

# NextGen RCS Contract Award

Costs, Financing, Project Timeline

Sue Willy, RCS Manager

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# Contract Overview

Awarded to Motorola Solutions, Inc. 6/30/16

- *\$70,065,207*
- ❖ Replacement of RCS at all existing sites
- ❖ P25 Phase 1 / Phase 2 dynamic operation
- ❖ Geographically redundant P25 Cores and Simulcast Prime Sites
- ❖ Simulcast reconfiguration and enhancement
  - Adds fifth simulcast cell – West Central Simulcast
  - Moves four stand alone sites into simulcasts

# Contract Overview

- ❖ Replacement of infrastructure at Harmony Hill
  - Not large enough to support a simulcast site
- ❖ Six new sites *proposed* in San Diego County
  - Solana Beach Simulcast site
  - Southeast Jacumba area (“Desert Rose”)
  - Northeast Ramona (SD Country Estates area)
  - Pala area (northwest of casino)
  - Blossom Valley (Flynn Springs) area
  - Borrego Springs

# Contract Overview

- ❖ System Upgrade to latest version at Final System Acceptance
- ❖ Full Three Year Warranty
  - Begins at Final System Acceptance (est. 7/19)
  - Includes hardware, software, and infrastructure
- ❖ System Upgrade Assurance Plan (10 Years)
  - System Upgrade every two years: network software and hardware and up to 145 consoles
  - Security Update Service

# Contract Overview

## ❖ Subscriber Radio Discounts

- APX series radios 37.5% off list until 7/1/22
- Mixed mode operation provided at no cost until 12/31/18
- 25% off accessories
- 20% off flash-port upgrades (i.e., P25 flash)

## ❖ Console System Discounts

- 39% off list until 12/31/18

# Contract Overview

## Project Phases

### Phase 1: System Design

- Detailed Site Surveys
- Preliminary Design; Final Design

### Phase 2: Implementation at Existing RCS Sites

- Equipment Staging / Factory Testing
  - Installation of new equipment
  - System Testing and Optimization
  - Subscriber Migration
- 

# Contract Overview

## Project Phases

### Phase 3: Facility Upgrades & New Sites

- Contract Options for each site
  - CEQA Environmental Review and Finding Required
  - Board of Supervisors approval needed to exercise each Contract Option (7 sub-phases)
- 

# Contract Overview

## Cost Summary

Phases 1 & 2:	\$44,543,862
Post Warranty Services:	\$11,553,114
(System Upgrades/Security/Logger Support)	
Phase 3:	\$10,631,793
Total:	\$66,728,769
5% Contingency	\$3,336,438
<u>Contract Total:</u>	<b>\$70,065,207</b>

# Agency Costs & Financing

**Total Contract – \$70,065,20**

- ❖ San Diego County Parties – \$65,679,764
- ❖ IVECA\* – \$4,385,443
- ❖ 50 Parties to NextGen Agreement
  - Cash Payments estimated \$47M (31 agencies)
  - Financing for \$23M; 2.79% for 10 yrs (19 agencies)

\* Per NextGen Agreement Section 11.3, IVECA bears cost of IC infrastructure , % of 2 border sites, and proportional share of core.

# Agency Costs & Financing Amendment to NextGen Agreement

- ❖ NextGen Agreement (Section 14.3)
  - County is authorized to amend Exhibit C to reflect final costs (unilateral amendment)
  - Payment due within 60 days of issuing final Exhibit C
  - Financing mechanism will be made available for those Parties that chose not to pay in full
- ❖ First Amendment with Exhibit
  - Executed by County on 7/12/16
  - Sent to agencies on 7/20/16

# Exhibit C

## Exhibit C

### RCS NextGen System Cost

NextGen Shared Infrastructure Cost	
NextGen System Components - Shared Infrastructure	Cost
Total Shared Infrastructure Cost	\$ 70,065,207
Total IVECA Infrastructure Cost	\$ (4,385,443)
Remaining Shared Infrastructure Costs to be Apportioned among San Diego County NextGen RCS Parties	\$ 65,679,764

Total Subscriber Radio Count	
Total County of San Diego NextGen Parties Subscriber Radio Count	14,782

Agency's Cost Apportionment Contained in C-3.

