

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

Broadcast via Zoom: <https://nebraska.zoom.us/j/96163900276>

- I. ROLL CALL; MEETING NOTICE; OPEN MEETINGS ACT INFORMATION
- II. PUBLIC COMMENT
- III. APPROVAL OF JUNE 8, 2021 MEETING MINUTES (*Attachment III*) \*
- IV. REGULAR BUSINESS
  - A. PROJECTS
    - 1. Nebraska Regional Interoperability Network (NRIN) project update. Sue Krogman.
    - 2. 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 System. \*
    - 3. Enterprise project status dashboard report. Andy Weekly. (*Attachment IV-A-3*)
    - 4. Recommendations to the commission on project proposals submitted with the 2022 mid-biennium budget adjustments. \*
  - B. TECHNICAL STANDARDS AND GUIDELINES
    - 1. Proposal 20. Amend the remote access standard. [Motion to recommend approval.] (*Attachment IV-B-1*) \*
    - 2. Proposal 21. Amend the web domain name standard. [Motion to post for 30-day comment period.] (*Attachment IV-B-2*) \*
    - 3. Proposal 22. Amend access control provisions of the Information Security Policy. [Motion to post for 30-day comment period.] (*Attachment IV-B-3*) \*
    - 4. Proposal 23. Adopt a new section relating to Internet of Things devices. [Motion to post for 30-day comment period.] (*Attachment IV-B-4*) \*
  - C. REQUESTS FOR WAIVER
    - 1. Request for Waiver 21-01. Request by the Nebraska State Patrol for a waiver from the requirements of NITC 8-403(3). \*  
[Note: This agenda item may require the panel to hold a closed session pursuant to Neb. Rev. Stat. § 84-1410.]
- V. OTHER BUSINESS
- VI. 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 September 17, 2021. The agenda was posted to the NITC website on October 22, 2021.

[Nebraska Open Meetings Act](#) | [Technical Panel Meeting Documents](#)

# Attachment III

**TECHNICAL PANEL**  
Varner Hall - Board Room  
3835 Holdrege Street, Lincoln, Nebraska  
Tuesday, June 8, 2021, 9:00 a.m. CT  
**MINUTES**

**MEMBERS PRESENT:**

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

**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. The meeting notice was posted to the NITC website and the Nebraska Public Meeting Calendar on May 26, 2021. The agenda and meeting documents were posted to the NITC website on June 4, 2021. The Nebraska Open Meetings Act was posted on the south wall of the room.

**PUBLIC COMMENT**

There was no public comment.

**APPROVAL OF APRIL 13, 2021 MEETING MINUTES**

**Ms. Sun moved to approve the April 13, 2021 meeting minutes as presented. Mr. Blackman seconded. Roll call vote: Toner-Yes, Sydik-Yes, Langer-Yes, Blackman-Yes, and Sun-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

**ENDORSE AMENDMENT TO THE TECHNOLOGY ACCESS CLAUSE**

Mr. Becker introduced the amendment and provided background information. The technology access clause—endorsed by the Technical Panel at the April 13, 2021 meeting—was reviewed by the Nebraska Commission for the Blind and Visually Impaired at their meeting on April 24, 2021. The commission amended the clause by inserting the word “this” before the word “section” in the last sentence of section 2. The change is a correction to a drafting error. The commission also adopted a motion to have the clause reviewed every odd-numbered year. Mr. Sydik provided additional background information.

Mr. Toner indicated his endorsement of the clause with the proposed amendment.

**Mr. Sydik moved to endorse the amendment to the technology access clause. Mr. Langer seconded. Roll call vote: Sun-Yes, Blackman-Yes, Langer-Yes, Sydik-Yes, and Toner-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

**REGULAR BUSINESS**

**PROJECTS**

Enterprise project status dashboard. Andy Weekly. Mr. Weekly provided updates on the following projects: Nebraska Regional Operability Network (NRIN), Centrex Conversion, and iServe Nebraska. After questions and discussions, the panel members requested that the NRIN project provide a report at the next meeting. Mr. Weekly will gather questions from the panel members for the project’s report.

**TECHNICAL STANDARDS AND GUIDELINES**

Patrick Wright, State Information Security Officer

**Proposal 19. Amend the minimum server configuration standard.**

There were no public comments received during the 30-day comment period. Mr. Wright entertained questions from the panel members.

**Mr. Toner moved to recommend approval of Proposal 19. Mr. Blackman seconded. Roll call vote: Langer-Yes, Blackman-Yes, Sun-Yes, Toner-Yes, and Sydik-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

**Proposal 20. Amend the remote access standard.**

Mr. Wright introduced the proposal. Members discussed the proposal.

