Crown Melbourne's Maximo Everyplace Implementation Pulse 2013

Jeremy Sampson – Engineering Services Manager Wednesday 12 June 2013



A WORLD OF ENTERTAINMENT

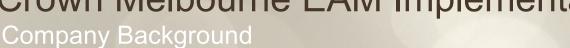


This Presentation:

- What is Crown Melbourne -
- Why we implemented Maximo Everyplace -
 - Implementation challenges -



- Project outcome and learnings -
 - Project Management 101 -
 - Questions -





Crown Melbourne

- -Australia's leading integrated resort
- -18 million visitors each year.
- -Over 510,000 square meters
- -120 full time maintenance staff
- -3 hotel towers 1,600 premium/luxury guest rooms
- -8,850 employees Australia's largest single site employer.



Crown Melbourne EAM Implementation Company Background







CROWN

Property Features



40 Restaurants



1600 Hotel Rooms



12 bars/nightclubs



29 Shopping Outlets



Gaming and VIP Gaming



2 World Class Spas



Property Infrastructure



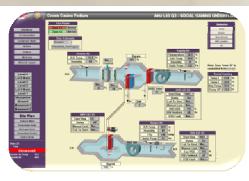
130 lifts & escalators



229 air-conditioning pumps & 31 Boilers



900 electrical boards



45,000 BMS points & 1300 meters



2900 Air conditioning units



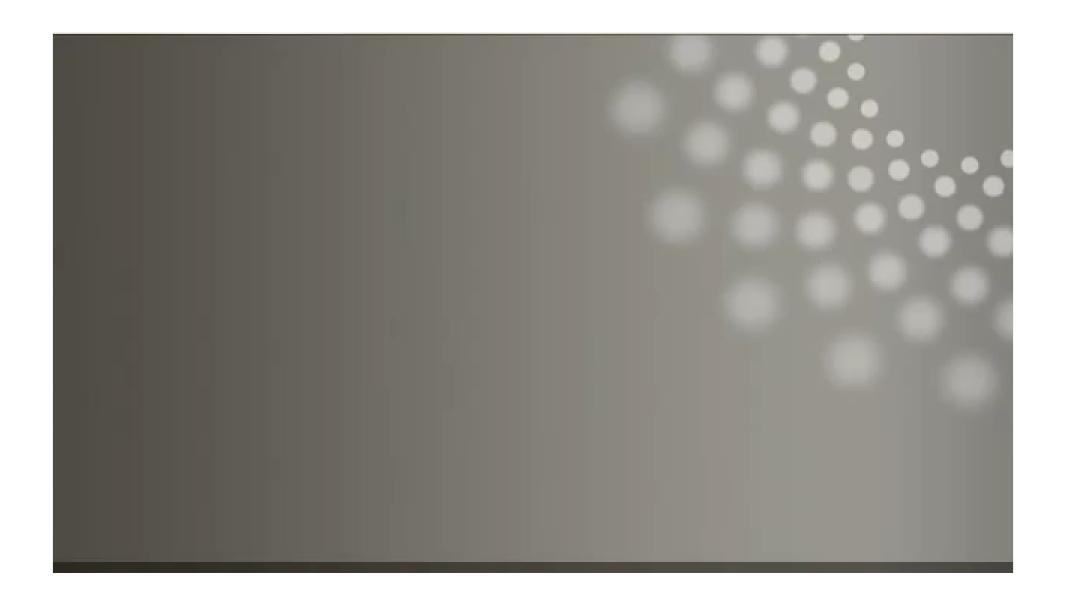
27 air conditioning Water Chillers



8 Cogen Generators



35 high voltage substations



Why we implemented Maximo Everyplace





Crown Melbourne implemented Maximo & Maximo Everyplace in Nov 2012

Reasons for Crown EAM implementation:

- •Customer experience facility issues were not rectified in the shortest possible time.
- •Cost control ongoing costs were not easily transparent.
- •Inventory Control many work orders waiting on parts.





Project drivers – Example issues with legacy systems

- **1)Duplicate work orders**. Multiple maintenance teams would sometimes attend the same job.
- **2)No asset history**. Assets were not easily specified in the work order. Issues with one escalator could be described by multiple descriptions (eg. ID#, lower floor location, upper floor location, etc...)
- **3)Financial accuracy**. Finance information lived in 2 separate systems and full transparency wasn't available until the end of each month



Our Maintenance Roadmap

- •5 star resort service levels
- Asset condition trending and failure forecasting
- Life-cycle costs for major assets
- Minimal out of stock parts
- Increased preventive maintenance
- •Improved maintenance personnel utilization