Cost per radio for is \$4,443.23 for San Diego County Agencies.

# Exhibit C – 1 Shared Infrastructure Costs

San Diego County Party Name	Radio Count 9/1/13	Radio Count 7/1/2014	Average Radio Count	Cost for San Diego Shared Infrastructure
Alpine Fire Protection District	26	26	26.0	\$ 113,498.08
Bonita-Sunnyside Fire Protection District	16	16	16.0	\$ 69,844.97
Borrego Springs Fire Protection District	21	21	21.0	\$ 91,671.53
City of Carlsbad	436	440	438.0	\$ 1,912,006.09
City of Chula Vista	694	646	670.0	\$ 2,924,798.18
City of Coronado	182	180	181.0	\$ 790,121.24
City of Del Mar	97	99	98.0	\$ 427,800.45
City of El Cajon	460	442	451.0	\$ 1,968,755.13
City of Encinitas	246	247	246.5	\$ 1,076,049.09
City of Escondido	752	702	727.0	\$ 3,173,580.89
City of Imperial Beach	117	119	118.0	\$ 515,106.66
City of La Mesa	291	285	288.0	\$ 1,257,209.49
City of Lemon Grove	95	95	95.0	\$ 414,704.52
City of National City	284	288	286.0	\$ 1,248,478.87
City of Oceanside	744	740	742.0	\$ 3,239,060.55
City of Poway	296	303	299.5	\$ 1,307,410.56
City of San Marcos	419	421	420.0	\$ 1,833,430.50
City of Santee	176	178	177.0	\$ 772,660.00
City of Solana Beach	58	62	60.0	\$ 261,918.64
City of Vista	284	290	287.0	\$ 1,252,844.18
County of San Diego	5,933	6,162	6047.5	\$ 26,399,216.57
Deer Springs Fire Protection District	21	22	21.5	\$ 93,854.18
Heartland Communications Facility JPA	12	12	12.0	\$ 52,383.73
Julian-Cuyamaca Fire Protection District	29	28	28.5	\$ 124,411.36
Lakeside Fire Protection District	98	93	95.5	\$ 416,887.17
Mira Costa Community College District	20	22	21.0	\$ 91,671.53
North County Dispatch JPA	18	18	18.0	\$ 78,575.59
North County Fire Protection District	127	119	123.0	\$ 536,933.22
North County Transit District	33	33	33.0	\$ 144,055.25
Rancho Santa Fe Fire Protection District	114	121	117.5	\$ 512,924.01
San Diego Rural Fire Protection District <sup>1</sup>	-	-	0.0	\$ -
San Diego Unified Port District	299	297	298.0	\$ 1,300,862.59
San Miguel Consolidated Fire Protection District	135	116	125.5	\$ 547,846.50
State of CA Department of Transportation (Caltrans)	893	849	871.0	\$ 3,802,185.64
State of California, CA Highway Patrol/EI Cajon CHP	174	173	173.5	\$ 757,381.41
Valley Center Fire Protection District	25	18	21.5	\$ 93,854.18
Viejas Reservation Fire Department	33	33	33.0	\$ 144,055.25
<b>New Parties</b>				
California State University San Marcos (Police)	49	52	50.5	\$ 220,448.19
Olivenhain Municipal Water District	3	5	4.0	\$ 17,461.24
Palomar College	41	41	41.0	\$ 178,977.74
Poway Unified School District	240	243	241.5	\$ 1,054,222.54
Remons Water District Fire Department	21	21	21.0	\$ 91,671.53
Rancho Santa Fe Patrol	17	17	17.0	\$ 74,210.28
San Diego County Regional Airport Authority	164	181	172.5	\$ 753,016.10
San Diego Humane Society	34	34	34.0	\$ 148,420.56
San Diego State University (Police & Parking)	102	100	101.0	\$ 440,896.38
San Pasqual Band of Mission Indians***	32	33	32.5	\$ 141,872.60
Sycuan Band of the Kumeyayy Nation (Sycuan Fire/Police Department)	72	72	72.0	\$ 314,302.37
University of California San Diego (Police and Environment Health & Safety)	108	116	112.0	\$ 488,914.80
Vista Unified High School District	188	204	196.0	\$ 855,600.90
<b>TOTAL</b>	<b>14,729</b>	<b>14,835</b>	<b>14,782.0</b>	<b>\$ 64,528,023.05</b>

<sup>1</sup> The San Diego Rural Fire Protection District was dissolved on 7/1/16. All radios have been moved to the County of San Diego radio count.

