



SYSTEMS LIST - STATEWIDE COMMUNICATIONS INTEROPERABILITY PLAN (SCIP)

April 9, 2015

ABSTRACT

This document is a compilation of public safety wireless networks used by cities, counties and state government in Washington. This compilation includes both Mission-Critical Voice (MCV) and Mission-Critical Data (MCD) networks. This compilation supports planned changes to the SCIP.

State Interoperability Executive Committee (SIEC)

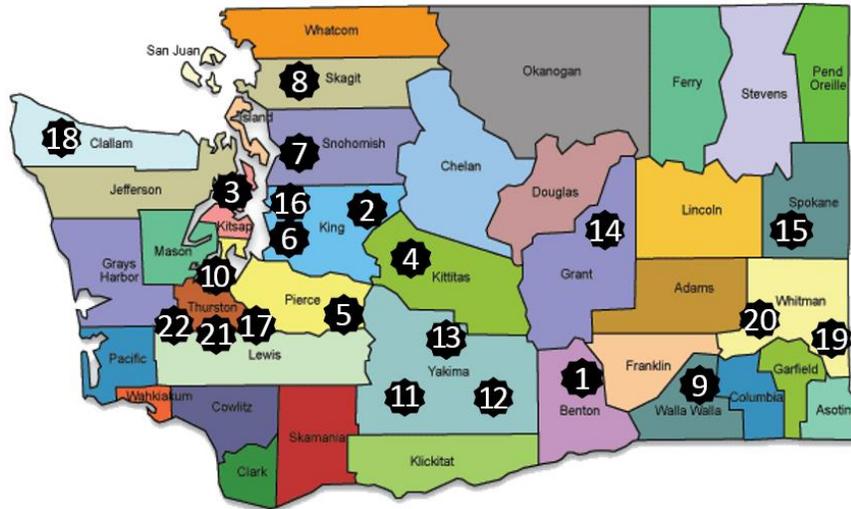
This document is produced under the authority of the Washington SIEC managed by the Office of the Chief Information Officer (OCIO) and Washington State Patrol (WSP).

Disclaimer: This collection systems is as of April 9, 2015 and we recognize that there are networks missing from this catalog. To add your system, please contact onenet@onenet.wa.gov

Introduction

This compilation of mission critical wireless networks is based upon data collected during the State Communications Interoperability Plan (SCIP) Workshop in Spokane on August 13-14, 2014 and the SCIP update on February 12, 2015.

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Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Benton County Emergency Services
Radio system name:	Benton County Emergency Services
Point of contact:	Doug deGraaf
Website:	http://www.bces.wa.gov
Frequency band or technology:	P25 800MHz Simulcast, used by all Law Enforcement Agencies in Benton County – Owned by BCES VHF Narrowband Simulcast, used by all Fire/EMS Agencies in Benton County, connected to Motorola Astro P25 System via CCGW's – Owned by City of Richland/Fire
Approx. number of mobile/vehicle radios:	309 (800MHz Only)
Approx. number of handheld radios:	668 (800MHz Only)
Approx. number of radio sites:	6 with RF, 8 total (includes BCES and another microwave hop)
Size of agency (number of people):	60
Issues with MCV:	<ul style="list-style-type: none"> • End User Training • Diagnostic Equipment and Training to help identify and troubleshoot interference issues • Interoperability with adjacent agencies including (but not limited to) Yakima County (Grandview, Sunnyside, etc.), Grant County, Umatilla County, Franklin County, and Walla Walla County. • Replacement of Radio Assets. Motorola is phasing out the XTL and XTS series of radios, the user agencies will need to replace their equipment in the future to stay current and healthy

Mission-Critical Data (MCD)

Agency:	Benton County Emergency Services
Current mobile data provider:	Not answered
Approximate cost per month per use:	Not answered
Approx. number of users or user devices:	Not answered
Applications in use today:	Not answered
Applications planned or needed:	Not answered
Issues with MCD:	Not answered

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	King County, Radio Communications Services
Radio system name:	King County 800 MHz Emergency Radio System
Point of contact:	Anthony Minor (206-263-8104) Anthony.minor@kingcounty.gov
Website:	http://www.kingcounty.gov/operations/it/it-services/radio.aspx
Regions served:	Valleycom - http://www.valleycom.org/ EPSCA – http://www.epsca.com/homepage.html City of Seattle - http://www.seattle.gov/information-technology/initiatives
Frequency band or technology:	<ul style="list-style-type: none"> 800 MHz, Motorola ASTRO 25 Smartzone 4.1
Approx. number of mobile/vehicle radios:	10K (includes subscribers for each owner of the Regional System)
Approx. number of handheld radios:	8K (includes subscribers for each owner of the Regional System)
Approx. number of radio sites:	29 (includes all sites for each owner of the Regional System)
Size of agency (number of people):	<p>There are four owner Agencies of the KC Regional 800 MHz System. The system core is jointly owned and maintained; radio sites providing coverage in each owner’s service area are individually owned and maintained. Staff counts are:</p> <p>King County – 13 City of Seattle - 10 Valley Communications Center – 2 (maintenance contracted to KC) East Site Public Safety Communications Agency (EPSCA) – 2 (maintenance contracted to Motorola)</p>
Issues with MCV:	<ul style="list-style-type: none"> Interoperability. There are lots of disparate systems and although interoperability is possible and often facilitated there are many challenges and limitations that make interoperability clumsy and much less graceful that it could be if these disparate systems performed as one system Many systems utilize vendor proprietary technology making interoperability limited or not possible Expense, the cost of MCV equipment, in particular subscriber equipment can be stifling and often is a prime impediment to upgrading or replacing the networks they operate on Lack of competition and resultant high prices for MCV infrastructure and subscriber equipment

Mission-Critical Data (MCD)

Agency:	King County, Radio Communications Services
Current mobile data provider:	System does not include Mobile Data application. End Users receive these services from Commercial Providers
Approximate cost per month per use:	Not known
Approx. number of users or user devices:	Not known
Applications in use today:	Not known
Applications planned or needed:	Not known
Issues with MCD:	Not known

