



Emergency Communications System Lifecycle Planning Tool

The Cybersecurity and Infrastructure Security Agency (CISA) supports and promotes the ability of emergency responders and government officials to continue to communicate in the event of natural disasters, acts of terrorism, and other manmade disasters and works to ensure, accelerate, and attain operable and interoperable emergency communications nationwide. In support of its mission, CISA collaborates with SAFECOM and the National Council of Statewide Interoperability Coordinators (NCSWIC) to ensure public safety stakeholders drive content in guidance documents intended for the entire public safety community. This collaboration resulted in this *Emergency Communications System Lifecycle Planning Guide* (referred hereafter as the Lifecycle Guide), which defines system lifecycle phases (**Figure 1**), goals and products, stakeholder involvement, roles and responsibilities, and items for consideration in each phase. The Lifecycle Guide provides recommendations for agencies interested in building, maintaining, and operating an emergency communications system through decommission and replacement.



Figure 1: System Lifecycle Planning Model

Each phase of the system lifecycle planning model—Pre-Planning; Project Planning; Request for Proposals and Acquisition; Implementation; Support, Maintenance, and Sustainment; End-of-Lifecycle Assessment and Replacement; and Disposition—includes best practices, considerations, and recommended checklists to assist public safety agencies embarking on system lifecycle planning. These checklists have been copied from the Lifecycle Guide and compiled into this *Emergency Communications System Lifecycle Planning Tool* containing tables designed to be referenced and used by project management teams throughout the system lifecycle. Teams can use the checklists to mark steps as they are completed as well as take notes throughout each phase. Additional funding resources can be found at cisa.gov/safecom/funding.

The Joint SAFECOM and NCSWIC Funding and Sustainment Committee developed this document with support from CISA. This document reflects the expertise and knowledge of SAFECOM and NCSWIC members, and the coordination efforts of CISA in bringing stakeholders together to share technical information, best practices, and lessons learned in funding and deploying public safety communications systems. Questions on this document can be sent to:

SAFECOMGovernance@mail.cisa.dhs.gov and NCSWICGovernance@mail.cisa.dhs.gov.













PHASE 1 Pre-Planning | 6 – 12 Months

	Establish the core planning team, with the right mix of	
	experts (e.g., technical, financial, legal, procurement,	
	users) to define needs and basic requirements, research	
	and develop system and funding options, and determine	
	optimal approaches	
	Identify the problem, needs, and requirements, such as	
	diminishing performance of current systems; lack of	
	availability of replacement equipment; cost of	
l	maintenance outweighs replacement; lack of coverage or	
	capacity for critical users; need to improve capabilities;	
	desire to add new users; and potential cost-efficiencies	
	that could be achieved	
	Research system and funding options	
	 Develop and release a Request for Information (RFI) 	
	to solicit input on system capabilities	
	 Reference the <u>Funding Mechanisms Guide for Public</u> 	
	Safety Communications Systems to understand	
Ш	methods for capital and ongoing costs; develop	
	funding options for entire system lifecycle; and seek	
	cost-saving methods (e.g., asset sharing)	
	Determine an approach	
	 Research and record options in writing before 	
	approaching decision-makers	
	 Weigh strengths and weaknesses of system options, 	
	and feasibility of funding	
	 Develop consensus on an optimal approach and "next 	
	best" approaches	
	 Create a one-page fact sheet on basic requirements, 	
	recommended approach, and summary of alternative	
	approaches	
	Plan for frequency needs and channel programming to	
	include various interoperability channels. Reference the	
	Programming Guide and Template for Interoperability	
	<u>Channels</u>	
	Create a business case, talking points, and marketing	
	materials to outline the proposal and ensure consistency	
	and clarity in messaging. Reference the Interoperability	
	Business Case: An Introduction to Ongoing Local Funding	
	Identify executive-level project champions, and seek	
	review and input on technical approach, funding options,	
	and presentation materials	
	Present proposal to state or local decision-makers, after	
╽╙	consultation with the project champion(s)	
	Converting to augment the initial investment and	
	Secure funding to support the initial investment and	
	sustain the system throughout the entire lifecycle	













