

AGENDA
TECHNICAL PANEL
Varner Hall - Board Room
3835 Holdrege Street
Lincoln, Nebraska
Tuesday, December 14, 2021
9:00 a.m. CT

- I. ROLL CALL; MEETING NOTICE; OPEN MEETINGS ACT INFORMATION
- II. PUBLIC COMMENT
- III. APPROVAL OF OCTOBER 26, 2021 MEETING MINUTES (*Attachment III*) *
- IV. REGULAR BUSINESS
 - A. PROJECTS
 - 1. Recommendations on project proposals submitted with the 2022 mid-biennium budget adjustments. (*Attachment IV-A-1*) *
 - 2. Enterprise project status dashboard report. Andy Weekly. (*Attachment IV-A-2*)
 - B. TECHNICAL STANDARDS AND GUIDELINES
 - 1. Proposal 21. Amend the web domain name standard. [Motion to recommend approval.] (*Attachment IV-B-1*) *
 - 2. Proposal 22. Amend access control provisions of the Information Security Policy. [Motion to recommend approval.] (*Attachment IV-B-2*) *
 - 3. Proposal 23. Adopt a new section relating to Internet of Things devices. [Motion to recommend approval.] (*Attachment IV-B-3*) *
- V. ELECTION OF TECHNICAL PANEL CHAIRPERSON FOR 2022. *
- VI. OTHER BUSINESS
- VII. ADJOURN

* Action item.

The Technical Panel will attempt to adhere to the sequence of the published agenda but reserves the right to adjust the order and timing of items and may elect to take action on any of the items listed. If you need interpreter services or other reasonable accommodations, please contact the Technical Panel at 402-471-3560 at least five days prior to the meeting to coordinate arrangements.

Meeting notice was posted to the [NITC website](#) and the [Nebraska Public Meeting Calendar](#) on November 23, 2021. The agenda was posted to the NITC website on December 10, 2021.

Attachment III

Nebraska Information Technology Commission
TECHNICAL PANEL
Varner Hall - Board Room
3835 Holdrege Street, Lincoln, Nebraska
Tuesday, October 26, 2021, 9:00 a.m. CT
MINUTES

MEMBERS PRESENT:

Kirk Langer, Chair, Lincoln Public Schools
Ed Toner, Chief Information Officer, State of Nebraska
Ling Ling Sun, Nebraska Educational Telecommunications
Jeremy Sydik, University of Nebraska

MEMBERS ABSENT: Bret Blackman, University of Nebraska, ITS

ROLL CALL; MEETING NOTICE; OPEN MEETINGS ACT INFORMATION

Mr. Langer called the meeting to order at 9:04 a.m. Roll call was taken. A quorum was present. Meeting notice was posted to the NITC website and the Nebraska Public Meeting Calendar on September 17, 2021. The agenda was posted to the NITC website on October 22, 2021. The Open Meetings Act was posted on the south wall of the meeting room, and a link to the act was included with the agenda.

PUBLIC COMMENT

There was no public comment.

APPROVAL OF JUNE 8, 2021 MEETING MINUTES

Mr. Langer had one correction: "Operability" should be "Interoperability" on page 1.

Mr. Toner moved to approve the June 8, 2021 meeting minutes with the correction. Ms. Sun seconded. Roll call vote: Toner-Yes, Sydik-Yes, Langer-Yes, and Sun-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

REGULAR BUSINESS

PROJECTS

Nebraska Regional Interoperability Network (NRIN) project update

Sue Krogman, NEMA and Jon Rosenlund, Vice Chair, NRIN Governance Board

Maps were distributed to the panel members to show the project's progress from 2018 to present. The network is built and completed one section at a time, and then tested before fully implemented. In addition, the network gets tested annually. Routers are updated every 10 years. NPPD is a partner for configuring equipment and maintenance of the network. Long-term sustainability of the network will be accomplished through federal funding and user fees. The Governance Board is made up of 2 representatives from each region. Each region maintains their own network. Security is vital to the network. It is anticipated that the network will be completed by August 2023 with an additional \$1.2 million budget.

Recommend designating the "Transfer of OPS Retirement Systems to NPERS" project as an enterprise project pursuant to NITC 1-206

Jack Hardy, IT Manager, Nebraska Public Employees Retirement Systems

Mr. Hardy provided an overview of the project and responded to questions from the panel.