**Mr. Toner moved to post Proposal 20 for the 30-day comment period. Ms. Sun seconded. Roll call vote: Blackman-Yes, Langer-Yes, Sydik-Yes, Toner-Yes, and Sun-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

**WORKGROUP UPDATES**

Intergovernmental Data Communications Workgroup. A copy of the NASCIO 2021 State IT Recognition Awards nomination submission was included with the meeting documents.

**OTHER BUSINESS**

Mr. Becker reported on the passage of LB83 and the resulting changes to the Open Meetings Act.

**ADJOURN**

**Mr. Blackman moved to adjourn. Mr. Toner seconded. All were in favor. Motion carried.**

The meeting was adjourned at 10:55 a.m.

Meeting minutes were taken by Lori Lopez Urdiales and reviewed by Rick Becker of the Office of the CIO.

## Attachment IV-A-3

# Projects Status Dashboard

October 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

**Note: Status is self-reported by the agency**

# Project Storyboard: Nebraska Regional Interoperability Network (NRIN)

Project Manager	Krogman, Sue	Status Report Date	10/21/21
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	8/31/21
Baseline	10/1/10	8/31/21
Days Late	52	52

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**

Fiber installations were complete in the North Central area and has given the network 3 more redundant rings.

**Status Report Update**

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.

UPDATE FOR MAY 2021 – Work priority has shifted to the far SE corner of the state. Requests have been made to finish up the Pawnee City to Falls City path in order to enable the City of Beatrice to dispatch for them. Line of sights have been driven and the Path Analysis are being completed. In the NC Region of the state, fiber is being added to the network and four major paths across the sandhills are in the process of being installed. This will enable a greater portion of the NC Region to have great coverage for the network.

**Upcoming Activities**

The project work has shifted to the southeast corner of the State (Richardson County)

Issues by Priority	Risks by Priority

**Current Issues**

No matching records were found



# Project Storyboard: Centrex Conversion

Project Manager	Kortus, Julie	Status Report Date	10/20/21
Project Type		Status	Approved
Stage	Build	Progress	Started
Total Estimated Cost	\$2,800,000.00	Estimate to Complete	93.80%
Actual Cost To Date	\$828,719.99		

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

**Status Report Update**  
 As of 10/5/2021:  
 8370 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 contract and onto a new B1 contract.  
  
 10,000 lines were in the RFP to be taken off of the Centrex contracts from Windstream and CenturyLink territory.  
  
 Project is 93.8% complete.  
  
 In parallel with this project, over 1000 softphones have been deployed using the same resources assigned to this project.

**Upcoming Activities**  
 11/01/2021: Meeting with the PSC/OCIO/ALLO/Lumen.

**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	9/22/21
Project Type	Major Project	Status	Approved
Stage	Design	Progress	Started
Total Estimated Cost	\$11,200,000.00	Estimate to Complete	16.96%
Actual Cost To Date	\$1,900,000.00		

Project Dates		
	Start	Finish
Plan	4/6/20	4/30/22
Baseline	4/6/20	9/30/21
Days Late	212	212

Status Report Indicators		
Overall		
Schedule		
Scope		
Cost and Effort		

**Project Description**  
 IHHS - Clarity Plan for IS&T Contractors Timesheets JC 266171 WO 266110 April 2020 thru Sept 30 2021. 7/28/2020 Project Name & Timesheets Change to iServe JC/WO number remained same. 10/21/20 PM name from Annette Pilcher to Ankush Agarwal 09/14/2021 - Changing WO to 266130 for PAPD to IAPD funding shift

**Key Accomplishments**  
 Work Order 1 (Planning Review & Refinement) is complete.  
 Work Order 2 (User Experience Design) is complete.  
 Work Order 3 (Core Portal Development) in Progress; Benefit Discovery Min. Submission, Automated Testing in Progress and Procurement discussion for Language Translation Software, including OCIO talks.  
 Work Order 4 (Identity and Access Management) Launched 9/13, Provides infrastructure for Applicant User Account setup/maintenance.  
 Program Increment one (1) - Completed  
 Program Increment two (2) Sprint 1 Complete.

**Status Report Update**  
 Key Activities on Track. Work Orders 1, and 2 are complete. Work Orders 3 and 4 are underway. Core Portal development has started.

**Upcoming Activities**  
 Vendor for Work Order 4 (Identity and Access Management).  
 Complete Government cloud environment build out.  
 Prepared quarterly funding update for CMS and FNS.  
 Program Increment 2 planning and development work in checkout/testing  
 Program Increment 3 planning 3 days complete and 1 to continue.  
 Continue Identity and Access Management work with Work Order 4 Vendor.