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Kitsap County CENCOM
Radio system name:	Kitsap County Public Safety Radio System
Point of contact:	Dean Heistand
Website:	http://www.kitsap911.org/
Frequency band or technology:	VHF Conventional Analog Simulcast
Approx. number of mobile/vehicle radios:	1,500
Approx. number of handheld radios:	1,000
Approx. number of radio sites:	14
Size of agency (number of people):	<ul style="list-style-type: none"> • 6 Fire Agencies • 5 LE Agencies • (Unknown number of staff)
Issues with MCV:	<ul style="list-style-type: none"> • Additional towers • In-building coverage improvements (BDA systems for large facilities such as schools, medical facilities, strip malls, office buildings) • More radio channels

Mission-Critical Data (MCD)

Agency:	Kitsap County CENCOM
Current mobile data provider:	Verizon
Approximate cost per month per use:	\$166K
Approx. number of users or user devices:	300
Applications in use today:	<ul style="list-style-type: none"> • CAD • AVL • LE RMS • Fire RMS • EMS RMS • Sector
Applications planned or needed:	Not answered
Issues with MCD:	<ul style="list-style-type: none"> • Coverage, more carrier towers needed • Higher throughput

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	KITTCOM (Kittitas County 911 and Dispatch)
Radio system name:	KITTCOM
Point of contact:	Bob Johnson, KITTCOM, Communications Engineer
Website:	http://www.kittcom.org/
Frequency band or technology:	VHF Analog Conventional Narrowband Wide Area Coverage, Voted Simulcast 5 Channels (plus repeaters and simplex)
Approx. number of mobile/vehicle radios:	200
Approx. number of handheld radios:	600
Approx. number of radio sites:	<ul style="list-style-type: none"> • 5 Primary Radio Sites providing mobile coverage Bandera to George • 2 Secondary Radio Sites
Size of agency (number of people):	Not answered
Issues with MCV:	<ul style="list-style-type: none"> • Need to develop and fund a replacement strategy for fixed radio infrastructure and network • Coverage expansion into the last 5% areas where calls for service are increasing

Mission-Critical Data (MCD)

Agency:	KITTCOM (Kittitas County 911 and Dispatch)
Current mobile data provider:	AT&T and Verizon
Approximate cost per month per use:	\$49/mo/unit (user device)
Approx. number of users or user devices:	95
Applications in use today:	<ul style="list-style-type: none"> • Computer aided dispatch for law • ACCESS-CJIS • Sector (integrated ticketing) • Mobile connectivity to file servers • Time keeping • E-Mail • Internet access • Remote/mobile maintenance/diagnostics for: 911 telephone systems, internal network, software, remote site generator status, equipment alarms, transport network monitoring and control, PSAP HVAC status and control, microwave transport status
Applications planned or needed:	TBD
Issues with MCD:	<ul style="list-style-type: none"> • Carrier network site/throughput glutting in areas outside of county seat • Legacy 2G coverage by certain carriers • Unavailability/diversity during carrier site maintenance and layer 1 interruptions • Lack of visibility and notification for carrier outages and maintenance

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Pierce County / Pierce Transit
Radio system name:	Single County-Wide Communications System (SCWCS)
Point of contact:	Tim Lenk (253)798-7011/ Carlos Davis (253)255-8323
Website:	http://www.southsound911.org/
Frequency band or technology:	700 MHz TDMA / P-25 Phase 2, UHF Data, VHF 410 Corridor
Approx. number of mobile/vehicle radios:	2000
Approx. number of handheld radios:	2000
Approx. number of radio sites:	<ul style="list-style-type: none"> • 700 Sites • UHF 6 site • VHF 3 sites
Size of agency (number of people):	Not answered
Issues with MCV:	<ul style="list-style-type: none"> • We are connecting an ISSI 8000 to the Tacoma / Puyallup 800 MHz system, and an ISSI .1 to the WSP system

Mission-Critical Data (MCD)

Agency:	Pierce County / Pierce Transit
Current mobile data provider:	Verizon, AT&T
Approximate cost per month per use:	50
Approx. number of users or user devices:	350
Applications in use today:	<ul style="list-style-type: none"> • CAD, reports • NCIC database
Applications planned or needed:	Not answered
Issues with MCD:	<ul style="list-style-type: none"> • No video • coverage gaps • speed hinders download of large files, such as maps and photos

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	City of Seattle
Radio system name:	King County Regional Trunked Radio System (also identified by other names that are variations of this)
Point of contact:	Overall Network Manager: Anthony Minor (King County) City of Seattle subsystem: Spencer Bahner
Website:	http://www.seattle.gov/information-technology/initiatives
Frequency band or technology:	800 MHz trunked with 800 MHz and VHF/UHF conventional interop resources
Approx. number of mobile/vehicle radios:	City of Seattle: ~2500
Approx. number of handheld radios:	City of Seattle: ~3000
Approx. number of radio sites:	City of Seattle subsystem: 5 sites
Size of agency (number of people):	Not sure
Issues with MCV:	<ul style="list-style-type: none"> • Aging infrastructure/ reliability concerns for radio system • Coverage for radio • Availability of cellular voice services during network overload conditions

Mission-Critical Data (MCD)

Agency:	City of Seattle
Current mobile data provider:	Various. Presently not standardized to the degree the voice radio system is. Verizon and Sprint are primary service providers presently.
Approximate cost per month per use:	Variable depending on carrier
Approx. number of users or user devices:	This is also a bit challenging to answer. Is the question strictly for police/fire/EMS users or does this include users who become critical users in a disaster (say building inspectors after an earthquake or transportation users after a bridge collapse...)
Applications in use today:	<ul style="list-style-type: none"> • CAD • RMS • Specialty purchased apps, as well as locally developed apps • Normal business applications • Varies considerably depending on how 'wide a net is cast' for what departments are included in the 'mission critical' definition
Applications planned or needed:	List is growing but no detail presently available
Issues with MCD:	<ul style="list-style-type: none"> • Priority access during periods of network overload

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Snohomish County Emergency Radio System
Radio system name:	SERS
Point of contact:	Mark S. McDermott
Website:	http://www.sers800.org/
Frequency band or technology:	VHF, UHF, and 800MHz Motorola Trunked Smartzone Mixed Mode
Approx. number of mobile/vehicle radios:	4000
Approx. number of handheld radios:	4000
Approx. number of radio sites:	21
Size of agency (number of people):	9
Issues with MCV:	Not answered

Mission-Critical Data (MCD)