Mr. Sydik moved to recommend designating the Transfer of OPS Retirement Systems to NPERS Project as an enterprise project. Mr. Toner seconded. Roll call vote: Sun-Yes, Langer-Yes, Sydik-Yes, and Toner-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

Enterprise project status dashboard report

Andy Weekly

NRIN project: Project provided their report today.

Centex Conversion, Office of the CIO: The project is having issues with porting lines. The information and record keeping has conflicting information. A meeting with all stakeholders is scheduled for November 1.

iServe Project, Department of Health and Human Services: The project will be submitting a current report today. Work Orders 1 and 2 have been completed. Work Order 3 discussions with vendor has dealt with requirements. These discussions are currently on hold.

Recommendations to the commission on project proposals submitted with the 2022 mid-biennium budget adjustments.

A single IT project was submitted with the budget requests. Individual reviewers will be assigned, and the panel will review the project at the December meeting.

TECHNICAL STANDARDS AND GUIDELINES

Proposal 20. Amend the remote access standard.

Proposal 20 has been posted for the 30-day public comment period. No comments were received. There were no questions from the panel members.

Mr. Sydik moved to recommend approval of Proposal 20. Mr. Toner seconded. Roll call vote: Toner-Yes, Sydik-Yes, Langer-Yes, and Sun-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

Proposal 21. Amend the web domain name standard.

Mr. Becker introduced Proposal 21.

Mr. Toner moved to post Proposal 21 for the 30-day public comment period. Mr. Langer seconded. Roll call vote: Sydik-Yes, Langer-Yes, Sun-Yes, and Toner-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

Proposal 22. Amend access control provisions of the Information Security Policy.

Mr. Wright introduced Proposal 22.

Mr. Sydik moved to post Proposal 22 for the 30-day public comment period. Ms. Sun seconded. Roll call vote: Toner-Yes, Sydik-Yes, Langer-Yes, and Sun-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

Proposal 23. Adopt a new section relating to Internet of Things devices.

Mr. Wright introduced Proposal 23.

Mr. Toner moved to post Proposal 23 for the 30-day public comment period. Ms. Sun seconded. Roll call vote: Sun-Yes, Langer-Yes, Sydik-Yes, and Toner-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

REQUESTS FOR WAIVER

Request for Waiver 21-01 by the Nebraska State Patrol from the requirements of NITC 8-403(3)

Mr. Wright provided background information about the request. Mr. Wright recommended approval of the waiver.

Mr. Sydik moved to approve Request for Waiver 21-01. Mr. Toner seconded. Roll call vote: Toner-Yes, Sydik-Yes, Langer-Yes, and Sun-Yes. Results: Yes-4, No-0, Abstained-0. Motion carried.

OTHER BUSINESS

There was no other business.

ADJOURN

Having no other business and without objection, the Chair adjourned the meeting.

The meeting was adjourned at 10:42 a.m.

Meeting minutes were taken by Lori Lopez Urdiales and review by Rick Becker, Office of the CIO/NITC.

Attachment IV-A-1

Technical Panel
of the
Nebraska Information Technology Commission

**2022 Mid-Biennium Budget Adjustments
Information Technology Project Proposals
Summary Sheets**

Project #	Agency	Project Title	FY2022	FY2023	Total
33-01	GAME & PARKS COMMISSION	Web-based Permit/Licensing System	\$ 600,000	\$ 1,200,000	\$ 1,800,000

(Full text of each project proposal: http://nitc.nebraska.gov/commission/project_proposals/2022.html)

33 Game and Parks Commission

Proposal Name: Web-based Permit/Licensing System

NITC ID: 33-01



PROJECT DETAILS

Project Contact: Troy Kroeger

Agency Priority: 1

Agency: 33 Game and Parks Commission

NITC Tier Alignment:

SUMMARY OF REQUEST

The State of Nebraska (State), Nebraska Game and Parks Commission (NGPC), is implementing a statewide, Web-Based Permit/Licensing replacement system, bid on RFP 6506-Z1 through DAS State Purchasing Bureau, that provides for automated permitting/licensing issuance, event registration, Customer Relationship Management (CRM), wildlife harvest reporting, Point of Sale (POS), and revenue management that supports all existing business processes. This system will include marketing solutions to assist NGPC in meeting Recruitment, Retention and Reactivation (R3) goals and objectives and interface with Social Media Platforms.