Issues by Priority	Risks by Priority

**Current Issues**  
 No matching records were found

# Attachment IV-B-1

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

**Proposal 20**

A PROPOSAL relating to the Information Security Policy; to amend subsection (134) of section 1-101 and section 8-301; and to repeal the original sections.

1 Section 1. Subsection (134) of section 1-101 is amended to read:

2 (134) “State network” ~~has the same meaning as communications system~~means the  
3 public or private IP space that is owned, registered to, or managed by the State of Nebraska  
4 wherein restrictions are established to promote a secured environment.

5 Sec. 2. Section 8-301 is amended to read:

6 **8-301. Remote access.**

7 It is the responsibility of all agencies to strictly control remote access from any device that  
8 connects from outside of the state network to a desktop, server or network device inside the  
9 state network and ensure that employees, contractors, vendors and any other agent granted  
10 remote access privileges to any state network utilize only approved secure remote access tools  
11 and procedures.

12 ~~—The following standards apply to all staff that connect to the state network through the~~  
13 ~~Internet. This includes all approved work from home arrangements requiring access to state~~  
14 ~~systems and agency office locations that use the Internet to access the state network. Each~~  
15 ~~state agency will be responsible for ensuring that remote access to state resources is secured~~  
16 ~~and compliant with this policy.~~

17 (1) The following are the ~~general~~ requirements for remote access:

1        (1) Requests for remote access must be reviewed and approved by the state information  
2 security officer and the agency information security officer prior to access being granted  
3 and the Office of the CIO;

4        (2) All remote sessions must use access control credentials and an OCIO-approved form of  
5 multi-factor authentication;

6        (3) All remote sessions must utilize OCIO-approved cryptographic mechanisms as defined  
7 by NIST 800-140 to protect the confidentiality and integrity of remote access sessions;

8        (4) All remote sessions over open public networks must use a VPN when connecting to the  
9 state network;

10        ~~(a)~~

11        ~~(b) Staff approved for remote connectivity are required to comply with all policies and~~  
12 ~~standards;~~

13        (5) All devices connecting to the network must have up-to-date anti-virus protection, active  
14 firewalls, and appropriate security patch levels equivalent to those provided for state equipment;

15        ~~(e)~~(6) All remote state owned or managed devices must be password protected and  
16 full-disk encrypted using OCIO-approved technology;

17        ~~(d)~~(7) All remote access sessions must be logged. The Office of the CIO or the agency  
18 will perform periodic monitoring of remote access sessions with random inspections of the user  
19 security settings and protocols to ensure compliance with this policy;

20        ~~(e)~~(8) Remote access logon failures must be logged. Credentials must be disabled after  
21 three (3) consecutive failed login attempts;

22        (9) Remote sessions must be locked after no more than 15 minutes of inactivity until the  
23 user re-establishes access with the appropriate credentials and authentication procedures; and

24        (10) Mechanisms must be employed to ensure personally identifiable information, or  
25 other sensitive information (e.g. SSA, FTI, PII, PHI) cannot be downloaded or remotely stored;

26 and

1        ~~(f)(11) \_\_\_\_\_ Restricted data types cannot be accessed by agency employees, agents,~~  
2 ~~representatives, or contractors located offshore—outside of the United States territories,~~  
3 ~~embassies or military installations.~~

4        ~~(g) Staff with remote access privileges must ensure that their computer which is remotely~~  
5 ~~connected to the state network, is not connected to any other network at the same time, except~~  
6 ~~for personal networks that are under the complete control of the user.~~

7        ~~(2) The following are additional requirements for remote access to data classified as~~  
8 ~~CONFIDENTIAL or RESTRICTED:~~

9        ~~(a) Requests for remoted access must indicate if CONFIDENTIAL or RESTICTED data may~~  
10 ~~be accessed;~~

11        ~~(b) Mechanisms must be employed to ensure personally identifiable information, or other~~  
12 ~~sensitive information cannot be downloaded or remotely stored;~~

13        ~~(c) All state owned or managed devices must be password protected and full-disk encrypted~~  
14 ~~using approved technology. Encryption technology must be provided or approved by the Office~~  
15 ~~of the CIO; and~~

16        ~~(d) Remote sessions that store, process, or access CONFIDENTIAL or RESTRICTED~~  
17 ~~information or systems must use access control credentials and an approved form of multi-~~  
18 ~~factor authentication before connecting to the state network. Remote sessions must employ~~  
19 ~~Office of the CIO approved cryptography during the entire session when connected to the state~~  
20 ~~network.~~

21        Sec. 3. Original sections 1-101 and 8-301 are repealed.

22        Sec. 4. 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 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-3

**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-4

**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.