

Idaho Technology Authority (ITA)

ENTERPRISE STANDARDS – S3000 NETWORK AND TELECOMMUNICATIONS STANDARDS

Category: S3131 – NETWORK SERVICES- VIDEO CONFERENCE DIALINGPLAN

CONTENTS:

- I. [Definition](#)
- II. [Rationale](#)
- III. [Approved Standard\(s\)](#)
- IV. [Approved Product\(s\)](#)
- V. [Justification](#)
- VI. [Technical and Implementation Considerations](#)
- VII. [Emerging Trends and Architectural Directions](#)
- VIII. [Procedure Reference](#)
- IX. [Review Cycle](#)
- X. [Contact Information](#)
- XI. [Additional Information \(if any\)](#)
[Revision History](#)

I. DEFINITION

Telecommunications numbering plan where a telephone number is used to uniquely identify a public network termination point, in this case for a State video conferencing endpoint. Typically consisting of three fields, CC (country code), NDC (national destination code also known as the area code), and SN (subscriber number).

II. RATIONALE

A well-designed dial plan is a key component of a successful video network and video call routing. Without a well constructed dial plan, it is impossible to scale the network or to properly route video calls to the appropriate host agency or endpoint.

III. APPROVED STANDARD(S)

The recommended video dialing plan is to follow and conform to the current North American Numbering Plan (NANP). The NANP is an integrated telephone numbering plan serving 19 North American countries that share its resources. It was developed by AT&T in 1947 to simplify and facilitate the direct dialing of long distance telephone calls. The [International Telecommunications Union](#) (ITU) assigned country code "1" to the NANP area. The NANP conforms to the ITU E.164 Recommendation, the international standard for telephone numbering plans.

All NANP numbers consist of the country code (1 in North America) plus a three-digit Numbering Plan Area (NPA) code, commonly called an area code, followed by a seven-digit local number usually represented as +1NXX-NXX-XXXX where N is any digit from 2 through 9 and X is any digit from 0 through 9.

The State shall use the same numbering plan as its standard for Video Conferencing endpoints. Furthermore State video endpoints E.164 number assignments should be valid numbers assigned to respective agencies by their local PSTN (public switched telephone network) carrier.

IV. APPROVED PRODUCTS(S)

N/A

V. JUSTIFICATION

Having a State video dialing plan ensures; network scalability as video endpoints grow and the proper routing of video calls to respective endpoints. Also allows for a simple directory of dialable video endpoints throughout the State network.

VI. TECHNICAL AND IMPLEMENTATION CONSIDERATIONS

We recognize there is currently some legacy video equipment still in use throughout the State. Many of these devices are NOT E.164 compliant and will be not be able conform to the State standard dialing plan and may encounter interoperability issues. But, all new installations should support the standard as well as older non-compliant devices upgraded to support the standard where possible.

VII. EMERGING TRENDS AND ARCHITECTURAL DIRECTIONS

This dialing standard is also intended to position the State to support ENUM (electronic numbering) which is the process of creating a domain name from a telephone number and resolving it to an Internet address (a URI uniform resource identifier) using DNS technology. For example, done correctly an E164 telephone number assigned to a video endpoint such as 1+ (208) 577-2001 using ENUM technology could be accessed using 12085772001@connect.conferencing.idaho.gov from a video endpoint on the Internet.

VIII. PROCEDURE REFERENCE

N/A

IX. REVIEW CYCLE

Six (6) Months

X. CONTACT INFORMATION

For more information, contact the ITA Staff at (208) 332-1876.

XI. ADDITIONAL INFORMATION (IF ANY)

N/A

REVISION HISTORY

07/01/13 – Changed “ITRMC” to “ITA”.

Effective Date: October 2, 2009