine interface (HMI) capabilities the required to operate the system.
URDB-309	7.1 View data using interactive and intuitive interface	The ability to display data, charts, imagery etc. in a variety of displays that best represent the view intended, including WX, LAR, sensor, and weapon field-of-view displays. The planner must be able to interact with the displays by zooming, rotating and applying other types of controls to the display such as contrast, color, highlighting, etc.
URDB-310	7.1.1 View default information	Automatically display known information or assumed pre-designed views of information.
URDB-311	7.1.2 View intuitive mission plan and data views	One or more in a series of intuitive plan views will be generated and displayed, based on a command or combination of commands entered into the system. This includes capability to view real-time changing information (e.g. common tactical picture).

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URDB-312	7.1.3 Use interactive user interface	The ability to interact with the system interface in order to better understand or display data.
URDB-313	7.1.3.1 Display overlaid data	The ability to overlay one or more various displays (maps, charts, OOB, imagery etc.) that are correlated in some manner, either by mensuration, scene matching or some other method.
URDB-314	7.1.3.2 Present Integrated displays in a single window	Various displays shown in a single window either by overlay, tiling or cascading in the same manner as in a standard Microsoft windows program.
URDB-315	7.1.4 Allow customize displays	The ability to customize any of the displays in the same manner as in a standard Microsoft windows program.
URDB-316	7.1.4.1 Customize windows	The ability to customize any of the windows in the same manner as in a standard Microsoft windows program.
URDB-317	7.1.4.2 Customize menus	The ability to customize any of the menus in the same manner as in a standard Microsoft windows program.
URDB-318	7.1.4.3 Customize toolbars	The ability to customize any of the toolbars in the same manner as in a standard Microsoft windows program.
URDB-319	7.1.4.4 Customize other aspects	The ability to customize any other facets of the software in the same manner as in a standard Microsoft windows program.
URDB-450	7.1.5 Interact with the mission planning folder	(Assumes a virtual folder like Strike Planning Folder for the NSWPC.) Archive planning results (pre-mission) and mission results (post-mission) in an intuitive virtual filing system that facilitates ready search, retrieval, and understanding of major subsets of the mission. Users with appropriate privileges interact with the contents of the folder to read, write, change, freeze, or approve the contents.
URDB-2394	7.1.5.1 Incorporate disaster recovery and autosave functions	Recover all or most of the mission planning data in case of a computer system malfunction. Automatically save data contained in open files, periodically saving the data (into other files, not the active files) without user interaction in case of system malfunction.
URDB-452	7.1.6 Allow user defined defaults	When the information requested in a field of the user interface is either 1) already designated by the user as a preset default value, or 2) has only one possible value given

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		other information in the mission plan, then fill in that default value on the user's interface. Allow the user to set default values for that purpose, or clear individual default values if no longer desired. Also allow user pre-selection of view preferences and features.
URDB-320	7.2 Provide multi-level security	A multi-level security system controls access to various levels of classified information depending on the planner's authorized level of classified access.
URDB-321	7.2.1 Provide security of classified and/or restricted information	A means to ensure the proper security and access control for classified or otherwise restricted information, whether accessed or entered by the user.
URDB-322	7.2.2 Control User access rights	The ability to control the access rights of other users.
URDB-323	7.3 Access planning utilities	Provide a series of planning utilities to assist in accomplishing mission planning tasks.
URDB-324	7.3.1 Track aircrew and aircraft status	Details of aircrew readiness and aircraft status will be stored and automatically tracked based on a series of rules. A method of entering, displaying and analyzing this information must be provided to the user.
URDB-325	7.3.2 Control software configuration	The capability to alter the software configuration on any type of system hardware in order to plan missions. The user (possibly with special training) needs to be able to do this without requiring dedicated support personnel on-site.
URDB-326	7.3.3 Access help	Help files and guides available on request to aid in the use of the software and in ensuring completeness of mission planning.
URDB-327	7.3.3.1 Provide access to user guides	Access to any of a variety of electronic guides (checklists, doctrinal pubs, NATOPS manuals, SOP's etc.) to assist in mission planning.
URDB-329	7.3.3.2 Access help on request	Indexed help files must be available on request to assist the planner in the use of the software and all of its features and functions.
URDB-347	7.3.3.3 Receive & override warnings of unsatisfactory or questionable conditions	Constantly test for the presence of unsafe, contradicting, unacceptable, or questionable content in the mission plan and warn the user if found. Allow the user to override the warning and accept the content as is.

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URDB-330	7.3.4 Configure for remote operations	Software configurations and data files applicable to the mission or expected planning environment are automatically loaded to allow connectivity and/or the ability to continue mission planning with or without connectivity to the normal mission planning LAN/WAN. This capability includes accommodating the transition from ship-based to shore-based operations or from one network to another.
URDB-331	7.3.5 Perform digitization of paper media	With the appropriate hardware, digitization, storage and display of various paper media will be available to the user.
URDB-332	7.3.6 Access general COTS utilities	Access to any of COTS utilities such as Microsoft Office or other windows-based software programs.
URDB-333	7.3.7 Conduct operator training	Embedded training conducted on the system using computer-based training and simulation to enable or strengthen the skills of the mission planner.
URDB-334	7.4 Provide lifecycle support	Support the mission planning system throughout the lifecycle from development to retirement of the system.
URDB-335	7.4.1 Package, handle, store and transport	Package, handle, store, and transport the physical elements or software content of the system, in accordance with logistics instructions and requirements.
URDB-458	7.4.1.1 PHST Hardware	Package, handle, store, and transport the hardware as needed for operation of the system by the user.
URDB-459	7.4.1.2 Transport software to users	Transport software to the users, either with physical media or electronically over network connections, on demand of the user or the command of the software administrator.
URDB-336	7.4.2 Provide reliability, supportability and availability	Make provisions in the system so that it is reliable, supportable within the users skill and knowledge base, and available when needed.
URDB-337	7.4.3 Perform built-In test	Both on user command and as a background operation, use built in test(s) to search for faults or irregular conditions in the mission planning system. Advise the user if such condition is discovered, and provide a means to assess impact to the mission.
URDB-457	7.4.4 Perform system admin and data base admin	For the mission planning system and its internal databases, provide means to perform on-site administrative functions by users with special training as systems or database administrators. These specially qualified users will restore typical failures, configure software files and database structures, and have control of all computer system

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		administration functions of the system.
URDB-453	7.5 Planning environments	The degree of connectedness to the external systems in which the mission planning system is being used.
URDB-455	7.5.1 Plan as a stand alone system	No mission planning system connections to the external environment exist.
URDB-456	7.5.2 Plan connected to a network	The mission planning system is connected and communicating over a network, e.g. local area network, wide area network, SIPRNET, NIPRNET, or internet.