



# CITY of NOVI CITY COUNCIL

Agenda Item 5  
February 17, 2009

**SUBJECT:** Approval to enter into agreement with Oakland County and Advanced Wireless Telecom for the City's portion of the purchase/upgrade of Emergency-911 (E-911) system equipment through an Oakland County Cooperative Purchasing Agreement in the amount of \$140,044.68.

**SUBMITTING DEPARTMENT:** Police *Dem*

**CITY MANAGER APPROVAL:** *[Signature]*

EXPENDITURE REQUIRED	\$140,044.68
AMOUNT BUDGETED	\$141,308.00
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	101-301.00-980.000

## BACKGROUND INFORMATION:

As part of the FY 2008-09 budget process, general funds were allocated for the upgrade of the current Emergency-911 system. Our current Positron 911 equipment is eleven years of age and is no longer in production. As such, both AT&T and Oakland County have recommended the replacement of the current system to a Next Generation capable IP Based 911 System. Next Generation IP Based technology offers increased capabilities when receiving mobile and/or voice over internet protocol (VOIP) calls providing critical information that the current circuit based system cannot. It will also provide multimedia capabilities, i.e., a caller could send video and text messages directly to the dispatch from an emergency scene, or allow an emergency responder to send video instruction such as CPR to the emergency site. Officers will also be able to see "real-time" video from their computer workstation as they approach emergency scenes. As Next Generation 911 technology is deployed it will enhance 911 reliability, enable greater call center redundancy, and provide better scalability to meet future 911 technology demands.

In the past, with funding from the 911 surcharge, Oakland County would purchase and install 911 equipment throughout the county. For the past two years, Oakland County has actively been involved in bidding a replacement system. During that time, Oakland County successfully released a bid proposal with specifications for both a stand alone and a network based Next Generation IP Based 911 system. As a result of that bid process, Oakland County awarded the project to Advanced Wireless Telecom, Inc. (AWT). Both options are currently available on the Oakland County Cooperative purchasing contract.

In November 2008, Oakland County officials announced their decision not to proceed with a countywide 911 project. Their decision was based on the reduction of the 911 surcharge approved by the State Public Service Commission. The lost revenue caused by this reduction created serious doubt of the County's ability to support the infrastructure of a "networked" solution.

As a result of this decision, the Public Safety Answering Points (PSAP) were left with the decision to purchase either the stand-alone or the network solution on their own. After an evaluation of both approved options, Novi has elected to purchase the Plant CML – Vesta Palles. This is a stand alone solution. This is a complete, preconfigured IP based solution that is primarily designed for mid to small 911 call centers. All associated equipment would be installed in our building and under our control. Further, it is the 911 equipment of choice by the West Bloomfield Police Department who serves as Novi's backup 911 Center.

Recognizing that a critical need to replace the current 911 system exists, Oakland County announced its intent to release monies already received from the 911 surcharge. These funds would be paid directly to the vendor in an effort to offset any additional local costs that may occur as a result of their decision to withdraw from the county wide project. Funding will be based on the number of 911 calls each PSAP handled during 2007. At this time, Novi can expect to receive immediate support in the amount of \$79,218.88 from the County. This represents 75% of the total anticipated surcharge revenue of \$105,625.17.

To clarify, the surcharge amount is estimated revenue. The County will not know the exact total amount until March or April of 2009. At this point, the County is comfortable releasing 75% of the estimated amount directly to the approved vendor. Additionally, the County has indicated that Urban Area Security Initiative Funds (UASI) are being made available to support this project, but at this point are still subject to State approval. For budgetary purposes, PSAPs are being instructed to only rely on the 75% as a confirmed amount, with a probability that there will also be additional funds from the County in an amount to be determined.

**The total cost of the E-911 System is as follows:**

	<u>E911 System</u>
E-911 Vesta Pallas System	\$ 219,263.56
Oakland County - 75% of anticipated surcharge revenue	\$ 79,218.88
City's Share of E-911 System	<u>\$ 140,044.68</u>
Potential Additional Funding from the County	
25% remaining share of surcharge revenue	\$ 26,406.29
UASI Funds	<u>\$ 11,738.83</u>
Total Potential Additional Funding	\$ 38,145.12

**RECOMMENDED ACTION: Approval to enter into agreement with Oakland County and Advanced Wireless Telecom for the City's portion of the purchase/upgrade of E-911 system equipment through the Oakland County Cooperative Purchasing Agreement in the amount of \$140,044.68.**

