ITS Executive Steering Committee (ITESC)

Agenda and Materials – May 14, 2015



Agenda

Panic Button Review/Inventory

• D. Vonder Heide

Mobile Device Policies, Stipends, Contracts

• S. Malisch, D. Vonder Heide

Anytime Anywhere Access Strategy

• S. Malisch, J. Sibenaller

Space Management

• K. Wibbenmeyer, J. Sibenaller

Information Security Risk Assessment

• J. Sibenaller

Oracle Licensing • S. Malisch



Introduction

Micro Technology Services, Inc.

- Founded 2004
- Richardson, Texas
- Networked Based Alarm System Lynx
 - Software (keyboard)
 - Wired and Wireless Buttons
- Major Industries:
 - Health Care
 - Higher Education and K-12
 - Courts









Landscape



LOYOLA MEDICINE

We also treat the human spirit.*



Surveyed AJCU Schools

Boston College Canisius College

College of the Holy Cross Creighton University Fairfield University Fordham University Georgetown University Gonzaga University John Caroll University Le Moyne College Loyola Marymount University Loyola University Maryland Loyola University New Orleans Marquette University

Regis University Rockhurst University Saint Joseph's University Saint Louis University Saint Peter's University Santa Clara University

Seattle University

Spring Hill College University of Detroit Mercy University of San Francisco University of Scranton Wheeling Jesuit University Xavier University



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Phase 1

• Classroom Deployment



Phase 2

• Existing Alarm Assessment



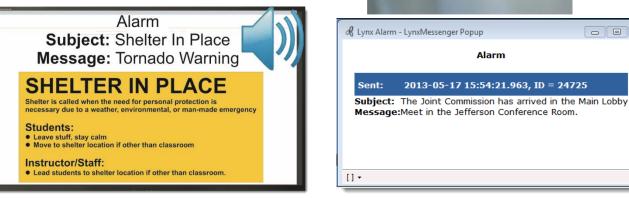


Alarm

2013-05-17 15:54:21.963, ID = 24725

Phase 3

• Evaluate Messaging Features





- - X

Phase 1 – Classroom Deployment

LynxKeyPro:

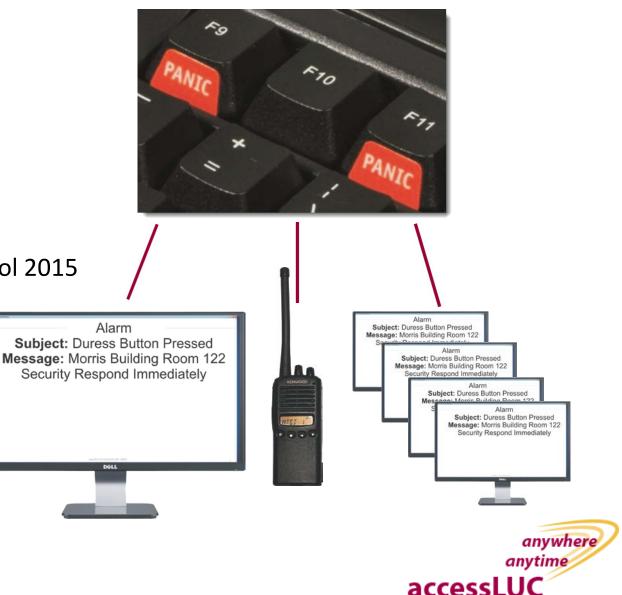
- Hotkey Function
- Notification to Multiple locations
- Operates on Windows OS
- Logged On, Logged Off, Locked
- Test Function & Audit Reporting
- Disaster Recovery

Deployment to 300 Lakeside Classrooms – Start of School 2015

Cost:

- Turnkey with 2000 seats & 300 LynxKeyPro \$23,000*
- Audio to Campus Safety radios \$8,000
- Annual support \$2,900

* Disaster recovery estimated at an additional 2x cost



Phase 2 – Existing Alarm Assessment

- 83 Deployed panic alarms / 50% Wellness
- Benefits of Converting:
 - Communication to the Campus Safety radios
 - Enable notification of other personnel in the area
 - Allow testing without turning the system off or ignoring alarms (4Q15)
- Areas for Discussion
 - Creation of policy (who and what)
 - Maintenance inventory
 - Audit alarm testing