FINANCIAL SUMMARY

Expenditures

	Fiscal Year 2022	Fiscal Year 2023	Total
Contractual Services:	\$600,000.00	\$300,000.00	\$900,000.00
Telecommunications:	\$0.00	\$0.00	\$0.00
Training:	\$0.00	\$0.00	\$0.00
Project Costs:	\$0.00	\$900,000.00	\$900,000.00
Capital Expenditures:	\$0.00	\$0.00	\$0.00
Total Estimated Costs:	\$600,000.00	\$1,200,000.00	\$1,800,000.00

Comments:

Funding

	Fiscal Year 2022	Fiscal Year 2023	Total
General Fund:	\$0.00	\$0.00	\$0.00
Cash Fund:	\$600,000.00	\$1,200,000.00	\$1,800,000.00
Federal Fund:	\$0.00	\$0.00	\$0.00
Revolving Fund:	\$0.00	\$0.00	\$0.00
Other Fund:	\$0.00	\$0.00	\$0.00
Total Requested Funding:	\$600,000.00	\$1,200,000.00	\$1,800,000.00

Comments:

PROPOSAL SCORE

		Reviewer1	Reviewer2	Reviewer3	Average
Average	Goals, Objectives and Projected Outcomes (15)	15	15	12	14
	Project Justification / Business Case (25)	22	23	20	22
	Technical Impact (20)	13	15	15	14
	Preliminary Plan for Implementation (10)	10	8	10	9
	Risk Assessment (10)	10	9	7	9
	Financial Analysis and Budget (20)	0	18	10	9
	Total Score	70	88	74	77

REVIEWER COMMENTS

Goals, Objectives and Projected Outcomes

Review Score = 15/15

Strengths: A SaaS solution will allow for the seasonal capacity aspects of permit/licensing. Interface to JD Edwards. One central repository (back end database) for permit/licensing to allow for metrics and analytics.

Weaknesses:

Project Justification / Business Case

Review Score = 22/25

33 Game and Parks Commission

Proposal Name: Web-based Permit/Licensing System

NITC ID: 33-01



Strengths: Consolidation of systems. Eliminate large technical debt of existing application. Enhanced customer experience. Elimination of errors.

Weaknesses:

Technical Impact

Review Score = 13/20

Strengths: I agree with the decision to buy vs. build or modernize the current application. However, any application that has not been maintained and investment made will become a legacy issue. A legacy application is any software program that is outdated. Although the application may still work, it becomes unstable due to compatibility issues with current operating systems, browsers and technology infrastructures.

Weaknesses: Security - A new SaaS application does not guarantee security if appropriate agency controls are not in place. Access control protocols should have been followed with current system. Least privileged access and server security should have been maintained regardless of location of application (on-prem or cloud). These are not technical issues but rather agency policy issues that need to be addressed regardless of the platforms location or age.

Preliminary Plan for Implementation

Review Score = 10/10

Strengths:

Weaknesses:

Risk Assessment

Review Score = 10/10

Strengths: Azure environment - The State owns a direct connect which will increase security, reduce latency and reduce cost by bypassing the need for commodity internet.

Weaknesses: Agency must put appropriate internal policies in place as the Azure security features, while robust, still depend on personnel following appropriate security policies.

Financial Analysis and Budget

Review Score = 0/20

Strengths: Did not see budget proposal

Weaknesses:

Goals, Objectives and Projected Outcomes

Review Score = 15/15

Strengths: Clear and concise. Detailed listing of beneficiaries.

Weaknesses:

Project Justification / Business Case

Review Score = 23/25

Strengths: Overall good business justification.

Weaknesses: No explanation of how revenue will be increased with a new system.

Technical Impact

Review Score = 15/20

Strengths:

Weaknesses: Vague. Very limited actual detailed technical information.

Preliminary Plan for Implementation

Review Score = 8/10

Strengths:

Weaknesses: May be too aggressive a timeline.

Risk Assessment

Review Score = 9/10

Strengths: Good Risk Assessment overall, with planned heavy reliance on well established security practices.

Use of Azure environment will be a good dependable solution so long as it doesn't suffer outages.

Weaknesses: Microsoft environments are generally more susceptible to vulnerabilities than are open environments such as Java.