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Burke				
Council Member Crawford				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

CPE Surcharge Funding Based on 2007 ALI Bids1 with UASI funds

PSAP	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Total ALI Bids			
NAME	2007 Total ALL (Including Wireless and VoIP)												Anticipated Surcharge Funds at \$4.31 per ALI bid	75% available upon initial order****	UASI Funds of \$250,000 at \$.0478999 per ALI bid****	
AUBURN HILLS POLICE	1,424	1,745	1,685	1,608	1,728	1,747	1,744	1,882	1,706	1,793	1,577	1,650	20,289	\$ 87,445.59	\$ 65,584.19	\$ 9,718.41
BERKLEY POLICE	542	398	449	437	527	478	510	571	457	515	467	523	5,874	\$ 25,316.94	\$ 18,987.71	\$ 2,813.64
BEVERLY HILLS POLICE	186	143	177	169	170	190	167	193	185	178	164	184	2,106	\$ 9,076.86	\$ 6,807.65	\$ 1,008.77
BIRMINGHAM POLICE	539	462	576	515	598	658	695	617	530	622	557	530	6,899	\$ 29,734.69	\$ 22,301.02	\$ 3,304.61
BLOOMFIELD HILLS POL	146	153	166	159	189	180	147	140	170	144	185	161	1,940	\$ 8,361.40	\$ 6,271.05	\$ 929.26
BLOOMFIELD TWP POLICE	1,041	899	970	1,012	1,119	1,082	1,052	1,103	1,042	1,136	1,057	1,053	12,566	\$ 54,159.46	\$ 40,619.60	\$ 6,019.10
FARMINGTON HILLS POL	2,802	2,303	2,478	2,568	2,691	2,867	2,656	2,831	2,386	2,648	2,443	2,785	31,458	\$ 135,583.98	\$ 101,687.99	\$ 15,068.35
FARMINGTON POLICE	241	237	217	241	288	282	258	290	272	278	278	277	3,131	\$ 13,494.61	\$ 10,120.96	\$ 1,499.75
FERNDAL POLICE	1,337	1,155	1,364	1,364	1,515	1,648	1,642	1,737	1,399	1,467	1,218	1,214	17,060	\$ 73,528.60	\$ 55,146.45	\$ 8,171.72
HAZEL PARK POLICE	254	241	258	236	304	300	294	287	259	267	186	240	3,126	\$ 13,473.06	\$ 10,104.80	\$ 1,497.35
HOLLY POLICE	97	73	88	97	103	88	106	108	121	101	73	83	1,138	\$ 4,904.78	\$ 3,678.59	\$ 545.10
LAKE ORION POLICE	275	297	267	295	340	304	372	336	320	315	331	266	3,718	\$ 16,024.58	\$ 12,018.44	\$ 1,780.92
MADISON HEIGHTS POL	1,116	1,195	1,327	1,279	1,352	1,382	1,364	1,437	1,231	1,290	1,155	1,439	15,567	\$ 67,093.77	\$ 50,320.33	\$ 7,456.58
MILFORD POLICE	256	215	237	253	281	345	343	306	299	256	254	285	3,330	\$ 14,352.30	\$ 10,764.23	\$ 1,595.07
NOVI POLICE	1,992	1,781	1,962	1,747	2,006	2,250	2,179	2,398	1,914	2,077	1,979	2,222	24,507	\$ 105,625.17	\$ 79,218.88	\$ 11,738.83
OAK PARK POLICE	1,745	1,724	1,980	1,717	2,123	2,385	2,133	1,964	1,946	1,846	1,826	1,840	23,229	\$ 100,116.99	\$ 75,087.74	\$ 11,126.67
OAKLAND CNTY SHERIFF	7,152	6,266	6,883	6,587	7,576	8,192	8,078	8,474	7,288	7,101	6,864	6,951	87,412	\$ 376,745.72	\$ 282,559.29	\$ 41,870.26
OXFORD POLICE	228	256	243	302	278	310	342	286	285	288	286	295	3,399	\$ 14,649.69	\$ 10,987.27	\$ 1,628.12
PONTIAC POLICE	5,199	4,672	5,522	5,828	6,124	6,614	5,897	6,439	5,824	5,295	4,494	4,672	66,580	\$ 286,959.80	\$ 215,219.85	\$ 31,891.75
ROCHESTER HILLS	557	533	528	540	553	663	611	597	546	558	464	549	6,699	\$ 28,872.69	\$ 21,654.52	\$ 3,208.81
ROCHESTER POLICE	194	158	180	174	209	270	243	279	266	202	219	239	2,633	\$ 11,348.23	\$ 8,511.17	\$ 1,261.20
ROYAL OAK POLICE	1,331	1,138	1,301	1,228	1,540	1,699	1,683	1,722	1,421	1,351	1,284	1,349	17,047	\$ 73,472.57	\$ 55,104.43	\$ 8,165.50
SOUTHFIELD POLICE	5,587	5,430	5,646	5,524	6,097	6,326	6,533	6,305	5,305	5,937	5,596	5,911	70,197	\$ 302,549.07	\$ 226,911.80	\$ 33,624.29
TROY POLICE	2,842	2,617	2,718	2,889	3,261	3,366	3,049	3,161	2,911	2,850	2,746	3,010	35,420	\$ 152,660.20	\$ 114,495.15	\$ 16,966.14
WALLED LAKE POLICE	236	187	200	219	246	280	273	261	261	255	260	239	2,917	\$ 12,572.27	\$ 9,429.20	\$ 1,397.24
WATERFORD TWP PD	1,935	1,607	1,872	1,789	2,052	2,312	2,272	2,210	2,191	2,095	1,893	2,081	24,309	\$ 104,771.79	\$ 78,578.84	\$ 11,643.99
WEST BLOOMFIELD POL	1,751	1,481	1,694	1,738	2,080	2,088	2,064	1,961	1,913	1,764	1,801	1,820	22,155	\$ 95,488.05	\$ 71,616.04	\$ 10,612.22
WHITE LAKE POLICE	573	537	548	483	629	690	750	719	585	536	584	587	7,221	\$ 31,122.51	\$ 23,341.88	\$ 3,458.85
\$2.25 million (rounded) = a per ALI bid amount of approximately \$4.31													521,927	\$ 2,249,505.37	\$ 1,687,129.03	\$ 250,002.51
*** The remaining amount of surcharge available will not be known until March or April of 2009 - for budgetary purposes, PSAPs should rely only upon the first 75% as a "confirmed" amount																
****UASI funds must be expended prior to March 31, 2010, and are subject to State approval																
9																