1	Campus	Building	Floor	Room	Hard Wired	Wireless	Model	Connect to Dispatch	Purpose	Tested Da
2	WTC	25 East Pearson	1st	HUB	yes			Maxxess	Bursar/Campus Card	3/3/2015
3	WTC	Lewis Towers	15th	1500 - Recep	yes			Maxxess	President Office Recption Desk	3/3/2015 🔹
4	WTC	LUMA	2nd	Desk	yes			Maxxess	Museum Retail Shop	3/3/2015
5	LSC	Bellarmine Hall	1st	Lobby	yes			Maxxess	Resident Hall Monitors Desk	3/2/2015
6	LSC	Burrowes Hall	1st	Desk	yes			Maxxess	Reception Desk	3/3/2015
7	LSC	Campion Hall	1st	Desk	yes			Maxxess	Resident Hall Monitors Desk	3/2/2015
8	LSC	Cudahy Library	1st	Desk	yes			Maxxess	Circulation Desk	2/25/2015
9	LSC	Damen	1st	N Desk	yes			Maxxess	Information Desk	2/25/2015
10	LSC	Damen	3rd	North		Yes	DXR 702	Maxxess	Student Affairs	2/25/20154
11	LSC	Damen	3rd	South		yes		Maxxess	Student Affairs	2/25/2015
12	LSC	Damen	3rd	Receptionist		yes		Maxxess	Student Affairs	2/25/2015
13	LSC	Dinobli	1st	Desk	yes			Maxxess	Resident Hall Monitors Desk	3/2/2015
14	LSC	Eelice's Pizza	1st	counter	yes			Maxwoss	point of Sale Station	Closed 1





Phase 3 – Messaging Features / Opportunities

Messaging Options

- Messages to pushed to any combination of workstations
 - Full, 75%, 25%, Scroll
- Groups created with individual icons
- UMC message boards

Ala Subject: She Message: Tor	elter In Place
SHELTERNI Shelter is called when the need fo necessary due to a weather, envir Students: • Hove to shelter location if other Instructor/Staff: • Lead students to shelter location	r personal protection is onmental, or man-made emergency r than classroom
	.:



Next Steps

Immediate

- Confirm notification configuration
- Begin classroom deployment
- Assess disaster recovery requirements

Midrange

- Assess existing alarms for conversion
- Formalize governance, support and testing

Longer Term

• Evaluate message delivery and group messaging





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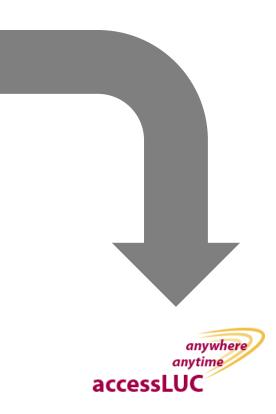
Oracle Licensing • S. Malisch



IT Strategic Direction "Anytime Anywhere Access"

- Concepts
 - Faculty/Staff/Student: "I can fulfill my relationship with Loyola from wherever I am."
 - Easy to use
 - Web/portal-based
 - Secure
 - Self service
 - University:
 - How do we "elegantly give up control?"





IT Strategic Direction "Anytime Anywhere Access"

- Technology Implications
 - Reduce or eliminate constraints of things like VPN, Loyola Software, network drives
 - Portal
 - Virtualization
 - Desktop Management
 - Application streaming
 - Cloud-based
 - Increased device independence



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Anytime Anywhere Access...

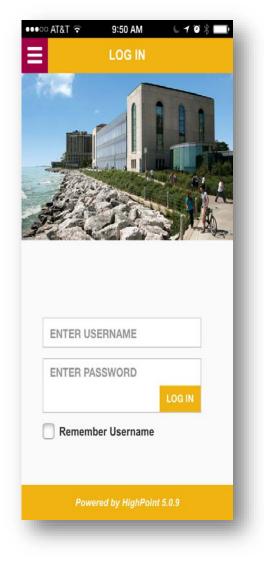
Vision – Student/Faculty/Staff: "I can fulfill my relationship with Loyola from wherever I am."