PHASE 2 Project Planning | 6 – 18 Months

	Ensure appropriate time for project planning (typically 6-18	
	months)	
	 Review past projects to learn how long the Project Planning 	
	Phase has taken for other projects in your agency,	
	jurisdiction, and region	
	 Build sufficient time for planning into project work plans 	
	(given the time it takes for environmental planning and	
	historic preservation review, zoning review, state/local	
	legislative reviews, optimal times to request funding)	
	Communicate the expected project timeline to elected	
	officials, including the time needed to adequately plan the	
	project Document user needs and requirements	
	 Determine now user needs may affect project timelines and system costs 	
	 Document user needs and requirements in project materials 	
	Engage with communications leaders for guidance and support,	
	including	
	 Statewide Interoperability Coordinator 	
Ш	 Statewide Interoperability Governing Body or State 	
	Interoperability Executive Committee	
	 Regional Emergency Communications Coordination Working 	
	Groups	
	 Federal Communications Commission to coordinate 	
	spectrum/licensing issues	
	 Elected officials 	
	Identify strong Project Sponsors after Pre-Planning Phase	
	activities are complete, but before engaging in formal project	
	planning (e.g., developing work plans, budgets)	
_	Identify an executive-level leader who has knowledge of the	
Ш	state or local legislative process, procurement processes,	
	and funding options	
	Share project materials with Project SponsorsGain feedback on products and messaging	
	 Gail reedback on products and messaging Support the Project Sponsors in meetings with elected 	
	officials, decision-makers, and funders	
	Begin planning the Request for Proposals (RFP)	
	 Identify experts (e.g., legal, financial, procurement, grant, 	
	technical) for the RFP team	
	 Examine past RFPs and approval processes 	
	 Reference the project plan for dates, milestones, and 	
	timelines to include in the draft RFP	
	 Incorporate the planned RFP development and review 	
	timelines into the project plan	
	 Communicate planned RFP timelines to the core planning 	
	and project management teams	











PHASE 3 Request for Proposals and Acquisition $\mid 6-12 \ Months$

	Develop a written action plan	
	 Identify members for a Request for Proposal (RFP) team 	
	and establish roles and responsibilities	
	 Set expectations for confidentiality 	
	 Understand procurement rules and timelines 	
	 Develop a clear understanding of services and products 	
	needed	
	 Set milestones for the procurement schedule 	
	Form the RFP team, including the Procurement Manager,	
ΙШ	Procurement Officer, General Counsel, Program Manager,	
	Subject Matter Experts, and Evaluation Committee	
	Develop the Statement of Work (SOW) in clear and concise	
	language	
	 Identify and incorporate minimum requirements 	
	 List basic services and products to be delivered 	
	Include specifications or requirements in the RFP	
	 Identify minimum requirements for vendors 	
	 Ensure non-price requirements are provided at no 	
	additional cost	
	 Include technical standards to ensure interoperability is 	
	established and maintained	
	 Provide an opportunity for vendors to differentiate 	
	themselves	
	 Confirm the SOW and the RFP specifications or 	
	requirements are consistent	
	 Use specifications to convey project requirements and gain 	
	clarity on vendor products	
	 Set evaluation criteria in alignment with the specifications 	
	or requirements	
	 Ensure requirements meet user needs specified in Pre- 	
	Planning and Project Planning Phases	
	Establish written evaluation criteria, well before the award	
	 Align criteria to user needs, SOW, and RFP requirements 	
	Assign weight to every criterion	
	Categorize the criteria in priority order and by evaluation	
	weight (priority)	
	Develop an Objective Review Plan that includes evaluation	
	criteria and selection factors	
	Conduct a formal objective review process and document	
	results	
	Conduct an initial review to reject proposals that don't	
	meet minimum requirements	
	Document the objective review process and outcomes	
	Ensure all team members adhere to confidentiality	
	agreements, procurement rules, and the formal objective	
	review process as written	
	Communicate results to vendors based on evaluation with a read a classic factors.	
	criteria and selection factors	