Agency:	Snohomish County Emergency Radio System
Current mobile data provider:	<ul style="list-style-type: none"> • Private Data Network, • Verizon, • AT&T
Approximate cost per month per use:	Unknown
Approx. number of users or user devices:	3000
Applications in use today:	<ul style="list-style-type: none"> • CAD • RMS • Messaging • Smart911
Applications planned or needed:	Not answered
Issues with MCD:	<ul style="list-style-type: none"> • Not answered

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Skagit 911
Radio system name:	<ul style="list-style-type: none"> • FIRE/EMS Radio System • SCSO Radio System • Law Enforcement Tactical Radio System • Mount Vernon PD Radio System • Anacortes PD/Swinomish PD Radio System • Burlington PD Radio System • BIA Radio System (Includes Upper Skagit and Saul Suiattle)
Point of contact:	Mike Voss 360-428-3206
Website:	http://www.skagit911.us/
Frequency band or technology:	Fire/EMS is VHF, Conventional, Analog, Simulcast with a combination of simplex and repeated. All law enforcement systems are UHF, conventional, analog, repeated
Approx. number of mobile/vehicle radios:	300
Approx. number of handheld radios:	1700
Approx. number of radio sites:	15
Size of agency (number of people):	40
Issues with MCV:	<ul style="list-style-type: none"> • Need to complete build out for portable radio coverage due to narrowbanding • Need to replace legacy non-public safety grade portables and mobiles • Need to add more console positions to the dispatch center • Need to provide continued training on use of subscriber equipment to partner agencies

Mission-Critical Data (MCD)

Agency:	Skagit 911
Current mobile data provider:	Agencies use the big 4 (AT&T, Sprint PCS, T-Mobile and, Verizon Wireless) depending on each carrier's coverage in their jurisdiction.
Approximate cost per month per use:	\$60
Approx. number of users or user devices:	Approximately 200
Applications in use today:	<ul style="list-style-type: none"> • CAD (Calls, Criminal History) • Outlook Web Access • GIS • WEB • Sector (Mobile Citations) • WISER • ERG • Paging Interface
Applications planned or needed:	Not Known
Issues with MCD:	<ul style="list-style-type: none"> • No one carrier provides coverage throughout the county. • Data speed • In building coverage in newer medium density and high density buildings. (Fire Code covers LMR but not MCD).

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Walla Walla Emergency Services Communications
Radio system name:	WESCOM
Point of contact:	Steven R. Ruley, Manager – Public Safety Communications
Website:	http://www.ci.walla-walla.wa.us/depts/police/dispatch
Frequency band or technology:	VHF; with UHF radio links
Approx. number of mobile/vehicle radios:	Estimated 60
Approx. number of handheld radios:	Estimated 75
Approx. number of radio sites:	5
Size of agency (number of people):	17
Issues with MCV:	<ul style="list-style-type: none"> • Replacement of equipment • Interoperability with surrounding counties/agencies • Lack of dependable countywide radio coverage

Mission-Critical Data (MCD)

Agency:	Walla Walla Emergency Services Communications
Current mobile data provider:	New World Systems
Approximate cost per month per use:	Unknown
Approx. number of users or user devices:	Approximately 80
Applications in use today:	<ul style="list-style-type: none"> • CAD • RMS
Applications planned or needed:	CAD System needs replacement or upgrade to Microsoft Platform (from DOS based platform)
Issues with MCD:	<ul style="list-style-type: none"> • Insufficient funding to provide MCD to all agencies in county • Poor coverage areas • Slow response time • Better equipment

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	WA Department of Fish and Wildlife (WDFW)
Radio system name:	WILDCOMM System
Point of contact:	Lt. Phil Johnson (253) 820-0328 (cell) Office (360) 902-2978
Website:	http://wdfw.wa.gov/enforcement/personnel.html
Frequency band or technology:	<ul style="list-style-type: none"> • VHF Hi-Band Conventional/P25 and trunked • 700 MHz Trunked • 800 MHz Trunked
Approx. number of mobile/vehicle radios:	<ul style="list-style-type: none"> • 180 dual band (P25 VHF/7-800 Trunked) mobiles for vehicles, vessels, and 1 aircraft • For WDFW police; approx. 100 mobiles for non-enforcement staff • 2 portable emergency VHF High Band repeater kits licensed for statewide operation
Approx. number of handheld radios:	<ul style="list-style-type: none"> • 150 dual band P25 portables (1/3 VHF-UHF conventional and trunked; 2/3 VHF-7-800 MHz Trunked) for WDFW police • Approx. 300 conventional P25 and non P25 portables (VHF) for non-enforcement staff
Approx. number of radio sites:	45 (Note: these are primarily low elevation control base station and “desk top” base stations for the WILDCOMM System)
Size of agency (number of people):	Approx. 1600
Issues with MCV:	<ul style="list-style-type: none"> • Most critical for WDFW is the creation of a stable, robust, extremely reliable, and affordable dedicated state network for Radio over Internet Protocol (RoIP) purposes • Also useful would be state mandated and funded training exercises involving multiple agencies using existing assets such as the OSCCR System or other interop systems or channels

Mission-Critical Data (MCD)

Agency:	WA Department of Fish and Wildlife (WDFW)
Current mobile data provider:	WDFW police use the three major cell carriers data systems using “aircards”
Approximate cost per month per use:	We use the State DES contract which has unlimited data
Approx. number of users or user devices:	150
Applications in use today:	<ul style="list-style-type: none"> • Criminal Justice data (encrypted) • “chat messaging” • AVL and mapping; email • CAD functions through our WILDCOMM System (silent dispatching)
Applications planned or needed:	Streaming Video (nice to have)
Issues with MCD:	<ul style="list-style-type: none"> • No coverage in remote areas where WDFW police officers often work

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	SunComm (City of Yakima and Yakima County Fire Districts)
Radio system name:	City of Yakima Fire Department
Point of contact:	David Brush – dbrush@ci.yakima.wa.us
Website:	http://www.yakimacountyems.com/agencydirectory.html
Frequency band or technology:	<ul style="list-style-type: none"> • VHF high band • 2 repeater channels, one of which is voted • 5 simplex tactical channels shared with Yakima County Fire Districts • UHF transmitter, used for Zetron dispatch audio
Approx. number of mobile/vehicle radios:	Approximately 50
Approx. number of handheld radios:	Approximately 150
Approx. number of radio sites:	<ul style="list-style-type: none"> • 1 site for repeaters • 1 additional voter receiver site • 1 Dispatch site
Size of agency (number of people):	100 officers, FF's, and dispatchers
Issues with MCV:	<ul style="list-style-type: none"> • Convert both repeaters to full simulcast at 2 existing sites • Add at least 2 additional sites for better in-building coverage on both channels

