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. *


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
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.
## Enterprise Projects - Current

<table>
<thead>
<tr>
<th>Agency/Entity</th>
<th>Project</th>
<th>NITC Designated</th>
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<tbody>
<tr>
<td>Nebraska Council of Regions</td>
<td>Nebraska Regional Interoperability Network</td>
<td>03/15/2010</td>
</tr>
<tr>
<td>Office of the CIO</td>
<td>Centrex Replacement</td>
<td>07/12/2018</td>
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<tr>
<td>Department of Health and Human Services</td>
<td>iServe Nebraska</td>
<td>11/12/2020</td>
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Note: Status is self-reported by the agency
### Project Storyboard: Nebraska Regional Interoperability Network (NRIN)

<table>
<thead>
<tr>
<th>Project Manager</th>
<th>Krogman, Sue</th>
<th>Status Report Date</th>
<th>10/21/21</th>
</tr>
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<tbody>
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<td>Status</td>
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<tr>
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<tr>
<td><strong>Progress</strong></td>
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</tr>
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#### Project Dates
- **Plan**: Start 10/1/10, Finish 8/31/21
- **Baseline**: Start 10/1/10, Finish 8/31/21
- **Days Late**: 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

<table>
<thead>
<tr>
<th>Project Manager</th>
<th>Status Report Date</th>
<th>Project Dates</th>
<th>Status Report Indicators</th>
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<tbody>
<tr>
<td>Kortus, Julie</td>
<td>10/20/21</td>
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<th>Project Type</th>
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<td>$2,800,000.00</td>
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<td>93.80%</td>
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<th>Total Estimated Cost</th>
<th>Status</th>
<th>Progress</th>
<th>Estimate to Complete</th>
<th>Days Late</th>
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<td>93.80%</td>
<td>0</td>
</tr>
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</table>

## 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
![Issue 1]

## Risks by Priority
![Risk 1]

## Current Issues
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<th>Issue</th>
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<th>Status</th>
<th>Target Resolution</th>
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</thead>
<tbody>
<tr>
<td>Lumen port rejections</td>
<td></td>
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<td>12/1/21</td>
<td>Kortus, Julie</td>
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## More Issues...

Date: 10/22/21, 7:13:13 AM
### Project Storyboard: iServe Nebraska

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#### Project Dates

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<tr>
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<th>Start</th>
<th>Finish</th>
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<tbody>
<tr>
<td>Baseline</td>
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<td>9/30/21</td>
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<tr>
<td>Days Late</td>
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<td>212</td>
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#### Status Report Indicators

<table>
<thead>
<tr>
<th>Overall</th>
<th>Schedule</th>
<th>Scope</th>
<th>Cost and Effort</th>
</tr>
</thead>
</table>

#### 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.
- 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.

#### 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.

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

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

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

8-301. Remote access.

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

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

(1) The following are the general requirements for remote access:
(1) Requests for remote access must be reviewed and approved by the state information security officer and the agency information security officer prior to access being granted and the Office of the CIO;

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

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

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

(a)

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

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

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

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

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

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

(10) Mechanisms must be employed to ensure personally identifiable information, or other sensitive information (e.g. SSA, FTI, PII, PHI) cannot be downloaded or remotely stored; and
Restricted data types cannot be accessed by agency employees, agents, representatives, or contractors located offshore—outside of the United States territories, embassies or military installations. 

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

The following are additional requirements for remote access to data classified as CONFIDENTIAL or RESTRICTED:

(a) Requests for remoted access must indicate if CONFIDENTIAL or RESTRICTED data may be accessed;

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

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

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

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

Sec. 4. This proposal takes effect when approved by the commission.
A PROPOSAL relating to domain names; to amend section 7-104; and to repeal the original section.

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

7-104. Web domain name standard.

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

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

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

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

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

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

Sec. 3. This proposal takes effect when approved by the commission.
Attachment IV-B-3
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.

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

8-303. Identification and authorization.

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

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

(3) Sharing user IDs is prohibited.

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

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

8-304. Privileged access accounts.

Privileged access accounts include administrator accounts, embedded accounts used by one system to connect to another, and accounts used to run service programs. These accounts
are used by systems and personnel to access sensitive files, execute software, load and configure policies and configuration settings, and set up or maintain accounts.

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

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

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

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

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

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

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

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

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

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

Sec. 3. Original sections 8-303 and 8-304 are repealed.
Sec. 4. This proposal takes effect when approved by the commission.
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.

Section 1. The following new section is adopted:

7-106. Internet of Things (IoT) standard.
   This policy provides standards for Internet of Things (IoT) devices within the state network. IoT devices include but are not limited to door controls, cameras, and wireless sensors. While the benefits of IoT devices are numerous and compelling, it is important to remember that these devices have the potential to introduce significant threats and risks to the state network. IoT devices do not follow an international compatibility standard leaving them more exposed to vulnerabilities. The State of Nebraska must properly govern and manage deployment IoT devices.

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

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

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

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

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

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

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

(7) IoT device access must be limited to only what is necessary;
(8) Network traffic for IoT devices should not be prioritized over normal business operations unless the IoT device impacts emergency services or public safety; and

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

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