Implementation | 18 – 24 Months

Develop the implementation plan, including: List of tasks (e.g., install new system, test the system, train users, cut-over) and owners Percentage completed and current status of each task Task start/end dates and completion date (planned or actual) Project- and budget- focused milestones Risk (e.g., issues that have not occurred but are at-risk of occurring) and issues trackers (e.g., issues that have occurred and are being addressed by mitigation plans) Understand and document testing procedures in coordination with the Technical Committee: Factory testing Request and retain documentation of factory testing Staging Compare costs associated with off-site or on-site staging/testing Choose off-site or on-site staging Understand residual costs during staging (e.g., personnel, backfill, travel) Assess staging performance/results Site installation and testing Seek out cost-saving methods on installation and testing Understand the proposed schedule for site installation and testing Oversee the vendor during site installation and testing Coverage verification Understand coverage requirements in the RFP Assess and verify coverage analysis Ensure changes to the system do not affect vendor warrantees and guarantees Adjust agreements as necessary to reflect coverage changes Testing and acceptance Discuss residual costs and ensure they are funded (e.g., technical staff, backfill, training) Conduct vendor testing of entire system after installation Ensure all system components, equipment, and features are functioning Integrate sub-systems into the new system Test network performance, interoperability, and failure Record results and compare to requirements in the RFP Address any deficiencies Cut-over Develop a cut-over plan Ensure residual costs are considered/funded (e.g., personnel, training, technical assistance) Train operators to avoid attributing system errors









Confirm legacy and backup communications are available Final assertance.
Final acceptance
 Engage the Procurement Officer
 Discuss expected lifecycle, ongoing costs, and refreshment
options with the vendor
 Retain vendor to provide initial support
 Initiate the warranty
Update operational procedures and train users, to include new
communications capabilities
 Ensure proficient personnel through ongoing training and
exercising across the whole community
 Address gaps identified in response and recovery
operations, testing resiliency and continuity
Promote new communications capabilities and benefits to the
community, including:
 Project successes to users, elected officials, and citizens
 Future funding needs to officials
 Continued need for training to users











PHASE 5 Support, Maintenance, and Sustainment | Year 1 - Year 25

Maintain an accurate inventory of equipment, through	
enforcement and reminders of asset inventorying policies	
and requirements	
Determine and execute an ongoing Maintenance and	
Operations (M&O) model, in consideration of the agency's	
needs, staffing ability, and funding. M&O may be provided by	
the vendor, by in-house staff, by a third-party provider (e.g.,	
another public agency or private entity), or through a	
combination of providers	
Upgrade hardware and software, as needed, to avoid	
negative impacts to operations, compatibility with partner	
agencies, security, access, and functionality of equipment	
 Manage the budget and build M&O expenses and personnel	
to effectively manage system assets (e.g., continually monitor	
asset inventory) into plans from the start	
 Report any unexpected costs to project managers 	
immediately	
Share emergency communications needs with decision-makers	
early and continually	
 Coordinate with the Statewide Interoperability 	
Coordinator (SWIC), Statewide Interoperability Governing	
Body (SIGB)/ State Interoperability Executive Council	
(SIEC), state and local, officials, state planners,	
Statewide Administrative Agency (SAA), risk managers,	
and users to convey ongoing communications system	
needs and costs	
 Prepare an annual report and brief state/local 	
legislature regularly on the status of the communications	
system and funding priorities	









