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Web site: http://www.thecb.state.tx.us September 24, 2018

Dr. Raymund A. Paredes Commissioner of Higher Education 1200 E. Anderson Lane Austin, TX 78752

Dear Dr. Paredes:

The July 2018 status report provided by management to the Agency Operations Committee was accurate regarding actions taken to implement the recommendations in the *NTT Texas Cyber Security Assessment Report* at the Texas Higher Education Coordinating Board, issued June 2017 (*see Appendix 1*).

Our review focused on assessing the accuracy of management's most recent report of corrective action status, dated July 2018. The assessment also considered actions taken between the last official report in July 2018, and our fieldwork in August/September 2018.

Our status assessment provides an outside evaluation of the agency's information security program as required on a biennial basis by Texas Administrative Code Chapter 202 Information Security. Our audit included reviewing the NTT assessment and obtaining a status update with relevant documentation to determine the implementation status.

We conducted this audit in conformance with the *International Standards for the Professional Practice of Internal Auditing.* Additionally, we conducted this performance audit in accordance with *Generally Accepted Government Auditing Standards.* Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our audit objectives.

The NTT assessment provided 72 recommendations divided into five categories. The most significant recommendations related to areas where the "**maturity**" of a scored element was at level two, on a scale of zero to level

five. NTT scored 34 of 72 of its recommendations as level two maturity. Maturity levels zero to five are defined in *Appendix 2*.

Details	# of Recommendations		
Recommendations Reported by NTT	34		
Data at Level 2			
Areas Remaining at Level 2, Verified	16		
by Internal Audit			
Recommendations Reported by NTT	38		
Data at Level 3			
Areas Remaining at Level 3, Verified	32		
by Internal Audit			

The cooperation of your staff during this review was greatly appreciated. If you have any comments or concerns on the conduct of this review, please let me know.

Sincerely,

Mark A. Poehl

Mark A. Poehl, CPA, CIA, CISA, CFE Director, Internal Audit and Compliance

### **PERFORMED BY:**

Aporajita Ahmed, CPA, CFE, CITP, CGMA, CICA, Cyber Security Professional, Internal Audit Lead

cc:

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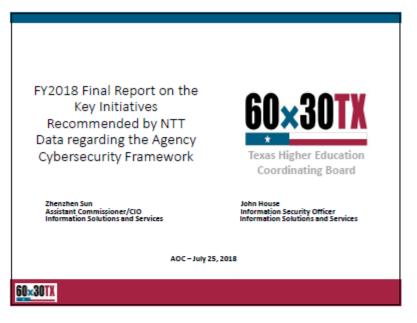
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## STATUTORY DISTRIBUTION REQUIREMENT

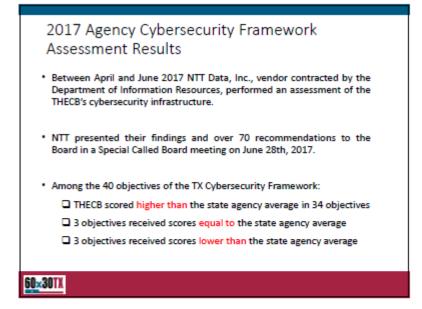
Legislative Budget Board Ms. Julie Ivie Governor's Office of Budget & Planning Mr. John Colyandro State Auditor's Office Internal Audit Coordinator Sunset Advisory Commission Ms. Jennifer Jones

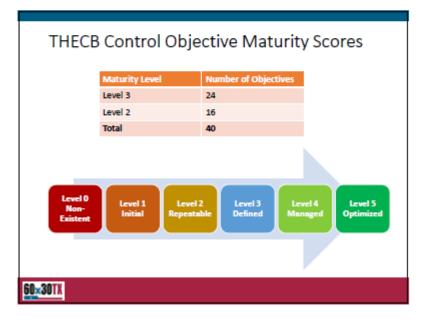
# Appendix 1

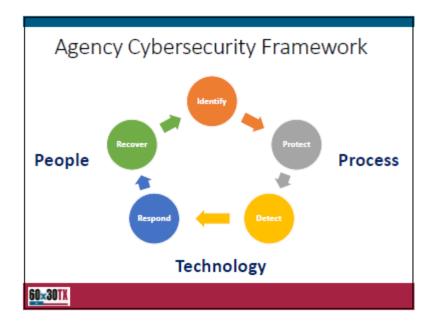
Status Update by THECB Management in July 25, 2018



