U.S. Department of Homeland Security

State Interoperable Communications: DHS Funded Activities

Fiscal Years 2003 – 2005

May 2006

Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security

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Interoperable Communications Allocations

Interoperable Communications Allocation Summary

National Interoperable Communications Equipment and Other Interoperable Communications Funded Activities Allocation Summary for Fiscal Years 2003, 2004 and 2005.

	FY 2003	*FY 2004*	*FY 2005*	*Total*
Interoperable Communications Equipment	$205,027,893.11	$1,058,657,970.91	$643,068,425.26	**$1,906,754,289.28**
Other Interoperable Communications Funded Activities		$120,812,450.68	$126,026,527.24	**$246,838,977.92**
Total	**$205,027,893.11**	**$1,179,470,421.59**	**$769,094,952.50**	**$2,153,593,267.20**

"Interoperable Communications Equipment" represents those project funds specifically allocated to the Interoperable Communications Equipment solution area subcategory for the procurement of interoperable communications equipment.

"Other Interoperable Communications Funded Activities" are interoperable communications project funds allocated to any other subcategory, for example: "Develop and Enhance Plans and Protocols" or "Training Course and Program Development, Delivery, or Evaluation"."

Note: The data contained in this report is directly gathered from information loaded into the Grants Reporting Tool (GRT) by users as of 18 April 2006. GRT data represents the state's planned project expenditures based on the Initial Strategy Implementation Plan (ISIP) and the Bi-annual Strategy Implementation Report (BSIR). It does not necessarily represent actual expenditures. Project level data was not collected for FY 2003, as such the figures reported for Interoperable Communications Equipment Funding may not represent the entire amount of funding for FY 2003. This information is subject to change at any moment per updates added into the GRT by users. Because FY 2003 grants were not reported in the GRT, project level data is not available for these grants.

Sources: 2003 Allocated Funding on Interoperable Communications Equipment Report; 2004 and 2005 BSIR (December 05) Keyword Search - Interoperable Communications Equipment Report. Summary data for Puerto Rico is from the 2004 and 2005 BSIR (June 05) Keyword Search - Interoperable Communications Equipment Report.

Interoperable Communications Allocation State Summary

National Interoperable Communications Equipment and Other Interoperable Communications Funded Activities Allocation Summary by state for Fiscal Years 2003, 2004 and 2005.

State	FY 2003	FY 2004	FY 2005	Total
AK	$3,679,679.00	$10,098,928.00	$6,436,651.00	**$20,215,258.00**
AL	$1,373,800.00	$17,690,150.13	$8,135,840.49	**$27,199,790.62**
AR	$1,167,307.98	$26,899,261.75	$12,033,172.25	**$40,099,741.98**
AS	$696,836.50	$1,368,194.00	$340,000.00	**$2,405,030.50**
AZ	$2,000,000.00	$13,672,463.56	$5,697,782.91	**$21,370,246.47**
CA	$3,319,651.00	$94,151,055.64	$63,597,435.23	**$161,068,141.87**
CO	$7,873,076.00	$26,429,497.20	$10,372,218.30	**$44,674,791.50**
CT	$540,800.00	$17,430,737.00	$8,278,243.00	**$26,249,780.00**
DC	$5,701,790.00	$15,629,916.00	$24,248,451.00	**$45,580,157.00**
DE	$3,786,306.43	$5,714,845.34	$2,350,518.91	**$11,851,670.68**
FL	$4,210,057.00	$27,644,284.00	$23,873,868.00	**$55,728,209.00**
GA	$2,261,970.29	$35,316,832.00	$31,567,337.35	**$69,146,139.64**
GU	$759,100.00	$603,605.00	$91,468.00	**$1,454,173.00**
HI	$2,806,430.00	$7,151,977.00	$6,002,665.00	**$15,961,072.00**
IA	$500,000.00	$9,580,105.19	$5,767,007.00	**$15,847,112.19**
ID	$0.00	$6,019,215.66	$7,586,285.00	**$13,605,500.66**
IL	$38,951,790.19	$53,283,008.75	$31,932,687.00	**$124,167,485.94**
IN	$1,516,358.74	$22,680,511.44	$5,074,681.00	**$29,271,551.18**
KS	$0.00	$14,606,793.59	$5,036,279.00	**$19,643,072.59**
KY	$2,268,323.72	$30,357,172.39	$17,354,448.00	**$49,979,944.11**
LA	$3,451,736.66	$20,683,060.24	$29,607,304.64	**$53,742,101.54**
MA	$10,024,269.07	$20,805,881.76	$13,847,155.21	**$44,677,306.04**
MD	$0.00	$22,433,839.00	$11,172,122.00	**$33,605,961.00**
ME	$67,274.00	$14,607,288.84	$14,710,255.80	**$29,384,818.64**
MI	$1,355,000.00	$26,753,880.86	$16,640,712.53	**$44,749,593.39**
MN	$24,415,173.21	$34,950,653.68	$13,421,183.00	**$72,787,009.89**
MO	$5,894,550.12	$23,423,221.27	$25,262,268.15	**$54,580,039.54**
MP	$278,350.00	$906,000.00	$287,500.00	**$1,471,850.00**
MS	$1,062,059.34	$5,583,667.20	$6,193,702.29	**$12,839,428.83**
MT	$0.00	$17,735,425.36	$11,335,163.00	**$29,070,588.36**
NA	$3,659,666.00	$0.00	$0.00	**$3,659,666.00**
NC	$1,201,112.16	$44,309,179.08	$30,649,574.85	**$76,159,866.09**
ND	$0.00	$14,294,300.80	$7,335,015.31	**$21,629,316.11**
NE	$150,290.00	$19,495,029.00	$16,549,946.00	**$36,195,265.00**
NH	$0.00	$15,059,028.00	$5,967,620.45	**$21,026,648.45**
NJ	$93,000.00	$24,202,031.81	$11,540,545.53	**$35,835,577.34**
NM	$1,608,034.31	$11,048,697.00	$3,121,461.00	**$15,778,192.31**
NV	$0.00	$19,676,060.74	$4,924,662.00	**$24,600,722.74**
NY	$3,098,418.00	$85,257,824.00	$57,149,382.00	**$145,505,624.00**
OH	$0.00	$48,698,339.81	$25,306,476.06	**$74,004,815.87**
OK	$0.00	$15,929,310.00	$14,671,683.40	**$30,600,993.40**

OR	$8,129,116.10	$23,341,934.00	$21,942,872.00	**$53,413,922.10**
PA	$3,816,568.39	$19,230,105.00	$2,465,000.00	**$25,511,673.39**
PR	$254,590.00	$9,108,036.00	$4,822,093.00	**$14,184,719.00**
RI	$897,753.00	$8,369,170.00	$5,804,732.00	**$15,071,655.00**
SC	$2,513,817.00	$11,127,346.00	$4,005,592.00	**$17,646,755.00**
SD	$0.00	$7,568,491.00	$100,000.00	**$7,668,491.00**
TN	$2,908,186.86	$18,719,100.62	$12,942,027.63	**$34,569,315.11**
TX	$5,264,000.00	$63,387,285.61	$68,178,418.00	**$136,829,703.61**
UT	$3,622,372.00	$11,104,641.81	$6,799,382.09	**$21,526,395.90**
VA	$7,509,112.17	$17,701,528.14	$8,245,220.03	**$33,455,860.34**
VI	$0.00	$1,015,000.00	$850,000.00	**$1,865,000.00**
VT	$2,653,726.00	$4,568,755.29	$2,605,035.23	**$9,827,516.52**
WA	$6,924,265.76	$18,816,792.00	$12,120,452.40	**$37,861,510.16**
WI	$3,532,168.70	$26,033,459.83	$7,612,970.46	**$37,178,598.99**
WV	$11,603,377.00	$5,314,839.20	$8,455,278.00	**$25,373,494.20**
WY	$5,626,630.41	$11,882,665.00	$6,675,108.00	**$24,184,403.41**
Total	**$205,027,893.11**	**$1,179,470,421.59**	**$769,094,952.50**	**$2,153,593,267.20**

Note: The data contained in this report is directly gathered from information loaded into the Grants Reporting Tool (GRT) by users as of 18 April 2006. GRT data represents the state's planned project expenditures based on the Initial Strategy Implementation Plan (ISIP) and the Bi-annual Strategy Implementation Report (BSIR). It does not necessarily represent actual expenditures. Project level data was not collected for FY 2003, as such the figures reported for Interoperable Communications Equipment Funding may not represent the entire amount of funding for FY 2003. This information is subject to change at any moment per updates added into the GRT by users.

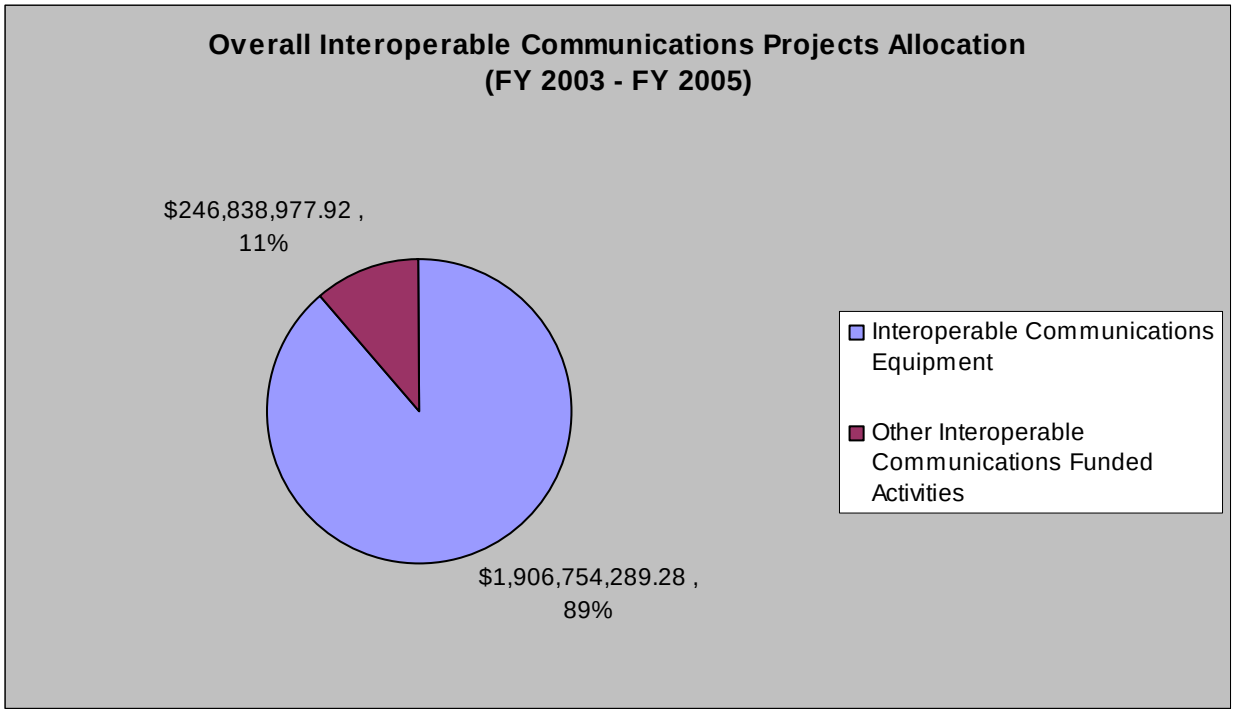
Sources: 2003 Allocated Funding on Interoperable Communications Equipment Report; 2004 and 2005 BSIR (December 05) Keyword Search - Interoperable Communications Equipment Report. Puerto Rico data is from the 2004 and 2005 BSIR (June 05) Keyword Search - Interoperable Communications Equipment Report.

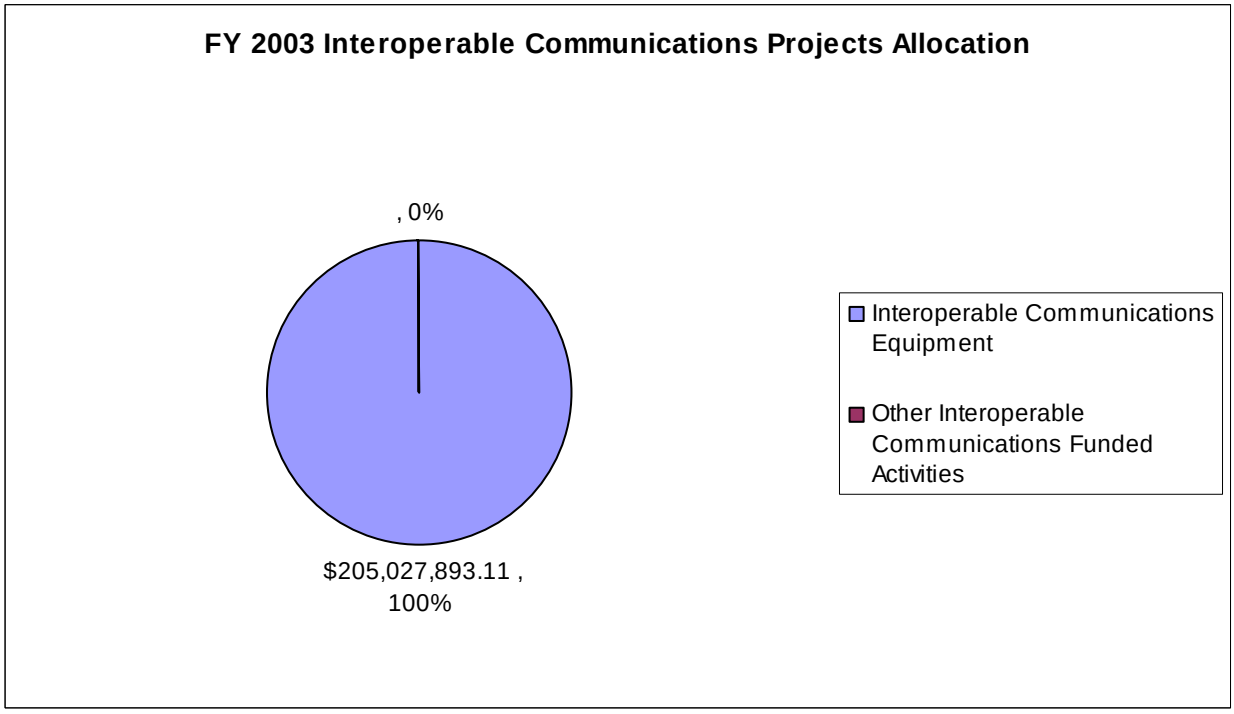
Interoperable Communications Summary

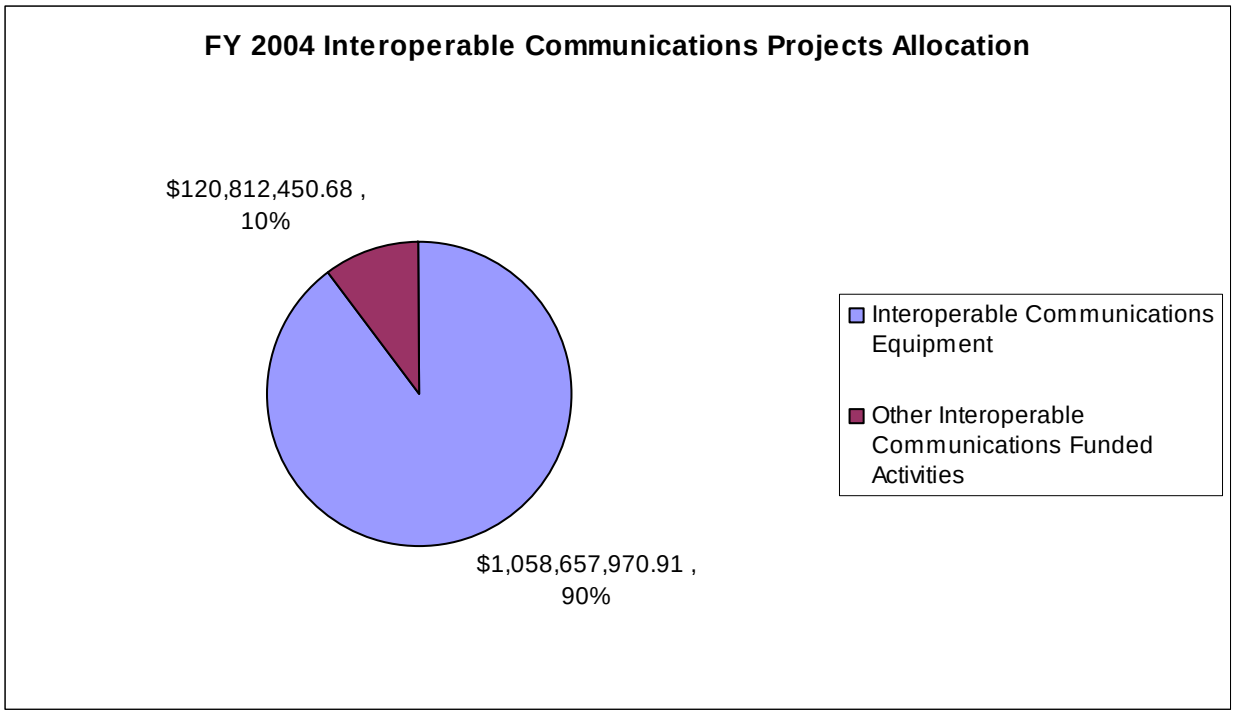
Supporting Graphs

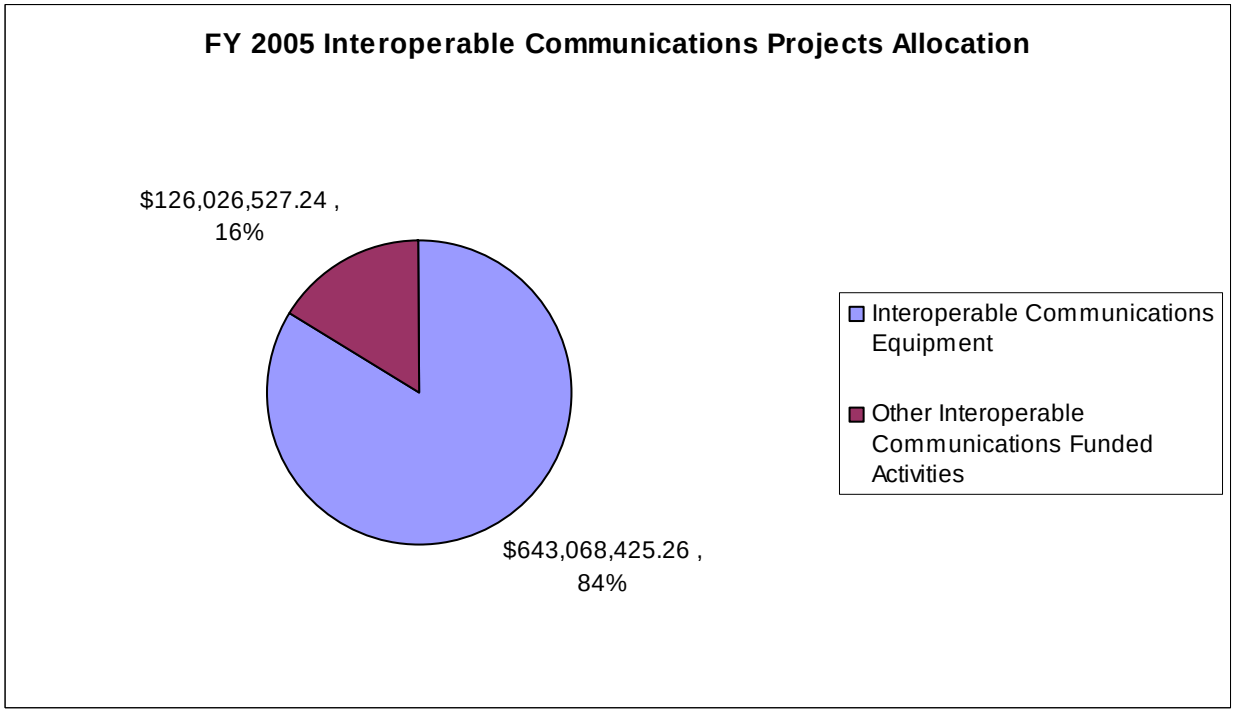
Interoperable Communications Allocation Summary Supporting Graphs

National Interoperable Communications Projects Allocation Summary for Fiscal Years 2003, 2004 and 2005.