PHASE 5 Checklist: Asset Inventory

Determine the inventory scope (e.g., conduct an enterprise- wide inventory including all communications equipment, or update an existing inventory system) Identify all data elements to collect and track, including: - Agency: Department in possession of the radio - Make: Manufacturer of the radio - Model Name: The manufacturer-assigned model name - Model #: The manufacturer-assigned model number - Serial #: The equipment's serial number - License #: There may be a need for a license # (for software) - Type: Control station, portable, mobile, etc. - Asset #: Your agency's asset number affiliated with the radio, if any - Band(s): VHF, UHF, 800 MHz, etc. - Condition: Create a consistent code to indicate the physical condition (e.g., simple 1-5 scale, with 1 meaning "This radio should be replaced" to 5 meaning "Like new condition") - LOC1: Primary location to which this piece of equipment is assigned - LOC2: Specific location where equipment is permanently	
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assigned - LOC2: Specific location where equipment is permanently	
 LOC2: Specific location where equipment is permanently 	
mounted or stored when not in use	
Channels: Number of channels in the radio (if applicable) MEG detail Data of magnificatives, as above, and	
MFG date: Date of manufacture, as shown on a manufacturer's plate.	
manufacturer's plate - Firmware version: Version number and date of radio's	
Firmware version: Version number and date of radio's firmware	
Radio ID: Push to talk or internal ID of radio	
Alias: If an alias has been programmed for the radio,	
show it here	
Program: If your agency uses standard templates to	
program your radios, indicate here (e.g., "EMS	
Supervisor")	
Rebanded: Status of rebanding (if applicable)	
Narrowband: Status of narrowband (if applicable)	
Encryption capable: Yes or No	
 Encryption type: AES, DES-OFB, etc. 	
Encryption enabled: Yes or No	
Purchase date: Date radio was purchased, if known	
Purchase price: Price paid for initial purchase of radio, if	
known	
Funding Source: Grant, state funds, etc.	
Accessories: Holster, charger, speaker/mic, etc. either	
provided upon issuance or later	
Last Inspected: Dates on when the equipment was last	
inspected	
Last Upgraded: Dates on when the equipment/software	
was last upgraded	











	 Upgrade Due: Dates on when the equipment is scheduled for upgrade (if applicable) 	
	 Notes: Free-form notes about the radio (e.g., repair notes, transfer notes) 	
	 Fleet information: some agencies keep a separate list for 	
	vehicles	
	 FCC Licenses: Number and status of licenses 	
	Determine and list sites for all inventory, which may include	
	fire/police stations, substations, dispatch centers, transmitter	
	sites, satellite receiver sites, and other sites where assets are stored	
	Consider options and develop/purchase the inventory tool,	
	such as an Excel spreadsheet with drop-down boxes, or a Web-	
	based tool enabling multiple agencies to update information	
	online	
	Determine how data will be collected (e.g., initial inventory list	
	provided by vendor; automatically via radio test/diagnostic	
	mode to provide serial number, firmware version, etc. through	
	a key combination/cable connection to a laptop; manually during a physical examination of the equipment; or a	
	combination of solutions)	
П	Determine how equipment will be tracked and marked, such	
	as asset tags affixed to equipment corresponding to number in	
	asset inventory; bar codes; Quick Response codes; or color-	
	coded stickers	
	Determine the inventory team, including personnel who are savvy about communications equipment	
	<u> </u>	
	Prepare to collect information	
	Distribute data elements to inventory team, solicit	
	feedback, and update the tool as needed	
Ш	Ensure laptops being used to collect data have the activery peopled to read agricument numbers and	
	software needed to read equipment numbers and software versions are up-to-date	
	 Coordinate with each site to schedule an inventory 	
	session; ensure all users have or bring all equipment to	
	the inventory session	
	 Schedule training for inventory team 	
	Train and assign locations to the inventory team	
	Train the inventory team on capturing data in the selected	
	tool	
Ш	Create a mechanism (feedback loop) to capture	
	idiosyncrasies found while collecting data so team members are managing idiosyncrasies in the same way	
	(i.e., standardized data collection)	
	Assign team members to specific locations	
	 Provide targeted milestone and completion dates 	
	Conduct the inventory	
	 Survey all equipment information and record into the 	
	inventory tool	
	 Make note of missing information 	
	 Keep a list of departments/agencies that need to be 	