Progress

- Cloud based storage Box
- Improved mobile presence *Highpoint Mobile*
- Addition of web-based and self-service applications
- Campus wireless expansion HSD, Gentile
- Eduroam federated network access
- Broader and stronger security controls
- Online Learning *Atomic Learning*

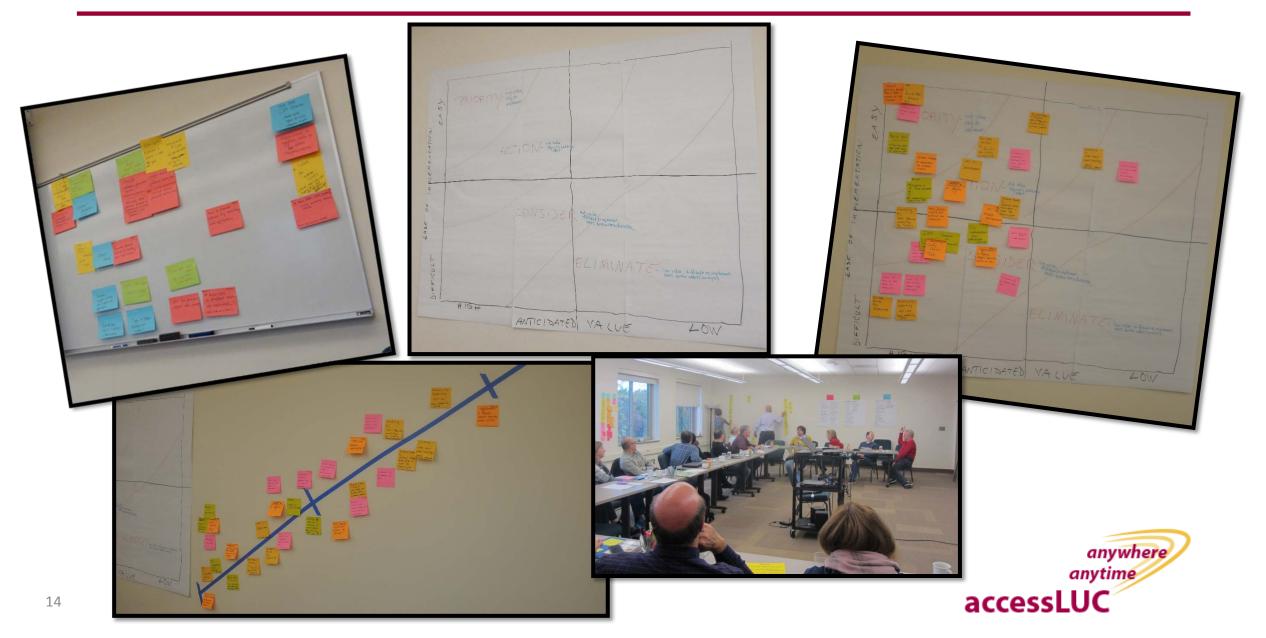
Future Direction

- VPN Replacement
- Password Management Upgrade
- Private cloud based storage SharePoint
- Identity & Access Management Strategy
- Desktop Virtualization
- Increased Device Independence