# Exhibit C-2 - Core Costs

San Diego County Parties & IVECA	Radio Count 9/1/13	Radio Count 7/1/2014	Average Radio Count	Cost for RCS NextGen Core \$1,254,277
Alpine Fire Protection District	26	26	26.0	\$ 2,025.79
Bonita-Sunnyside Fire Protection District	16	16	16.0	\$ 1,246.64
Borrego Springs Fire Protection District	21	21	21.0	\$ 1,636.22
City of Carlsbad	436	440	438.0	\$ 34,126.81
City of Chula Vista	694	646	670.0	\$ 52,203.11
City of Coronado	182	180	181.0	\$ 14,102.63
City of Del Mar	97	99	98.0	\$ 7,635.68
City of El Cajon	460	442	451.0	\$ 35,139.70
City of Encinitas	246	247	246.5	\$ 19,206.07
City of Escondido	752	702	727.0	\$ 56,644.27
City of Imperial Beach	117	119	118.0	\$ 9,193.98
City of La Mesa	291	285	288.0	\$ 22,439.54
City of Lemon Grove	95	95	95.0	\$ 7,401.93
City of National City	284	288	286.0	\$ 22,283.71
City of Oceanside	744	740	742.0	\$ 57,812.99
City of Poway	296	303	299.5	\$ 23,335.57
City of San Marcos	419	421	420.0	\$ 32,724.34
City of Santee	176	178	177.0	\$ 13,790.97
City of Solana Beach	58	62	60.0	\$ 4,674.91
City of Vista	284	290	287.0	\$ 22,361.63
County of San Diego	5,933	6,162	6047.5	\$ 471,191.47
Deer Springs Fire Protection District	21	22	21.5	\$ 1,675.17
Heartland Communications Facility JPA	12	12	12.0	\$ 934.98
Julian-Cuyamaca Fire Protection District	29	28	28.5	\$ 2,220.58
Lakeside Fire Protection District	98	93	95.5	\$ 7,440.89
Mira Costa Community College District	20	22	21.0	\$ 1,636.22
North County Dispatch, JPA	18	18	18.0	\$ 1,402.47
North County Fire Protection District	127	119	123.0	\$ 9,583.56
North County Transit District	33	33	33.0	\$ 2,571.20
Rancho Santa Fe Fire Protection District	114	121	117.5	\$ 9,155.02
San Diego Rural Fire Protection District <sup>2</sup>	-	-	0.0	\$ -
San Diego Unified Port District	299	297	298.0	\$ 23,218.69
San Miguel Consolidated Fire Protection District	135	116	125.5	\$ 9,778.34
State of CA Department of Transportation (Caltrans)	893	849	871.0	\$ 67,864.04
State of California, CA Highway Patrol/El Cajon CHP	174	173	173.5	\$ 13,518.27
Valley Center Fire Protection District	25	18	21.5	\$ 1,675.17
Viejas Reservation Fire Department	33	33	33.0	\$ 2,571.20
IVECA*	1,302	1,330	1316.0	\$ 102,536.25
California State University San Marcos (Police)	49	52	50.5	\$ 3,934.71
Olivenhain Municipal Water District	3	5	4.0	\$ 311.66
Palomar College	41	41	41.0	\$ 3,194.52
Poway Unified School District	240	243	241.5	\$ 18,816.49
Ramona Water District Fire Department	21	21	21.0	\$ 1,636.22
Rancho Santa Fe Patrol	17	17	17.0	\$ 1,324.56
San Diego County Regional Airport Authority	164	181	172.5	\$ 13,440.35
San Diego Humane Society	34	34	34.0	\$ 2,649.11
San Diego State University (Police & Parking)	102	100	101.0	\$ 7,869.42
San Pasqual Band of Mission Indians	32	33	32.5	\$ 2,532.24
Sycuan Band of the Kumeyaay Nation (Sycuan Fire/Police De	72	72	72.0	\$ 5,609.89
University of California San Diego (Police and Environment F	108	116	112.0	\$ 8,726.49
Vista Unified High School District	188	204	196.0	\$ 15,271.36
<b>TOTAL</b>	<b>16,031</b>	<b>16,165</b>	<b>16,098</b>	<b>\$ 1,254,277.02</b>