## DISTRUBUTION OF FUNDS FOR IP 9-1-1 CPE

The procedure for Oakland County PSAPS replacing their existing 9-1-1 to obtain funds from the County is as follows:

1. The PSAP should select a vendor from the County's cooperative bid, and obtain a final quote for equipment and services. A copy of that quote should be forwarded to Patricia Coates at CLEMIS either electronically ([coatesp@oakgov.com](mailto:coatesp@oakgov.com)) or by FAX (248-858-5140)
2. The County will be invoiced by the vendor in an internal PO in an amount not to exceed the amount of anticipated 9-1-1 surcharge revenue designated for the PSAP plus the amount of anticipated UASI funds designated for the PSAP as indicated in the Excel file with this procedure. The County will pay the incremental invoices from the vendor. The County will also make application to the State for authorization for the UASI grant.
3. Upon receipt of a PO from the PSAP, the vendor may invoice the County for an amount not to exceed 75% of the anticipated surcharge revenue. The PSAP is responsible for any additional funds necessary for the initial payment, and should be invoiced separately by the vendor.
4. Upon approval by the State of the UASI funds, the vendor may invoice the County for that amount.
5. Upon final acceptance by the PSAP, the vendor may invoice the County for the remainder of the surcharge funds. Amounts on the distribution spreadsheet are estimates only - the actual amount available will not be known until May of 2009. The PSAP is responsible for the remainder of any and all costs.
6. If any PSAP decides to merge with or contract with another PSAP, the funds allocated for the PSAP that will cease to function as a PSAP will be available for the remaining PSAP to purchase additional CPE equipment needed to facilitate the merger/contract.
7. If the total amount of surcharge distribution for a PSAP exceeds the cost of the equipment and services purchased, any excess funds will be reallocated among the remaining PSAPs.
8. If a PSAP does not expend the UASI funds prior to March 31, 2010, the Oakland County Grant Allocation Committee (GAC) will determine whether the funds will be distributed to other PSAPs for this project, or allocated to another GAC project.