FY 2004 Interoperable Communications Projects Allocation
$120,812,450.68 , 10%
$1,058,657,970.91 , 90%
Interoperable Communications Equipment
Other Interoperable Communications Funded Activities


FY 2005 Interoperable Communications Projects Allocation
$126,026,527.24 , 16%
$643,068,425.26 , 84%
Interoperable Communications Equipment
Other Interoperable Communications Funded Activities

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Interoperable Communications State Summaries

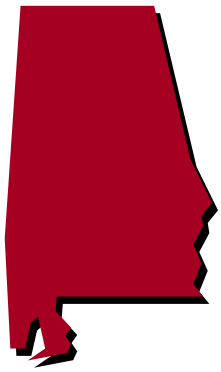
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Alabama Information

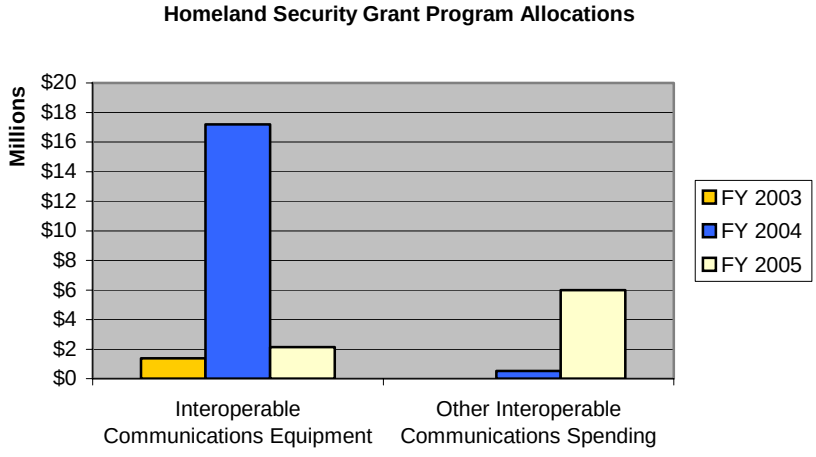
Interoperable Communications: DHS Funded Activities – Alabama

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,373,800.00		**$1,373,800.00**
FY 2004	$17,178,817.18	$511,332.95	**$17,690,150.13**
FY 2005	$2,137,356.32	$5,998,484.17	**$8,135,840.49**
Total	**$20,689,973.50**	**$6,509,817.12**	**$27,199,790.62**

Current Interoperable Communications Initiatives



The State of Alabama has deployed nine Rapid Response Communications vehicles (one to each region) that can provide voice, data and video communications capability at the scene of an emergency. One of these units was recently deployed to a train derailment in the Birmingham area and another was utilized to provide communications when a state park was designed as a relocation site for Hurricane Katrina evacuees.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

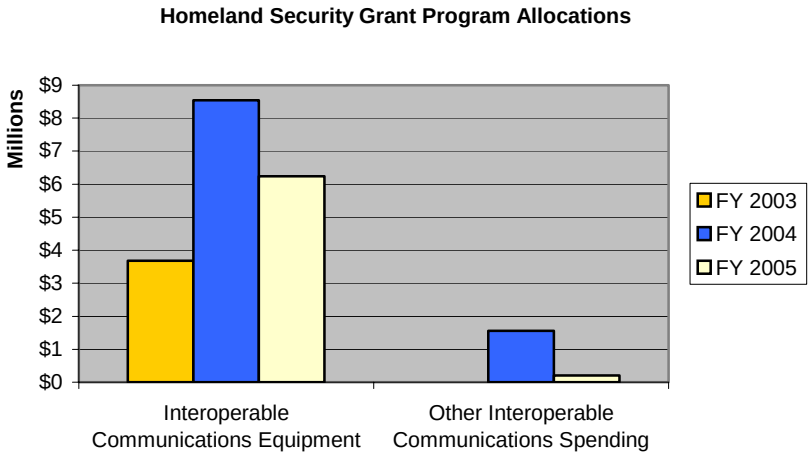
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Alaska Information

Interoperable Communications: DHS Funded Activities – Alaska

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,679,679.00		**$3,679,679.00**
FY 2004	$8,542,428.00	$1,556,500.00	**$10,098,928.00**
FY 2005	$6,237,120.00	$199,531.00	**$6,436,651.00**
Total	**$18,459,227.00**	**$1,756,031.00**	**$20,215,258.00**

Current Interoperable Communications Initiatives

- Alaska Land Mobile Radio (ALMR) is a State-wide initiative and certainly supports regional collaboration through trunking, to include collaboration with state, local and federal partners.
- Interoperable Communication Protocols, processes and procedures have been already established for ALMR.
- They are compliant with NIMS. Any radio connected into the ALMR system can communicate to any other radio on the system, from Juneau to Anchorage, Seward, to Fairbanks, to Valdez where the Trans Alaska Pipeline ends at the Marine Terminal.
- This initiative would extend that reach to the north shore of Alaska where the oil starts its journey to Valdez along the 800 mile pipeline. This initiative would also extend the ALMR reach to the Canadian Boarder on the Alaska Highway.
- 90-100% of the states IC funding has been or will be utilized to expand, enhance, maintain, train and exercise the State-wide ALMR system



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
American Samoa Information

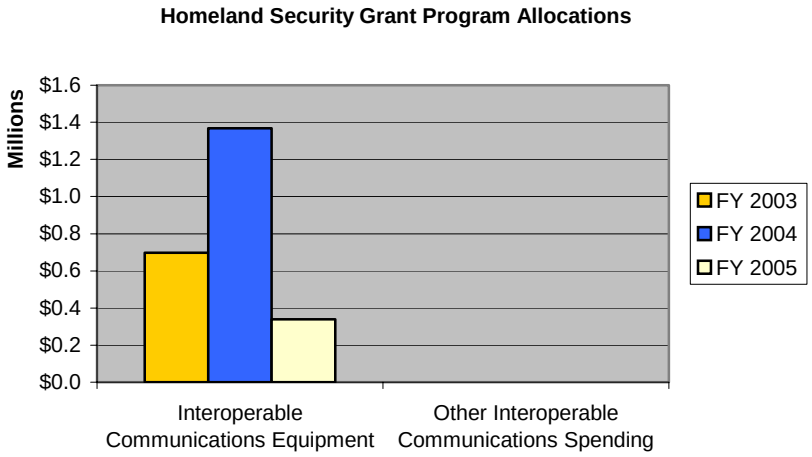
Interoperable Communications: DHS Funded Activities – American Samoa

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$696,836.50		**$696,836.50**
FY 2004	$1,368,194.00		**$1,368,194.00**
FY 2005	$340,000.00		**$340,000.00**
Total	**$2,405,030.50**	**$0.00**	**$2,405,030.50**

Current Interoperable Communications Initiatives

Communication systems acquisition and upgrades to their EOC. Currently they are in Phase I (planning) of a Phase III project to have island wide communication abilities.

American Samoa (AS) has signed a contract with Motorola (Honolulu, Hawaii) to install a state of the art communications system that will link the islands of Pago Pago, Manua, and Swains. This new technology will catapult the American Samoa responder community into the 21st Century. Currently, AS is in phase 1 of a three phase process. The acquisition of ACU 3000 system and mobile/portable radios has been accomplished – linking for the first time, multiple users. The second phase is installing a network of towers to improve capabilities throughout the island. Phase III will conclude with satellite system links that ensure reliable networking in the event of Typhoons and power loss (an ongoing occurrence throughout the South Pacific). The anticipated timeline to completion is tentatively set for December, 2007.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Arizona Information

Interoperable Communications: DHS Funded Activities – Arizona

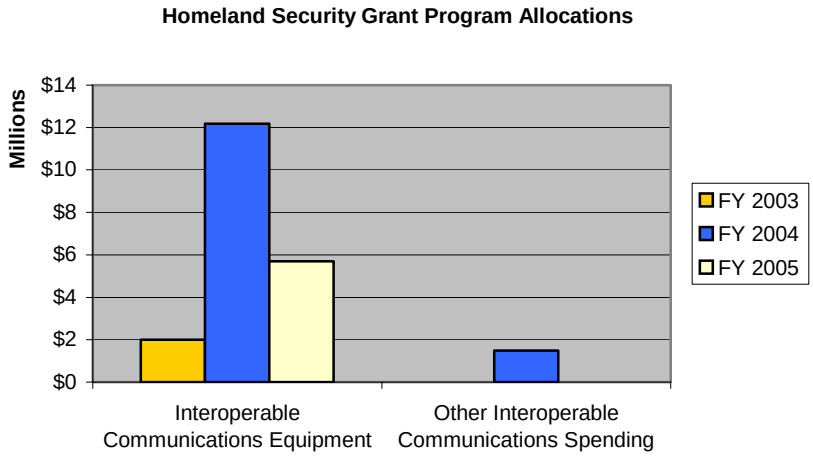
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,000,000.00		**$2,000,000.00**
FY 2004	$12,183,020.98	$1,489,442.58	**$13,672,463.56**
FY 2005	$5,697,782.91		**$5,697,782.91**
Total	**$19,880,803.89**	**$1,489,442.58**	**$21,370,246.47**

Current Interoperable Communications Initiatives

Objective: Foster and support regional collaboration, improve and enhance interoperability

Note: All the identified steps associated with this objective have been rated as approx 90% completed as of this date. Arizona has provided the following to support this completion status (Based on a monitoring visit in 2005):

1. Arizona has established a Regional approach for Homeland Security. Five regions were established by the Office of Homeland Security.
2. All five have a Regional strategy that compliments the overall State of Arizona Homeland Security Strategy.
3. All Regions have incorporated elements of Interstate mutual aid and when appropriate have added an International component to it. This is evident with Arizona Counter Terrorism Information Center (ACTIC) liaisons, CANAMEX commission, and several State, Tribal, Local and international mutual aid agreements in place
4. All regions have developed regional capabilities to address threat and vulnerabilities associated with their specific areas. Regions receive funding based upon gaps after a through needs assessment was conducted.



5. Interoperable communications has been established with the deployment of common frequencies and the acquisition of the associated and necessary support vehicles. These units have been placed in all of the regions (complete). Inter-ops remain an on-going process of examination and testing. The Arizona Emergency Radio System (AERS) is the primary solution for near-term statewide interoperability as a result of the Statewide Interoperability Project Study –2005. The AERS Project consist of the installation of a 4-radio suite (VHF, UHF, 800, VHF2) into 45- remote DPS sites throughout Arizona that will provide access to a mutual-aid channel for interagency communications. Arizona DPS has recently awarded a contract to reassess capabilities to ascertain and examine any remaining gaps that may exist in the communication area. This was in response to several after action reports generated from exercises conducted at both the regional and state level after the deployment of the communication package. ADEM established a cooperative public-private partnership with the Arizona Public Service electric company to utilize their statewide 800 MHz trunked communication system. Portable radios were installed at all County EOCS and the State Emergency Operations Center.

Identified Actions:

- Five communication vans were purchased by the State of Arizona to address the needs associated with interoperable communication problems

- Arizona continues to strengthen and enhance the overall communication interoperability system in place. There exists an integrated and unified approach to work with elements of private industry and utilize existing system capabilities already available.

- Phoenix UASI: Much of their effort involves the purchase of sophisticated communication equipment. Much of this has been accomplished with DHS support (funding). While most of the equipment and vehicles are funded through DHS, the costs of training, make-ready and personnel are absorbed by the City.

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Homeland Security

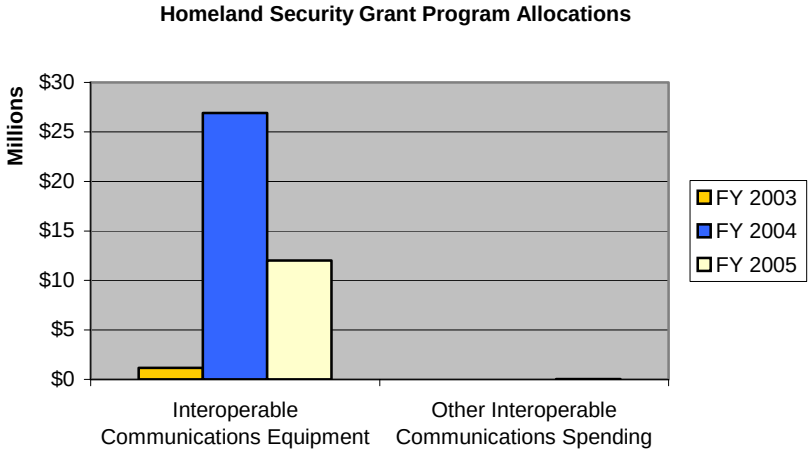
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Arkansas Information

Interoperable Communications: DHS Funded Activities – Arkansas

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,167,307.98		**$1,167,307.98**
FY 2004	$26,899,261.75		**$26,899,261.75**
FY 2005	$12,008,172.25	$25,000.00	**$12,033,172.25**
Total	**$40,074,741.98**	**$25,000.00**	**$40,099,741.98**

Current Interoperable Communications Initiatives

Arkansas is nearing completion of Phase I of the Arkansas Wireless Information Network (AWIN) program. The results of Phase I will allow users at both the state and local levels of government to operate on a state-wide, interoperable, digital communications network, utilizing the Project 25 platform in the 700/800 MHz frequency bands. AWIN will allow state and local command and control personnel to communicate on one system. A pilot project has commenced that will more fully deploy wireless infrastructure and radios to all first-responders in the three selected counties to demonstrate the full potential of AWIN. Total amount budgeted (much is already paid with some still waiting) from FY02, FY03 I, FY03 II, FY04 and FY05 is $34,207,459.96.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
California Information

Interoperable Communications: DHS Funded Activities – California

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,319,651.00		**$3,319,651.00**
FY 2004	$77,191,311.62	$16,959,744.02	**$94,151,055.64**
FY 2005	$40,222,621.23	$23,374,814.00	**$63,597,435.23**
Total	**$120,733,583.85**	**$40,334,558.02**	**$161,068,141.87**

Current Interoperable Communications Initiatives

RapidCom Participant

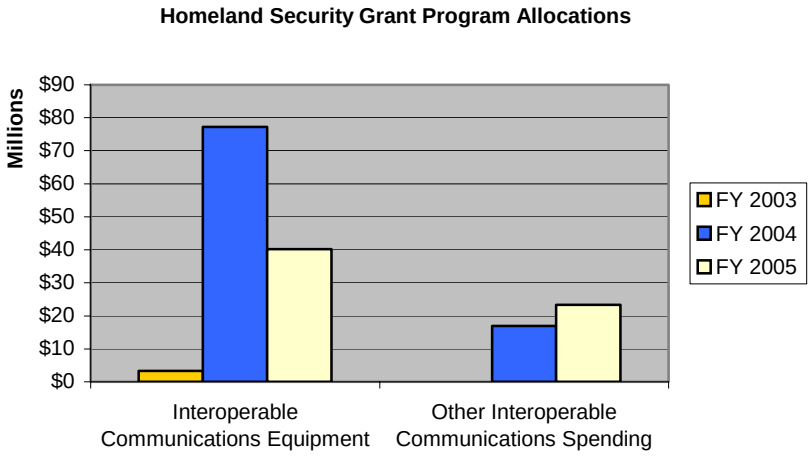
- **Los Angeles**
- **San Francisco**

Santa Ana and Anaheim:

Both UASIs voluntarily elected to merge strategies several years ago, giving way to multiple levels of collaboration, information sharing, and regionalization. Anaheim was also one of four Regional Technology Integration Initiative (RTII) cities, under DHS S&T. As a result, almost of the entire city of Anaheim is Wi-Fi and they are currently working on getting wireless capabilities within all their response vehicles. Both Santa and Anaheim use an EVOC system, emergency virtual operations center, in which the responders, incident commanders, and city officials have access to all on-going response activity. The system (depending on your access level) provides information to multiple levels of city resources, to include GIS maps, tilt-zoom cameras across the city, and both police and fire activity. All of this can be accessed through the aforementioned Wi-Fi capability across the city.

Silicon Valley:

Support existing Silicon Valley Radio Interoperability Project to include the ECOMM microwave project's extension into Monterey, San Benito and Santa Cruz counties in support of their Public Health Labs. Conduct an exercise to test the system connection, in accordance with HSEEP guidelines.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Colorado Information

Interoperable Communications: DHS Funded Activities – Colorado

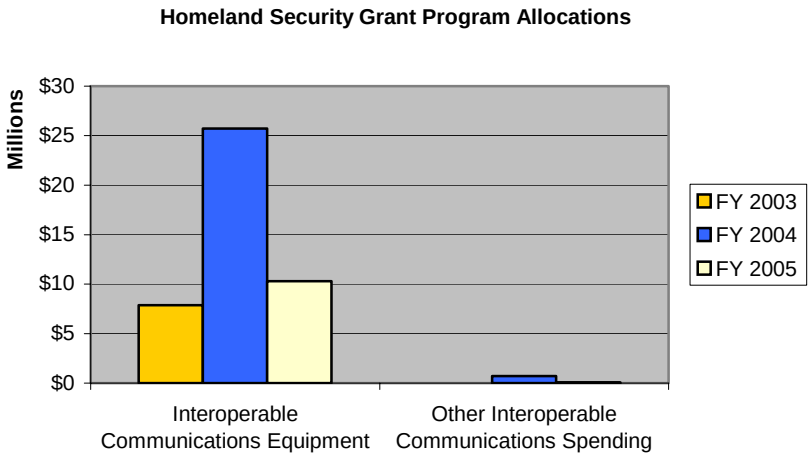
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$7,873,076.00		**$7,873,076.00**
FY 2004	$25,714,525.20	$714,972.00	**$26,429,497.20**
FY 2005	$10,292,470.80	$79,747.50	**$10,372,218.30**
Total	**$43,880,072.00**	**$794,719.50**	**$44,674,791.50**

Current Interoperable Communications Initiatives

The State of Colorado has set aside approximately $30 million in other grant funds to continue the building of the Digital Trunk Radio (DTR) system in the Western Mountain regions of Colorado. The system is approximately 95% complete.

Colorado through a multi agency, multi disciplinary task force created an information sharing and interoperable communications command center that houses integrated command and control capacity with information analysts in one location. The Colorado Information Analysis Center (CIAC) is a showcase State developed fusion center that serves as a fully integrated hub for communications processing and information exchange at all levels of government. It is unique in it's inclusion of all disciplines as well as local participation at this state level fusion center

The Colorado Department of Emergency Management (DEM) has developed an extensive database of state contact information (office phone, cell phone, fax, pager, home phone) which is maintained with the assistance of the state Emergency Response Coordinators. Each State agency appoints an Emergency Response Coordinator who is responsible to maintain current contact information with the DEM Operations Chief. The notification is accomplished through a call-down tree



initiated by DEM. In addition, blast e-mail is used to notify the Local Emergency Managers. Emergency information is also distributed by the CIAC through their e-mail alerts.

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Connecticut Information

Interoperable Communications: DHS Funded Activities – Connecticut

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$540,800.00		**$540,800.00**
FY 2004	$11,603,787.00	$5,826,950.00	**$17,430,737.00**
FY 2005	$5,049,543.00	$3,228,700.00	**$8,278,243.00**
Total	**$17,194,130.00**	**$9,055,650.00**	**$26,249,780.00**

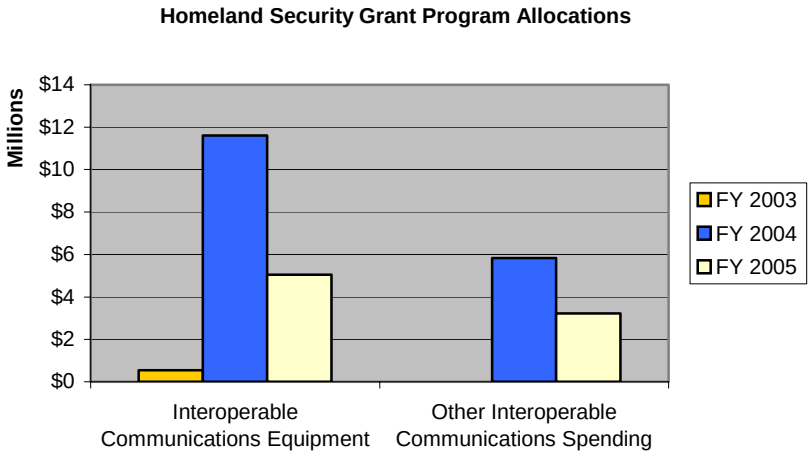
Current Interoperable Communications Initiatives

Several projects to develop or enhance interoperable communications systems are underway:

- $450,000.00: Achieve communications connectivity and interoperability among emergency first responders at the command and tactical levels. Improve CMED capacity to include EMS responder status management and vehicle location capabilities as an extension of the HEARTBEAT computer aided dispatch system being developed by the region's two largest cities.

- $3,033,644.00: Initiate the development of a statewide telecommunications infrastructure and protocol that will allow timely, efficient and cost effective communications for all public safety and public healthcare agencies.