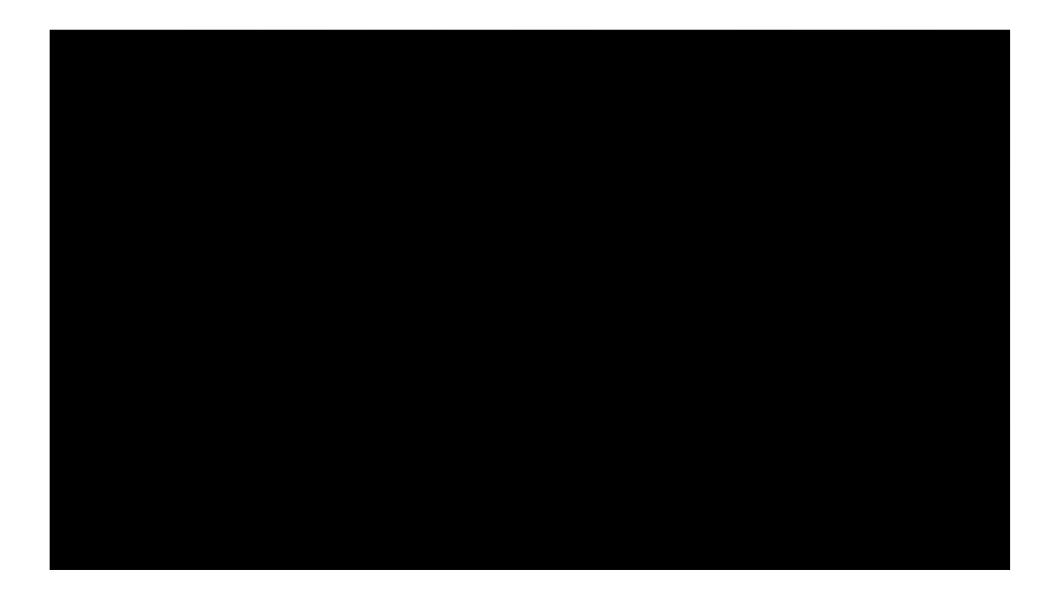




Plumbing Team - Trades Person - Daily Activity Report

Entered By	Work Order	Description	Status	Craft	Entered Date	Start Date	End Date	Start Time	End Time	Regular Hours
374965	73984	repair replace solemoid B1 mains water meter room	COMPLETE	PLUMB	13/02/13	13/02/13	13/02/13	6:26:41 AM	9:20:47 AM	02:54
374965	73835	install tap to wash down cooling towers confrence center L4	INPRG	PLUMB	13/02/13	13/02/13		9:21:39 AM		00:00
Total work order count -		2						Total hours logged - 02:54		
Entered By	Work Order	Description.	Status	Craft	Entered Date	Start Date	End Date	Start Time	End Time	Regular Hours
374998	58389	git railing project (pump lift out) wash down hoses install	INDEG	PLUMB	13/02/13	13/02/13	13/02/13	6:40:39 AM	3:22:42 PM	08:42
Total work order count -		1						Total hours logged - 08:42		
Entered By 367631	Work Order 73984	Description repair replace solemoid B1 mains water meter room	Status COMPLETE	Craft PLUMB	Entered Date 13/02/13	Start Date 13/02/13	End Date 13/02/13	Start Time 7:13:17 AM	End Time 12:54:29 PM	Regular Hours 05:41
367631	73835	install tap to wash down cooling towers confrence center L4	Dinne	PLUMB	13/02/13	13/02/13	13/02/13	12:59:41 PM	3:06:02 PM	02:06
Total work order count -		2						Total ho	urs logged -	07:47
Entered By	Work Order	Description	Status	Craft	Entered Date	Start Date	End Date	Start Time	End Time	Regular Hours
116379	58389	git railing project (pump lift out) wash down hoses install	INPRG	PLUMB	13/02/13	13/02/13	13/02/13	6:19:58 AM	6:55:36 AM	00:36
116379	74612	inspection/clean maintenance pump wells and G.I.T	EURG	PLUMB	13/02/13	13/02/13	13/02/13	6:56:32 AM	12 12 14 PM	05:17
116379	74612	inspection/clean maintenance pump wells and G.I.T	IMPRG	PLUMB	13/02/13	13/02/13	13/02/13	12:53:32 PM	3:16:31 PM	02:23
Total work order count -		3						Total hours logged - 08:16		08-16

