

## Utah Education Network

### 4.4 State of Utah Registry for Internet Numbers (SURIN)

#### 4.4.1 Purpose

The continuing growth of Internet activity and addition of hardware that requires new IP addresses mandates the need to manage IP numbers and addresses. The State of Utah Registry for Internet Numbers (SURIN) is designated as the policy-making body with the authority to:

- Implement a comprehensive plan to manage and allocate IPv4 and IPv6 addresses within the State of Utah.
- Distribute addresses equitably.
- Give stakeholders a voice in developing and managing these processes.

Eleven (11) voting members representing Higher Education, Public Education, State Government, Utah Libraries, the Utah Education Network (UEN) and the Utah Technology Coordinator Council (TCC) shall serve on the SURIN board.

SURIN will meet a minimum of four (4) times per year in conjunction with TCC general meetings.

In addition to the board of trustees, SURIN will be directed through an advisory process. Members from Higher Education, Public Education, State Government and Utah Libraries will form advisory committees to provide a forum to discuss needs specific to their institutions. The advisory committees would propose policies that will be sent to the board of trustees for review and final approval.

The SURIN Board of Trustees will enact policy and mission critical decisions identified by the Board and its advisory councils. The decisions of the Board are subject to approval and ratification of the UEN Steering Committee.

#### 4.4.2 References

**Bylaws of the Utah Education Network, Article III, Section 2 - Responsibilities.** (The Steering Committee will oversee the Network in its development and operation of a coordinated, statewide, multi-option telecommunications delivery system . . . .)

**UCA 53B-17-102-1(a & b)** (Provide high-quality, cost-effective Internet access and appropriate interface equipment for schools and school systems, etc.)

#### 4.4.3 Definitions

**IP Addresses** - An IP address (Internet Protocol address) is a unique address that certain electronic devices use in order to identify and communicate with each other on a computer network utilizing the Internet Protocol standard (**IP**).

**Internet Protocol version 4 (IPv4)** - the fourth iteration of the Internet Protocol (IP). This IP address is a 32-bit number that identifies each sender or receiver of information that is sent in packets across the Internet.

**Internet Protocol version 6 (IPv6)** - the newer 128-bit IP address. IPv6 addresses are typically composed of two logical parts: a 64-bit (sub-)network prefix, and a 64-bit host part.

#### **4.4.4 Policy**

##### **4.4.4.1 Creation of SURIN**

There is created the State of Utah Registry for Internet Numbers, hereafter referred to as SURIN, as an authorized subcommittee of the Utah Education Network Steering Committee.

##### **4.4.4.2 Grant of Authority**

SURIN is authorized to manage and administer IPv4 and IPv6 address space and Internet numbers within the State of Utah and to establish policy and make mission critical decisions by the SURIN Board Trustees, the Technical Advisory Committee, its members and its Registration Services subject to approval and ratification by the UEN Steering Committee

##### **4.4.4.3 Scope of Authority**

Under the governing authority of the UEN Steering Committee, policies affecting allocation, registration and documentation of IPv6 addresses are directed specifically by SURIN. Entities currently using UEN IPv4 address space are also covered under the SURIN Scope of Authority.

SURIN provides IP addresses for the following State of Utah entities:

- Utah State Office of Education (USOE)
- Utah System of Higher Education (USHE)
- Utah State Department of Technology Services (DTS) who represents all State agencies
- Utah State Library Board

##### **4.4.4.4 SURIN Structure**

SURIN will be managed by a board consisting of eleven (11) members. There will be a rural and an urban representative selected from the following entities: Public Education - two selected by the State Superintendent of Public Instruction; Higher Education - three selected by the Commissioner of Higher Education; Utah Libraries – two selected by the State Librarian and two representing Department of Technology Services (DTS), one representative from UEN and one representative from the TCC Board. The Chair and vice chair shall be elected by the Board of Trustees from among its members. All other officers shall be elected by the Board of Trustees from among such persons as the Board of Trustees may consider for election.

The SURIN board will meet as necessary to approve requests for IPv4 and IPv6 address space and Internet numbers and review or enact policy and mission critical decisions.

#### **4.4.4.4.1 Terms of Office**

All SURIN Board members shall be appointed to four (4) year terms of office. In order to stagger the terms of office, rural and TCC board members will serve two (2) years for the initial period.

#### **4.4.4.5 SURIN Board Responsibilities**

SURIN Board responsibilities include:

- Oversee the reallocation of IPv4 address space
- Oversee development and usage of Registration Services
- Create and maintain SURIN by-laws
- Manage membership and member education
- Ensure that procedures are developed to enable member input
- Set and oversee policy based on member input
- Make recommendations to UEN Steering Committee on network operational policies and educate on network issues
- The SURIN Board will review recommendations from its Technical Advisory Committee.

#### **4.4.4.6 SURIN Member Responsibilities**

SURIN Members responsibilities include:

- Follow policies put in place by SURIN in registering and deploying assigned IP addresses for member networks
- Suggest and develop policy for the allocation of IP address space
- Coordinate IP address allocation through UEN

#### **4.4.4.7 SURIN Technical Advisory Committee Responsibilities**

The SURIN Technical Advisory Committee will be comprised of members appointed by the SURIN board. The SURIN Technical Advisory Committee will meet as directed by the SURIN board. Responsibilities include:

- Review and advise on technical aspects of policies
- Advise SURIN Board of IP addressing developments
- Suggest policy changes to support the needs of SURIN members

#### **4.4.4.8 UEN Responsibilities**

UEN responsibilities include:

- Allocate and manage IP address space according to SURIN policies
- Enforce compliance according to SURIN policy
- Advise SURIN board on compliance, member needs and changing requirements within UEN
- Provide tools for registration services
- Provide reports on allocation, utilization and other reports as requested
- UEN will record all IPv4 and IPv6 allocations in a SURIN member-searchable database
- UEN will provide one (1) engineer to fill a technical advisory role

#### **4.4.5 Policy Implementation**

- Internet number allocation will be fair and equitable to all parties.
- No entity shall have undue influence on the allocation process.
- All IP addresses should be allocated to public education, higher education, Utah libraries and state government by UEN through SURIN policies.