## Vesta PALLAS

<b>Customer Information</b>	<b>Quote Date:</b>	1/9/2009
<p>Customer: Novi Police          Contact: Joe Bruchette          Phone: 248-295-0564          Fax:          E-Mail: <a href="mailto:jbruchette@cityofnovi.org">jbruchette@cityofnovi.org</a></p>		
<b>AWT911 Contact Information</b>		
<p>Sales Configuration Spec: Joe Cousineau          Phone: 517.851.4547          Fax:          E-Mail: <a href="mailto:jcousineau@awt911.com">jcousineau@awt911.com</a></p>		<p>Account Exec: Joe Cousineau          Phone:          Fax:          E-Mail:</p>

### System Description

8	911 Trunks	MIS	MagIC 4.0
31	Admistration Lines		
5	Positions		
0	Administration Phones		
0	Voice Mail Boxes		

### VESTA PALLAS System

Qty.	Part No.	Description	U/M
		<b>VESTA Pallas PBX System</b>	
1	862309-00101	BASE UNIT LAN/LAN	EA
0	862309-00301	BASE UNIT, LAN/LAN - RDNT	EA
1	862309-00201	EXPANSION SHELF	EA
2	862311-00901	CARD, 4 PORT (50PIN X2)	EA
4	862311-00801	CARD, 8-PORT GATM	EA
1	872399-00101	LAN CTE, 1 SEAT	EA
5	862306-00201	TELEPHONE 16-BUTTON	EA
10	862308-00801	T24-24 BUTTON KIM	EA
1	809800-80401	PALLAS CFG	EA
5	809800-80400	PALLAS STAGING PER POS	EA
		<b>MTU</b>	
1	852204-00101	MTU BASE UNIT	EA
4	852210-00401	ACTIVE CAMA MODULE	EA
1	872299-00101	MTU FIRMWARE	EA
1	809800-90301	SPT THRU YR 1 MTU FW	EA
		<b>VESTA Pallas</b>	
1	870899-03002.6	VP 2.6 SW/DOC/LIC	EA
4	870899-03102.6	VP 2.6 LICENSE ONLY	EA
5	809800-90201	SPT VP 1YR PCML	EA
		<b>Server Equipment</b>	
1	870809-00201	V ALI INTFC MOD	EA
1	870809-00101	V CAD INTFC MOD	EA
1	62000-F204803	SVR HP MINI 2G 160HD	EA
1	04000-00064	KIT BACKUP SATA 160GB	EA
1	04000-99690	KIT EXP CARD 8-PORT & CBL	EA
1	63002-172802	MNTR, 17IN FP BK	EA
1	04000-00356	SVR WIN 2003 + 10CAL	EA

### AWT911 Services

Qty.	Part No.	Description	U/M	
132	809800-17101	<b>Field Engineering Services</b> FIELD ENG-PRIMARY		
1	809800-51004	<b>Project Management Services</b> PROJECT MGT-SECONDARY		
1	AWT001	<b>On-site 24x7 Maintenance</b> YEAR ONE ON-SITE		
1	6501	<b>Training</b> VESTA PALLAS AGENT		
1	6506	VESTA PALLAS END USER		
		<i>Note: End User Training bundle includes: 2 days of VESTA Admin training, 1 day of VESTA Agent training, and 1 day of MagIC training for up to 8 students.</i>		
<b>AWT Services Subtotal</b>				<b>\$46,142.88</b>

### Quote Summary

VESTA Pallas System	\$150,439.28	72%
MagIC 4.0 MIS	\$11,965.80	6%
AWT911 Services	\$46,142.88	22%
<b>TOTAL QUOTE</b>	<b>\$208,547.96</b>	<b>100%</b>
<b>GRAND TOTAL</b>	<b>\$208,547.96</b>	

### Annual Maintenance

VPALLAS First Year Maintenance			
1	AWT10SM	Year 2 24X7 ON-SITE MAINTENANCE	\$16,240.51
1	AWT20SM	Year 3 24X7 ON-SITE MAINTENANCE	\$16,727.72
1	AWT30SM	Year 4 24X7 ON-SITE MAINTENANCE	\$17,229.55
1	AWT40SM	Year 5 24X7 ON-SITE MAINTENANCE	\$17,746.44