- $592,904.00: Plan, design and establish Emergency Operations Center capabilities, either at the municipal or regional level, for every jurisdiction within the state.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Delaware Information

Interoperable Communications: DHS Funded Activities – Delaware

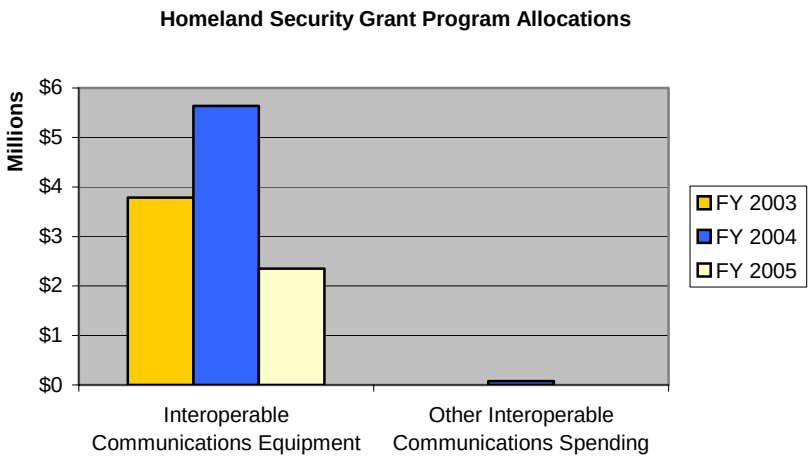
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,786,306.43		**$3,786,306.43**
FY 2004	$5,638,637.34	$76,208.00	**$5,714,845.34**
FY 2005	$2,350,518.91		**$2,350,518.91**
Total	**$11,775,462.68**	**$76,208.00**	**$11,851,670.68**

Current Interoperable Communications Initiatives

- Providing communications enhancements and upgrades to existing equipment at all three County Emergency Operations Centers, as well as Emergency Medical Services, Fire Services, Government Administrative, Hazardous Materials, Public Safety Communications, and Public Works responders with additional radios for on-scene communication, mobile data computer and radios for law enforcement, acquiring a Laboratory Information Management System and wireless tablet PC's for public health, and blackberry communication devices for public safety communications information technology cyber security activities.

- Developing and enhancing a terrorism intelligence early warning system.

- Providing radiological warning for people working in or for the New Castle County EOC, baselines security at the City of Wilmington EOC, New Castle County EOC, and new administrative buildings in Kent and New Castle Counties. Also equips an existing mobile command center with communications equipment for use in the



field and the procurement of a Mobile Command Center in New Castle County to complete the implementation of mobile command in each county and the City of Wilmington.

- Our project under this section is with the Criminal Intelligence Sharing and Analysis Network within the DIAC. We have funding in both FY04 & FY05.

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
District of Columbia Information

Interoperable Communications: DHS Funded Activities – District of Columbia

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$5,701,790.00		**$5,701,790.00**
FY 2004	$12,027,899.00	$3,602,017.00	**$15,629,916.00**
FY 2005	$12,693,704.10	$11,554,746.90	**$24,248,451.00**
Total	**$30,423,393.10**	**$15,156,763.90**	**$45,580,157.00**

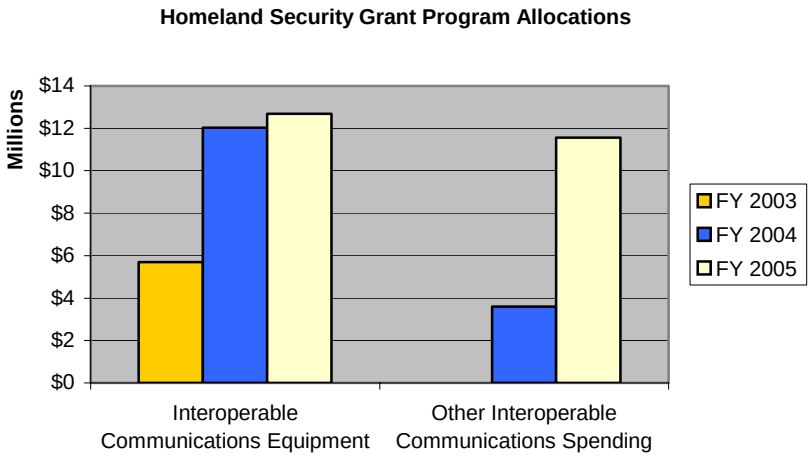
Current Interoperable Communications Initiatives

Communications initiatives:

RapidCom Participant

- **Washington**

- All first responders in the NCR can communicate either by direct or patched communications
- 1250-unit radio cache stored across the region subway tunnel enhancement and expansion, increasing radio range
- A tri-band radio network and voice gateways are in place, increasing radio interoperability
- The Washington Area Warning Alert System (WAWAS) system is in place – this is a 24-hour continuous private wire landline telephone system
- WebEOC is in place – this is a virtual EOC-to-EOC linkage of operations centers across state and local governments of the NCR
- A Roam Secure system has been deployed throughout the region, sending messages to pagers, cell phones, and e-mail accounts
- The Emergency Alert System provides interfaces to direct broadcast over television, radio, cable, and satellite media systems
- A Reverse 911 system in place enables localized citizen alerts



via telephone

- Other systems in place or in development include: law enforcement data sharing; automated fingerprint identification; patient racking and medical facility capacity real time data sharing; disease surveillance; and first responder credentialing (on-scene identification)

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Florida Information

Interoperable Communications: DHS Funded Activities – Florida

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$4,210,057.00		**$4,210,057.00**
FY 2004	$25,626,721.00	$2,017,563.00	**$27,644,284.00**
FY 2005	$21,508,387.00	$2,365,481.00	**$23,873,868.00**
Total	**$51,345,165.00**	**$4,383,044.00**	**$55,728,209.00**

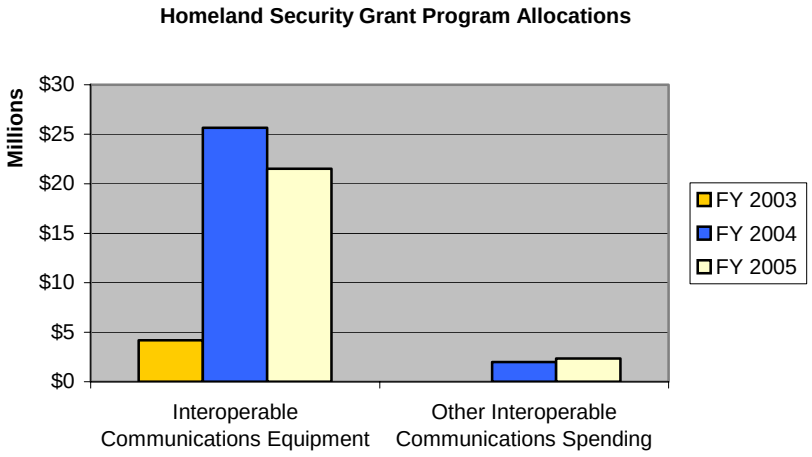
Current Interoperable Communications Initiatives

RapidCom Participant

- **Miami**

- Statewide Interoperability Communications Solution - $36.7M (Funded in three phases) - In the summer of 2003, Florida began building an interoperable communications network which provides IP-based connectivity for over 200 dispatch centers in the state. By linking the dispatch centers, the interoperability network provides instantaneous links between systems that are not yet connected. The network will provide statewide coverage; it will not be limited to a regional coverage area.

- In addition to connecting the various interdisciplinary radio systems, Florida has provided the necessary coverage enhancements needed to complement existing mutual aid coverage in all four bands (low band, high band, UHF, 800 MHz) throughout the State. The ability to link disparate systems on different radio bands is necessary as incidents generally require a variety of first response agencies.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Georgia Information

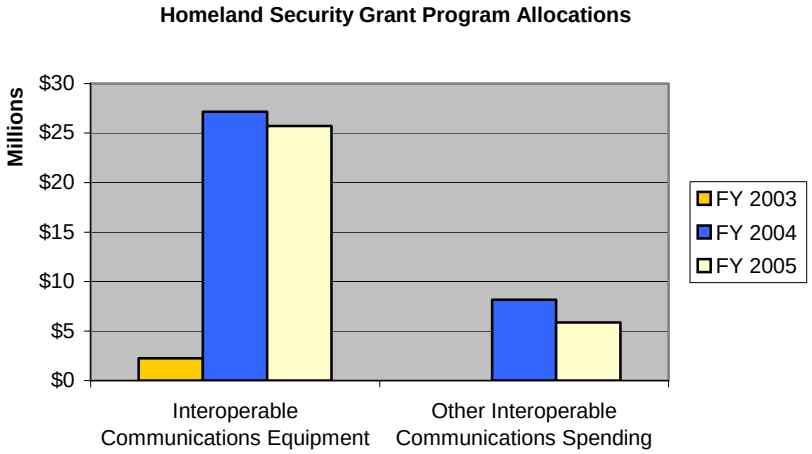
Interoperable Communications: DHS Funded Activities – Georgia

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,261,970.29		**$2,261,970.29**
FY 2004	$27,161,348.00	$8,155,484.00	**$35,316,832.00**
FY 2005	$25,694,857.35	$5,872,480.00	**$31,567,337.35**
Total	**$55,118,175.64**	**$14,027,964.00**	**$69,146,139.64**

Current Interoperable Communications Initiatives

- The state has undertaken a project that will increase communications abilities and create a statewide interoperable system by 2010. The plan will start with the population centers and systematically incorporate surrounding areas. The eight regional advisory councils and the Georgia State Patrol are working in conjunction to insure this is a successful system.

- Additionally the state has procured 10 mobile communications centers with varying intensity capabilities. Most notably, the Gwinnett County PD has a mobile center with 800mhz capacity. In the event of a major emergency this mobile center can take over the communications demands for any major urban area in the state, including the city of Atlanta.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Guam Information

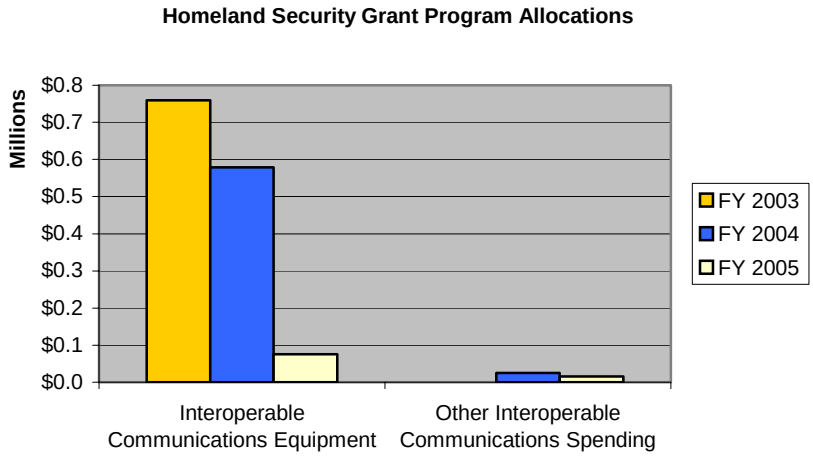
Interoperable Communications: DHS Funded Activities – Guam

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$759,100.00		**$759,100.00**
FY 2004	$578,605.00	$25,000.00	**$603,605.00**
FY 2005	$75,969.00	$15,499.00	**$91,468.00**
Total	**$1,413,674.00**	**$40,499.00**	**$1,454,173.00**

Current Interoperable Communications Initiatives

Improved communication throughout the Government of Guam (GovGuam) and responder agencies.

Guam has also completed an aggressive upgrade to their basic communications system through ACU 3000 and several mobile and portable radio's that allows agencies to interface seamlessly during emergency response. Furthermore, the communications project has been instrumental in developing a state of the art EOC that is under construction and will provide the Territory with a secured communication networking facility.



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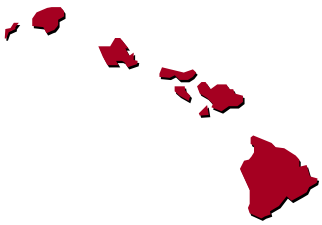
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Hawaii Information

Interoperable Communications: DHS Funded Activities – Hawaii

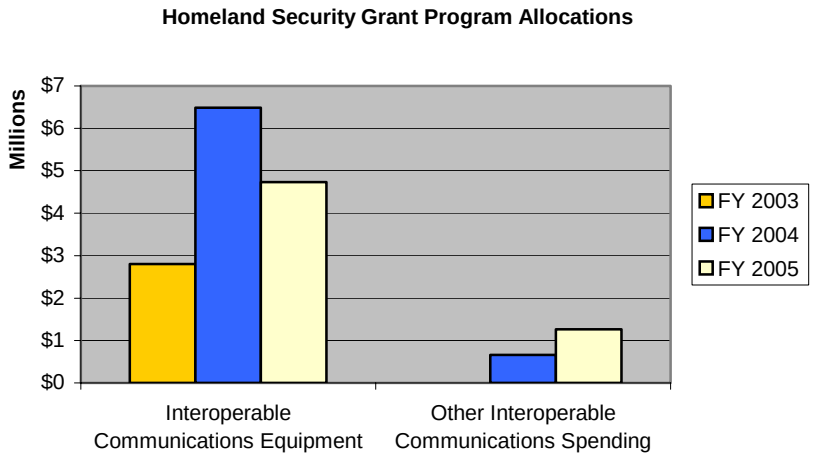
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,806,430.00		**$2,806,430.00**
FY 2004	$6,485,577.00	$666,400.00	**$7,151,977.00**
FY 2005	$4,735,665.00	$1,267,000.00	**$6,002,665.00**
Total	**$14,027,672.00**	**$1,933,400.00**	**$15,961,072.00**

Current Interoperable Communications Initiatives



Wireless Interoperability for responder communities.

City/County of Honolulu, Maui, Kauai, Hilo have all been linked together under the wireless interoperability system. Hawaii continues to expand on their communications projects through Hawaii Wireless Interoperability Network (HWIN) by expanding into digital (700mhz) systems and with the plethora of DoD components.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Idaho Information

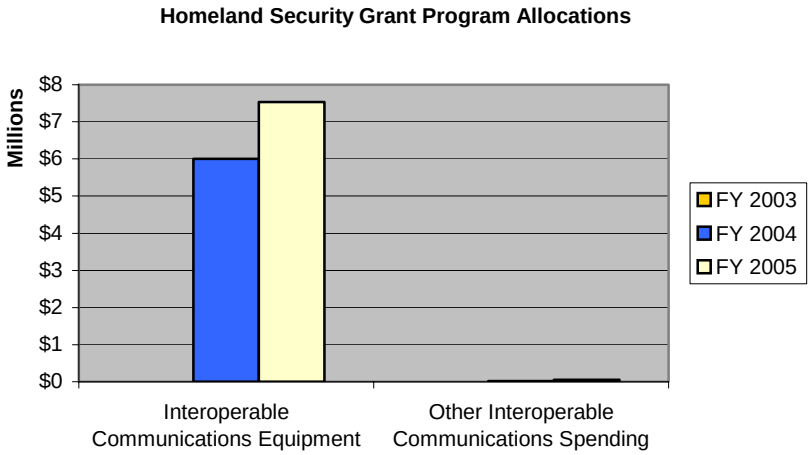
Interoperable Communications: DHS Funded Activities – Idaho

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$6,004,380.66	$14,835.00	**$6,019,215.66**
FY 2005	$7,536,285.00	$50,000.00	**$7,586,285.00**
Total	**$13,540,665.66**	**$64,835.00**	**$13,605,500.66**

Current Interoperable Communications Initiatives

Major Initiatives:

- 700 MHz projects that has linked Bannock and Ada counties.
- To support the Governor's State Executive Interoperability Council and to purchase equipment to enhance interoperable communications as well as additional IC planning and design efforts.
- Purchase equipment to enhance capabilities to respond to CBRNE events.
- The Idaho State Communications Center is the primary dispatch facility for the State of Idaho. The center provides communication services for police, fire, emergency medical services, hazardous materials response and numerous other life safety services throughout the state of Idaho. The building and the area surrounding the complex has significant security vulnerabilities, and funding is required to harden the facility, and mitigate the vulnerabilities to the center.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Illinois Information

Interoperable Communications: DHS Funded Activities – Illinois

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$38,951,790.19		**$38,951,790.19**
FY 2004	$45,319,241.75	$7,963,767.00	**$53,283,008.75**
FY 2005	$15,150,459.16	$16,782,227.84	**$31,932,687.00**
Total	**$99,421,491.10**	**$24,745,994.84**	**$124,167,485.94**

Current Interoperable Communications Initiatives

Background

The Communications Committee of the Illinois Terrorism Task Force (ITTF) has the responsibility for developing solutions to communications interoperability for all of the state's emergency response organizations and developing an infrastructure that supports that interoperability. The focus of the Communications Committee remains committed toward the development and maintenance of an all-hazards approach.

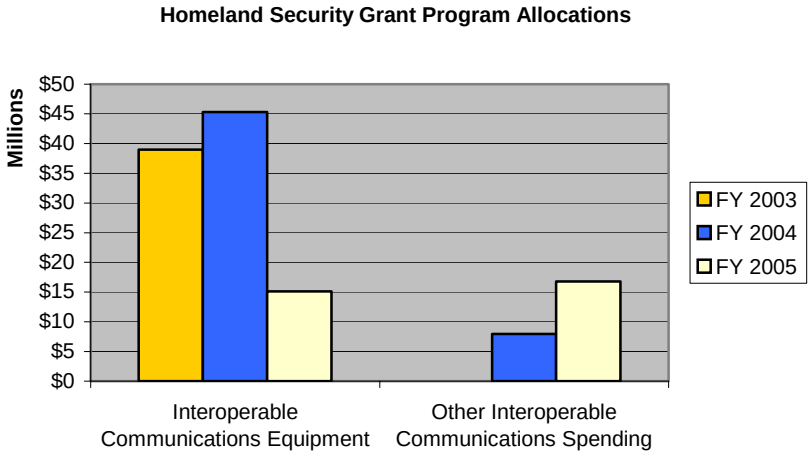
RapidCom Participant

- **Chicago**

Major Accomplishments (2005-2006)

Statewide Warning and Alerting Systems

- Phase III of the statewide EMnet installation was completed in February 2006. EMnet is a satellite-based data system capable of receiving simultaneous, authenticated text messages from the State Emergency Operations Center (SEOC). EMnet terminals were installed in all county warning points, regional hospital command centers, and key state agencies.
- Phase IV of the EMnet system, involving the installation of terminals in nineteen broadcast radio stations responsible for activation of the Emergency Alert System (EAS), is near



completion. Additionally, EAS activation software and related equipment has been sent to each of the 102 counties and Chicago. Training courses for county emergency managers regarding the development of EAS plans are ongoing.
- System surveys for Phase V, the installation of EMnet in 9-1-1 centers statewide, have been completed and equipment installation is scheduled for 2006.

Incident Scene Management and Interoperability
- Accepted delivery of nine regional communications suites, known as the Illinois Transportable Emergency Communications System (ITECS). A tenth ITECS suite is being assigned to the Illinois Emergency Management Agency.
  Installation of electronics into the trailers continues, with project completion scheduled for August 2006.
- Ordered mobile interoperable radios that are designed to enhance or develop system interoperability on various levels. This includes VHF interoperability. The radios were ordered and distributed by the corresponding statewide mutual aid organization – IESMA (EMA), MABAS (fire), and ILEAS (police).
- In cooperation with the statewide law enforcement mutual aid system (ILEAS), funded the purchase of interoperable communications to be installed in the 13 Mobile Command vehicles that will be deployed statewide. 11 of 13 vehicles have been delivered as of February 2006.

Infrastructure to Support Interoperable Scene Communications
- Ordered equipment for the Medical Emergency Radio System of Illinois (MERCI) – a base station system, provided to every hospital statewide, designed to support Emergency Medical System (EMS) interoperability.
- Began installation of STARCOM21 800 MHz radios at public safety agencies throughout the state. Radios were offered to every police, fire, emergency management, public health and other public safety agencies. The radios provide an interoperable communications link to the SEOC and are the same statewide radio system that Illinois State Police will be switching to in the fall of 2006.
- Established the Illinois Radio Emergency Assistance Channel (IREACH), which is a mobile and portable system. Equipment was provided to public health agencies statewide, designed to improve interoperability between first responders and public health agencies.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Indiana Information

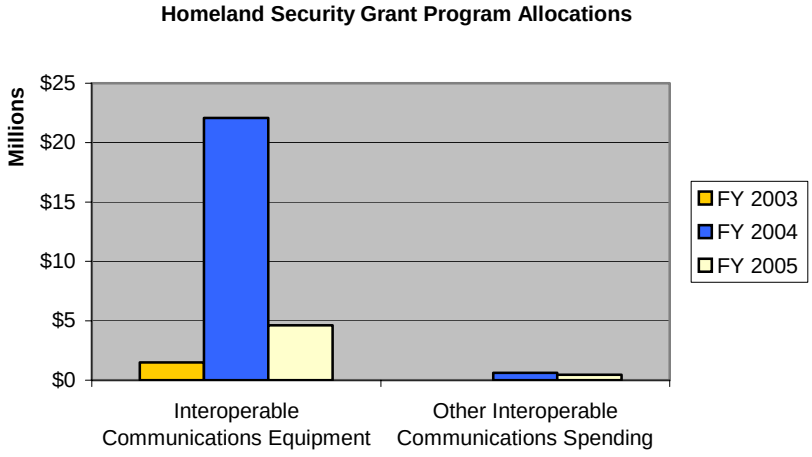
Interoperable Communications: DHS Funded Activities – Indiana

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,516,358.74		**$1,516,358.74**
FY 2004	$22,055,242.39	$625,269.05	**$22,680,511.44**
FY 2005	$4,620,281.00	$454,400.00	**$5,074,681.00**
Total	**$28,191,882.13**	**$1,079,669.05**	**$29,271,551.18**

Current Interoperable Communications Initiatives

Project Hoosier SAFE-T (Safety Acting for Everyone - Together) is an innovative approach in the development of a statewide 800 MHz interoperable, wireless public safety communication system for Indiana local, state, and federal first responders and public safety officials. SAFE-T is a major undertaking, reaching across the entire state with 126 communication sites. To date, with 91 communication sites completed, approximately 80% of the state of Indiana is covered at 95% reliability and includes 69 of the 92 counties and approximately 20,000 users. This includes first responders in 55 counties, 16 state agencies (including 2500 state Department of Transportation workers and 2500 Corrections Officers); and three federal agencies. Project Hoosier SAFE-T is building and maintaining the system backbone: towers, antennas, shelters, generators, transmitters, base stations, cabling and frequencies. Participating agencies provide their own user equipment, including dispatch consoles, radios and computers, which they can buy at a 20-25% discount through the state. Participation is voluntary and agencies pay no user fees. The goal is to make interoperable communications affordable and available for every community. The system is scheduled for completion in 2007.