Mission-Critical Data (MCD)

Agency:	SunComm (City of Yakima and Yakima County Fire Districts)
Current mobile data provider:	Coban MDT, we are mostly self-maintained. Network is via cell-towers
Approximate cost per month per use:	About \$60/unit for cell system charges. City internal costs are unknown (part of the IT departments costs), but at least 2 full time employees
Approx. number of users or user devices:	<ul style="list-style-type: none"> • About 50 MDT's in first response vehicles • About 10 additional in staff portable devices
Applications in use today:	<ul style="list-style-type: none"> • CAD dispatch • GPA tracking • Mapping display • Prefire plan • Secure messaging • Incident reporting
Applications planned or needed:	<ul style="list-style-type: none"> • Fastest response routing • Video transferring
Issues with MCD:	<ul style="list-style-type: none"> • Response routing application is slow and unreliable

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	SunComm (City of Yakima and Yakima County Fire Districts)
Radio system name:	City of Yakima Police Dept.
Point of contact:	David Brush – dbrush@ci.yakima.wa.us
Website:	http://www.yakimacountyems.com/agencydirectory.html
Frequency band or technology:	<ul style="list-style-type: none"> • VHF high band • 2 fixed repeater channels, one of which is voted (4 sites) • 1 mobile repeater • 5 simplex tactical channels shared with WSP, Yakima Sheriff, and other area cities
Approx. number of mobile/vehicle radios:	130
Approx. number of handheld radios:	180
Approx. number of radio sites:	<ul style="list-style-type: none"> • 1 transmitter site • 3 additional voting receiver sites for main dispatch channel • 1 dispatch center
Size of agency (number of people):	150
Issues with MCV:	<ul style="list-style-type: none"> • Convert both repeaters to full simulcast at all 4 sites • Add at least one additional site

Mission-Critical Data (MCD)

Agency:	SunComm (City of Yakima and Yakima County Fire Districts)
Current mobile data provider:	Coban MDT, we are mostly self-maintained. Network is via cell-towers
Approximate cost per month per use:	About \$60/unit for cell system charges. City internal costs are unknown (part of the IT departments costs), but at least 2 full time employees
Approx. number of users or user devices:	<ul style="list-style-type: none"> • About 90 MDT's in first response vehicles • About 10 additional in staff portable devices
Applications in use today:	<ul style="list-style-type: none"> • CAD dispatch • GPS tracking • Mapping display • Secure messaging • Incident reporting • Video& audio recording (dash-cams, officer mics)
Applications planned or needed:	<ul style="list-style-type: none"> • Fastest response routing • Video transferring • Wi-Fi file transferring (currently done by portable hard drives)
Issues with MCD:	<ul style="list-style-type: none"> • Response routing application is slow and unreliable

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	SunComm (City of Yakima and Yakima County Fire Districts)
Radio system name:	Yakima County Upper Valley Fire Districts
Point of contact:	David Brush dbrush@ci.yakima.wa.us
Website:	http://www.yakimacountyems.com/agencydirectory.html
Frequency band or technology:	<ul style="list-style-type: none"> • VHF High Band Simulcast – connected by 900 MHz microwave links • Standalone VHF repeaters covering areas not reachable by the simulcast • 5 simplex tactical channels shared with City of Yakima
Approx. number of mobile/vehicle radios:	Unknown. Estimated 150 (Mobile and portable radios and control stations are maintained by the individual fire districts. SunComm only maintains the repeater system)
Approx. number of handheld radios:	<p>Unknown. Estimated 250 (Same comment as above)</p> <ul style="list-style-type: none"> • Approx. 250 two-tone pagers
Approx. number of radio sites:	<ul style="list-style-type: none"> • 3 transmitter sites for simulcast channel • 1 Dispatch center • 5 control stations at fire houses • 4 remote mountaintop repeaters
Size of agency (number of people):	Approx. 25 paid and approx. 200 volunteer FF's (11 fire districts and cities within the north half of Yakima County)
Issues with MCV:	<ul style="list-style-type: none"> • Some equipment was purchased for a fourth site to cover part of Hwy 410 (Nile Valley), but no site has been ID'd • Once a site is developed, will need microwave or other method to link the site to the system

Mission-Critical Data (MCD)

Agency:	SunComm (City of Yakima and Yakima County Fire Districts)
Current mobile data provider:	Coban MDT, maintained by City of Yakima staff. Network is via cell-towers
Approximate cost per month per use:	About \$60/unit for cell system charges. City internal costs are unknown (part of the IT departments costs), but at least 1 full time employee
Approx. number of users or user devices:	35 MDT's in first response and staff vehicles
Applications in use today:	<ul style="list-style-type: none"> • CAD dispatch • GPS tracking • Mapping display • Prefire plans • Secure messaging • Incident reporting
Applications planned or needed:	<ul style="list-style-type: none"> • Fastest response routing • Video transferring
Issues with MCD:	<ul style="list-style-type: none"> • Response routing application is slow and unreliable

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Grant County Sheriff's Office
Radio system name:	<ul style="list-style-type: none"> • MACC VHF • MACC alpha numeric paging • MACC 800 MHz
Point of contact:	Dean Hane
Website:	http://www.grantcountywa.gov/SHERIFF/
Frequency band or technology:	<ul style="list-style-type: none"> • VHF simulcast conventional • 800 MHz P25 trunked phase 1
Approx. number of mobile/vehicle radios:	400 mobiles
Approx. number of handheld radios:	800 portables
Approx. number of radio sites:	11 transmit receive sites, 13 including microwave connectivity
Size of agency (number of people):	All fire, law, EMS county wide, also serves Washington State Parks and DOC in county
Issues with MCV:	<ul style="list-style-type: none"> • VHF Areas of time delay interference • Additional site under development • Desire to encrypt primary dispatch channels while continuing to maintain interoperability with WSP, Fish and Wildlife, etc.