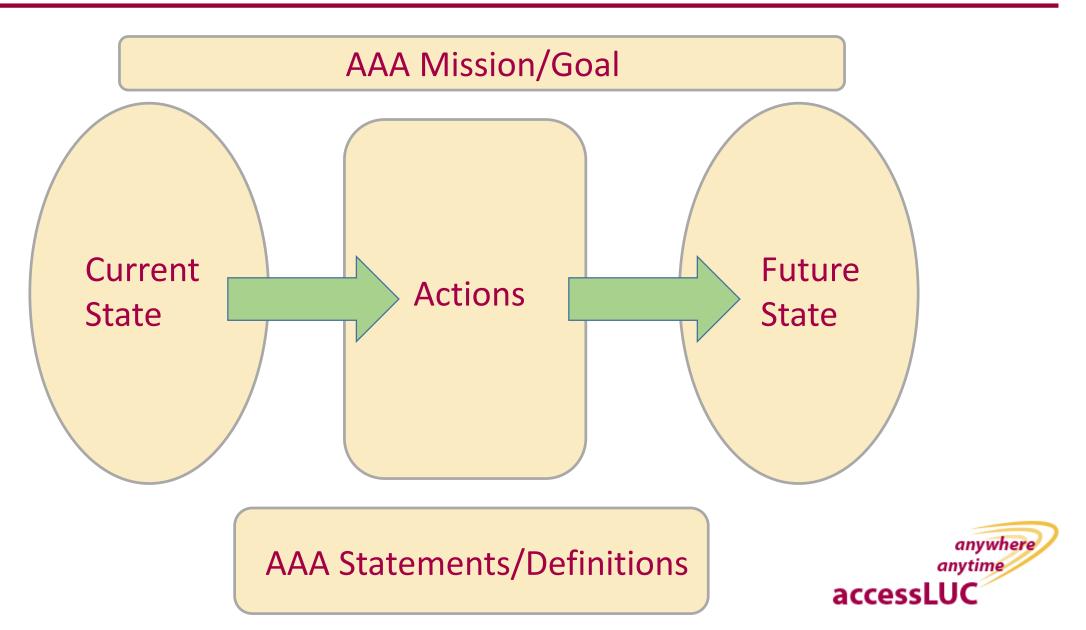




Anytime Anywhere Access Strategy Update



Anytime Anywhere Access One Page Strategy



Draft **Anywhere Anytime Access Strategy**

Loyola's technology architecture strategy supports:

Schedules which are 24/7 in nature. (Anytime) An LUC community which is mobile. (Anywhere) Straightforward and appropriate access to systems. (Access)

accessl

	Current State	Future State	traignetor ward and appropriate access to systems. (Access)
ন Accessibility	 Multiple sign-ons Limited accessibility Random application locations Loyola assigned/approved devices Multiple steps to accomplish a single task Data is difficult to find 	 Single sign-on Accessibility by role Portal/home page Device agnostic Streamlined execution of tasks Data easily locatable 	
☐ Infrastructure	 Disparate infrastructure across campuses Software delivery through LUC workstations Partial DR plans and environments 	 Unified infrastructure across campuses Virtualized desktop and application acce Tested and maintained DR environments 	
Security	 Help desk password reset Single factor authentication, VPN certificate Basic information security awareness Complicated security architecture Reactive security actions/protection 	 Self service password reset Multi-factor authentication Information security education program Simplified and transparent security archite Proactive risk-based security program/de 	my relationship in a simple, secure and
E Services	 Content presentation is inconsistent Support via direct contact Ad-hoc service definitions Decentralized technology services support Service levels based on best effort Summary data dispersed 	 Content presentation is device agnostic Robust self-service support environment Well defined service offerings Centralized technology services support Service level agreements defined Dashboards 	t

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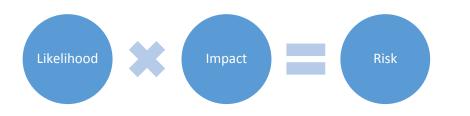
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Risk Assessment – Review



Impact Scores	Mission	Objectives	Obligations
	Loyola University's purpose. The benefit Loyola brings to students, faculty, staff, and the public.	Loyola University' goals. Success metrics that Loyola intends to achieve.	Responsibilities that Loyola University has to employees, students, partners and the public.
. Negligible	Education – no impact to producing effective professionals Campus Life – no impact to safety or campus function. Community Outredn – no impact to saving the community Research – no impact on ability to conduct research.	Strategic Plan – No impact to plan. 4-Year-Plan – No impact on graduation timing. Budget – On budget. Fundraising – On plan. Bond Rating – On plan. Competitive Tuition – Increases are below peer universities. Accreditation – no impact to accreditation Cualify Student – No reduced interest from quality students.	PII — PII is not exposed to unapproved persons. FoI — Open information is efficient to obtain. Compliance — to compliance concerns. Academic Integrity — Grades, achievements, publications are stated correctly. System Integrity — Systems retain integrity.
2. Low	Education – some programs may not support professional standards to their potential. Campus Life – way have an impact that creates no safety hazards. Community Outreach – non-material reduction in service. Research – inconvenience in conducting research.	Strategic Plan – impacts to the plan would be within variance. 4 Year-Plan – Yew tudnets may delay graduation by a semester. Budget – Within variance of budget. Fundraising – Impact to goals are within variance. Bond Rating – Within allowable variance. Competitive Tuition – Increases are on pace with peer universities. Accreditation – some quirements may be compromised, short of failure. Quality Student – Low reduced interest from quality students.	PII – PII may be shared with unapproved personnel without impact to individuals. FoI – Open information may be indificient to obtain. Compliance – A recoverable non-compliance may result. Academic Integrity – False representations may be correctable without impact. System Integrity – Systems may fail to operate as designed with no impact to othe
3. Medium	Education - some programs may not produce competent professionals. Campus Life - may create temporary hardships, short of a safety hazard. Community Oureach - some service projects may be reduced, or stopped. Research - some research projects or strategic projects may cease.	Strategic Plan – Plan would need adjustment. 4-Year-Plan – Many students may delay graduation. Budget – Exceeding budget beyond variance. Fundraising – Missed goals require change in fundraising plan. Bond Rating – Reduced, but recoverable with planned response. Competitive fuition – increases slightly exceed per universities. Accreditation – some requirements may materially fail, but are reparable.	PII – Fever than 100 PII records may be shared with unapproved people. FoI – Open information may be difficult to obtain. Compliance – buy cause a non-compliance that could harm others. Academic Integrity – False representations with non-physical harm to a few System Integrity – Systems may create annoyance or inconvenience to others.
4. High	Eduction - multiple programs may not produce competent professionals. Campus Life - may create extended hardships, including a safety hazard. Community Outreach - multiple service projects may be haited. Research - many research projects may not be conducted.	Stratege Plan – Requires significant re-scoping of plan. 4-Year-Plan – Significant number of students not on "4-Year-Plan." Budget – Significant impact on other budgets. Fundraising – Missed goals require change in budgets. Bond Rating – Aeduced, with uncertain recovery. Competitive Tuition – Increases significantly exceed per universities. Accreditation – violations may put Loyola on probation. Quality Student – inhollity to attract quality students.	PII—More than 100 PII records may be exposed in a single instance. FoI—Open information may not be attainable. Compliance — A non-compliance that may harm meny others could result. Academic Integrity — False representations allowing harm to many. System Integrity — System use may violate laws, or do significant damage to other
5. Catastrophic	Education - the University may not produce competent professionals in any field. Campus III - may cease campus functions and create safety hazards. Community Outreach - any service outreach may not be conducted. Research - ability to conduct any research may be halted.	Strategic Plan - Elan is stooped. 4 Year-Plan - Significant loss of matriculated students. Budget - Loss of ability to purchase or pay. Fundraining - Missed poals require adjustment of University corporation. Bond Rating - Delisted or failed bonds. Competitive Tuition - Target students cannot afford to attend/matriculate. Accreditation - accreditation may be revoked.	PII—Multiple or sustained PII breaches may result. FoI—Loyola may not be able to grant access to any public information. Compliance — Many others are harmed through the non-compliance. Academic Integrity — False representations allowing great harm. System Integrity — Systems may continuously harm others.