Indiana was able to leverage partial funding for this project through an existing small fee attached to vehicle registrations. These funds were being used by the state for information technology projects and a portion of the proceeds were re-directed to interoperable communications. This funding mechanism, teamed



with federal dollars and local partnerships, will allow the state to complete their project 3 months early and $12 million under budget. In addition to forging statewide interoperable communications, Indiana spurred the creation of the Midwest Public Safety Communication Coalition (MPSCC), an alliance with Michigan, Illinois, Kentucky and Ohio, dedicated to creating regional interoperability between these neighboring states.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Iowa Information

Interoperable Communications: DHS Funded Activities – Iowa

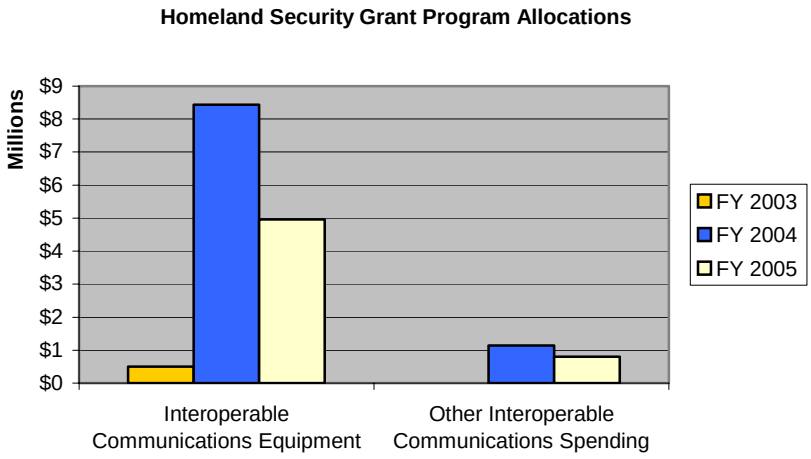
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$500,000.00		**$500,000.00**
FY 2004	$8,434,320.49	$1,145,784.70	**$9,580,105.19**
FY 2005	$4,959,766.00	$807,241.00	**$5,767,007.00**
Total	**$13,894,086.49**	**$1,953,025.70**	**$15,847,112.19**

Current Interoperable Communications Initiatives

One of the biggest interoperable communications initiatives in Iowa is an interoperable voice, data and video system for command operations. The primary driver behind this project is the development of real-time information sharing between EOCs in the region; this system will not only allow voice interoperability, but is expanded to include data and video communications. This is being done in Region 5 of the state, which includes 17 counties in southeast Iowa. The state is looking at the technology behind this system and exploring the possibility of expanding it to the other five regions in the state.

Another interoperable communications initiative is a statewide communications plan. This is similar to the Tactical Interoperable Communications Plan (TICP) as required in the FY05 grant guidance; however, the state is expanding that plan for statewide implementation to include not only voice interoperability but also data and video communications. The governance structure of this plan is currently in development.

Iowa received a $6 million grant from DHS/ICE to implement the Tri-State Homeland Security First Responder Communications Interoperability project. This project allows the use of equipment and technologies to increase interoperability within the Tri-State Siouxland area (Woodbury County, IA, Dakota



County, NE and Union County, SD) among the fire services, law enforcement and emergency services. The project provides the backbone for the system changes necessary to enable first responders to communicate via voice and data "on the scene" as well as to provide "incident command" assessment. This project has been implemented, and they are now looking into expanding it even further.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Kansas Information

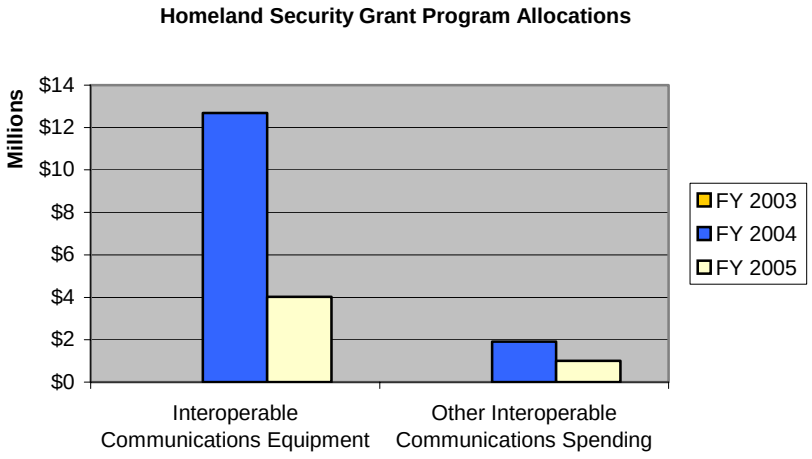
Interoperable Communications: DHS Funded Activities – Kansas

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$0.00		**$0.00**
FY 2004	$12,689,157.02	$1,917,636.57	**$14,606,793.59**
FY 2005	$4,026,520.00	$1,009,759.00	**$5,036,279.00**
Total	**$16,715,677.02**	**$2,927,395.57**	**$19,643,072.59**

Current Interoperable Communications Initiatives

- Kansas has purchased two Communications on Wheels (COW) vehicles. The vehicles are equipped with extendable antennas, an ACU 1000 and approximately 25 handheld units to be distributed to first responders following natural disasters or terrorist attack. The COWs were purchased with the State's 20% share of the FY2003 funds for $546,000. The COWs have been used frequently in training and actual events including an Ice Storm in which the COWs replaced a destroyed communications tower.

- Kansas is pursuing a Statewide interoperable communications system. The State has provided 5 million in G&T funds to develop an 800MHZ system in the Southeast portion of the State. This phase of the project is expected to be completed by the end of June 2006. The second phase of the project will begin in July 2006 and will result in a large portion of the State being covered by the 800 MHZ system. Communities which will not be covered by the 800 MHZ system will be connected to the interoperable communications system through ACU1000's and similar devices which will allow multiple agencies with diverse frequencies to communicate on common channels. The State has installed these



devices on established communications towers operated by the Kansas Department of Transportation. Additionally, numerous portable and handheld radios have been purchased to build out the new system and replace aging equipment.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

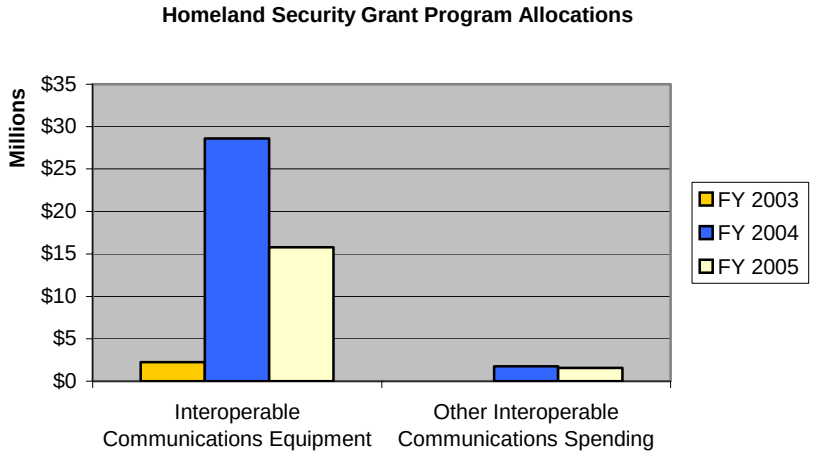
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Kentucky Information

Interoperable Communications: DHS Funded Activities – Kentucky

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,268,323.72		**$2,268,323.72**
FY 2004	$28,589,807.39	$1,767,365.00	**$30,357,172.39**
FY 2005	$15,781,418.00	$1,573,030.00	**$17,354,448.00**
Total	**$46,639,549.11**	**$3,340,395.00**	**$49,979,944.11**

Current Interoperable Communications Initiatives

- FY 2004: $3.5 million for Louisville's MetroSafe Project.
- FY 2004: $4 million for wireless communications infrastructure.
- FY 2005: $2.5 million for mobile data terminals.
- Summary: The two primary interoperability projects underway in the Commonwealth are Louisville's MetroSafe Project and the statewide mobile date terminal project for law enforcement, fire, and EMS. MetroSafe is a joint operation to consolidate communications for 911, the Louisville Metro Police Department, Louisville Fire and Rescue, Local Government Radio, and Louisville Metro Emergency Medical Services. In addition, MetroSafe will offer interoperability for all remaining 911 PSAPS, Jefferson County Sheriff's Office, suburban city agencies within Louisville Metro as well as the 13 surrounding counties in Kentucky and Indiana. The MetroSafe project is responsible for acquiring a facility; developing and implementing adequate infrastructure to support voice, wireless and data communications; implementing proper security; and acquiring and implementing public safety applications to support consolidated communications and public safety interoperability.
- The Commonwealth has also developed a statewide interoperable mobile data terminal project they are implementing for law enforcement. The project will be expanded to fire and EMS agencies and will be compatible with the MetroSafe project in Louisville.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Louisiana Information

Interoperable Communications: DHS Funded Activities – Louisiana

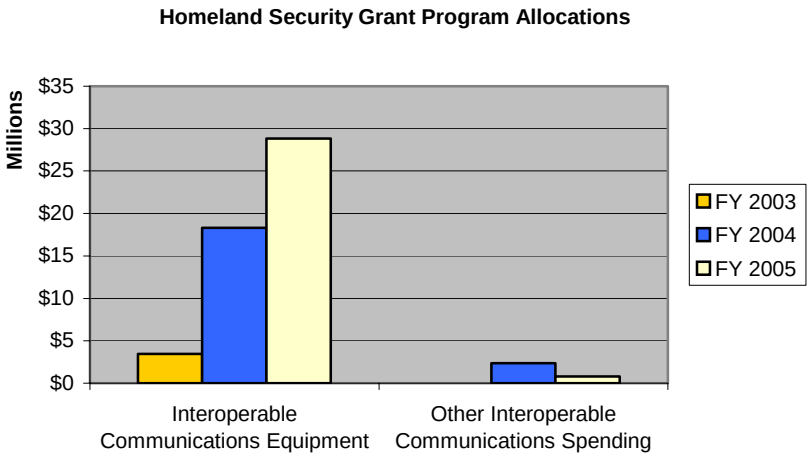
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,451,736.66		**$3,451,736.66**
FY 2004	$18,314,788.24	$2,368,272.00	**$20,683,060.24**
FY 2005	$28,819,824.29	$787,480.35	**$29,607,304.64**
Total	**$50,586,349.19**	**$3,155,752.35**	**$53,742,101.54**

Current Interoperable Communications Initiatives

Hurricanes Katrina and Rita confirmed the need for a single network, multiple zone redundant architecture with an expanded capacity to provide reliable and survivable communications to the Louisiana emergency response community. To achieve this, Louisiana has pursued the following initiatives:

Louisiana is installing an integrated communications platform by shared use of 700MHz and 800MHz wireless communications. This system will provide layers of redundancy and increased capacity to the current communications capability of the state network. Redundant communications paths are being secured, thereby ensuring operability and survivability. These measures will provide for greater interoperability among the State's emergency response community, further augmented by implementing bridging capabilities among local networks and the state network. And, it will provide a system which permits communications support for responders from other jurisdictions when in a disaster area. The focus will first be on coastal parishes of Louisiana reaching up to the I-10/I-12 corridor.

Immediately following landfall of Hurricane Katrina, Louisiana officials met with FEMA in an effort to coordinate the emergency implementation of the 700 MHz communications network. In response, FEMA issued a purchase order to Motorola for $15.9 million to repair and augment the current infrastructure in the effected area. This included the



construction and upgrade of 19 communications tower sites in southeast Louisiana. Currently, 16 of these sites are fully operational, with work and funding still pending on the remainder. The project consists of an Astro25 700MHz, 19 site, Project 25 compliant network providing interoperable voice communications for sixteen parishes. Additionally, FEMA has funded a $5 million purchase of mobile and portable radios for St. Bernard and Plaquemines Parishes which will utilize the State's 700 MHz communications system.

The UASI Region 1 (New Orleans metro area), utilizing DHS/COPS grant funding, has issued a $16 million contract with Motorola for the acquisition of an APCO Project 25 compliant dual mode 700/800 MHz digital trunked system, which will become a zone within the single system multi-zone Statewide 700 MHz system. This architecture will provide seamless, interoperable roaming with the entire State system. Additionally, the Louisiana legislature appropriated $2.8 million to the Louisiana State Police to remediate nine additional sites in southwest Louisiana.

To establish levels of interoperability between disparate communications systems, Louisiana State Police has purchased eight (two are portable) ACU1000 devices to aid in the state's interoperability endeavor. These devices have been installed at the LSP Troops located in Shreveport, New Orleans, Lake Charles, Lafayette, Grey and Covington and will allow multiple agencies to communicate with each other on a common channel.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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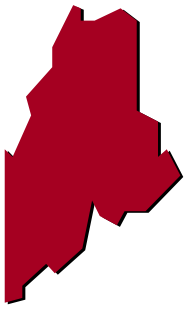
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Maine Information

Interoperable Communications: DHS Funded Activities – Maine

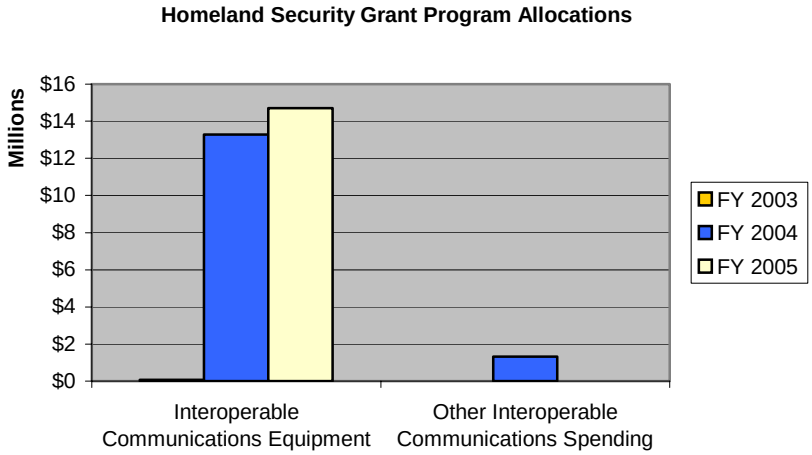
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$67,274.00		**$67,274.00**
FY 2004	$13,280,488.84	$1,326,800.00	**$14,607,288.84**
FY 2005	$14,710,255.80		**$14,710,255.80**
Total	**$28,058,018.64**	**$1,326,800.00**	**$29,384,818.64**

Current Interoperable Communications Initiatives



- FY 2004: $1.3 million to purchase 3 statewide mobile command vehicles and 6 smaller mobile command vehicles to be placed strategically around the state to enable first responders to quickly establish command, control, and interoperability at the scene of an incident.
- FY 2005: $5.5 million sub-granted to locals to purchase interoperable communications equipment.

- Summary: Maine is implementing CON-OPS as a foundation and standard for statewide interoperability planning (Frequency standards). Radios are being purchased for all 49 hospitals to ensure statewide interoperability with first responders. The Maine Radio Network Board is awaiting a final report on a statewide interoperability study to consolidate 5 separate network systems into a single statewide system.



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Homeland Security

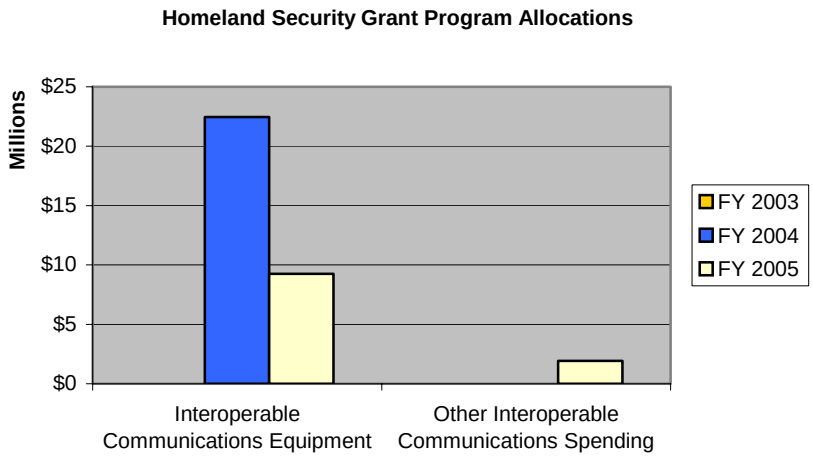
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Maryland Information

Interoperable Communications: DHS Funded Activities – Maryland

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$22,433,839.00		**$22,433,839.00**
FY 2005	$9,244,620.00	$1,927,502.00	**$11,172,122.00**
Total	**$31,678,459.00**	**$1,927,502.00**	**$33,605,961.00**

Current Interoperable Communications Initiatives

- FY 2004: $4,118,924 to design and establish back-up dispatch/communications center for Anne Arundel & Howard Counties
- FY 2005: $1,142,773 to develop interoperable voice and data communications systems in the Greater Baltimore area.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Massachusetts Information

Interoperable Communications: DHS Funded Activities – Massachusetts

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$10,024,269.07		**$10,024,269.07**
FY 2004	$18,565,817.81	$2,240,063.95	**$20,805,881.76**
FY 2005	$10,487,155.21	$3,360,000.00	**$13,847,155.21**
Total	**$39,077,242.09**	**$5,600,063.95**	**$44,677,306.04**

Current Interoperable Communications Initiatives

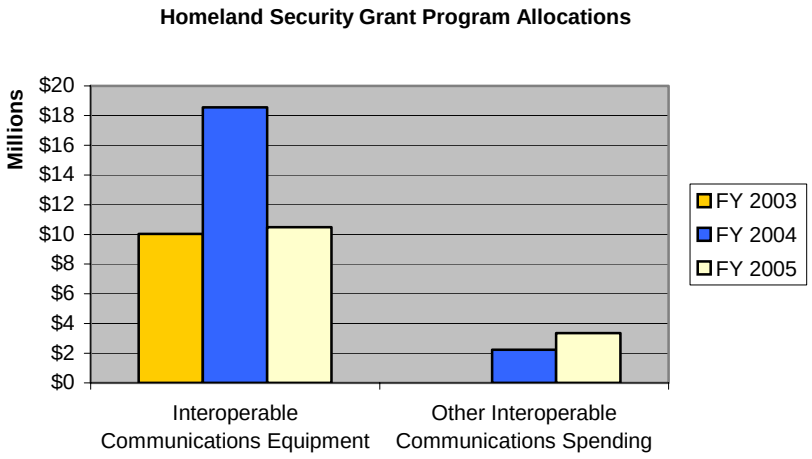
- Establishing the Commonwealth of Massachusetts Fusion Center to manage the flow of information supporting rapid identification of emerging terrorism threats within the Commonwealth

RapidCom Participant

- **Boston**

- Establishing four Regional Communications Centers to insure they have the technology, frequencies, and equipment to meet local and regional needs

- Establishing an alert communications system which will provide improvements to the overall security of the State office buildings and its evacuation/emergency response planning



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Michigan Information

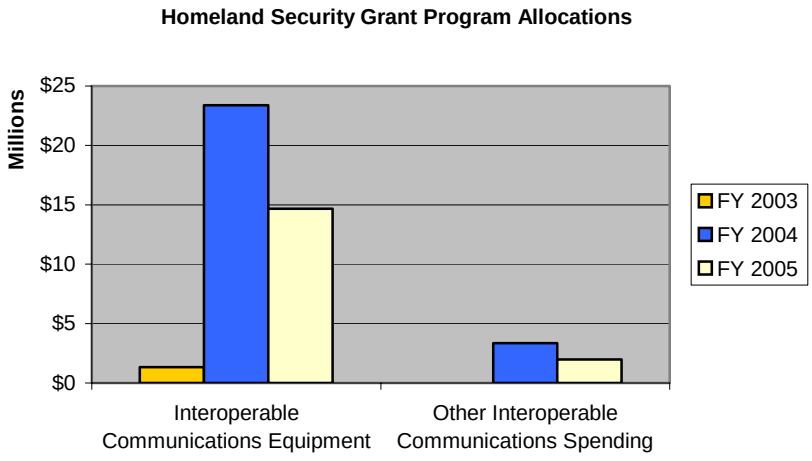
Interoperable Communications: DHS Funded Activities – Michigan

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,355,000.00		**$1,355,000.00**
FY 2004	$23,378,387.38	$3,375,493.48	**$26,753,880.86**
FY 2005	$14,655,759.53	$1,984,953.00	**$16,640,712.53**
Total	**$39,389,146.91**	**$5,360,446.48**	**$44,749,593.39**

Current Interoperable Communications Initiatives

In 1994, Michigan began the construction of an all-weather digital statewide interoperable 2-way mobile radio communication system for use by Michigan's public safety community. Known as the Michigan Public Safety Communication System (MPSCS), the system was constructed to support the communication needs of all public safety agencies in the state wishing to join MPSCS as a member. MPSCS was designed and constructed by Motorola, one of the industry leaders in public safety communication.