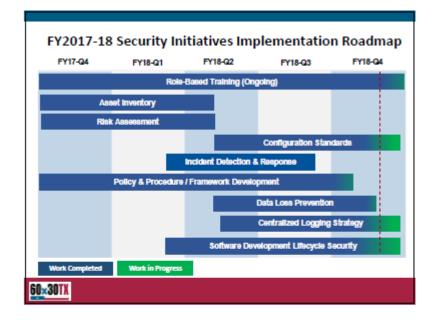


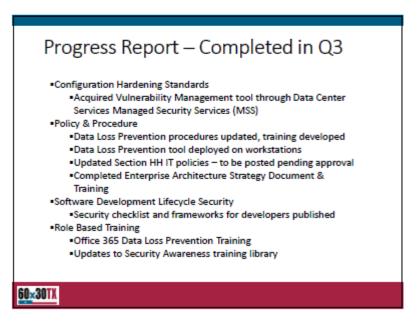




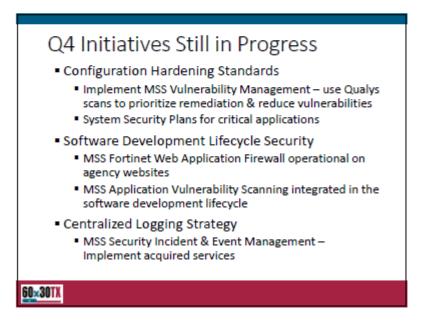


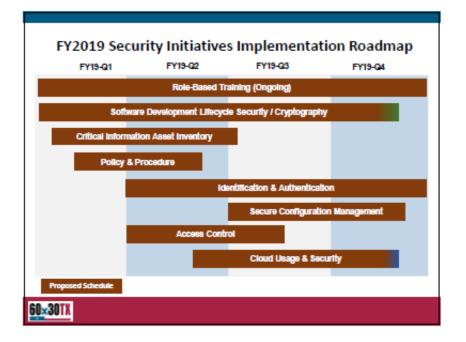






Objective	Control Area	2017	08/2018
Identify	Critical Information Asset Inventory	2	3
Identify	Information Security Risk Management	2	3
Identify	Security Compliance and Regulatory Requirements Management	2	3
Protect	Enterprise Architecture, Roadmap & Emerging Technology	2	3
Protect	Secure System Services, Acquisition and Development		3
Protect	Security Awareness and Training	2	3
Protect	Privacy Awareness and Training	2	3
Protect	Secure Configuration Management		3
Protect	Media		3
Protect	System Configuration Hardening & Patch Management		3
Protect	Data Loss Prevention		3
Protect	Identification & Authentication		3
Protect	System Communications Protection		3
Detect	Security Monitoring and Event Analysis		3
Respond	Cyber-Security Incident Response	2	3
Respond	Privacy Incident Response	2	3





# Appendix 2

Capability Maturity Model as developed by Department of Information Resources

Maturity Levels								
LEVEL 0: Non- Existent. There is no evidence of the organization meeting the objective.	LEVEL 1: Initial. The organization has an ad hoc, inconsistent, or reactive approach to meeting the objective.	LEVEL 2: Repeatable. The organization has a consistent overall approach to meeting the objective, but it is still mostly reactive and undocumented. The organization does not routinely measure or enforce policy compliance.	LEVEL 3: Defined. The organization has a documented, detailed approach to meeting the objective, and regularly measures its compliance.	LEVEL 4: Managed. The organization uses an established risk management framework to measure and evaluate risk and integrate improvements beyond the requirements of applicable regulations.	LEVEL 5: Optimized. The organization has refined its standards and practices focusing on ways to improve its capabilities in the most efficient and cost-effective manner.			
Control Objective Maturity Indicators								
•	1	2	3	4	5			