Quality Student - Quality students leave the University prior to graduation.

L	5. Multiple times this year	5	10	15	20	25
k e	4. Foreseeable within the year	4	8	12	16	20
l i	3. Multiple occurrences within 5 years	3	6	9	12	15
h o	2. One occurrence within 5 years	2	4	6	8	10
o d	1. Not foreseeable within 5 years	1	2	3	4	5
		1. Negligible	2. Low	3. Moderate	4. High	5. Catastrophic
				Impact		

	Ris	sks		Themes		
	Assessed Unique		Projects	Programs	Total	Total
High	24	19	11	4	15	12
<mark>Medium</mark>	76	49	16	7	23	24
Accept	13	13	-	-	-	-
	113	81	20*	8*	28*	31*

* denotes unique items



Risk Assessment – High Risk Themes

- T01. A shortage of skilled information security specialists.
- T02. Change management processes are not consistently applied throughout the university in a manner that ensures changes are made and approved based on risk and security best practices.
- T03. End-user systems may not have security controls enforced on them, but only required by policy.
- T04. Information systems are not uniformly inventoried, nor are their configurations or states of vulnerability known.
- T05. Internet-provided services are used to share data, but are not under the control or policies of the University.
- T06. Network cables / connections are not secured against accidents or intentional sabotage.
- T07. Passwords for user accounts are inherently vulnerable to guessing, oversharing, or exposing to unauthorized parties.
- T08. The security audit and effectiveness measurement functions that are applied to the most sensitive systems are not applied to all at-risk systems.
- T09. Security incident and event management does not yet cover all systems that create a risk to protected information.
- T10. The vulnerability management program does not yet include a scheduled process for regularly scanning and resolving systems against known vulnerabilities, or established hardening standards.
- T11. University community members may not have appropriately detailed instructions for handling information in a secure or legally compliant manner.
- T12. Wireless routers are not yet secured against foreseeable attacks by hackers who are in the vicinity of Loyola campuses.