MPSCS operates in the 821 radio frequency band dedicated to public safety communication. MPSCS is supported by a microwave backbone that controls traffic on the system and also supports a sophisticated alarm and control system. MPSCS present design capacity will support 64,000 radio ID's and 16,000 talkgroups. MPSCS has the ability to integrate with other 800 MHZ Motorola systems (thereby expanding its capacity within the State) and to support data sharing. For example, MPSCS is integrated with 3 sites in Livingston, Mason, Oceana, and Kalamazoo Counties, and systems in Monroe and Genesee Counties, and the City of Detroit. Additional integration projects are underway in Berrien, Calhoun, Ionia, St. Clair, and Washtenaw Counties. Today over 33,000 radios representing 800 agencies utilize MPSCS.



The Michigan Department of Information Technology in cooperation with the Michigan Department of State Police,

Communications Division, operates MPSCS. An appointed advisory board comprised of Members and representatives of public safety advises the Governor and the Director of the Department of Information Technology on public safety communication issues and utilization of the MPSCS to advance interoperable communications.

Besides MPSCS, other Michigan communities are pursuing other public safety communication options. For example, Oakland County is in the process of building a M/A-COM designed communication system. Oakland's communication system is intended to provide interoperable public safety communications for all public safety agencies in the County.

Utilizing the M/A-COM Opensky technology (end-to end Internet Protocol (IP) and time-division multiple access (TDMA) airlink) Oakland's system will have following features:

- Digital and analog radio interoperability with systems of any type
- Enhanced data capability for quick download of data and graphic files
- Efficient use of radio frequencies
- GPS tracking
- Remote software reconfiguration and easy upgrades

Additionally, Oakland County and MPSCS are participating in a pilot interoperability solution utilizing M/A-COM's Network First solution. This pilot project is ongoing.

Along with sustaining and enhancing the Michigan Public Safety Communications System, patches and links will be identified and developed for those organizations and jurisdictions operating on a separate system. The state is also working to analyze the capabilities of complimentary communication and information sharing systems.

Michigan has invested $221,000,000 in the construction of the statewide public safety communications system and is currently investing another $19,000,000 to upgrade the system to provide data capability statewide.

The State of Michigan has been recognized by the Public Safety Wireless Network (PSWN) and other knowledgeable industry and user groups as visionary in its 25 plus year approach to interoperability. No other state in the country boasts such a system.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Minnesota Information

Interoperable Communications: DHS Funded Activities – Minnesota

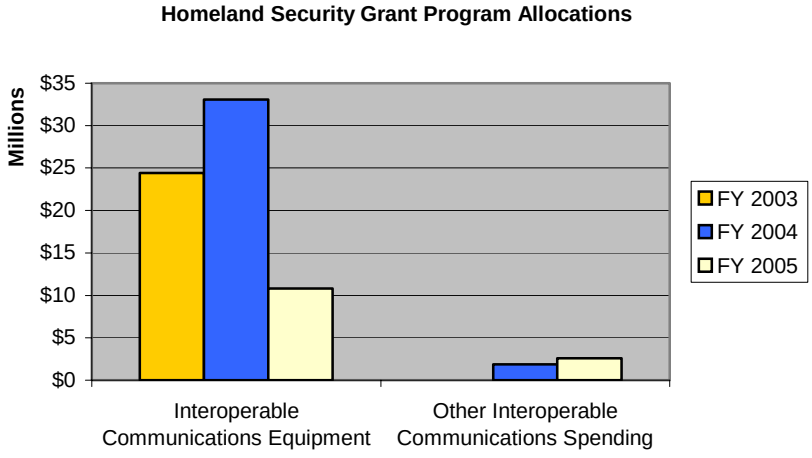
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$24,415,173.21		**$24,415,173.21**
FY 2004	$33,063,296.73	$1,887,356.95	**$34,950,653.68**
FY 2005	$10,813,479.00	$2,607,704.00	**$13,421,183.00**
Total	**$68,291,948.94**	**$4,495,060.95**	**$72,787,009.89**

Current Interoperable Communications Initiatives

Minnesota has implemented the Allied Radio Matrix for Emergency Response (ARMER). Aging communication infrastructure, the lack of frequencies, interoperability across bands and interoperability across systems, add up to a critical need to improve Minnesota's public safety communication infrastructure. The "800 MHz Executive Team Report" to the 2001 Minnesota Legislature (www.dot.state.mn.us/oec/ statewide/statewideinfo.html) requires a coordinated response through the development of the Statewide Public Safety Radio Communication Plan. This communication priority is also reflected in Minnesota's 2004 Homeland Security Strategy and Assessment, Goal 7: "Implement a statewide system of Interoperable communication for local and state resources to be more effective and efficient in ensuring the safety of the citizens and emergency responders in Minnesota."

Statewide Public Safety Radio Communication Plan

The objective of this goal is to provide for the planning and development of a statewide interoperable trunked radio system to replace the existing diverse and antiquated analog communication systems. This plan provides for a phased statewide development of the radio system infrastructure. The plan calls for six phases, with Phase 1 covering the initial backbone construction in the seven county metropolitan area plus Chisago and Isanti counties. Phase 2 included local enhancements to the initial backbone in the seven county metropolitan area.



Phases of Development

Phase 1 – Basic communication backbone and interoperability infrastructure completed December 2002, which included local enhancements to Carver County,

Minneapolis and portions of Hennepin County.
Phase 2 – Additional local enhancements to Phase 1 backbone.
Phase 3 – St. Cloud and Rochester State Patrol districts.
Phase 4 – Brainerd and Duluth State Patrol districts.
Phase 5 – Marshall, Mankato and Detroit Lakes State Patrol districts.
Phase 6 – Thief River Falls State Patrol district.

ARMER Governance Structure

- With the completion of the Phase 1 backbone in the metropolitan area, there was a need to shift from a regional to a statewide emphasis. The 2004 Minnesota Legislature created the Statewide Radio Board (SRB) out of the Statewide Public Safety Radio and Communication Planning Committee. The SRB is composed of twenty-one members, including the following:
- Commissioner of Public Safety – Chair
- Commissioner of Transportation
- Commissioner of Natural Resources
- Commissioner of Administration
- Commissioner of Health
- Commissioner of Finance
- Chief of the Minnesota State Patrol
- Chair of the Metropolitan Emergency Services Board
- A regional radio board representative
- Local officials as follows (one from metro and one from greater Minnesota):
- Two elected city officials
- Two elected county officials
- Two sheriffs
- Two chiefs of police
- Two fire chiefs
- Two emergency medical service providers

Currently, approximately 87 percent of public safety officials (based upon population covered) in the metropolitan area are operating on the regional interoperable radio system. The transition of Dakota and Ramsey counties to the regional system will bring the local commitment for infrastructure to $59.2 million. The percentage of public safety officials operating on the system will increase with the addition of Dakota County in 2006. With the allocation of $45 million to the continued expansion of a statewide interoperable communication system, the Statewide Radio Board, the Department of Public Safety and the Department of Transportation are formulating their construction plans.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Mississippi Information

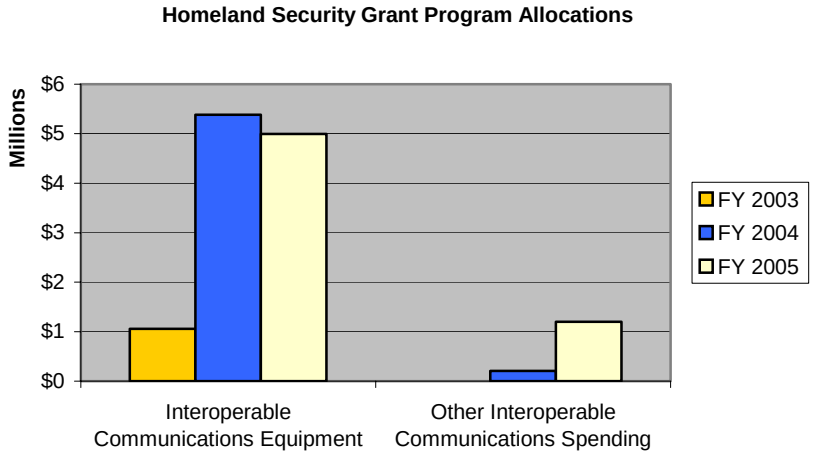
Interoperable Communications: DHS Funded Activities – Mississippi

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,062,059.34		**$1,062,059.34**
FY 2004	$5,378,438.20	$205,229.00	**$5,583,667.20**
FY 2005	$4,992,326.44	$1,201,375.85	**$6,193,702.29**
Total	**$11,432,823.98**	**$1,406,604.85**	**$12,839,428.83**

Current Interoperable Communications Initiatives

- $1.5 M in FY 2004 HSGP funds are being used to establish the Global Security System (GSS Net) First Alert System. The contract was awarded to the Mississippi-based company, Global Security Systems Network, to create the alert system that broadcasts a digital text message through FM frequencies to emergency responders during times of crisis. The project is managed by the University of Mississippi, and the MS Public Broadcasting agreed to partner on this initiative by providing the use of their tower network as the backbone for the State-wide alert system.

- Also, the MS Office of Homeland Security intends to allocate HSGP funds to the following project, although the funding amount has not yet been determined. The intent is to partner with the MS Automated System Project to make significant upgrades to public safety information and communication infrastructure. This will enhance the ability of the first responder community in accessing much needed applications such as Jail Management, Records Management or Computer Aided Dispatch. Through these tools, first responders will have instant access to information such as arrest warrants, mug shots, criminal data, HAZMAT data and medical emergency protocols. It will help facilitate regional information while at the same time enabling data ownership and control by each agency.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Missouri Information

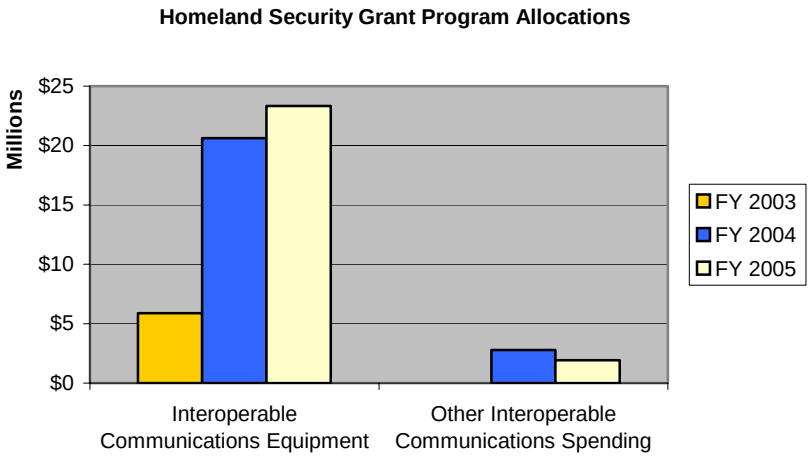
Interoperable Communications: DHS Funded Activities – Missouri

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$5,894,550.12		**$5,894,550.12**
FY 2004	$20,621,070.83	$2,802,150.44	**$23,423,221.27**
FY 2005	$23,328,400.15	$1,933,868.00	**$25,262,268.15**
Total	**$49,844,021.10**	**$4,736,018.44**	**$54,580,039.54**

Current Interoperable Communications Initiatives

Enhancement of the state interoperable communication capabilities continues to be a state priority. A statewide interoperable communications plan is being developed by the Missouri State Highway Patrol (MSHP) under the direction of the Homeland Security Advisory Council (HSAC) and the State Interoperable Executive Committee (SIEC). This baseline plan will be used as a baseline for the development of Interoperable Communications Plans in the nine Missouri Homeland Security Regions. It is anticipated that this planning effort will be completed by the end of FY2006. Over the past two years over $13.7 million was competitively awarded to local jurisdictions in Missouri for the improvement and enhancements of their interoperable communications efforts under direction of the HSAC and SEIC. The award process involving a peer review committee (including members of the SIEC and other communication experts) resulted in awarding funds to 347 jurisdictions across the State. Additionally grants were awarded to Independence, Missouri and the City of St. Louis for the installation of interoperable communication switches.

The St. Louis Urban Area has implemented a Swap (Cache) Radios system. "Swapping radios" refers to maintaining a cache of standby radios that can be deployed to support regional incidents. These radios may be from a regional cache, or from a participating agency. This allows all responders to use a common, compatible set of radios during an incident. Additionally they have Shared Channels, "Shared channels" refer to common channels that have been established within the region, within each respective state, or by local agreement. Such channels are programmed into radios to provide interoperable communications among agencies.



St. Louis has also instituted a system of "Gateway," or matrix systems interconnect channels of different systems (whether on different bands, modes or proprietary platforms), allowing first responders to use their existing radios and channels to be interconnected with the channels of other users outside of their agency

Kansas City Urban Area: The Mid-America Regional Council (MARC) Regional Interoperability Committee oversaw the preparation of an assessment and interoperable communications plan for the Kansas City metro area in 2004. Law enforcement, fire, emergency medical service, state and federal agencies are working together to enhance interoperable public safety communications through implementation of the multi-phase Regional Interoperability Plan. The Regional Interoperability Plan guides homeland security investments to expand and enhance inter-agency coordination and communications. The objective of the plan is to outline resources and process for our region to achieve the optimum levels of interoperability as defined in the SAFECOM Interoperability Continuum. The FY06 UASI funding request includes support for design of a regional mobile data sharing system.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

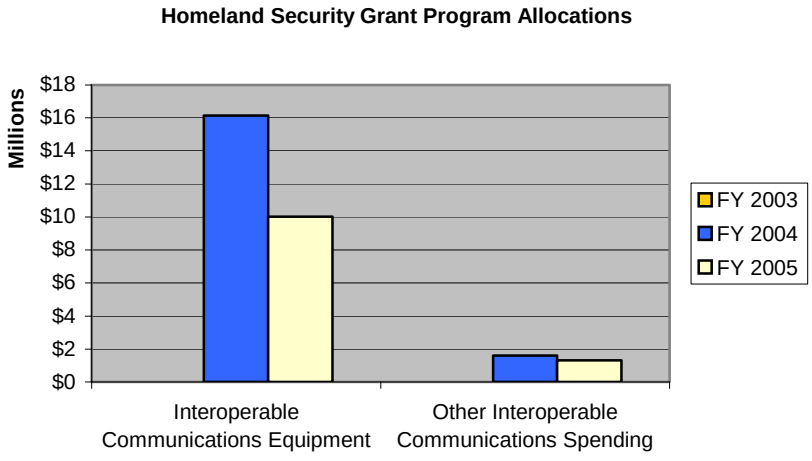
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Montana Information

Interoperable Communications: DHS Funded Activities – Montana

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$16,131,122.77	$1,604,302.59	**$17,735,425.36**
FY 2005	$10,011,848.00	$1,323,315.00	**$11,335,163.00**
Total	**$26,142,970.77**	**$2,927,617.59**	**$29,070,588.36**

Current Interoperable Communications Initiatives

- The Montana All Threats Intelligence Center (MATIC) and JTTF were established last year providing real-time informatics within the state and throughout the region.
- Montana State-wide Interoperability Communication Projects has been underway for just over one year. This project will provide an effective, reliable interoperable communications through three key elements: 1) trunked/conventional VHF radio system connecting local, state, tribal and federal response agencies across Montana; 2) An integrated mobile data system supports field transmission of data to responders; 3) Statewide enhanced 9-1-1 providing wire line and wireless connection from the public to the response community.
- The current systems are being designed and coordinated through local stakeholder leadership across the state. The system designs are consistent with the state with in the region as in South Dakota and Wyoming, providing wide regional interoperability opportunities across state boundaries.
- The Digital Trunked Voice Radio System "backbone" and system is one of the highest priorities for the State of Montana with regards to homeland security initiatives, meeting National and Target Capabilities.
- Montana has dedicated 90-100% of its IC funding to the expansion, enhancement, maintenance, training and exercising the State-wide system.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Nebraska Information

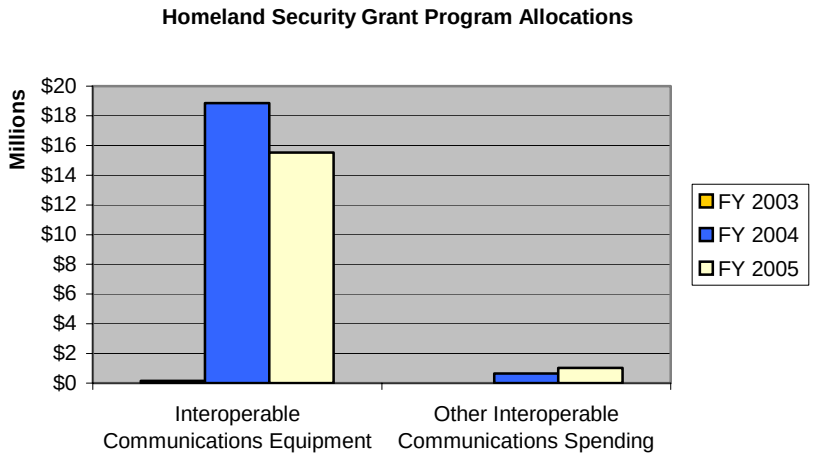
Interoperable Communications: DHS Funded Activities – Nebraska

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$150,290.00		**$150,290.00**
FY 2004	$18,858,680.00	$636,349.00	**$19,495,029.00**
FY 2005	$15,520,876.00	$1,029,070.00	**$16,549,946.00**
Total	**$34,529,846.00**	**$1,665,419.00**	**$36,195,265.00**

Current Interoperable Communications Initiatives

- NE is achieving communication interoperability by first establishing regional communication systems and then by integrating those systems to provide statewide interoperability. All 93 Nebraska counties are organized into regional areas, which has allowed the state to set communication benchmarks. Nebraska has allocated $42 million in grant funds from FY99-FY05 towards interoperable communications. This amount equals 66.82% of Nebraska's overall funding, with 83% of FY04 funds and 85% of FY05 funds dedicated to interoperable communications. Projects include the replacement and updating of aging communications equipment, communication tower assessments, and a frequency study.

- The South Sioux City Information Sharing Project utilized $457,226.00 towards an Internet and broadband, Non-Line-of-Sight wireless network that covers the entire geographic area of South Sioux City, NE. The project also provides coverage into neighboring Nebraska, South Dakota and Iowa communities. This is the first time that a Nebraska community will have a wireless communications network for all possible mobile data communication needs. The wireless network was constructed



and is operated as part of a public/private partnership between the City of South Sioux City, NE and Evertek Inc. City owned fiber optics have been used to provide the backbone for the City's wireless system. This is a highly effective system utilized by two 911 Centers, police and fire departments and various state and local agencies.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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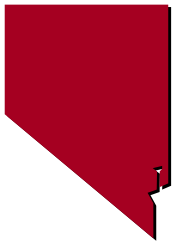
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Nevada Information

Interoperable Communications: DHS Funded Activities – Nevada

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$18,743,449.74	$932,611.00	**$19,676,060.74**
FY 2005	$4,924,662.00		**$4,924,662.00**
Total	**$23,668,111.74**	**$932,611.00**	**$24,600,722.74**

Current Interoperable Communications Initiatives



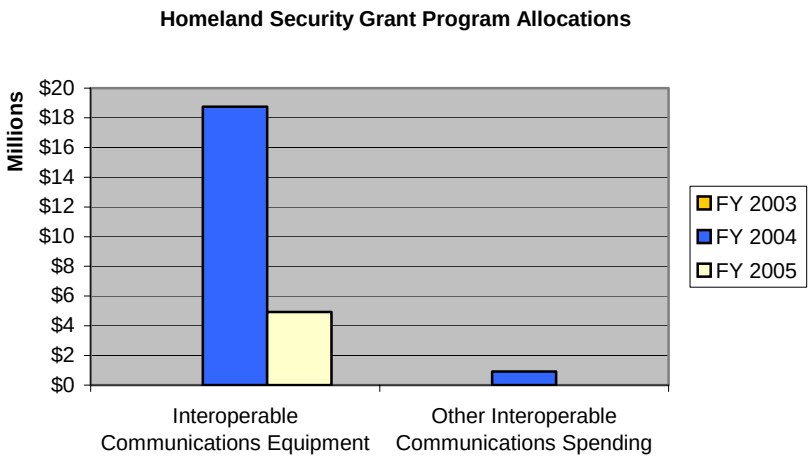
Interoperable communications equipment expenditures were the top priorities for Clark County (and the included southern Nevada cities) for the **04 grant program**.