Mission-Critical Data (MCD)

Agency:	Grant County Sheriff's Office
Current mobile data provider:	Verizon
Approximate cost per month per use:	\$43 for data
Approx. number of users or user devices:	Grant County Sheriff's Office & IT= 60 mifi + 60 phones.
Applications in use today:	<ul style="list-style-type: none"> • Email • Spillman CAD/RMS • Teamspeak 3 for one to many voice capability, texting, and file transfer capabilities • Web access to Lexipol • Spillman Insight • Washington Secure Access • NCIS LiNX • DOT Hazmat guide • RCW and county code
Applications planned or needed:	<ul style="list-style-type: none"> • Field fingerprint collection and analysis to federal data base • AVL and automatic personnel locator • Video surveillance supporting both mobile cameras and delivering video streams to field users • Next generation Incident Command System. (developed by MIT open source) • Automatic license plate collection and data base storage
Issues with MCD:	<ul style="list-style-type: none"> • Increased coverage • Low cost devices with improved external antenna connections • Low cost amplifiers that support MIMO antenna configurations • Waiting for relaying capability allowing mobile unit with permanent antennas to relay handheld devices • Low cost persistent session solution with expectation of end to end security to home network determine how applications at First Net will be accessed • Implementation of federated authentication allowing one authentication to provide access to the multiple different locations a user may be authorized to access

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Spokane Regional Emergency Communications Systems (SRECS)
Radio system name:	Spokane Regional Emergency Communications Systems (SRECS)
Point of contact:	Bob Lincoln (509) 835-4521 blincoln@spokanecity.org
Website:	http://srecswa.org/
Frequency band or technology:	<ul style="list-style-type: none"> • 800 MHz P25 Trunked • 150-174 MHz (VHF) • 421-512 MHz (UHF) • 25 Common Air Interface Exclusive • Simulcast and Multicast
Approx. number of mobile/vehicle radios:	1500
Approx. number of handheld radios:	2500
Approx. number of radio sites:	19
Size of agency (number of people):	10 Employees serving 21 public safety agencies
Issues with MCV:	<ul style="list-style-type: none"> • Not answered

Mission-Critical Data (MCD)

Agency:	Spokane Regional Emergency Communications Systems (SRECS)
Current mobile data provider:	Not Answered
Approximate cost per month per use:	Not answered
Approx. number of users or user devices:	Not answered
Applications in use today:	<ul style="list-style-type: none">• Not answered
Applications planned or needed:	Not answered
Issues with MCD:	<ul style="list-style-type: none">• Not answered

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Port of Seattle
Radio system name:	Port of Seattle Public Safety
Point of contact:	Debra Davis, davis.d@portseattle.org (206) 787-5193, Desk (206) 947-7734, Cell
Website:	http://www.portseattle.org/
Frequency band or technology:	<ul style="list-style-type: none"> • 800 MHz trunked • Hybrid Motorola Astro P25, v7.13 core, v7.14 MCC7500 dispatch consoles and Motorola SmartZone 4.1 mixed-mode proprietary RF sites.
Approx. number of mobile/vehicle radios:	700
Approx. number of handheld radios:	1,100
Approx. number of radio sites:	5 radio sites 1 PSAP dispatch center, 1 backup PSAP dispatch center, 1 SeaTac airport communications center, 1 Seattle Ramp Tower center, 1 aviation operations center and 1 seaport maintenance center 25 dispatch consoles positions total.
Size of agency (number of people):	1,750
Issues with MCV:	<ul style="list-style-type: none"> • RF sites still running on proprietary technology

Mission-Critical Data (MCD)

Agency:	Port of Seattle
Current mobile data provider:	Port provided WiFi, Port provided 4.9, and Verizon/AT&T service providers
Approximate cost per month per use:	Approximately \$60/month
Approx. number of users or user devices:	Not answered
Applications in use today:	<ul style="list-style-type: none"> • CAD • RMS • e-mail • internet • GIS
Applications planned or needed:	<ul style="list-style-type: none"> • Video transferring
Issues with MCD:	<ul style="list-style-type: none"> • Coverage gaps • No priority access • Data speed • In-building coverage

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	WSDOT
Radio system name:	Intelligent Transportation & Wireless Systems
Point of contact:	Tim McDowell
Website:	http://wsdot.wa.gov/Operations/ITS/wireless.htm
Frequency band or technology:	<ul style="list-style-type: none"> • VHF, 700 and 800 MHz Trunked and Conventional • Voice (Conventional VHF & EFJ MultiNet II Trunked 800 MHz) • Data (IPMN, 700MHz)
Approx. number of mobile/vehicle radios:	Over 3000
Approx. number of handheld radios:	Over 800
Approx. number of radio sites:	138 sites
Size of agency (number of people):	Over 6000
Issues with MCV:	<ul style="list-style-type: none"> • VHF - Incidence Response (IR) Interoperability with WSP, county sheriffs, local law enforcement, and road crews • 800 MHz – Additional site development in the rural parts of the state that require commercial power, extensive noncommercial power systems, microwave systems are challenging in these parts of the state and/or leases • 800MHz system end of life and needs to be replaced

Mission-Critical Data (MCD)

Agency:	WSDOT
Current mobile data provider:	WSDOT, Commercial Wireless
Approximate cost per month per use:	\$7000 in heavy equipment air card charges. Employee data costs TBD
Approx. number of users or user devices:	400 air card in Heavy equipment & Road side. 5000 cell phones
Applications in use today:	<ul style="list-style-type: none"> • Coordination and tracking of snow removal, road clearing, and de-icing/sand deployment • Coordination and tracking of heavy equipment and other maintenance resources • Coordination of highway emergency response activities
Applications planned or needed:	<ul style="list-style-type: none"> • Access to bridge and roadway data • Connected vehicle data
Issues with MCD:	<ul style="list-style-type: none"> • No one commercial provider covers entire state • Critical areas of the state for winter operations and emergency response have no commercial services • WSDOT owned system still under development, 1/3 of the state's population covered • Logistics and Resources management during emergency response due to differences in commercial resources