Risk Assessment – Next Steps

- Assess dependencies of treatments to risks
- Size the treatments
- Assign Owners & Participants to treatments
- Evaluate the value/impact of completing a treatment
- Assess dependencies of treatments to other ITS projects
- Prioritize treatments
- Create a master schedule of work (multiple years)
- Begin remediation
- Report progress continually



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Oracle Licensing Opportunities

- Move from Named User License (NUL) for database to a Campus Site License model Assess dependencies of treatments to risks
 - Changes in server technology have made NUL model cost prohibitive and undesirable for ideal database architecture and performance
 - Additional licenses required for Lawson and BCDR (would have added \$350K in new costs alone under NUL model)
 - Contract executed Feb 2015 and represents a \$56K savings over next four years with added flexibility to develop optimal database architecture for Student System, Lawson, BCDR, and available for other business/classroom use



Oracle Database Campus Site License Financials

T1. Campus License Purchase Cost	T3. FY16-FY19 Ongoing Oracle Maintenance Projections								
One Time Purchase Cost	\$288,998.03	FY	Planned Maintenance	Actual Maintenance ¹	Campus License Maintenance				
Ongoing Maintenance Cost	\$211,228.47	FY16	\$185,761.45	\$208,941.45	\$211,228.47				
		FY17	\$195,049.52	\$219,388.52	\$211,228.47				
FY15 Oracle Campus License Total	FY15 Oracle Campus License Total \$500,226.50		\$204,802.00	\$230,357.95	\$211,228.47				
		FY19	\$215,042.10	\$241,875.84	\$211,228.47				
T2. Campus License Funding Source Breakdown			\$800,655.07	\$900,563.76	\$844,913.88				
Funding Source	Funding Source FY15 Available			Notes:					
Maintenance	Maintenance \$155,201.38		1. Original BCDR Capital Plan was \$22,800 increase to						
Lawson Capital	\$100,000.00	2. Additional \$206,500 (one time) allocated for Oracle in							
BCDR Capital	\$146,000.00								
FY15 Total Available Funds \$401,201.38		FY16 BCDR Capital-funds can be used to offset unplanned maintenance increase and/or be returned to capital Pool.							
FY15 Total Funds Needed for				3. Pricing contingent upon LUC issuing a multi-year PO by the end of February, 2015					
Campus License									
		not increase more than 5% of the FY19 cost.							

Oracle Licensing Opportunities

- Move from annual renewal to five year licensing commitment for Campus Solutions (Oracle/Peoplesoft Student System) and related products
 - Offers a freeze in maintenance renewal costs through Year 5 for a five-year cost savings of ~\$100K (5% accelerator cap re-activated after Year 5)
 - Ability to move to new platform would likely take five years to assess and execute; no plans currently
 - Consolidates contracts for four related Oracle products supporting student system into a single co-terminus maintenance renewal
 - Must be executed May 2015



Oracle Campus Solutions(+) Five Year Maintenance Agreement Financials

Contract Options	FY15 Year 1	FY16 Year 2	FY17 Year 3	FY18 Year 4	FY19 Year 5	Total
Renewing 1 Year at a Time	\$331,757.97	\$336,648.10	\$346,747.54	\$357,149.97	\$367,864.47	\$1,740,168.05
5 Year Renewal	\$331,757.97	\$326,842.81	\$326,842.81	\$326,842.81	\$326,842.81	\$1,639,129.21
Cumulative Savings over 2 Years		\$9,805.29				
Cumulative Savings over 3 Years			\$29,710.02			
Cumulative Savings over 4 Years				\$60,017.18		
Cumulative Savings over 5 Years					\$101,038.84	\$101,038.84

Notes:

The total cost represents a consolidated cost for PeopleSoft, WebLogic, Oracle Data Masking and Oracle System Monitoring.
 Year 1 includes co-terming 4 different contracts to same expiration date (more than 365 days of coverage) resulting in slightly higher cost than Year 2 under the 5 year agreement.

3) By doing a multi year PO we are freezing the maintenance through FY19 and will see the standard 5% increase in FY20 over the FY19 cost.



2014-2015 ITESC Schedule

January 29, 2015 - Thursday, 1:30-3:30 PM

- Technology Scorecard
- POR & New Technology Changes
- Information Security Risk Definition
- AAA Strategy Update
- Client Outreach Meetings

May 14, 2015 - Thursday, 1:30-3:30 PM

June 25, 2015 - Thursday, 1:30-3:30 PM

Project Portfolio Prioritization

August 13, 2015 - Thursday, 1:30-3:30 PM

November 5, 2015 - Thursday, 1:30-3:30 PM

December 15, 2015 - Tuesday, 1:30-3:30 PM

Project Portfolio Prioritization