Approximately $4.5M (SHSP) was allocated to Las Vegas Metropolitan Police Department (Metro) to migrate some 5,000 public safety users from a conventional VHF system to a 700MHz trunking system. The result will enable Metro to be interoperable with Las Vegas and Clark County fire departments, North Las Vegas, Henderson, and University Police Departments and state agencies like the Highway Patrol, Department of Transportation as well as agencies located in the north part of the state.

Additionally, some $1.1M (SHSP) was prioritized to allow dispatch centers to be connected together to enhance the region's ability for back-up communication should a dispatch center become inoperable for any reason.

$1.3M (SHSP) was allocated for the City of North Las Vegas for their communications upgrades to ensure compatibility with the surrounding public safety agencies.

And, $2.3M (SHSP) was also allocated for microwave communications system expansion efforts to ensure effective communications throughout the region.



Similar expenses were top priorities with the LETPP and UASI funding as well, including $2M (LETPP) for replacement of the outdated VHF transceivers, $2.8M (UASI) for wide-area seamless roaming coverage, and $2.4M (UASI) to purchase equipment to ensure the City of North Las Vegas will be compatible with other state and local entities.

For 05, interoperable radio equipment purchases were fewer in number and cost. Even so there were still a few large projects for southern Nevada including $1.8M (SHSP) for the City of Boulder City to achieve interoperability with the surrounding jurisdictions by replacing their old VHF system with an APCO 25 compliant 800 MHz system.

Continuing microwave expansion projects for the southern region were also supported by an additional $700K in (SHSP) funding.

Numerous smaller communities also used their funding to improve and/or upgrade their communications systems.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

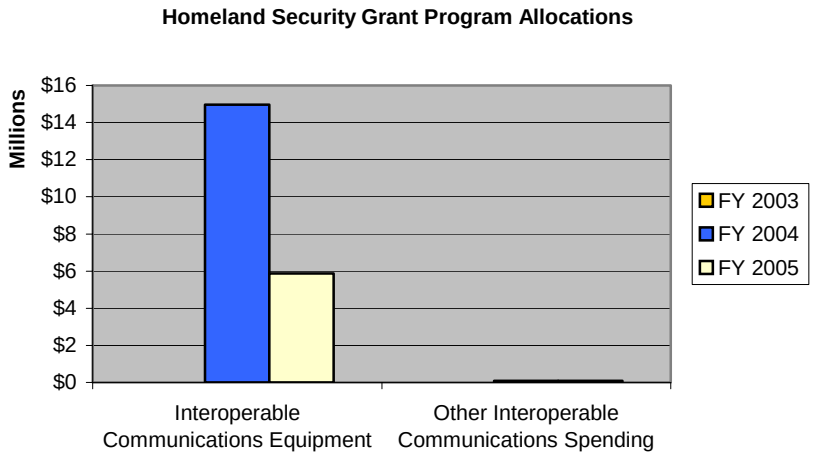
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
New Hampshire Information

Interoperable Communications: DHS Funded Activities – New Hampshire

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$14,973,022.00	$86,006.00	**$15,059,028.00**
FY 2005	$5,877,620.45	$90,000.00	**$5,967,620.45**
Total	**$20,850,642.45**	**$176,006.00**	**$21,026,648.45**

Current Interoperable Communications Initiatives

- FY 2004: $11.2 million to upgrade interoperable communications statewide.
- FY 2005: $4.5 million to upgrade multi-discipline interoperable communications statewide.
- Summary: Interoperable communications is the number one project in New Hampshire. Both the state and locals have invested the majority of their G & T funding into their statewide interoperability project. Modeled after the state's successful LAWNET program, which created statewide interoperability for law enforcement, the current project is bringing both fire and EMS onto that system creating statewide interoperability between those three disciplines.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
New Jersey Information

Interoperable Communications: DHS Funded Activities – New Jersey

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$93,000.00		**$93,000.00**
FY 2004	$20,868,923.44	$3,333,108.37	**$24,202,031.81**
FY 2005	$9,385,087.53	$2,155,458.00	**$11,540,545.53**
Total	**$30,347,010.97**	**$5,488,566.37**	**$35,835,577.34**

Current Interoperable Communications Initiatives

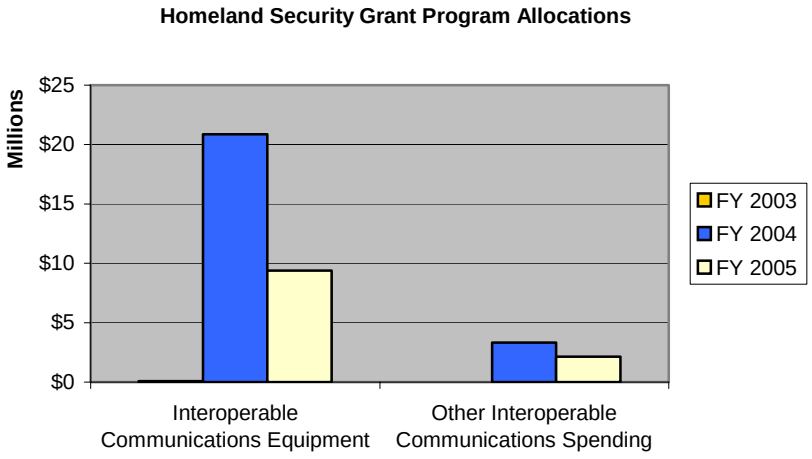
RapidCom Participant

- **Jersey City**

The New Jersey Interoperability Communications System (NJICS) The NJICS is a statewide communication system comprised of a series of specific interoperable communications assets established in each of New Jersey's five regions. These assets include radio cache radios; interconnect switches; tactical interoperability channels and region wide interoperability channels. The infrastructure for the NJICS is housed at county and local sites in the individual regions. Using the NJICS, municipal, county, state, and federal public safety agencies can achieve interoperability via the radios they own today.

Using G & T funding (SHSP & UASI) New Jersey's communication capability enhancements include:

- Regional Central Dispatch.
- Regional tactical interoperability channels throughout the state's regions.
- Over 2,000 radio cache radios distributed throughout the state's regions.
- At least 24 radio cache radios at each county OEM statewide.
- Radio cache radios are uniformly preprogrammed with all interoperability channels.
- Radio caches include 21 interconnect switches for



tactical operations.
- Current NJICS system provides direct interconnect to NYC agencies (NYFD, NYPD, NYOEM)

NJICS Specific to Rep. Pascrell's District (Essex and Passaic Counties) Rep. Pascrell's district falls within New Jersey's UASI region (Morris, Hudson, Bergen, Union, Essex, and Passaic counties). The NJICS in the UASI region is the most developed system in the state and serves as a model for the other regions.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
New Mexico Information

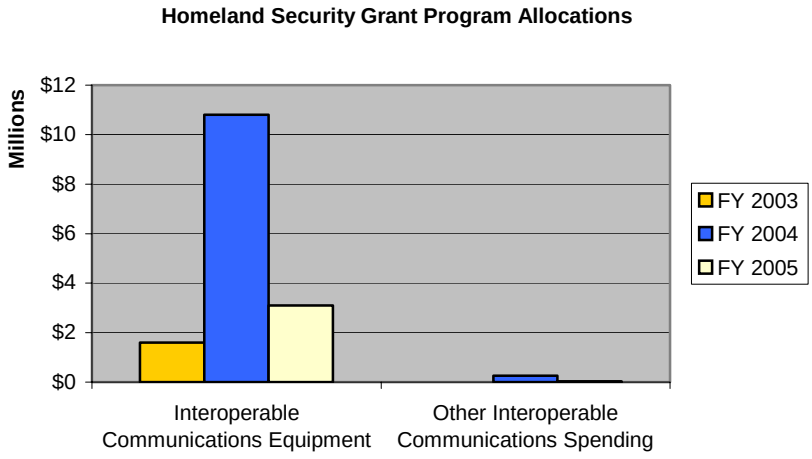
Interoperable Communications: DHS Funded Activities – New Mexico

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,608,034.31		**$1,608,034.31**
FY 2004	$10,793,467.00	$255,230.00	**$11,048,697.00**
FY 2005	$3,101,961.00	$19,500.00	**$3,121,461.00**
Total	**$15,503,462.31**	**$274,730.00**	**$15,778,192.31**

Current Interoperable Communications Initiatives

- New Mexico has placed significant emphasis on developing and upgrading interoperable communications for first responders in the State. Four significant projects that have been, or will be funded are:

- Eddy County (SE New Mexico) - A VHF Digital Simulcast System which will provide microwave/interoperable communications upgrades in SE New Mexico, primarily in Eddy County. Procures a Digital Simulcast System, which will provide secure digital communications providing the ability for all responders in the county to communicate securely. Also, because the system is APCO Project 25 compliant, it will allow responders to also communicate in a non-secure mode with those agencies not on a digital system. This initiative also provides upgrades to the Eddy County Consolidated Dispatch Center and begins procurement of equipment for the digital simulcast infrastructure. System will be compatible with the GSD Digital Microwave Backbone currently being installed Statewide. Funding for Project = $685,000. Additionally, funds have been provided to the Eddy County Sheriff's Dept. for the purchase of mobile radios and vehicular repeater systems. Funding for Project = $205,000



- San Juan County (NW New Mexico) - Provides funding for a VHF Digital Simulcast System, which

like the system in Eddy County will provide secure digital communications for first responders in San Juan County for dispatch throughout NW New Mexico. The system provides the ability to communicate non-securely with those agencies that do not have a digital communications capability. This initiative will also support the Four Corners Interoperable Communications Initiative that seeks to enhance interoperable communications between NM, AZ, CO and UT. Funding for Project = $1,678,665 (San Juan County has used $1,500,000 in county funds to support this initiative).

- Interoperable Tactical Communications for SWAT Teams (Statewide) - New Mexico has procured standardized/interoperable secure tactical communications for certified SWAT teams statewide. Funding for Project = $922,531

- Statewide Interoperable Communications Architecture - Funding has been requested in the FY06 Funding Application to develop a Statewide Interoperable Communications Architecture and a State Interoperable Communications Plan. The plan will build on the Digital Microwave Backbone System currently being installed in the State. Total Cost of Project (projected) - $1,500,000

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
New York Information

Interoperable Communications: DHS Funded Activities – New York

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,098,418.00		**$3,098,418.00**
FY 2004	$82,702,881.00	$2,554,943.00	**$85,257,824.00**
FY 2005	$54,566,595.00	$2,582,787.00	**$57,149,382.00**
Total	**$140,367,894.00**	**$5,137,730.00**	**$145,505,624.00**

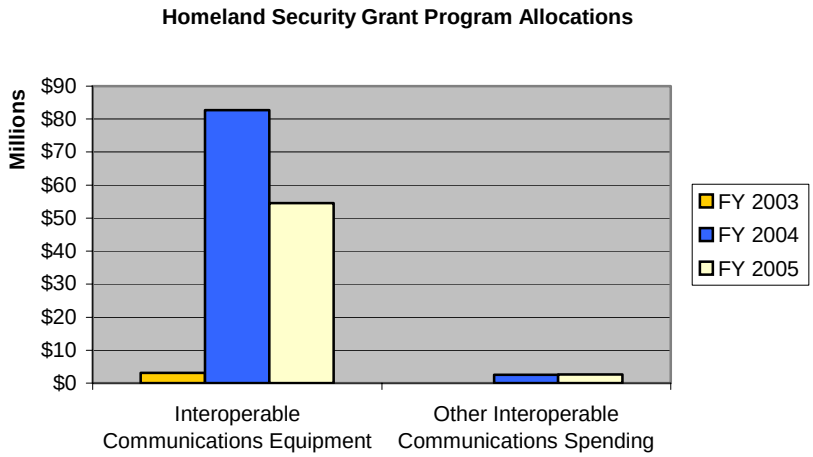
Current Interoperable Communications Initiatives

RapidCom Participant

- **New York**

The State of New York has committed the expenditure of $2.05 billion dollars over the next 20 years to immediately engineer, deploy, manage and operate a SAFECOM P-25 compliant, I.P. addressable wireless voice and data communications network. Construction/Development of the infrastructure is underway now, with various regions being made operational by March 2007. All regions in New York State will be operational by 2010. The NYS Legislature requires that all State Agencies participate in migrating their LMR communications systems over to SWN as each region is built. Local government, County Government, Tribal Public Safety and Public Safety Entities may participate on a completely voluntary level. The chosen level of interoperability the Government entity desires will determine the amount of I.P. addressable communications equipment that the Locals must purchase. We are hopeful to utilize SHSP Funding in cooperation with G&T to offset some of the local purchase costs during the various grant years. This was included in our Investment Justification for FY 06 and will also be included each year until 2010.

Significant transition planning, fleet mapping, operational consolidation and training programs are required for each interoperable partner. NYS $ 2.05 billion dollars builds, maintains and administers the statewide infrastructure and network only.



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Homeland Security

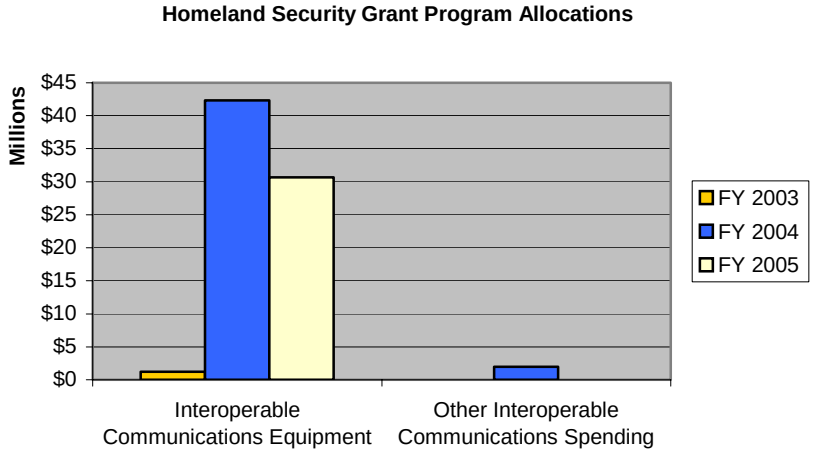
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
North Carolina Information

Interoperable Communications: DHS Funded Activities – North Carolina

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$1,201,112.16		**$1,201,112.16**
FY 2004	$42,336,046.08	$1,973,133.00	**$44,309,179.08**
FY 2005	$30,649,574.85		**$30,649,574.85**
Total	**$74,186,733.09**	**$1,973,133.00**	**$76,159,866.09**

Current Interoperable Communications Initiatives

The Voice Interoperability Plan for Emergency Responders (VIPER) system will be fully operational Statewide by FY 2009. The ambitious project will integrate communications with state and local entities and is being managed by the North Carolina State Patrol. This will be very helpful in response efforts and providing assistance across jurisdictional boundaries.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
North Dakota Information

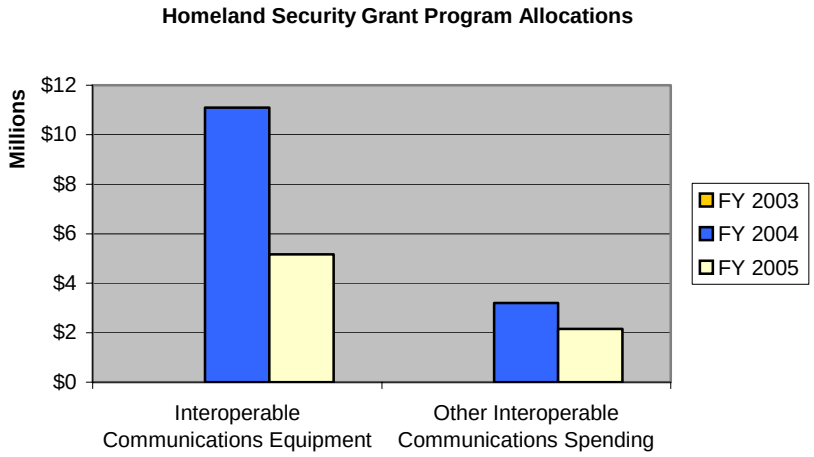
Interoperable Communications: DHS Funded Activities – North Dakota

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$11,091,610.61	$3,202,690.19	**$14,294,300.80**
FY 2005	$5,171,583.72	$2,163,431.59	**$7,335,015.31**
Total	**$16,263,194.33**	**$5,366,121.78**	**$21,629,316.11**

Current Interoperable Communications Initiatives

North Dakota is working to ensure that they have interoperable communications throughout the state by updating their equipment and placing towers/repeaters. Their major concern is that with rural nature of their state. As a result, they have been creative is setting up their systems.

North Dakota continues to improve their communications to ensure that they can communicate within the counties as well as throughout the state.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Northern Mariana Islands Information

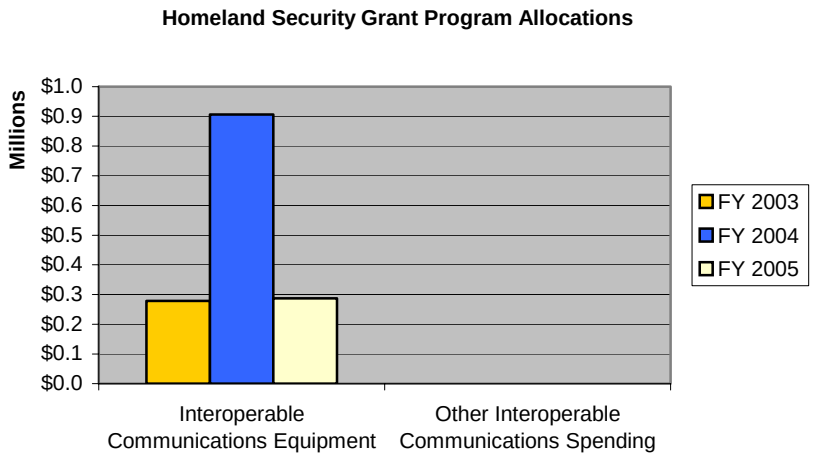
Interoperable Communications: DHS Funded Activities– Northern Mariana Islands

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$278,350.00		**$278,350.00**
FY 2004	$906,000.00		**$906,000.00**
FY 2005	$287,500.00		**$287,500.00**
Total	**$1,471,850.00**	**$0.00**	**$1,471,850.00**

Current Interoperable Communications Initiatives

- Acquisition of basic/vital communications sytems. (base units, towers, mobiles, portables)

- CNMI has completed a vast upgrade to mobile and portable radios for multiple responder agencies, improving their communication capacities. They continue their project through installation of necessary radio towers and repeaters to ensure seamless communication processes.



