

EMERGENCY COMMUNICATIONS

OPERATION AND MISSION

The Emergency Communications Center (ECC) is one of eight Public Safety Communications Centers (PSC) currently serving Johnson County. Seven of these centers answer initial 911 calls from the public. The Johnson County Government supports two PSCs- the Sheriff's Office, which dispatches law enforcement personnel, and the ECC, which provides fire and emergency medical communications for the entire County. The police departments of Shawnee, Prairie Village, Lenexa, Overland Park, Leawood, and Olathe operate the remaining six PSCs.

The ECC answers calls for fire (13 fire departments) and Emergency Medical Services (Med-Act) and dispatches responders. In addition, ECC personnel coordinate ambulance to hospital communications for all area users. Each of these uses makes it critical that the center remains in operation 24 hours a day with no interruptions in service.

The ECC provides public safety communications services to citizens and emergency responders in Johnson County. The Countywide Communications System provides a flexible and reliable voice and data communications infrastructure to over 40 County and city public safety and governmental agencies in Johnson County. Countywide Communications will provide support and maintain the existing radio systems in proper operating condition as well as the 700 MHz system once it becomes operational.

INTERACTION AND ADJACENCIES

- County Manager
- County Wide Communications Unit
- Emergency Management
- Emergency Medical Services (Med-Act)
- Facilities Management
- Information Technologies Services
- Sheriff's Department

FACTORS INFLUENCING CHANGE

- The ECC has experienced growth in calls for service at a rate, which substantially exceeds the rates of growth in population (more than 44 percent since 1994). This may be due, in part, to demographic profiles, which indicate an aging population as well as an increase in the proportion of the population in lower income groups.



- The County approved the establishment of a County Communications Center, creating (at a new site) a larger, more appropriate facility for this critical function. The new center will accommodate the co-location of the ECC, Sheriff's Dispatch along with two, yet to be determined, local PSCs.
- The County approved the establishment of a 700 MHz Project 25 standards-based 18 channel, 9 site trunked simulcast countywide radio system which will serve all County agencies with local and regional interoperable communications as well provide capacity for the public safety agencies in Shawnee, Prairie Village, Lenexa, Overland Park, Leawood and Olathe.

SPECIAL NEEDS

- Key electronics in CCC for radio and microwave systems.
- Redundant and specialized electrical and mechanical provisions consistent with a critical 24 hour, 7-day operation.
- "Storm Hardened" exterior closure and specialized security provisions to protect staff and equipment.
- Careful planning for growth without disruption of service.
- Low profile – emergency communications center locations should not be readily available. Such facilities should not be co-located with public facilities (such as Public Health, Motor Vehicle, and Mental Health).
- Sophisticated information technology systems essential for effective operations
- Secure enclosure for high technology vehicle
- Fifteen year capacity for all Countywide Radio users including Sheriff, Fire, EMS, Public Service agencies, Public Safety departments in the six cities, and local KHP and KDOT workforces.
- Capacity to accommodate Public Safety and Public Service users including back-up dispatch operations for Olathe, Lenexa, Shawnee, Leawood and Prairie Village.
- Nine tower sites arranged to provide redundant microwave and fiber connectivity to CCC.

CURRENT CONDITIONS

The ECC is currently housed at the Northeast Office Building, where conditions and available space are problematic and vulnerable relative to storms and security. Recurring incidents of lightning strikes, flooding, lack of adequate security provisions, inadequate HVAC system and shortages of space for this rapidly expanding function are an increasing cause for concern.



The Countywide Communications System is currently providing the voice and data communications needs of over 40 County and city public safety and governmental agencies in Johnson County using its VHF and 800 MHz radio systems. Need to provide Countywide Radio Manager and Technicians with workspace and storage for radio equipment.



JOHNSON COUNTY STRATEGIC FACILITIES MASTER PLAN

SPACE NEEDS ASSESSMENT: Emergency Communications

Current Space: Sq. Ft.