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Clallam County Sheriff OPSCAN Operation
Radio system name:	Olympic Public Safety Communications Alliance Network (OPSCAN) operation as Public Safety Radio Network (PSRN)
Point of contact:	Alice Hoffman, Chief Civil Deputy
Website:	N/A
Frequency band or technology:	Voice-over-IP network supporting nearly all responder and emergency management agencies in Clallam County, including Law Enforcement, several fire districts, Clallam Transit, and Incident Command vehicles
Approx. number of mobile/vehicle radios:	300 UHF and VHF in 9 mobile fleets Most fleets consist of mixed variety of radios
Approx. number of handheld radios:	<ul style="list-style-type: none"> • 106 – Law Enforcement Dual-band radios, • 60 FD radios
Approx. number of radio sites:	26
Size of agency (number of people):	<ul style="list-style-type: none"> • 2-person radio maintenance staff in Sheriff’s Office, in teamwork with Pencom Systems Coordinators • 1 contract design consultant • 1 contracted radio shop
Issues with MCV:	<ul style="list-style-type: none"> • End User Training • Diagnostic Equipment and Training to give early detection of problems, and identify and troubleshoot issues • Interoperability between County agencies, and with adjacent agencies including (but not limited to) Jefferson and Kitsap Counties and Federal agencies • Participation by agencies with personnel who can and will offer cooperation that will assure interoperability for all types of short- and long-term emergencies. • Getting agencies to use common terms in radios for each channel, and matching those to Pencom console labels • Coverage “holes” due to lesser performance of narrowband radios • Inadequate funding for optimum upkeep and expansion

Mission-Critical Data (MCD)

Agency:	Clallam County Mobile Data Network Operations
Current mobile data provider:	New World Systems – administered under Pencom Communications primarily by Verizon Wireless
Approximate cost per month per use:	Not answered
Approx. number of users or user devices:	Not answered
Applications in use today:	<ul style="list-style-type: none"> • CAD • Law Enforcement Records • Mobile AVL • In-car mapping • Field Reporting
Applications planned or needed:	Not answered
Issues with MCD:	<ul style="list-style-type: none"> • Incomplete coverage areas

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	City of Pullman, Police and Fire
Radio system name:	City Of Pullman Radio system Owned and operated by Whitman County Emergency Communications
Point of contact:	Steve Krigbaum Stevek@co.whitman.wa.us
Website:	N/A
Frequency band or technology:	VHF
Approx. number of mobile/vehicle radios:	Approximately 9
Approx. number of handheld radios:	Police 35
Approx. number of radio sites:	4
Size of agency (number of people):	Police 28
Issues with MCV:	<ul style="list-style-type: none"> • Not answered

Mission-Critical Data (MCD)

Agency:	City of Pullman, Police and Fire
Current mobile data provider:	Sprint and Verizon
Approximate cost per month per use:	\$45 per seat including tax WSCA contract, unlimited data 3g/4g
Approx. number of users or user devices:	10 (8 vehicles, 2 admin)
Applications in use today:	<ul style="list-style-type: none"> • CAD • LE Records • SECTOR • HAZMAT • RapidResponde • FaceBook • Fire Inspections
Applications planned or needed:	<ul style="list-style-type: none"> • Additional Netmotion Mobility licenses, Windows; we are at 100% use • Additional Netmotion Mobility Licenses, Android; (none exist)
Issues with MCD:	<ul style="list-style-type: none"> • Not answered

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Whitman County Emergency Management
Radio system name:	Whitman County Emergency Communications Whitman County Sheriff and all Fire, Local Law, and EMS agencies
Point of contact:	Steve Krigbaum Stevek@co.whitman.wa.us
Website:	N/A
Frequency band or technology:	<ul style="list-style-type: none"> • VHF Conventional • Some Simulcast
Approx. number of mobile/vehicle radios:	350
Approx. number of handheld radios:	500
Approx. number of radio sites:	20
Size of agency (number of people):	600
Issues with MCV:	<ul style="list-style-type: none"> • Missing sites probably two needed • Missing microwave backhaul 3 Hops plus closing the ring

Mission-Critical Data (MCD)

Agency:	Whitman County Emergency Management
Current mobile data provider:	Verizon
Approximate cost per month per use:	\$1200 for WCSO
Approx. number of users or user devices:	18
Applications in use today:	<ul style="list-style-type: none"> • CAD • Wi-Fi for web research • Mobile Ticketing and Data Access
Applications planned or needed:	<ul style="list-style-type: none"> • Same as above Watch for new ideas
Issues with MCD:	<ul style="list-style-type: none"> • Very poor coverage even with cell boosters • Low data rates

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Washington State Department of Natural Resources
Radio system name:	Not Answered
Point of contact:	Anton Damm, Communication Systems Director 360-902-1186 anton.damm@dnr.wa.gov
Website:	http://www.dnr.wa.gov/
Frequency band or technology:	<ul style="list-style-type: none"> • VHF 150-160 MHz, optimized for portable radio use • Leased line and microwave backhaul • IP Dispatch system, 7 dispatch centers
Approx. number of mobile/vehicle radios:	1250
Approx. number of handheld radios:	1450
Approx. number of radio sites:	56
Size of agency (number of people):	1500 (including seasonal fire control staff)
Issues with MCV:	<ul style="list-style-type: none"> • Uncoordinated disparate systems are being deployed statewide, complicating voice interoperability

Mission-Critical Data (MCD)

Agency:	Washington State Department of Natural Resources
Current mobile data provider:	AT&T
Approximate cost per month per use:	\$40
Approx. number of users or user devices:	50
Applications in use today:	<ul style="list-style-type: none"> • Fire Behavior Forecasting tools (Internet access, FLAMMAP, BEHAVE, Farsight, FireFamily Plus, Wind Ninja – always evolving) • Aviation Tools (Foreflight, Internet access) • WADNR Roads and TOPO • COML Garmin Topo (Internet access)
Applications planned or needed:	<ul style="list-style-type: none"> • WILDCAD Mobile • E-ISuite • Moving map
Issues with MCD:	<ul style="list-style-type: none"> • At this point, our mobile data needs are being met by vendor supplied Internet access. Increasing bandwidth and coverage while reducing cost would of course be welcomed

Mission-Critical Voice Land Mobile Radio Networks

Agency name:	Washington State Patrol
Radio system name:	WSP Land Mobile Radio System
Point of contact:	Mr. Robert Schwent Electronic Services Division Commander
Website:	WWW.WSP.WA.GOV
Frequency band or technology:	<ul style="list-style-type: none"> • VHF P25 Conventional • VHF narrowband analog • VHF P25 trunking • 700MHz P25 TDMA trunking
Approx. number of mobile/vehicle radios:	1300
Approx. number of handheld radios:	1400
Approx. number of radio sites:	130
Size of agency (number of people):	2100
Issues with MCV:	<ul style="list-style-type: none"> • Narrowbanding • Coverage • Technology refresh • Interoperability between systems of varying technology levels

