



SANITATION DISTRICTS OF LOS ANGELES COUNTY

Oracle WAM via Web-Based Mobile Management System

March 2020





Presenters

- Susan Chatman, Asset Management Technician,
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Agenda

- Overview of LACSD and Websoft
- History of CMMS at LACSD
- Objectives of MMS
- MMS Architecture and Integration
- Live Demonstration



Sanitation Districts of Los Angeles County

- 850 square mile service area encompassing 78 cities
- 510 million gallons per day of wastewater from 47 pumping plants
- 1,400 miles of sewers - ranging from 8 to 144 inches in diameter





Wastewater Collection Systems



- 22 crews, 800 WOs per month
- 5,000 PMs
 - 1,500 Cleaning PMs
 - 2,600 CCTV PMs
 - 312 $Mg(OH)_2$ Crown Spray PMs



Websoft Developers, Inc.

- Founded in 1998
- Located in Davis, Ca
- Software Development Company
- Infrastructure Engineering Background
- Key Staff
 - Manoj Desai – President
 - Sean Dingman – Product Management
 - Romany Saad – Senior Software Architect
 - Steven Crites – Senior Software Developer
- MobileMMS: Map-based, Mobile Maintenance System



Work Order History

- Paper based
- Mainframe
- CMMS
- Oracle WAM
- Mobile MMS

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY, CALIF.

ARTESIA EXTENSION TRUNK

DISTRICT No. 2

A.F.E.N.T.

Date: _____ Page: 3

Prepared by: _____

Checked by: _____

DATE	ORDER NO.	CLEANED	MISC
6/11/96		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
9/16/96		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
11/1/96		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
7/21/96		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
11/2/96			N° 28/27 RAISE
11/2/96			N° 28/29, N° 19, N° 19A RAISE
12/11/96		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
12/11/96		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
3/21/97		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
3/21/97		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
3/21/97		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
3/21/97		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
7/21/97		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
7/21/97		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
7/21/97		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
9/15/97	N° 35 N° 102		
9/16/97		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
7/16/97		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
7/16/97		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
12/11/97		N° 35 N° 19A	
12/11/97		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
12/11/97		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
12/2/97		N° 19A N° 102	
12/2/97		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
1/3/98		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
3/21/98		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
3/21/98		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
4/21/98		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
6/21/98	N° 35 N° 102		
6/21/98		SIPHON N° 29 N° 28	ARTESIA BLVD. SAN GABRIEL RIVER
6/21/98		SIPHON N° 19B N° 19A	ARTESIA BLVD. WOODBURY AVE
6/21/98		SIPHON N° 5 N° 102	KAWANA ST. CLARK AVE
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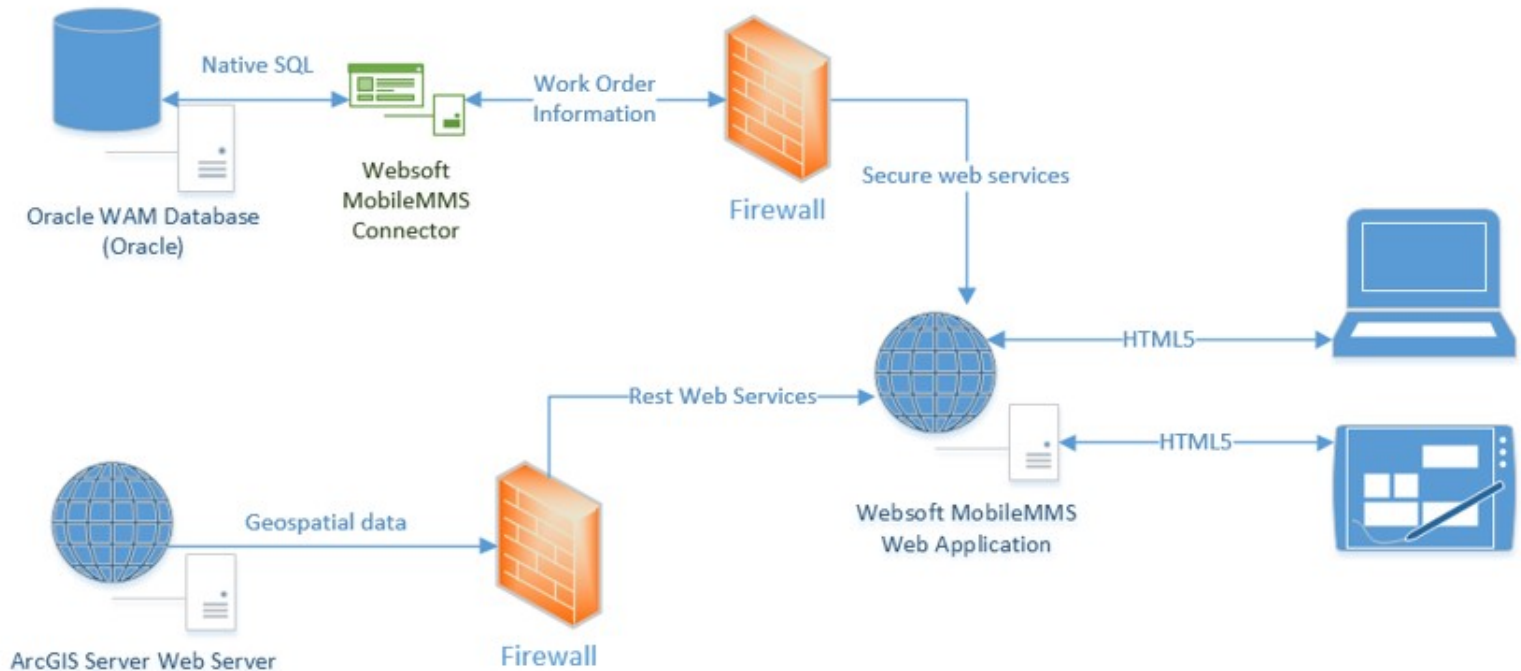
Objectives of MMS

- Portable
- Map-based
- Avoid duplicating entries
- Less typing = less errors
- Near real-time



MMS Architecture

LA County Sanitation District – Mobile MMS Architecture





MobileMMS Connector

- Connector is installed on LACSD Server
- WAM Oracle DB using Native Client
- MobileMMS using Rest based Web Services over HTTPS
- Work Orders to Work Order Tasks
 - Procedures update:
 - SA_WORK_ORDER
 - SA_WORK_ORDER_TASK
 - SA_PM_ROUTE_DETAIL



MMS Demo

Mobile MMS - Login ✓ FLEET Oracle Support Radar Map - AccuWeather

Mobile MMS Los Angeles County Sanitation Districts

Only Open

Select User

- Work Order
- Pumping Plant
- Meters
- Caustic

Default Map View

Google

Map data ©2019 Google Terms of Use Report a map error

wsd



Questions