Financial Analysis and Budget

Review Score = 18/20

Strengths: Clearly laid out Financial expectations.

Weaknesses: Considerable expense for a SAAS solution. Assumption is heavy custom coding/development for such costs.

Goals, Objectives and Projected Outcomes

Review Score = 12/15

Strengths: The goals and anticipated outcomes are clearly enumerated. Further, PCI and statutory compliance is addressed while offering a more user-friendly environment to patrons.

Weaknesses: It is unfortunate that the method of data interchange is confined to data extracts rather than an API or web services method.

Project Justification / Business Case

Review Score = 20/25

33 Game and Parks Commission

Proposal Name: Web-based Permit/Licensing System

NITC ID: 33-01



Strengths: There are clear advantages associated with an integrated SaaS environment that offers a full range of services to the agency, patrons, and state accounting while obviating a homegrown environment with several interfaces.

Weaknesses: It is difficult with the explanation provided to determine the value as a function of ROI, reduction of risk and complexity. It's clear that this is an important project undertaking but it is less clear to an outside reviewer provided with scant information whether the costs are justified.

Technical Impact

Review Score = 15/20

Strengths: This is a COTS solution delivered in a SaaS environment. Much of the technical impact related to data privacy, information security, and system availability are addressed contractually rather than as a function of agency effort.

Weaknesses: The data interfaces associated with SaaS environments are often non-trivial to develop and maintain. There is inadequate information about this to determine the technical impact.

Preliminary Plan for Implementation

Review Score = 10/10

Strengths: While I did not have the attached document, based on the information shared in the other sections I assigned the associated score.

Weaknesses: None noted.

Risk Assessment

Review Score = 7/10

Strengths: The information provided does a good job of covering risk associated with information security, cyber security, and threat response.

Weaknesses: The information provided does not address issues of change management including an alignment of human and temporal resources with project timelines.

Financial Analysis and Budget

Review Score = 10/20

Strengths: Project costs are delineated into separate "buckets" associated with implementation and, ostensibly, ongoing operational, licensing and maintenance costs.

Weaknesses: The only explanation of the costs is the row and column headings. It is impossible from the information provided to determine whether the costs are reasonable.

TECHNICAL PANEL COMMENTS

Does the project: (a) create efficiencies and/or (b) reduce or eliminate risks?

Is the proposed technology appropriate for the project?

Can the technical elements be accomplished within the proposed timeframe and budget?

Tier Recommendation:

Comments:

NITC COMMENTS

AGENCY RESPONSE (OPTIONAL)

Attachment IV-A-2

Projects Status Dashboard

December 2021

Enterprise Projects - Current

Agency/Entity	Project	NITC Designated
Nebraska Council of Regions	Nebraska Regional Interoperability Network	03/15/2010
Office of the CIO	Centrex Replacement	07/12/2018
Department of Health and Human Services	iServe Nebraska	11/12/2020
Department of Transportation	Financial Systems Modernization Project	07/08/2021
Nebraska Public Employees Retirement Systems	OPS Retirement Plan Management Transfer	11/04/2021

Note: Status is self-reported by the agency

Project Storyboard: Nebraska Regional Interoperability Network (NRIN)

Project Manager	Krogman, Sue	Status Report Date	12/8/21
Project Type	Major Project	Status	Approved
Stage	Build	Progress	Started
Total Estimated Cost	\$12,500,000.00	Estimate to Complete	83.24%
Actual Cost To Date	\$10,405,204.00		

Project Dates		
	Start	Finish
Plan	10/1/10	8/31/23
Baseline	10/1/10	8/31/23
Days Late	0	0

Status Report Indicators		
Overall		
Schedule		
Scope		
Cost and Effort		

Project Description

The Nebraska Regional Interoperability Network (NRIN) is a project that will connect a majority of the Public Safety Access Points (PSAP) across the State by means of a point to point microwave system. The network will be a true, secure means of transferring data, video and voice. Speed and stability are major expectations; therefore there is a required redundant technology base of no less than 100 mbps with 99.999% availability for each site. It is hoped that the network will be used as the main transfer mechanism for currently in-place items, thus imposing a cost-saving to local government. All equipment purchased for this project is compatible with the networking equipment of the OCIO.

Key Accomplishments

Approval for the Richardson County tower was finalized and work will now start on hanging approved equipment.