14/02/2013 6:00 AM 1 / 2

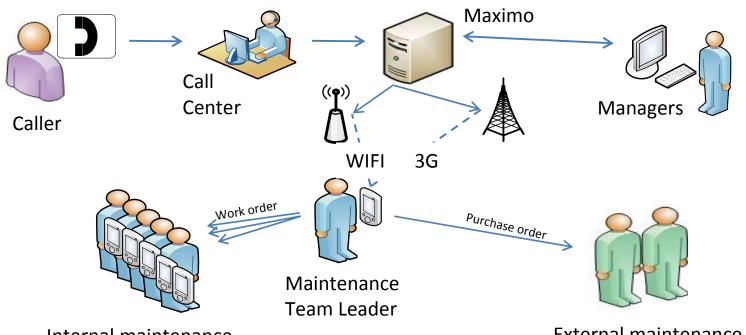






Implementation Challenges

•High Volume – Crown maintenance reacts to over 100,000 work orders per year

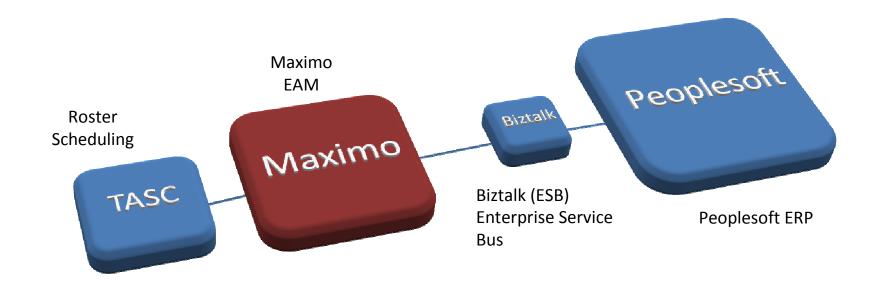


Internal maintenance

External maintenance



- •High Volume Crown maintenance reacts to over 100,000 work orders per year
- •ERP Integration All financials needed to be fully integrated with Crown's ERP





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- •ERP Integration All financials needed to be fully integrated with Crown's ERP
- •Mobile Crown currently had a mobile solution, we couldn't step backward
- •Large staff numbers Crown operates 24/7 has over 120 rostered maintenance staff



Project Outcome & Learnings





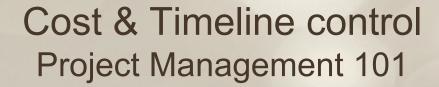
Project outcomes

- •Maximo and Maximo Everyplace has been online for 6 months
- •Project came in on time and within 1% of budget
- •Maximo Everyplace running on 100+ dedicated iPhone 4's
- •Focus over the next 12 months
 - Gathering actual operations cost data
 - Optimizing inventory levels
 - Move toward preventive maintenance
 - Productivity and realising savings



Project Learnings

- •Changeover of **key BAU project team members** during the project was a high risk to the project. Risk mitigation should have been much more strict.
- •Process time requirements should be identified in scope and UAT. User expectations are that the new system will be the same or faster. Not achieving this will hamper user acceptance
- •Processor speed of mobile devices is critical for some Everyplace applications
- •Fully understand the limitations of the other systems to be integrated. (eg. ERP)
- •Fully understand license types and limitations
- •Identify basic requirements around **mobile screen usability** and layouts.



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On Time and On Budget

This project was delivered on-time and within 1% of budget because of strict adherence to the following:

- Project governance
- "Vanilla" requirements
- Scope work completed upfront



Cost & Timeline Control

Project Governance

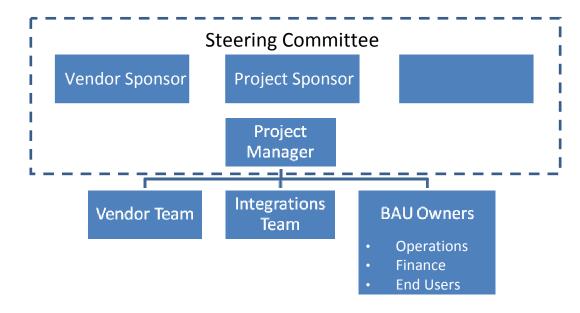
•A signed project charter, executive steering committee, and BAU resources are the key to

eliminate scope changes.



Project Charter

- Scope
- •Cost
- •Timeline
- Signatures
- Accountability





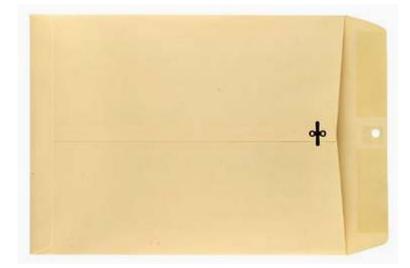
Cost & Timeline Control

"Vanilla" Requirements

•Customizations must be minimised to control project cost and complexity.

•Every customization requirement should be fully scrutinized and must be approved by the

steering committee.





Cost & Timeline Control

Get the Scope right early,

- •Business representatives Pull key individuals out of the business during the scoping phase. Backfill their roles and ensure they are part of the design and test team.
- •"Vanilla Envelope" requirements Ensure your scope is not prescriptive. Standard configurations will likely fulfil you business requirements without customization