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Homeland Security

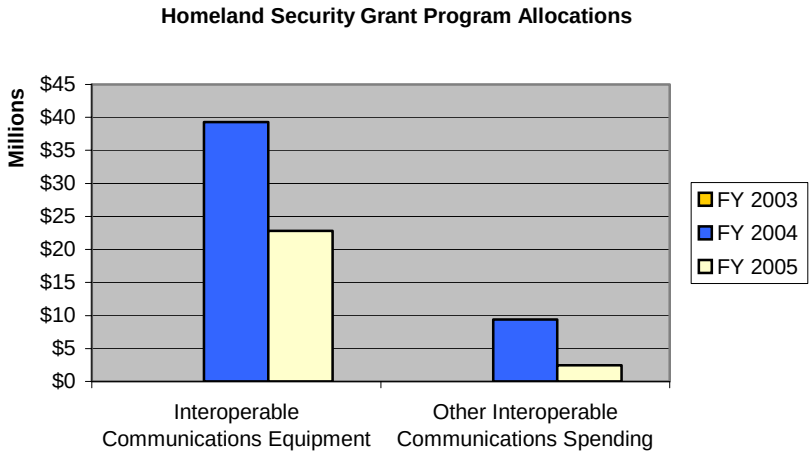
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Ohio Information

Interoperable Communications: DHS Funded Activities – Ohio

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$39,291,724.81	$9,406,615.00	**$48,698,339.81**
FY 2005	$22,836,175.95	$2,470,300.11	**$25,306,476.06**
Total	**$62,127,900.76**	**$11,876,915.11**	**$74,004,815.87**

Current Interoperable Communications Initiatives

- Ohio has implemented the Multi-Agency Radio Communication System (MARCS) within the state. It currently provides 800 MHZ voice and data communications to first responders and public safety personnel within 14 state agencies. Also, interfaced into the system are all Ohio County Sheriffs, emergency management agencies/Emergency Operations Centers (EOC) and hospitals and health departments. The MARCS is open to all who are interested with over 600 local government agencies currently interfaced into the system. To date, they have accomplished 97.5% mobile voice and data coverage per county. A pilot project was implemented in Union County, Ohio, placing all first responders on the MARCS as their primary radio system. The pilot was highly successful providing all county users with greater coverage, clarity, system capacity and full interoperability.
- Ohio has purchased 11 mobile communications vehicles equipped with all radio frequencies, cellular and landline phones, weather monitoring equipment, internet access and gateway patching devices. These vehicles also include surveillance capabilities through regular and infrared cameras. The vehicles have already demonstrated their benefit during special events, exercises and actual incidents by improving the communications capabilities of the responders.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Oklahoma Information

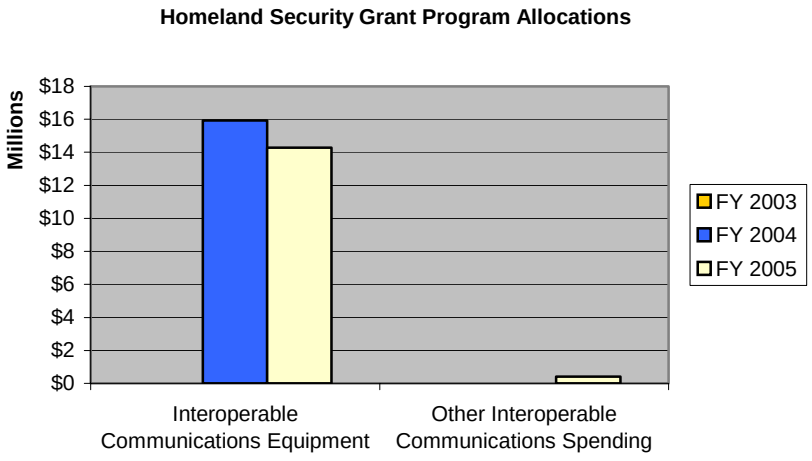
Interoperable Communications: DHS Funded Activities – Oklahoma

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$15,929,310.00		**$15,929,310.00**
FY 2005	$14,271,683.40	$400,000.00	**$14,671,683.40**
Total	**$30,200,993.40**	**$400,000.00**	**$30,600,993.40**

Current Interoperable Communications Initiatives

Oklahoma has dedicated over $28 million in grant funds towards interoperable communication projects. The major initiative is a multi-phased 800 MHz project to increase interoperability along the Interstate 44 corridor where the majority of the State's population is located. Phase I should be complete by November 2006. Phase II will complete the I-44 corridor and is expected to be completed by Spring of 2007. To ensure interoperability, all 800 MHZ equipment including repeaters, dispatch base consoles, control stations, antennas, mobile units and handheld units are capable of APCO Project 25 Phase One standards.

The Oklahoma Office of Homeland Security (OKOHS) has also focused interoperable communication funds on achieving tactical interoperable communications for the response units in each of the 8 regions. All of the 20 intermediate response units - both WMD response and Technical Rescue response - and the 5 large WMD response units - are being equipped with Tactical Interoperable Communications bridging technology. Future phases of the Interoperable Communications project will focus on continuing to expand the 800 MHZ system and achieving Tactical Interoperable Communications, to include rural communities, using solutions such as quick response mobile communications units and other cost effective means.



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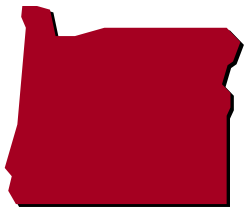
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Oregon Information

Interoperable Communications: DHS Funded Activities – Oregon

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$8,129,116.10		**$8,129,116.10**
FY 2004	$22,670,727.00	$671,207.00	**$23,341,934.00**
FY 2005	$16,358,663.00	$5,584,209.00	**$21,942,872.00**
Total	**$47,158,506.10**	**$6,255,416.00**	**$53,413,922.10**

Current Interoperable Communications Initiatives

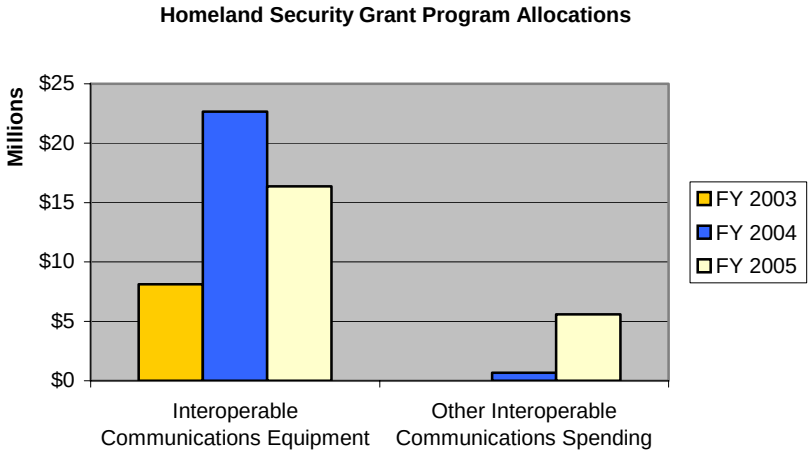


- **Clackamas County:** Clackamas County is currently working on an 800 MHZ radio system. The system will provide coverage for highly populated areas such as Sandy and Estacada as well as large portions of HWY 26, Mount Hood recreational areas and Damacus, and the newly designated urban growth area. FY2004 funded the four-site phase II of this project.

- **Polk County:** Polk County has been working in conjunction with Yamhill county on a microwave project that will link Polk, Marion, and Yamill counties. The microwave radio equipment supports technologies that will be used in partnership with neighboring jurisdictions to enhance all entities voice radio coverage and to provide for new interoperability opportunities for everyone who is sharing this equipment and sites.

- **State Police:** Oregon State Police implemented an Interstate Hwy 5 Interoperable communications project. The completed project will provide communications connectivity up and down the I-5 corridor (the main and most traveled route through Oregon).

- **UASI (Portland):** The 5-county Portland UASI group is developing a 150MHz/450MHz/800MHz Radio Interconnect system and a CAD to CAD operating system that will interlink 911 centers and databases to enhance interoperability.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Pennsylvania Information

Interoperable Communications: DHS Funded Activities – Pennsylvania

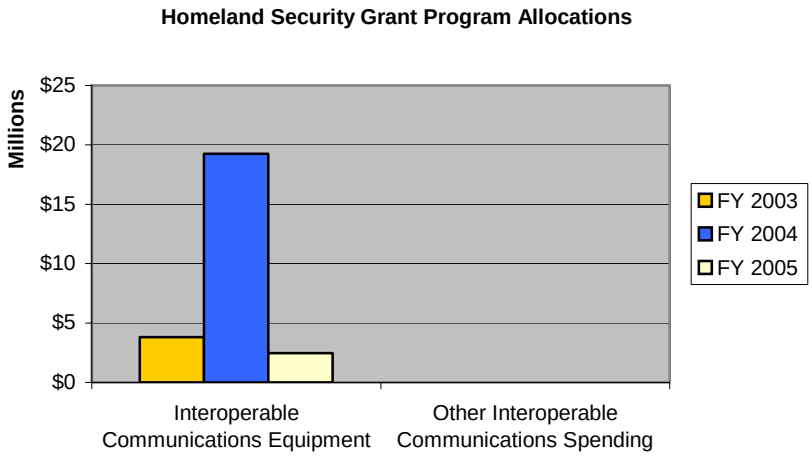
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,816,568.39		**$3,816,568.39**
FY 2004	$19,230,105.00		**$19,230,105.00**
FY 2005	$2,465,000.00		**$2,465,000.00**
Total	**$25,511,673.39**	**$0.00**	**$25,511,673.39**

Current Interoperable Communications Initiatives

RapidCom Participant

- **Philadelphia**

- Beginning in 2005, Pennsylvania, through the Philadelphia UASI, was the lead state coordinating the development of a new tri-state interoperable communications system impacting the states of Delaware, New Jersey, and Pennsylvania, approximately a dozen county governments and the federal government. This state-of-the art system will provide voice and data interoperability to identify and manage incident responses that cross state and municipal boundaries.
- Pennsylvania is completing the roll out of statewide voice and data interoperability across the state's 800 MHz Public Safety Radio Network. This network connects key state agency headquarters and field operations, the 67 county emergency managers and 9-1-1 centers. It also includes digital voice units at the county 9-1-1 centers to allow legacy first responder radio systems to communicate with state agencies and neighboring county emergency operations centers.
- Pennsylvania is upgrading a satellite-based interoperable voice and data network connecting the Pennsylvania Emergency Management Agency, the 67 county emergency management agencies and 9-1-1 centers to include; state health department locations, and Pennsylvania State Police consolidated dispatch centers across the state.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Puerto Rico Information

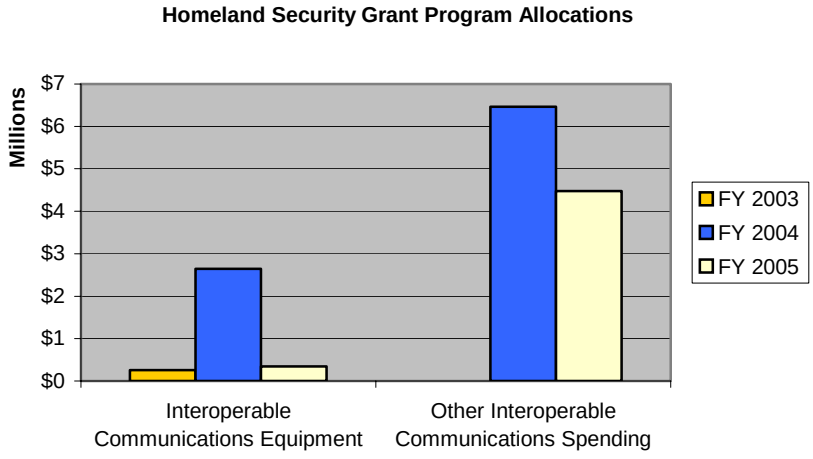
Interoperable Communications: DHS Funded Activities – Puerto Rico

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$254,590.00		**$254,590.00**
FY 2004	$2,643,393.00	$6,464,643.00	**$9,108,036.00**
FY 2005	$348,733.00	$4,473,360.00	**$4,822,093.00**
Total	**$3,246,716.00**	**$10,938,003.00**	**$14,184,719.00**

Current Interoperable Communications Initiatives

- Puerto Rico is in the process of establishing a command post radio interoperability system that will initially link twelve public safety agencies and will be further broadened to include additional sites.

- FY 2004: $4,000,000 to the Puerto Rico Power Authority to develop fiber optic links, install broadband communication equipment and intruder detection and access control systems as security for 84 power stations.



Source: 2004 and 2005 BSIR *(June 05)* Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

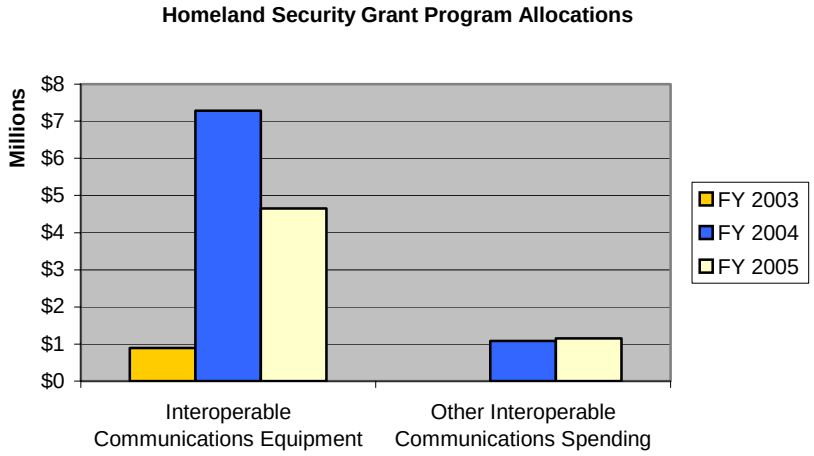
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Rhode Island Information

Interoperable Communications: DHS Funded Activities – Rhode Island

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$897,753.00		**$897,753.00**
FY 2004	$7,284,752.00	$1,084,418.00	**$8,369,170.00**
FY 2005	$4,653,276.00	$1,151,456.00	**$5,804,732.00**
Total	**$12,835,781.00**	**$2,235,874.00**	**$15,071,655.00**

Current Interoperable Communications Initiatives

- Enhance interoperable communications through the purchase of dispatch equipment, portable radios and repeater system. Total - $178,425.00
- Enhance Statewide interoperable communication capabilities through the purchase of equipment. Total - $2,503,500.00
- Enhance Public Works interoperable communications capabilities through the purchase of equipment. Total - $11,100.00



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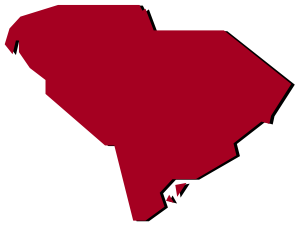
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
South Carolina Information

Interoperable Communications: DHS Funded Activities – South Carolina

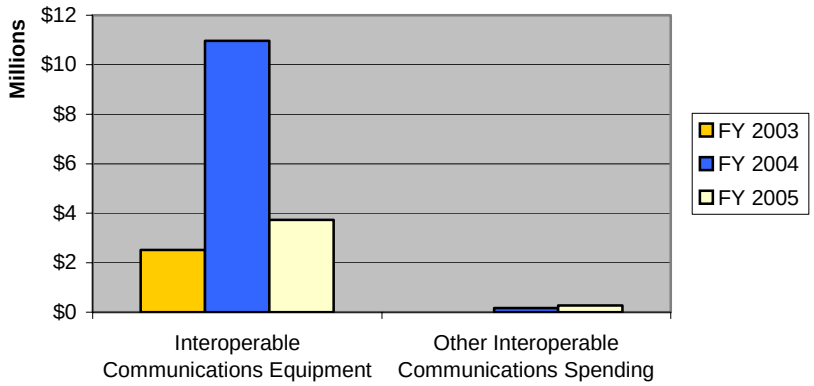
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,513,817.00		**$2,513,817.00**
FY 2004	$10,964,346.00	$163,000.00	**$11,127,346.00**
FY 2005	$3,738,360.00	$267,232.00	**$4,005,592.00**
Total	**$17,216,523.00**	**$430,232.00**	**$17,646,755.00**

Current Interoperable Communications Initiatives



- Expand the statewide 800 MHz systems to provide mobile data communications capability to all public safety agencies. Total - $203,935.00
- Improve the statewide 800 MHz systems coverage to ensure reliable communications for handheld radios throughout 95 percent of the State. Total - $5,950,608.00
- Improve communications interoperability, security and redundancy. Total - $260,515.00
- Provide alternative, redundant, secure data links for information sharing between county EOCs, mobile surveillance platforms, command and control vehicles, state dispatch centers, and the SEOC. Total - $2,044,958.00

Homeland Security Grant Program Allocations



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
South Dakota Information

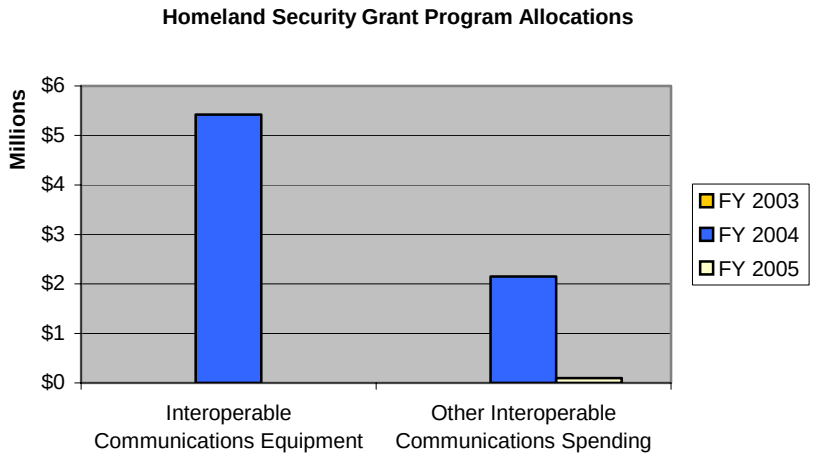
Interoperable Communications: DHS Funded Activities – South Dakota

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$5,416,489.00	$2,152,002.00	**$7,568,491.00**
FY 2005		$100,000.00	**$100,000.00**
Total	**$5,416,489.00**	**$2,252,002.00**	**$7,668,491.00**

Current Interoperable Communications Initiatives

South Dakota is working to ensure that they have interoperable communications throughout the state by updating their equipment and placing towers/repeaters. Their major concern is that with rural nature of their state. As a result, they have been creative is setting up their systems.

South Dakota continues to improve their communications to ensure that they can communicate within the counties as well as throughout the state.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

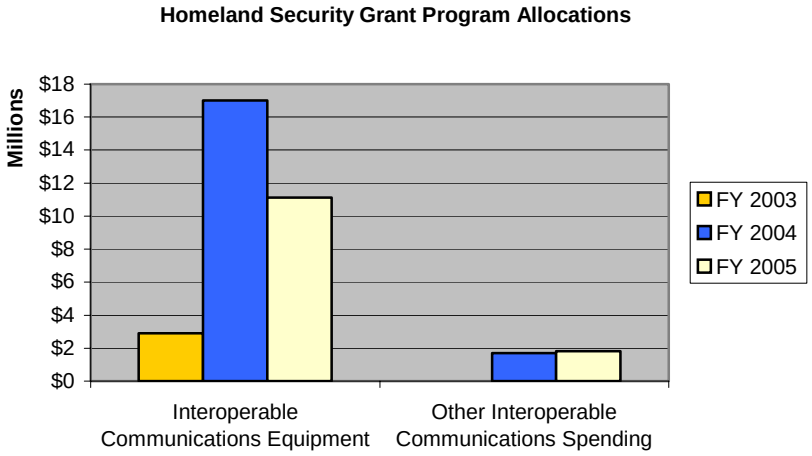
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Tennessee Information

Interoperable Communications: DHS Funded Activities – Tennessee

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,908,186.86		**$2,908,186.86**
FY 2004	$17,016,172.62	$1,702,928.00	**$18,719,100.62**
FY 2005	$11,120,086.13	$1,821,941.50	**$12,942,027.63**
Total	**$31,044,445.61**	**$3,524,869.50**	**$34,569,315.11**

Current Interoperable Communications Initiatives

- $1,701,567 in FY 2004 HSGP funds for conversion of State low band towers to 800 MHz in all counties.
- $1,189,228 in FY 2004 HSGP funds to purchase the necessary equipment for the backbone of a 450 MHz Trunking Communication System for all counties in TN Homeland Security District 7.
- $1,374,749 in FY 2005 HSGP funds to purchase equipment which will allow police, fire, EMA, utility, and health services to communicate with each other while responding to a CBRNE incident within Memphis and Shelby County.
- $480,000 in FY 2005 HSGP funds to complete communications infrastructure build-out in Sumner County and TN Homeland Security District 5 that includes four new 180 ft. communication towers.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Texas Information

Interoperable Communications: DHS Funded Activities – Texas

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$5,264,000.00		**$5,264,000.00**
FY 2004	$56,911,078.87	$6,476,206.74	**$63,387,285.61**
FY 2005	$61,040,455.00	$7,137,963.00	**$68,178,418.00**
Total	**$123,215,533.87**	**$13,614,169.74**	**$136,829,703.61**

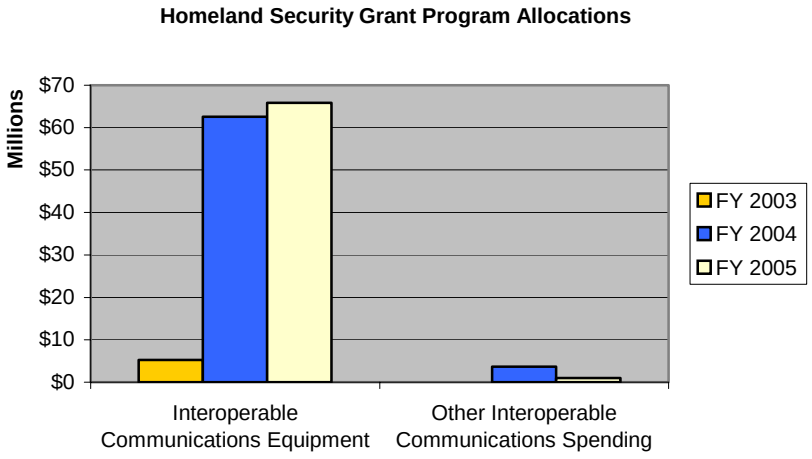
Current Interoperable Communications Initiatives

RapidCom Participant

- **Houston**

The biggest priority for Texas is to establish a statewide network of interoperable radio systems by January 2007. All jurisdictions/regions within the state must reach level-four interoperability by January 2007, and all future communications equipment must meet those standards as well. Level-four interoperability means that all disciplines can go anywhere in the state and have immediate radio communications with each other using their own equipment on established channels. The interoperability is being tested during the real-life wildfires currently taking place across the state, will also be tested during the statewide hurricane exercise scheduled in May, and will be incorporated into all future exercises conducted within the state.