Status Report Update

UPDATE FOR DECEMBER 2021 – Contract issues slowed the installation progress down a little bit for these past 2 months. However, structural tests as well as path calculations were able to be done. Approval for the Richardson County tower was finalized and work will now start on hanging approved equipment.

UPDATE FOR OCTOBER 2021 – Work has continued in the SE corner, specifically the Richardson County area – installation has stopped due to an FAA request on the new tower site. Fiber installations were completed in the North Central area and this has given the network 3 more redundant rings.

Upcoming Activities

Issues by Priority	Risks by Priority

Current Issues

No matching records were found

Project Storyboard: Centrex Conversion

Project Manager	Kortus, Julie	Status Report Date	12/6/21
Project Type	Major Project	Status	Approved
Stage	Build	Progress	Started
Total Estimated Cost	\$2,800,000.00	Estimate to Complete	33.34%
Actual Cost To Date	\$933,481.12		

Project Dates		
	Start	Finish
Plan	10/10/17	12/31/22
Baseline	10/10/17	12/31/22
Days Late	0	0

Status Report Indicators		
Overall		
Schedule		
Scope		
Cost and Effort		

Project Description
 To secure the most cost efficient Hosted Voice Over Internet Protocol Telephony (VOIP) Services. This solution will replace the State's Centrex service throughout the State of Nebraska. The purpose of the project is to provide phone service that includes the most up-to-date VOIP features and functionality as a hosted service with equipment ownership, maintenance and service remaining with the Contractor.

Key Accomplishments
 ALLO has a dedicated resource to assist with walkthroughs, working with the end customer, and creating orders. Progress has been made with Lumens on porting requests being approved. Since last report 340 lines have been ported to Allo VoIP.

Status Report Update
 As of 12/3/2021:
 8857 lines have been removed from Windstream and CenturyLink.
 400 lines belong to agencies that will not be converting
 614 lines were moved off of the Centrex contracts and onto new B1 contracts.

 10,000 lines were in the RFP to be taken off of the Centrex contracts from Windstream and CenturyLink territory.

 Project is 98.7% complete.

 In parallel with this project, over 1000 softphones have been deployed using the same resources assigned to this project.

Upcoming Activities
 One port (17 lines) for Dept. of Correctional Services is scheduled for December 10
 One port (10 lines) for Dept. of Motor Vehicles is scheduled for December 16

Issues by Priority

Risks by Priority

Current Issues					More Issues...
Issue	Priority	Status	Target Resolution	Owner	
Lumen port rejections		Open	12/1/21	Kortus, Julie	

Project Storyboard: iServe Nebraska

Project Manager	Agarwal, Ankush	Status Report Date	12/9/21
Project Type	Major Project	Status	Approved
Stage	Design	Progress	Started
Total Estimated Cost	\$33,524,476.00	Estimate to Complete	30.18%
Actual Cost To Date	\$10,117,688.00		

Project Dates		
	Start	Finish
Plan	4/6/20	5/4/22
Baseline	4/6/20	4/30/22
Days Late	4	4

Status Report Indicators		
Overall		
Schedule		
Scope		
Cost and Effort		

Project Description

The Nebraska Department of Health and Human Services (DHHS) has embarked on the iServe Nebraska Program to improve access, outcomes, cost, accountability and quality of DHHS services through an integrated, consumer-centric model of practice, across all programs. DHHS intends the iServe Nebraska Program to be adaptive and incrementally deliver new business capabilities, enabling the state to move from a siloed and program-based business model, to an integrated service delivery model that is family and person-centered, focused on improving the overall health and well-being of all family members.

Key Accomplishments

Work Order 1 (Planning Review & Refinement) is complete.
 Work Order 2 (User Experience Design) is complete.
 Work Order 3 (Core Portal Development) is in progress; behind schedule.
 Work Order 4 (Identity and Access Management) is in final review.
 Program Increment 1 and 2 are complete.
 Program Increment 3 is in progress; 2 out of 4 sprints are complete.
 Security Assessment and Language Translation vendors selection are complete; procurement in progress.
 State contingency development team hiring is in progress to mitigate vendor delays.

Status Report Update

Work Orders 1 and 2 are complete. Work Order 3 activities are behind schedule. Work Order 4 activities are on track.