Mission-Critical Data (MCD)

Agency:	Washington State Patrol
Current mobile data provider:	Verizon
Approximate cost per month per use:	Average \$70,000 monthly
Approx. number of users or user devices:	850
Applications in use today:	<ul style="list-style-type: none"> • SECTOR (eCitations/Collision Reports) • Premier Mobile Data (Motorola CAD) • Time and Activity • E-mail • In-vehicle video camera
Applications planned or needed:	<ul style="list-style-type: none"> • Records Management
Issues with MCD:	<ul style="list-style-type: none"> • Video data management/redaction related to public disclosure requests

Additional Resources

RadioReference.com Trunked Radio Systems:

[http://wiki.radioreference.com/index.php/Trunked Radio Systems %28WA%29](http://wiki.radioreference.com/index.php/Trunked_Radio_Systems_%28WA%29)

MRSC Regional Emergency Communications Facilities

<http://www.mrsc.org/subjects/pubsafe/emergency/em-emercom.aspx#regional>

Continued on next page

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
Benton County, Southeast Communications Center (SECOMM)	Emergency management (Benton County Emergency Management) & communications services (SE Communications Center), 800 MZ Administered by Richland	Created under RCW 39.34	Benton County, Kennewick, Richland, Benton City, West Richland, Prosser	Executive Board, Director, employees, contracts with Richland for services
Chelan-Douglas County RiverCom 911, 2002	Public Safety Answering Point	Created under RCW 39.34 Interlocal Agreement	Serves 30 public safety agencies in Chelan and Douglas Counties User Agencies User Agreement	Five voting board members, 8 <i>exofficio</i> board members
Clark County, Clark Regional Emergency Service Agency (CRESA), 1976 as CRCA, named changed 2001	911 Dispatch, Regional Communications, Emergency Management, Emergency Medical	RCW 39.34 Interlocal Agreement, 2001	User Agencies Clark County, Battle Ground, Camas, La Center, Ridgefield, Washougal and Yacolt, Vancouver Clark County FDs 1,3,6,9,10,11,12,13 and 14, North Country EMS, Cowlitz & Skamania FDs #7	Governed by an Administrative Board comprised of nine board members serving indefinite terms. Administrative Board
Clallam County, Peninsula Communications (PenCom), administered by City of Port Angeles, 1992	Consolidated Emergency Communications and Records Management center	RCW 39.34	Port Angeles Police and Fire Departments, Clallam County Sheriff's Department, Sequim Police Department, Lower Elwha Tribal Police, La Push Tribal Police, Olympic National Park Rangers, and four rural fire protection districts	Oversight by City of Port Angeles

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
County, Communications Center (911), 1975	Consolidated 911 call answering and emergency dispatch service for police, fire, and emergency medical services	Created Under RCW 39.34 Interlocal Agreement	Castle Rock, Castle Rock Fire and EMS, Cowlitz County FPD No. 1,2,3,4,5,6, Clark County FP No.2, Cowlitz County, Kalama, Kelso, Longview, Woodland, AMR (American Medical Response - contracted with Cowlitz)	911 Council composed on one elected official from each jurisdiction
Grant County, Multi-Agency Communications Center, 1995	Consolidated Dispatch	Created under RCW 39.34 Interlocal Agreement	Soap Lake, Mattawa, Warden, Ephrata, Moses Lake, Electric City, Royal City, Grand Coulee, Coulee City and Quincy; Grant County FPD Nos. 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15	Board of Directors, Elected Administrator
Grays Harbor Communications Center, 1989	Consolidated Dispatch	Created under RCW 39.34	Serves 39 agencies	7 member administrative board of county & cities; operating board; and sub committees; Executive Director
Island County Emergency Services Communications Center(I-COM)	911, Consolidated Dispatch	Created under RCW 39.34	Provide emergency to all of the law enforcement, fire and emergency medical agencies that serve Island County (both Whidbey and Camano Island).	Board of Directors, Executive Director, employees

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
King County, Eastside Public Safety Communications Agency (EPSCA), 1992	Agency is responsible for developing, owning, operating, and managing a geographical subregion of the King County Regional Emergency Radio Communications System	Ch. 39.34 RCW, Effective March 1, 2013, the Agency was restructured as a nonprofit organization pursuant to Interlocal Cooperation Act Interlocal Agreement	Bellevue, Redmond, Kirkland, Mercer Island, and Issaquah	Executive Board, which is composed of the Chief Executive Officers of the Principals Bylaws
King County, North East King County Regional Public Safety Communications Agency (NORCOM), 2008	911, consolidated dispatch	Ch. 39.34 RCW	19 Agencies - Police Departments: Bellevue, Clyde Hill, Kirkland, Medina, and Mercer Island Fire Departments: Bellevue, Bothell, Duvall Fire District 45, Eastside Fire & Rescue, Fall City Fire District 27, Kirkland, Mercer Island, Northshore Fire Department, Redmond, Shoreline Fire Department, Skykomish Fire Department, Snoqualmie, Snoqualmie Pass Fire & Rescue (Fire District 51), and Woodinville Fire & Rescue	A 15-member Board governs the agency and appoints an Executive Director to administer its services
King County, Valley Communications Center, 1976	Develop, own, operate, and manage a geographical sub-region of the King County Regional Emergency Radio Communications System	Created under Ch. 39.34 RCW Interlocal Agreement	Auburn, Federal Way, Kent, Renton, Tukwila, and Vashon Island Fire & Rescue	Administration and Operations Board Bylaws