Another interoperable communications project in the state is the purchase and use of the WebEOC system. While it is not mandatory, it is highly encouraged and is being utilized by many of the large cities throughout the state. The WebEOC system is server-based and allows electronic collaboration between the EOCs, including posting of emergency operations plans (EOPs) and sharing of situation reports (SITREPS). It allows users to see what other EOCs are doing, and the information is available much quicker using the system.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Utah Information

Interoperable Communications: DHS Funded Activities – Utah

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,622,372.00		**$3,622,372.00**
FY 2004	$10,233,825.81	$870,816.00	**$11,104,641.81**
FY 2005	$5,729,202.09	$1,070,180.00	**$6,799,382.09**
Total	**$19,585,399.90**	**$1,940,996.00**	**$21,526,395.90**

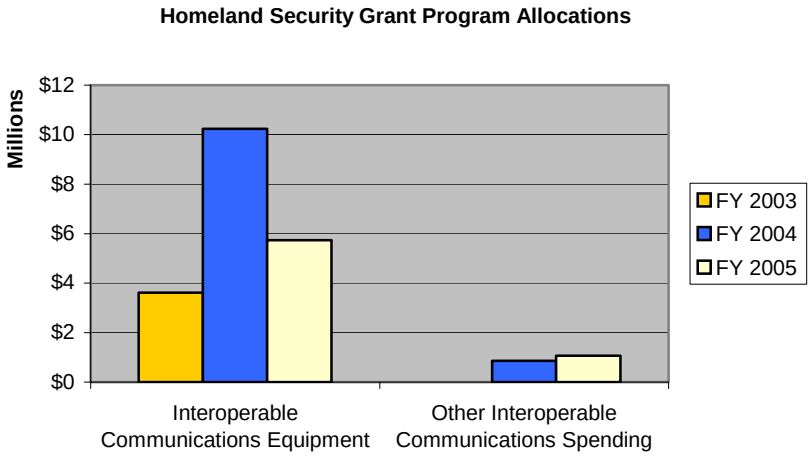
Current Interoperable Communications Initiatives

The State EOC is working on the capacity to receive streaming video and audio feeds from on scene units engaged in crisis response. This inexpensive use of current technology would provide State and Federal officials the ability to ensure seamless response and recovery efforts across multiple jurisdictions.

The system is fully scalable and can be up-linked to multiple state or federal command centers where communications bridges have been created. The State continues to focus energies on broadening this significant capability through multiple funding streams.

In order to create this level of interoperability, the Utah Department of Public Safety is focusing technology development resources on three major areas. The first area is the integration of voice communications between all agencies in the state. Network integration is the second area where development resources are being used. Data sharing between the different agencies in the state is the third area of focus.

The voice and network integration projects are the top priority of the state and consume the majority of the resources allocated to the state under department of homeland security grants. With current levels of funding, completion of the data-sharing project is at least two years away. If the proposed project is funded the whole system could serve as a model



for other states and the federal government seeking to implement similar capabilities.

Utah is the Interim Co-Chair of the Four Corners Homeland Security Coalition. The State Co-Chairs the Coalition of four states (Utah, Colorado, New Mexico, and Arizona), 15 Local Counties and ultimately 22 tribes within the Four Corners Region. The first priority of the Coalition is to expand interoperable communications to ensure full integration of all jurisdictions in this overlap area.

Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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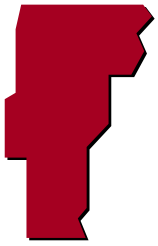
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Vermont Information

Interoperable Communications: DHS Funded Activities – Vermont

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$2,653,726.00		**$2,653,726.00**
FY 2004	$4,567,535.29	$1,220.00	**$4,568,755.29**
FY 2005	$2,605,035.23		**$2,605,035.23**
Total	**$9,826,296.52**	**$1,220.00**	**$9,827,516.52**

Current Interoperable Communications Initiatives

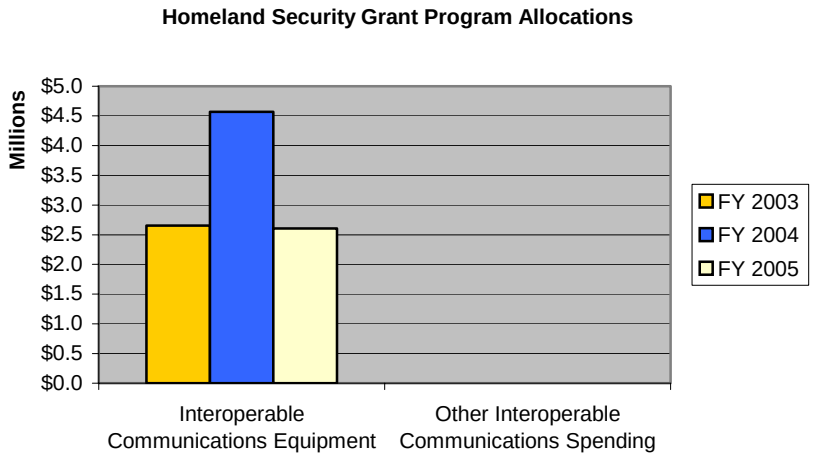


Vermont invested approximately $9m of State funds to bolster existing public safety radio communications by installing a new digital microwave network and upgraded the Vermont State Police (VSP) two-way radio system and mobile data network

Vermont has invested in a variety of solutions to support interoperability within the State which include the provision of command radios in Fire, EMS and Vermont State Police vehicles, as well as new towers, repeaters, and dispatch consoles.

Approximately 90% of all local and State law enforcement agencies in Vermont can communicate by "flipping" a switch on their mobile radios. Vermont State Police (VSP) has the ability to communicate with emergency medical and fire services from their cruisers and four dispatch centers. Over 50% of these first responders have the ability to communicate with the VSP dispatch centers.

In May 2006, Vermont will activate its Statewide web-enabled virtual Emergency Operation Center system. This interoperable communication system will allow the State to share data, gather instant situational awareness, tie into HSIN, and communicate with first responder agencies and state agencies during events.



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Homeland Security

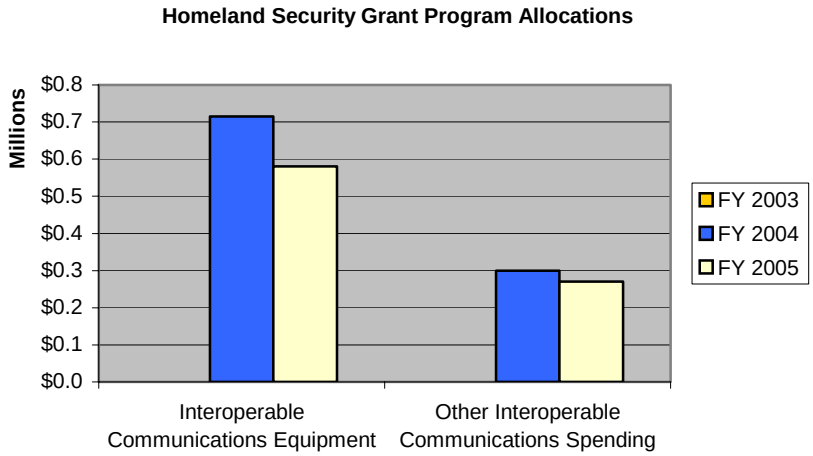
Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Virgin Islands Information

Interoperable Communications: DHS Funded Activities – Virgin Islands

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003			**$0.00**
FY 2004	$715,000.00	$300,000.00	**$1,015,000.00**
FY 2005	$580,000.00	$270,000.00	**$850,000.00**
Total	**$1,295,000.00**	**$570,000.00**	**$1,865,000.00**

Current Interoperable Communications Initiatives

The Territory of the US Virgin Islands continues to build out its interoperable communications infrastructure including Government Wide Area Network (GWAN) which will provide data connectivity and satellite based voice communications for first responder agencies. With the islands as much as 40 miles apart, completion of this system will ensure a secure communications capability for response activities. The Territory has already deployed several communications vehicles that can establish voice and data communications on each of the islands within one hour of an incident.



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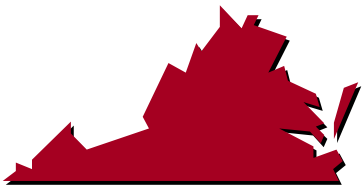
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Virginia Information

Interoperable Communications: DHS Funded Activities – Virginia

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$7,509,112.17		**$7,509,112.17**
FY 2004	$15,458,059.04	$2,243,469.10	**$17,701,528.14**
FY 2005	$7,363,528.01	$881,692.02	**$8,245,220.03**
Total	**$30,330,699.22**	**$3,125,161.12**	**$33,455,860.34**

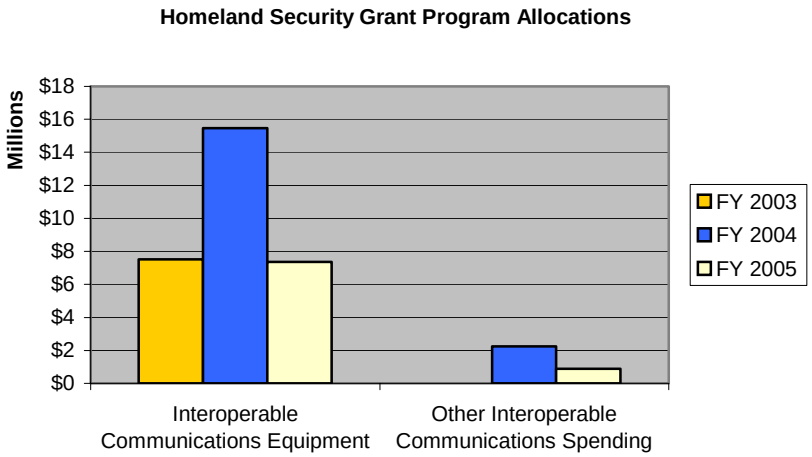
Current Interoperable Communications Initiatives



- FY 2004: $989,000 by the Virginia State Police for the STARS project (Statewide Agency Radio System) and in conjunction with this VDOT spent $79,000 for the same project . This will allow all state agencies to communicate with each other in times of disasters and it has been expanded to local governments at this time.

- $3,313,000 in the greater Richmond area to purchase a vehicle repeater system, upgrade dispatch consoles, and procure other essential communications equipment that will also the Capitol Police to communicate with neighboring Richmond jurisdictions.

- FY 2005: $7,363,000 to replace or enhance critical, basic interoperable communications equipment for local law enforcement, fire, and EMS throughout the counties of the state.



Source: 2004 and 2005 BSIR (December 05) Interoperable Communications Reports. Grant Programs Included in this report: Citizen Corps Program (CCP), Law Enforcement Terrorism Prevention Program (LETPP), State Homeland Security Program (SHSP), Urban Area Security Initiative (UASI), Transit Security Program (TSP), Emergency Management Performance Grant (EMPG), Metropolitan Medical Response System (MMRS), Buffer Zone Protection Program (BZPP), and Transit Security Grant Program (TSGP).

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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Washington Information

Interoperable Communications: DHS Funded Activities – Washington

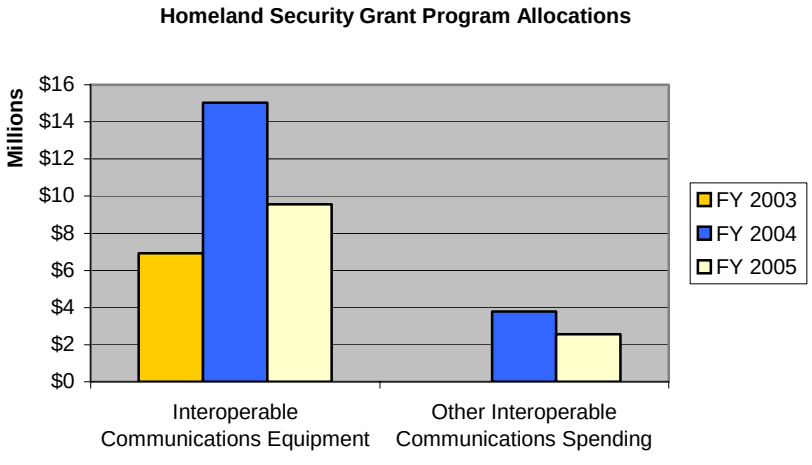
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$6,924,265.76		**$6,924,265.76**
FY 2004	$15,027,238.00	$3,789,554.00	**$18,816,792.00**
FY 2005	$9,558,695.00	$2,561,757.40	**$12,120,452.40**
Total	**$31,510,198.76**	**$6,351,311.40**	**$37,861,510.16**

Current Interoperable Communications Initiatives

Seattle UASI is working on several urban wide projects that span multiple grant years.

- **Fiber Optic project:** For UASI II and 04 UASI the state will be laying or tapping into existing fiber optic cable networks to provide communication infrastructure for the EOCs and seats of government of the Urban Area partners. The project is near completion and will allow connection from the Snohomish County EOC and County Executive's Office to the Governor's Office in Olympia. The project also includes the purchase of comparable satellite phones for each site

- **Helicopter Downlink project:** Out of 04 UASI funding the aviation assets and EOCs for each of the Urban Area partners is being fitted with video downlink capability. This will allow video images from helicopters in any of the jurisdictions to transmit images to any or all of the EOCs in the urban area.



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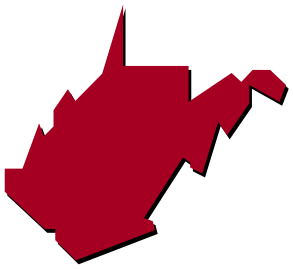
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
West Virginia Information

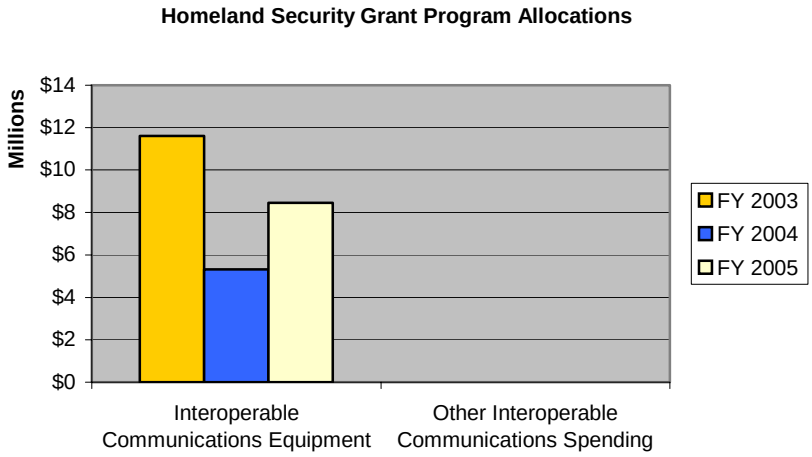
Interoperable Communications: DHS Funded Activities – West Virginia

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$11,603,377.00		**$11,603,377.00**
FY 2004	$5,314,839.20		**$5,314,839.20**
FY 2005	$8,455,278.00		**$8,455,278.00**
Total	**$25,373,494.20**	**$0.00**	**$25,373,494.20**

Current Interoperable Communications Initiatives



West Virginia has implemented a statewide interoperable communications project using a digital trunked radio system which utilizes a microwave communications backbone within the State. When completed, the communications system will enable first responders to maintain interoperable communications throughout WV. This system has been implemented at key locations statewide, and is fully functional in the areas where the backbone and trunked sites have been completed, to date. Also, WV is cooperatively working with the surrounding States to implement interoperable communications capability.



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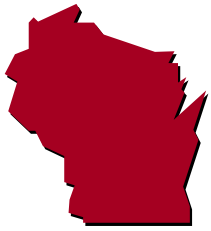
Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Wisconsin Information

Interoperable Communications: DHS Funded Activities – Wisconsin

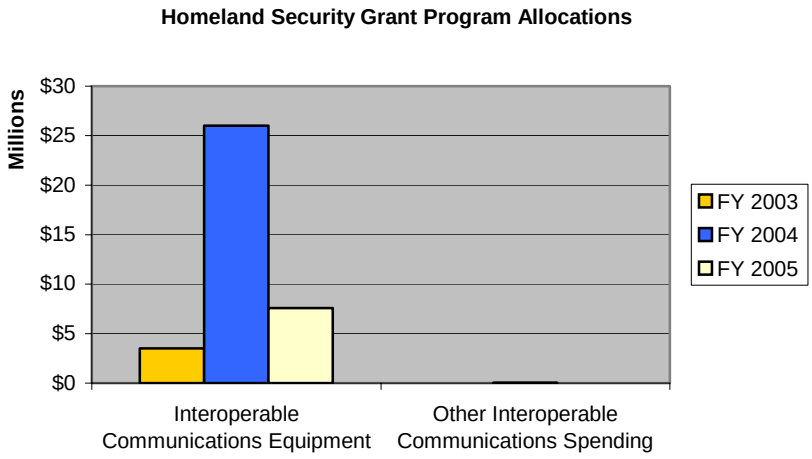
Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$3,532,168.70		**$3,532,168.70**
FY 2004	$25,995,264.83	$38,195.00	**$26,033,459.83**
FY 2005	$7,601,120.45	$11,850.01	**$7,612,970.46**
Total	**$37,128,553.98**	**$50,045.01**	**$37,178,598.99**

Current Interoperable Communications Initiatives



- Wisconsin has taken a regional approach with regard to communications interoperability. Wisconsin's approach acknowledges that any statewide interoperable system must build on existing local systems, and these local systems vary according to the needs of different regions of the state. Consequently, the state has encouraged the development of regional interoperability groups that will link at key exchange points. Several regional groups have already formed, including the Northeast Wisconsin Communications (NEWCOM) group, the West Central Interoperability Alliance (WCIA), the Northwest Radio Users (NWIOU), the Fox Valley Communications (FOXCOM) group, a central three-county effort, and a southeast Wisconsin regional group. Together these regional efforts account for 58 of Wisconsin's 72 counties, and region-based funding initiatives are encouraging the regionalization of the remainder of the counties.

- Wisconsin is in the process of completing a statewide interoperability strategic plan. This plan will help define operational and technical specifications to ensure performance standards are met, and establishing networking standards by December 2006. In 2004, the Wisconsin Office of Justice Assistance (OJA) contracted with Federal Engineering, Inc. to conduct a statewide study of interoperable radio communication capabilities in Wisconsin and provide recommendations to guide development of a statewide interoperability strategy. Report recommendations resulted in the award of grants totaling $1.8 million for region-specific engineering studies.



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Homeland Security

Office of Grants and Training
Preparedness Directorate
U.S. Department of Homeland Security
Wyoming Information

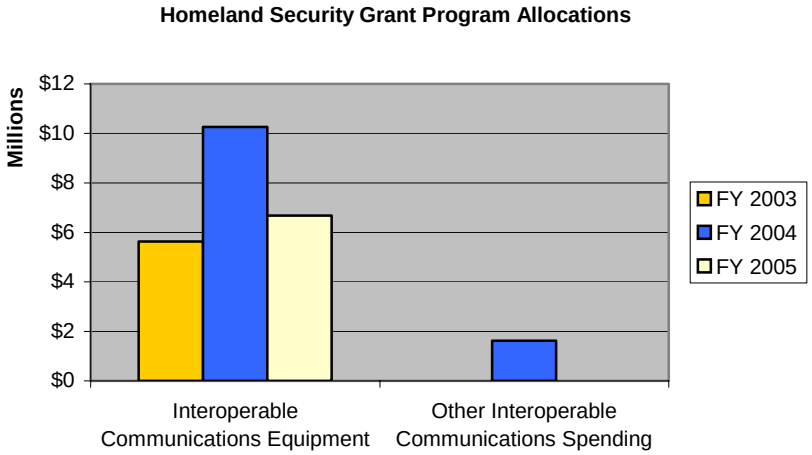
Interoperable Communications: DHS Funded Activities – Wyoming

Homeland Security Grant Program and UASI Allocations			
	Interoperable Communications Equipment	Other Interoperable Communications Funded Activities	Total
FY 2003	$5,626,630.41		**$5,626,630.41**
FY 2004	$10,254,498.00	$1,628,167.00	**$11,882,665.00**
FY 2005	$6,675,108.00		**$6,675,108.00**
Total	**$22,556,236.41**	**$1,628,167.00**	**$24,184,403.41**

Current Interoperable Communications Initiatives

Stopgap systems employed to provide on scene crisis communications: A number of subgrantees have expanded their Command and Control capacities through the purchase of mobile command posts and interoperable communications suites. The state has purchased 7 ACU 1000 Interconnect communications system which allows disparate communications systems to work seamlessly on crisis scenes and has allowed the state to achieve 100% interoperability during high threat or crisis events.

Long term strategy and investments into WYO-LINK to provide fully integrated IOC: The state has continued to expand the WYO-LINK Project, a unique initiative to ensure a comprehensive interoperable communications system throughout the State of Wyoming. The approach for this initiative included the creation of a specific steering committee dedicated to the administration of this project. WYO-LINK will connect all radio frequencies in the state through 57 radio sites around Wyoming. All disciplines are included in the project which will include a high-band, digital radio network that will link current systems, old or new, but will not take away any current systems. Public safety agencies will move into the system at their own pace. This initiative will cost approximately $51 million dollars to complete and will be funded partially by G&T funds and partially by Wyoming State funds. FY05 G&T funds are almost exclusively dedicated to interoperable communications through this and other equipment initiatives.



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