Upcoming Activities

Vendor to complete WO3 planned deliverables for PI3 by 12/31.
 Complete hiring of State contingency development team.
 Complete Work Order 4 (Identity and Access Management).
 Complete Security Assessment documentation inventory and vendor procurement.
 Complete Language Translation vendor onboarding and integration work.
 Complete Program Increment 3, Sprints 3 and 4.
 Complete Program Increment 4 planning and start sprinting.

Issues by Priority

Risks by Priority

Current Issues

No matching records were found

Project Storyboard: NDOT Financial System Modernization

Project Manager	Townsend, Devin	Status Report Date	11/22/21
Project Type	Major Project	Status	Approved
Stage	Design	Progress	Not Started
Total Estimated Cost	null	Estimate to Complete	
Actual Cost To Date			

Project Dates		
	Start	Finish
Plan	4/1/22	4/1/22
Baseline		
Days Late	0	0

Status Report Indicators		
Overall		
Schedule		
Scope		
Cost and Effort		

Project Description
 NDOT Financial System Modernization

Key Accomplishments

Status Report Update
 NDOT will start some internal work to prepare for the move, but the official E1 Implementation project isn't scheduled to begin until April 2022.

Upcoming Activities

Issues by Priority

Risks by Priority

Current Issues
 No matching records were found

Project Storyboard: OPS Retirement Plan Management Transfer

Project Manager	Hardy, Jack	Status Report Date	12/2/21
Project Type	Major Project	Status	Approved
Stage	Requirements	Progress	Started
Total Estimated Cost	\$4,200,000.00	Estimate to Complete	
Actual Cost To Date			

Project Dates		
	Start	Finish
Plan	10/1/21	8/31/24
Baseline	10/1/21	8/31/24
Days Late	0	0

Status Report Indicators		
Overall		
Schedule		
Scope		
Cost and Effort		

Project Description
 NPERS OPS (Omaha Public School) project - data and document migration from the OPS environment to NPRIS and OnBase.

Key Accomplishments

Status Report Update
 The current status of the OPS Management Transfer project:
 1) The statement of work with Gartner Consulting for procurement services was added to the State contract and signed by Gartner and the NPERS director.
 2) Paul Minor, Christy Rinaldi and Diana Woronuk are resources currently working on the project
 3) A work plan for the project is due to the legislature by 12/31/2021. Gartner has developed a template for the plan which has been approved by the NPERS director. Work on the plan is underway.
 4) The project readiness assessment is underway using the Gartner methodology. One of the first steps is a readiness assessment survey which will be completed by the project stakeholders. The survey is currently being developed.
 5) A meeting with kickoff meeting with project stakeholders is scheduled for December 6.

Upcoming Activities

Issues by Priority	Risks by Priority
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Current Issues
 No matching records were found

Attachment IV-B-1

**State of Nebraska
Nebraska Information Technology Commission
Technical Standards and Guidelines**

Proposal 21

A PROPOSAL relating to domain names; to amend section 7-104; and to repeal the original section.

1 Section 1. Section 7-104 is amended to read:

2 **7-104. Web domain name standard.**

3 (1) The approved domain names for Nebraska state government websites are
4 “nebraska.gov” and “ne.gov.” The Chief Information Officer may approve other domain names
5 using the .gov top level domain.

6 (2) The domain “state.ne.us” is a supported legacy domain that may serve content but
7 should not be publicly promoted.

8 (3) Domain names using top level domains other than those listed in subsections (1) and (2)
9 may be registered and serve content but must not ~~serve content nor~~ be publicly promoted.

10 (4) All state government websites using the .gov domain must comply with federal .gov
11 domain requirements (<https://home.dotgov.gov/registration/requirements/>).

12 (5) All domain name registrations, purchases, and renewals must be made by the Office of
13 the CIO.

14 Sec. 2. Original section 7-104 is repealed.

15 Sec. 3. This proposal takes effect when approved by the commission.

Attachment IV-B-2

State of Nebraska
Nebraska Information Technology Commission
Technical Standards and Guidelines

Proposal 22

A PROPOSAL relating to access control provisions of the Information Security Policy; to amend sections 8-303 and 8-304; and to repeal the original sections.