Spaces	Applied Design Standard		Net Unit Sq.Ft.	Gross Factor	2008 Needs			2013 Needs			2018 Needs			2023 Needs		
	Room Std.	Description			No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.	No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.	No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.	No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.
Proposed Co Comm Ctr																
SPT SPACE - Admin.																
Lobby/ Reception - 1 @ 300	REC-0010	Reception Area 300 SF	300	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Multipurpose Room - 1 @ 100	CNF-004	4 Pers Conf Room 100 SF	100	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Public RestRoom (Lobby) - 2 @ 60	RSTRM0060	Restroom 60 SF	60	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Conference Room (Administration Area) - 1 @ 14	CNF-006	6 Pers Conf Room 150 SF	150	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Copy/Files/Training Supplies Room (Admin. Area)	WKCP00200	Work/Copy/Eq Area 200 SF	200	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Kitchenette (Administration Area) - 1 @ 5	BRK-001	Break -Coffee Bar 48 SF	48	1.35	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL:			0	0	0	0	0	0	0	0	0	0	0	0
SPT SPACE - CCC Personnel																
Commons Area / Lockers - 154 @ 5	LCKR00750	Locker Room 750 SF	750	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Break Room- 1 @ 633	BRK-020	Break Area - 600 SF	600	1.20	0	0	0	0	0	0	0	0	0	0	0	0
Restrooms Employee (M, W) - 2 @ 196	RSTRM0180	Restroom 180 SF	180	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Showers / Restrooms (M, W) (Lower Level) - 2 @	RSTRM0240	Restroom 240 SF	240	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Exercise Room - 1 @ 400	EXERC0350	Exercise Room - 350 SF	350	1.20	0	0	0	0	0	0	0	0	0	0	0	0
Bunk / Quiet Rooms - 2 @ 100	BUNKROOM	Bunkroom-Quiet area	100	1.35	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL:			0	0	0	0	0	0	0	0	0	0	0	0
SPT SPACE - Cntywide Comm																
Radio Equipment Work Room and Storage 1000 S	SHOP01000	Shop Area 1000 SF	1000	1.20	0	0	0	0	0	0	0	0	0	0	0	0
Radio Storage Secured Room 300 SF	STOR00300	Storage Room 300 SF	300	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Mobile Command Unit Com1 40' long vehicle Ga	GARAGE1200	5 Bay Garage 1200 SF	1200	1.20	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL:			0	0	0	0	0	0	0	0	0	0	0	0
SPT SPACE - EOC/Training																
CCC Classroom / Backup EOC - 1 @ 1500	MP-075	Multi Purpose Rm 1500 SF	1500	1.10	0	0	0	0	0	0	0	0	0	0	0	0
CCC Conference Room / EOC Overwatch - 1 @ 4	CNF-020	20 Pers Conf Room 500 SF	500	1.35	0	0	0	0	0	0	0	0	0	0	0	0
CCC Copy Work Room (Lower Level) - 1 @ 120	WKCP00120	Work/Copy/Eq Area 120 SF	120	1.35	0	0	0	0	0	0	0	0	0	0	0	0
CCC General Storage (Lower Level) - 1 @ 50	STOR00050	Storage Room 50 SF	50	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Kitchenette (Lower Level) - 1 @ 5	BRK-001	Break -Coffee Bar 48 SF	48	1.35	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL:			0	0	0	0	0	0	0	0	0	0	0	0
SPT SPACE - Operations																
ECC Dispatch Consoles - 8 @ 80	DSPCONSOL	Dispatch Console 80 SF	80	1.35	8	640	864	8	640	864	8	640	864	8	640	864
ECC Supervisor Console - 1 @ 100	DSPSUPCON	Dspch Sprvsr Cnsl 100 SF	100	1.35	1	100	135	1	100	135	1	100	135	1	100	135
Laser Printer/Fax - 4 @ 5 (one for each of 4 agenci	WKCP00020	Work/Copy/Eq Area 20 SF	20	1.35	4	80	108	4	80	108	4	80	108	4	80	108
Map Racks - 4 @ 15 (one for each of 4 agencies)	WKCP00080	Work/Copy/Eq Area 80 SF	80	1.35	4	320	432	4	320	432	4	320	432	4	320	432
Copy Room - 1 @ 100 (Heavy Duty Copier/Office	WKCP00120	Work/Copy/Eq Area 120 SF	120	1.35	1	120	162	1	120	162	1	120	162	1	120	162
ECC Operations (Shift) Supervisors Office - 1 @ 3	WS03	WS Typ. 03 90 SF	90	1.40	3	270	378	3	270	378	3	270	378	3	270	378
Conference Room (ECC / Sheriff Conference Rm -	CNF-008	8 Pers Conf Room 225 SF	225	1.35	1	225	304	1	225	304	1	225	304	1	225	304
ECC Live Training Room - 1 @ 864	CLSRM-020	20 Pers Classroom 750 SF	750	1.35	1	750	1,013	1	750	1,013	1	750	1,013	1	750	1,013