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
King County, Valley Communications Center Development Authority, 2000	Issue debt for financing the construction and equipping of a new dispatch facility for Communications Center	Created under Ch. 39.34 RCW and RCW 35.21.730-.755	Auburn, Federal Way, Kent, Renton, Tukwila, and Vashon Island Fire & Rescue	Board of Directors of cities and FDs, Executive director
Kitsap County, CENCOM (Kitsap County Central Communications), 1976	Consolidated Dispatch	Created under RCW 39.34	Partner Agencies	Board of 13 elected officials representing Kitsap County, the Cities of Bainbridge Island, Bremerton, Port Orchard, Poulsbo, and the Kitsap County Fire Commissioners Association
Kittitas County, KITTCOM (Kittitas County 911, 1990	Emergency Radio Communications System	Created under Ch. 39.34 RCW Intergovernmental Agreement	Kittitas County Sheriff's Office, Central Washington University Police, Ellensburg Police, Kittitas Valley Fire and Rescue, Kittitas County Hospital District 2, Cle Elum Police and Fire, Kittitas Police and Fire, Roslyn Fire, South Cle Elum Fire and Fire Districts 1, 3, 4, 6, 7, and 8	Elected board members, 2 appointed board members, and appointed administrator
Jefferson County, JeffCom 911, 2007	911 Dispatch	Created under Ch. 39.34 RCW	Provides services to: Jefferson County Sheriff's Office, Port Townsend Police Department, East Jefferson Fire & Rescue, Port Ludlow Fire & Rescue, Brinnon Fire, Quilcene Fire, Discovery Bay Fire, and Jefferson County Emergency Management	Administrative board

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
Lewis County 911 Communications Center	911 Dispatch for Lewis County	County initiated agreements with participating agencies	Provides services to: 10 Law Enforcement Agencies (including the Sheriff's Office), 20 Fire Departments, 1 Private Ambulance Company, and other agencies with radio traffic monitored at the Center	Under Central Services Administration
Mason County, MACECOM 911, 1982	911 Dispatch for Mason County	Created under Ch. 39.34 RCW	Partners	9 member governing board; 5 elected, 4 appointed
Okanogan County, Okanogan Communications Center	911 Dispatch for Okanogan County	County initiated agreements with participating agencies	Serves 32 law, fire, and EMS agencies	Okanogan Sheriff's Office
Pacific County Communications PACCOM	Enhanced 911(E911) Public Safety Answering Point (PSAP) for All 911 calls placed in Pacific County. Consolidated Dispatch Center for All Police, Fire & Emergency Medical Aid calls in Pacific County	Created under Ch. 39.34 RCW	Consolidated Dispatch center for all Police, Fire & Emergency Medical aid calls in Pacific County, 5 Law Enforcement agencies (Including the Sheriff's Office and the Shoalwater Tribal Police); 12 Fire Departments, 1 Private Ambulance Company, Other agencies whose traffic is monitored at the center include Washington State Patrol, Pacific County Dept. of public works, Pacific county jail, and the National Warning System	Administrative and Operations Boards are both formed by representatives from the various participating agencies to the interlocal agreement. An appointed coordinator operates under the Pacific County Sheriff. See also Pacific County Code Ch. 8.32 - Emergency Service Communications District for South Beach area (Grayland, North Cove, and Tokeland vicinity)

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
Pierce County, South Sound 9-1-1, 2011	911 and dispatch, records and technology services, and a regional, interoperable first responder radio system	Created under Ch. 39.34 RCW Interlocal Agreement	Through its member agencies – Pierce County, City of Tacoma, City of Lakewood, City of Fife, and West Pierce Fire & Rescue – South Sound 911 will provide combined 911 and dispatch services for 16 law enforcement agencies and 22 fire departments	2 governing boards: The Policy Board and the Operations Board. The Policy Board is comprised of 9 elected officials which collectively provide legislative and policy direction for the agency. The 12 member Operations Board is comprised of partner agency police and fire chiefs who provide operational oversight and direction.
Skagit County, Skagit 911 (Formerly SECOM), 1998	County-wide public safety Communications	Created under Ch. 39.34 RCW		
Snohomish County, SNOPAC 911 (Snohomish County Police Staff and Auxiliary Service Center), 1973	A regional public safety communications center that receives law enforcement, fire, and medical 9-1-1 calls	Created under Ch. 39.34 RCW Interlocal Agreement	37 different Snohomish County jurisdictions: See List	Board of directors ByLaws
Snohomish County Emergency Radio System (SERS), 1999	Develop, finance, acquire, install, operate, maintain, and repair an 800 MHz emergency radio communications system	Created Under Ch. 39.34 RCW	Brier, Edmonds, Everett, Lynnwood, Marysville, Mill Creek, Mountlake Terrace, Mukilteo, Woodway, Snohomish County Fire District No. 1, and Snohomish County	11-member Board appointed by the cities and County
Snohomish County, Southwest Snohomish County Communications Agency (SNOCOM), 1971	Provides emergency 911 dispatch services to nine jurisdictions	Created under Ch. 39.34 RCW	Brier, Edmonds, Lynnwood, Mill Creek, Mountlake Terrace, Mukilteo, Woodway, and Snohomish County Fire District No.1	Board of directors

MRSC Regional Emergency Communications Facilities:

Jurisdiction	Service	Formation	Members	Governing Board
Spokane Regional Emergency Communications Systems (SRECS)	County-wide Emergency Radio System	Created under Ch. 39.34 RCW	The SRECS Project supports all Law Enforcement and Fire Agencies in Spokane County Participating Agencies	14 member Emergency Services Communication Policy Board
Thurston County TCOMM 9-1-1		Created under Ch. 39.34 RCW Interlocal Agreement	26 Public Safety agencies	An eight member Administration Board was created made up of elected officials representing the jurisdictions that are parties to the Intergovernmental Agreement serving on the Board
Walla Walla County, (City of) Walla Walla Dispatch (Walla Walla Emergency Services Communications WESCOM), 1994	911 call answering	City facility providing services through interlocal agreements	College Place Fire Department, Walla Walla Sheriff's Office, Walla Walla Police Department, Walla Walla Fire Department, College Place Police Department, Rural fire districts 1, 3, 4, 6, 7 & 8	Director under City Manager, Walla Walla Emergency Dispatch Center Communications Advisory Committee (one representative from each agency using the service)
Whitman County, WHITCOM (Whitman County Regional Communication Center), 2006	A consolidated E-911 dispatch center	Created under Ch. 39.34 RCW See initial agreements below	City of Pullman, Washington State University, Whitman County, the city of Moscow, Idaho, and Asotin County, Washington	Governed by a six-member Executive Board composed of two voting members from each governing agency: Whitman County, Washington State University and the city of Pullman. Asotin County and the city of Moscow have nonvoting ex-officio members. The Board appoints a Director