1 Section 1. Section 8-303 is amended to read:

2 **8-303. Identification and authorization.**

3 (1) All employees and other persons performing work on behalf of the state, authorized to
4 access any state information or IT resources, that have the potential to process, store, or
5 access non-public information, must be assigned a unique State of Nebraska user ID which
6 resides in the State of Nebraska Active Directory domain with the minimum necessary access
7 required to perform their duties to align with the least privilege methodology.

8 (2) Staff are required to secure their user IDs from unauthorized use.

9 (3) Sharing user IDs is prohibited.

10 (4) To reduce the risk of accidental or deliberate system misuse, separation of duties must
11 be implemented where practical. Whenever separation of duties is impractical, other
12 compensatory controls such as monitoring of activities, increased auditing and management
13 supervision must be implemented. At a minimum, the audit of security must remain independent
14 and segregated from the security function.

15 Sec. 2. Section 8-304 is amended to read:

16 **8-304. Privileged access accounts.**

17 Privileged access accounts include administrator accounts, embedded accounts used by
18 one system to connect to another, and accounts used to run service programs. These accounts

1 are used by systems and personnel to access sensitive files, execute software, load and
2 configure policies and configuration settings, and set up or maintain accounts.

3 Due to the elevated access levels these accounts typically have, the following standards
4 and procedures must be followed to minimize the risk of incidents caused by these accounts:

5 (1) All privileged access accounts must be assigned to an individual with an approved
6 business need for the privileged access. These accounts must not be shared;

7 (1)(2) Service accounts must not be used to interactively log in to a system or resource;

8 (2)(3) Default administrator accounts must be renamed, removed or disabled. Default
9 passwords for renamed or disabled default administrator accounts must be changed;

10 (3)(4) Default system account credentials for hardware and software must be either
11 disabled, or the password must be changed. Use of anonymous accounts is prohibited, and
12 unassigned accounts must be assigned to an individual prior to use. When no longer needed,
13 the account must be disabled. At all times, the state requires individual accountability for use of
14 privileged access accounts;

15 (4)(5) Privileged access accounts ~~will~~ must have enhanced activity logging enabled and
16 reviewed at least quarterly. ~~The Office of the CIO and all applicable agencies will perform a~~
17 ~~quarterly review of privileged access account activity;~~

18 (5)(6) Privileged access through remote channels will be allowed for authorized
19 purposes only and must include multi-factor authentication;

20 (6)(7) Passwords for these accounts must be changed every 60 days;

21 (7)(8) The password change process must support recovery of managed systems from
22 backup media. Historical passwords should remain accessible in a history table in the event that
23 they are needed to activate a backup copy of a system; and

24 (8)(9) Privileged access accounts must be approved, provisioned, and maintained by
25 the Office of the CIO.

26 Sec. 3. Original sections 8-303 and 8-304 are repealed.

1

Sec. 4. This proposal takes effect when approved by the commission.

Attachment IV-B-3

State of Nebraska
Nebraska Information Technology Commission
Technical Standards and Guidelines

Proposal 23

A PROPOSAL to adopt a new section relating to Internet of Things devices.

1 Section 1. The following new section is adopted:

2 **7-106. Internet of Things (IoT) standard.**

3 This policy provides standards for Internet of Things (IoT) devices within the state network.
4 IoT devices include but are not limited to door controls, cameras, and wireless sensors. While
5 the benefits of IoT devices are numerous and compelling, it is important to remember that these
6 devices have the potential to introduce significant threats and risks to the state network. IoT
7 devices do not follow an international compatibility standard leaving them more exposed to
8 vulnerabilities. The State of Nebraska must properly govern and manage deployment IoT
9 devices.

10 The following are the minimum standards for IoT devices on the state network:

11 (1) IoT devices must be approved the Office of the CIO prior to being put on the state
12 network;

13 (2) IoT devices must be isolated from business operations on the state network;

14 (3) IoT devices must support either username/password or certificate-based authentication;

15 (4) IoT devices must support a minimum of TLS 1.2;

16 (5) IoT devices must have the ability to be managed at the enterprise level;

17 (6) IoT devices must allow for NTP and DNS to be set by administrators;

18 (7) IoT device access must be limited to only what is necessary;

1 (8) Network traffic for IoT devices should not be prioritized over normal business operations
2 unless the IoT device impacts emergency services or public safety; and

3 (9) Wired connections for IoT devices are preferred over wireless connections when
4 possible.

5 Sec. 2. This proposal takes effect when approved by the commission.