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	Room Std.	Description			No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.	No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.	No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.	No.	Total Net Sq.Ft.	Total Dept. Gross Sq.Ft.
		TOTAL:			23	2,505	3,395	23	2,505	3,395	23	2,505	3,395	23	2,505	3,395
SPT SPACE - Technical																
CCC Equipment Room - 1 @ 2013	ELEQ02100	Tech Equip Room 2100 SF	2100	1.35	1	2,100	2,835	1	2,100	2,835	1	2,100	2,835	1	2,100	2,835
CCC Technician's Open Office (ECC/Sheriff/JIMS)	VIRTSPACE	No Square Foot Value	0	1.00	0	0	0	0	0	0	0	0	0	0	0	0
ECC Technical Storage Room - 1 @ 200	STOR00200	Storage Room 200 SF	200	1.35	1	200	270	1	200	270	1	200	270	1	200	270
		TOTAL:			2	2,300	3,105	2	2,300	3,105	2	2,300	3,105	2	2,300	3,105
SPT SPACE -Co-located Dispatch																
Olathe Police Dispatch Consoles	DSPCONSOL	Dispatch Console 80 SF	80	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Future Police Dispatch Consoles	DSPCONSOL	Dispatch Console 80 SF	80	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Future Police Supervisor Dispatch Console	DSPSUPCON	Dspch Sprvsr Cnsl 100 SF	100	1.35	0	0	0	0	0	0	0	0	0	0	0	0
Projected Police Dispatch Consoles	DSPCONSOL	Dispatch Console 80 SF	80	1.35	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL:			0	0	0	0	0	0	0	0	0	0	0	0
STAFF - Administration																
2111. County Communications Center Director. Gr	POFC0180	Private Office 180 SF	180	1.35	1	180	243	1	180	243	1	180	243	1	180	243
County Communications Center Deputy Director -	POFC0120	Private Office 120 SF	120	1.35	1	120	162	2	240	324	2	240	324	2	240	324
ECC Communications Systems Manager - Grade 1	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	1	90	126	1	90	126	1	90	126
ECC Projects Manager - Grade 18	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	1	90	126	1	90	126	1	90	126
ECC Medical Director - 1 @ 64	WS02	WS Typ. 02 64 SF	64	1.40	1	64	89	1	64	89	1	64	89	1	64	89
6230. ECC Administrative Assistant. Grade 15	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	1	90	126	1	90	126	1	90	126
ECC Admin (Administrative Support) Grade 14	WS02	WS Typ. 02 64 SF	64	1.40	1	64	89	2	128	179	3	191	268	3	191	268
		TOTAL:			7	698	962	9	881	1,213	10	945	1,302	10	945	1,302
STAFF - Cntywide Comm																
3070. Communications Service Manager	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	1	90	126	1	90	126	1	90	126
5480. Communication Technician. Grade 15	WS03	WS Typ. 03 90 SF	90	1.40	3	270	378	4	360	504	5	450	630	6	540	756
		TOTAL:			4	360	504	5	450	630	6	540	756	7	630	882
STAFF - Operations																
2106. Operations Manager. Grade 18	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	2	180	252	2	180	252	2	180	252
2350. ECC Operations Supervisors. Grade 17	PEOPLEVIRT	Virtual People	0	1.00	4	0	0	5	0	0	6	0	0	6	0	0
6200. Emergency Communications Specialist I. Gra	PEOPLEVIRT	Virtual People	0	1.00	18	0	0	23	0	0	28	0	0	32	0	0
6201. Emergency Communications Specialist II. Gr	PEOPLEVIRT	Virtual People	0	1.00	4	0	0	5	0	0	6	0	0	6	0	0
Quality Assurance Coordinator Grade 17	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	1	90	126	1	90	126	1	90	126
		TOTAL:			28	180	252	36	270	378	43	270	378	47	270	378
STAFF - Technical Support																
5578. ECC Technical Systems Manager. Grade 18	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	1	90	126	1	90	126	1	90	126
6201. Emergency Communications Specialist II. Gr	WS03	WS Typ. 03 90 SF	90	1.40	3	270	378	5	450	630	6	540	756	6	540	756
ECC Computer Systems Manager	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	2	180	252	2	180	252	2	180	252
		TOTAL:			5	450	630	8	720	1,008	9	810	1,134	9	810	1,134
STAFF - Training																

SPACE NEEDS ASSESSMENT: **Emergency Communications**

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6201. Emergency Communications Specialist II. G	WS03	WS Typ. 03 90 SF	90	1.40	1	90	126	2	180	252	2	180	252	2	180	252
		<i>TOTAL:</i>			1	90	126	2	180	252	2	180	252	2	180	252
		<i>BUILDING TOTALS:</i>				6,583	8,974		7,306	9,981		7,550	10,322		7,640	10,448
Contingency Space Allowance (1% per year)									499			1,032				1,567
TOTAL REQUIRED						6,583	8,974		7,306	10,480		7,550	11,354		7,640	12,015