<sup>2</sup> The San Diego Rural Fire Protection District was dissolved on 7/1/16. All radios have been moved to the County of San Diego

# Exhibit C-3 – Total Costs

San Diego County Parties & IVECA	Exhibit C-1 Cost for San Diego Shared Infrastructure	+	Exhibit C-2 Cost for RCS NextGen Core	=	Combined Total Cost for San Diego Shared Infrastructure and NextGen RCS Core (C- 1 + C-2)
Alpine Fire Protection District	\$ 113,498.08		\$ 2,025.79		\$ 115,523.87
Bonita-Sunnyside Fire Protection District	\$ 69,844.97		\$ 1,246.64		\$ 71,091.61
Borrego Springs Fire Protection District	\$ 91,671.53		\$ 1,636.22		\$ 93,307.74
City of Carlsbad	\$ 1,912,006.09		\$ 34,126.81		\$ 1,946,132.90
City of Chula Vista	\$ 2,924,758.18		\$ 52,203.11		\$ 2,976,961.29
City of Coronado	\$ 790,121.24		\$ 14,102.63		\$ 804,223.87
City of Del Mar	\$ 427,800.45		\$ 7,635.68		\$ 435,436.13
City of El Cajon	\$ 1,968,755.13		\$ 35,139.70		\$ 2,003,894.84
City of Encinitas	\$ 1,076,049.09		\$ 19,206.07		\$ 1,095,255.16
City of Escondido	\$ 3,173,580.89		\$ 56,644.27		\$ 3,230,225.16
City of Imperial Beach	\$ 515,106.66		\$ 9,193.98		\$ 524,300.64
City of La Mesa	\$ 1,257,209.49		\$ 22,439.54		\$ 1,279,649.03
City of Lemon Grove	\$ 414,704.52		\$ 7,401.93		\$ 422,106.45
City of National City	\$ 1,248,478.87		\$ 22,283.71		\$ 1,270,762.58
City of Oceanside	\$ 3,239,060.55		\$ 57,812.99		\$ 3,296,873.55
City of Poway	\$ 1,307,410.56		\$ 23,335.57		\$ 1,330,746.13
City of San Marcos	\$ 1,833,430.50		\$ 32,724.34		\$ 1,866,154.84
City of Santee	\$ 772,660.00		\$ 13,790.97		\$ 786,450.97
City of Solana Beach	\$ 261,918.64		\$ 4,674.91		\$ 266,593.55
City of Vista	\$ 1,252,844.18		\$ 22,361.63		\$ 1,275,205.81
County of San Diego	\$ 26,399,216.57		\$ 471,191.47		\$ 26,870,408.04
Deer Springs Fire Protection District	\$ 93,854.18		\$ 1,675.17		\$ 95,529.35
Heartland Communications Facility JPA	\$ 52,383.73		\$ 934.98		\$ 53,318.71
Julian-Cuyamaca Fire Protection District	\$ 124,411.36		\$ 2,220.58		\$ 126,631.94
Lakeside Fire Protection District	\$ 416,887.17		\$ 7,440.89		\$ 424,328.06
Mira Costa Community College District	\$ 91,671.53		\$ 1,636.22		\$ 93,307.74
North County Dispatch, JPA	\$ 78,575.59		\$ 1,402.47		\$ 79,978.06
North County Fire Protection District	\$ 536,933.22		\$ 9,583.56		\$ 546,516.77
North County Transit District	\$ 144,055.25		\$ 2,571.20		\$ 146,626.45
Rancho Santa Fe Fire Protection District	\$ 512,924.01		\$ 9,155.02		\$ 522,079.03
San Diego Rural Fire Protection District <sup>1</sup>	\$ -		\$ -		\$ -
San Diego Unified Port District	\$ 1,300,862.59		\$ 23,218.69		\$ 1,324,081.29
San Miguel Consolidated Fire Protection District	\$ 547,846.50		\$ 9,778.34		\$ 557,624.84
State of CA Department of Transportation (Caltrans)	\$ 3,802,185.64		\$ 67,864.04		\$ 3,870,049.67
State of California, CA Highway Patrol/El Cajon CHP	\$ 757,381.41		\$ 13,518.27		\$ 770,899.68
Valley Center Fire Protection District	\$ 93,854.18		\$ 1,675.17		\$ 95,529.35
Viejas Reservation Fire Department	\$ 144,055.25		\$ 2,571.20		\$ 146,626.45
California State University San Marcos (Police)	\$ 220,448.19		\$ 3,934.71		\$ 224,382.90
Olivenhain Municipal Water District	\$ 17,461.24		\$ 311.66		\$ 17,772.90
Palomar College	\$ 178,977.74		\$ 3,194.52		\$ 182,172.26
Poway Unified School District	\$ 1,054,222.54		\$ 18,816.49		\$ 1,073,039.03
Ramona Water District Fire Department	\$ 91,671.53		\$ 1,636.22		\$ 93,307.74
Rancho Santa Fe Patrol	\$ 74,210.28		\$ 1,324.56		\$ 75,534.84
San Diego County Regional Airport Authority	\$ 753,016.10		\$ 13,440.35		\$ 766,456.45
San Diego Humane Society	\$ 148,420.56		\$ 2,649.11		\$ 151,069.68
San Diego State University (Police & Parking)	\$ 440,896.38		\$ 7,869.42		\$ 448,765.81
San Pasqual Band of Mission Indians	\$ 141,872.60		\$ 2,532.24		\$ 144,404.84
Sycuan Band of the Kumeyaay Nation (Sycuan Fire/Police Department)	\$ 314,302.37		\$ 5,609.89		\$ 319,912.26
University of California San Diego (Police and Environment Health & Safety)	\$ 488,914.80		\$ 8,726.49		\$ 497,641.29
Vista Unified High School District	\$ 855,600.90		\$ 15,271.36		\$ 870,872.26
<b>TOTALS</b>	<b>\$ 64,528,023.05</b>		<b>\$ 1,151,740.77</b>		<b>\$ 65,679,763.82</b>
<b>IVECA</b>	<b>\$ 4,282,907.04</b>		<b>\$ 102,536.25</b>		<b>\$ 4,385,443.29</b>
<b>TOTAL SYSTEM COST</b>					<b>\$ 70,065,207.11</b>