	Revisit departments/agencies to collect any missing information	
	 Prepare a list of missing information and send to specific 	
	departments/agencies	
	 Revisit to collect missing information 	
	Compile data	
	 Appoint a single person to review, assure, and compile 	
	data	
	 Conduct quality assurance on data 	
	 Make a list of any remaining information to be tracked 	
	down	
	 Indicate any caveats in the Notes section of the database 	
	 Record best practices and lessons learned 	
	Develop processes for maintaining data	
	 Create policies and processes for updating inventory (e.g., 	
ш	reporting transfer or loss of equipment)	
	 Distribute policies and processes to personnel 	
	 Remind personnel frequently of the importance of an 	
	accurate inventory	











PHASE 6 End-of-Lifecycle Assessment and Replacement | Year 7 - Year 25

	Conduct ongoing assessments of current systems	
ш	 Meet with users to determine the status of 	
	communications capabilities	
	 Assess operational suitability and stability 	
	 Identify system weaknesses, both technical and 	
	operational	
	 Analyze system expenses including capital 	
	expenditures, recurring costs, and maintenance	
	 Review the potential impacts of future demographic 	
	and operating environment shifts, including expansion	
	of services, workforce, and areas of operation	
	 Implement a balanced scorecard to plan for technology 	
	maturity	
	Refresh or upgrade systems as needed to extend the life	
Ш	 Review possible technologies to extend the life of 	
	mission critical communications systems	
	 Upgrade hardware and install software versions to 	
	maintain operations and security	
	Determine potential replacement solutions, with	
Ш	considerations to:	
	 Support national, state, and regional interoperability 	
	initiatives	
	 Consider early adoption of new technologies 	
	 Adhere to widely-used technical standards; reference 	
	the <u>SAFECOM Guidance on Emergency</u>	
	<u>Communications Grants</u> and products from the <u>Federal</u>	
	Partnership for Interoperable Communications	
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PHASE 7 **Disposition** | 90 Days After Cut-Over or Transition

	Develop a disposition plan	
ш	 Incorporate disposition planning early in the project 	
	planning process	
	 Review past projects to learn how long the Disposition 	
	Phase has taken for similar projects	
	 Build sufficient time for planning into project work 	
	plans	
	Engage stakeholders and partners early to understand user	
	needs and requirements	
	 Convene a meeting with disposition leadership, 	
	managers, and appropriate team members	
	 Discuss activities in the disposition plan and assign 	
	leads to relevant activities	
	 Determine how users and user needs may affect 	
	project disposition and the timeline	
	Identify disposition options in consideration of legal l <mark>imita</mark> tion	
ш	and business requirements	
	 Reuse old components for the new system 	
	 Repurpose old components into another department 	
	 Consider space availability for equipment 	
	 Convey surplus property to partner agencies regardless 	
	of jurisdictional boundaries	
	Brief leaders on disposition plans	
	 Obtain final, formal approvals on the disposition plans 	
	 Consider rolling unresolved issues and changes into 	
ш	the next phase of a new project	
	 Communicate user needs to elected officials 	
	 Share results with relevant stakeholder bodies (e.g., 	
	Statewide Interoperability Governing Bodies, Regional	
	Emergency Communications Coordination Working	
	Group)	
	Identify lessons learned following disposition	
	 Ensure compliance with funding closeout requirements, 	
	if applicable	
	 Conduct a post-disposition survey or session to solicit 	
	feedback with stakeholders	
	 Compile a closeout report showing final status of 	
	system issues, changes, risks, and costs	
	 Share lessons learned with stakeholders and officials 	
	to assist with future decision-making	
	 Reassign remaining disposition staff to other 	
	assignments	