1	809800-70001	SYS SVR CFG <b>Workstation Equipment</b>	EA
5	61000-F204801X	WKST INTG HP XW4600 XP	EA
5	1915L/1928L	19" ELO TOUCHSCREEN	EA
5	04000-0LX44	4-CHANNEL, PCI SOUND CARD	EA
5	850808-00702	AUDIO CONTROL UNIT (ACU)	EA
5	809800-90001	V WKSTN CFG PEI	EA
1	04000-00355	SVR WIN 2003 + 5CAL	EA
1	809800-70001	SYS SVR CFG	EA
5	870890-07501	CPR/SYSPREP IMAGING <b>Wireless Headsets and Base Units</b>	EA
5	SHS1890-10	Plantronics adapter 10'coiled connector w/ amphifier	EA
5	CA12CD	Plantronics SHS2500-01 cordless PTT headset adapter	EA
16	H81N	Tristar Noise-Canceling Headset	EA
		<b>Peripherals &amp; Equipment Racks</b>	
1	06500-55053	EQPMT RACK 19 INCH	EA
1	862314-00101	PALLAS PERIPHERAL EQUIP	EA
1	850830-03011	MODEM PKG 56K EXT	EA
1	64040-60016	PRINTER, HP COLOR USB	EA
1	65000-03133	CBL USB PRINTER 10FT	EA
		<b>Netclock Master</b>	
1	GP931	Spectracom GPS Netclock Master Time base Command View Package	
<b>VESTA PALLAS System Subtotal</b>			<b>\$150,439.28</b>

### MagIC - MIS System

Qty.	Part No.	Description	U/M
		<b>MagIC 4.0</b>	
1	871299-00104.0	MAGIC 4.0 DOC/MEDIA	EA
5	871299-01601	MG 4.X/5X DATA CLCTN LIC	EA
5	809800-00701	MG 4.X/5.X SPT THRU Y1PEI	EA
5	04000-00284	SQL 2005 CAL RUNTIME STD	EA
		<b>MagIC Server Equipment</b>	
1	62000-F204803	SVR HP MINI 2G 160HD	EA
1	04000-00064	KIT BACKUP SATA 160GB	EA
1	04000-00355	SVR WIN 2003 + 5CAL	EA
1	04000-00284	SQL 2005 CAL RUNTIME STD	EA
1	809800-19004	MAGIC SVR CONFIG SERVICE	EA
		<b>Peripherals &amp; Equipment Racks</b>	
1	06500-19150	SHELF RACK, DBL BLK 19IN	EA
1	65000-00002	CBL PATCH 3FT, PNL TO SW	EA
1	04000-002B2	KVM 2-PORT SWITCH	EA
1	04000-00612	CBL KVM PS/2 CONSOLE	EA
2	04000-60614	CBL KVM PS/2 PC	EA
1	04000-RMM19	BRKT 19IN RACK MTG/ARBTR	EA
<b>MagIC - MIS Base System Subtotal</b>			<b>\$11,965.80</b>

NO

Options

**Aurora - MIS System**

Qty.	Part No.	Description	U/M
		<b>Aurora - MIS System Licensing &amp; Support</b>	
1	873399-00101.0	AURORA 1.0 DOC/LIC/MED	EA
5	873391-00201	AURORA COLLECTION LIC	EA
5	809800-03301	AURORA SPT 1 YR	EA
		<b>Aurora Admin Workstation</b>	
1	873391-00301	AURORA USER LICENSE	EA
1	04000-00284	SQL 2005 CAL RUNTIME STD	EA
1	61000-F204801X	WKST INTG HP XW4600 XP	EA
1	63002-192805	MNTR 19IN W/SPKRS NEC	EA
1	809800-19004	MAGIC SVR CONFIG SERVICE	EA
		<b>Aurora Server Equipment</b>	
1	62040-G204801	DL380G5 BASE RACK SVR	EA
1	64000-20046	HARD DRIVE 146GB SAS 10K	EA
		<i>For RAID5 config.</i>	
2	64000-40067	1GB RAM ML370G5 DL380G5	EA
		<i>To make server 4GB RAM.</i>	
1	64000-20046	HARD DRIVE 146GB SAS 10K	EA
		<i>Backup HD for DL380/G5 server.</i>	
1	04000-00355	SVR WIN 2003 + 5CAL	EA
1	04000-00284	SQL 2005 CAL RUNTIME STD	EA
1	809800-19004	MAGIC SVR CONFIG SERVICE	EA
		<b>Peripherals &amp; Cabinet</b>	
1	65000-00002	CBL PATCH 3FT, PNL TO SW	EA
<b>Aurora - MIS System Subtotal</b>			<b>\$22,681.40</b>

150,439.28  
 46,142.58  
 22,681.40  
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 219,263.56