<sup>1</sup> The San Diego Rural Fire Protection District was dissolved on 7/1/16. All radios have been moved to the County of San Diego radio count.

# Agency Costs & Financing

❖ Total Contract	\$70,065,207
◦ Infrastructure	\$68,810,930
◦ Core Costs	\$1,254,277
❖ SD County Parties	\$65,679,764
◦ Infrastructure	\$64,528,023
◦ Core Costs	\$1,151,741
❖ IVECA	\$4,385,443
◦ Infrastructure	\$4,282,907
◦ Core Costs	\$102,536

# Agency Costs & Financing Payment Terms

- ❖ Updated information to NextGen RCS Parties
  - Copy of First Amendment with Final Exhibit C
  - Invoice
  - Payment Agreement (if needed)
  - Amortization Schedule (if needed)
- ❖ First Payment Due
  - Agencies that are paying cash – Sept. 30, 2016
  - Agencies that are financing – June 01, 2017
- ❖ Rural Fire Districts (if County paying their share)
  - Additional monthly fee beginning July 2017

# Next Generation RCS Project Milestones

JUN 2016	DEC 2016	JAN 2017	JUN 2017	DEC 2017	JAN 2018	JUN 2018	DEC 2018	JAN 2019	JUN 2019	DEC 2019				
	- Acceptance	Final Detail Design Package (12/16)*												
		- Completion/Acceptance of Factory Staging (8/17)*												
		- Completion of Infrastructure Install at all Sites (2/18)												
			- System Optimization Completion (5/18)											
				- Acceptance - Field Functional Acceptance Testing (1/19)*										
					- Completion of User Migration (6/19)									
						- Final System Acceptance (7/19)*								

NextGen

\*Payment Milestone