

**cDOT 9.1Px SNMP Configuration**

**Authors:** Ian Daniel

**Contributors: Craig Goettig**, Joel Edstrom

**Document Version:** V0.2

**Date:** July 2017

Status: Draft

**CONFIDENTIAL INFORMATION**

This document contains information proprietary to Thomson Reuters and may not be reproduced, disclosed or used in whole or part without express permission of Thomson Reuters.

© Thomson Reuters 2017

Contents

[1 Introduction 3](#_Toc485225675)

[1.1 Management Summary 3](#_Toc485225676)

[1.2 Change History 3](#_Toc485225677)

[1.3 Distribution List 4](#_Toc485225678)

[1.4 Glossary 4](#_Toc485225679)

[2 SNMP v3 Configuration 5](#_Toc485225680)

[2.1 Description 5](#_Toc485225681)

[2.2 Tasks 5](#_Toc485225682)

[2.2.1 Configure Read Only SNMP Access 5](#_Toc485225683)

[2.2.2 Configure Read/Write SNMP Access 5](#_Toc485225684)

[2.2.3 Verify Access Created 5](#_Toc485225685)

[2.2.4 Remove SNMP Community (Disable V1/2 SNMP) 6](#_Toc485225686)

[2.2.5 Check SNMP Community No Longer Exists 6](#_Toc485225687)

[3 Passwords For SNMP v3 6](#_Toc485225688)

# Introduction

## Management Summary

This document details the process used to configure SNMP for cDOT 9.1Px to meet ISRM requirements. OCUM/OPM no longer use SNMP to monitor controllers and so SNMP v1/2 can be safely removed.

## Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Ver** | **Date** | **Author** | **Key Changes** |
| 0.1 | June 2017 | Ian Daniel | Initial Version |
| 0.2 | July 2017 | Ian Daniel | Modified to use SHA |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Distribution List

|  |  |
| --- | --- |
| **Name** | **Role** |
| Storage Engineering | Reviewer |
| Storage Delivery | Reviewer |
| Storage Architecture | Reviewer |

## Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| cDOT | clustered Data ONTAP |
| Vserver | A logical storage virtual server, also known as a Storage Virtual Machine (SVM), which contains LIFs, Volumes, and configuration information such as access control details. |
| LIF | Logical Interface – a cDOT logical network interface with an IP address, assigned to a single Vserver. |
| CIFS | Short for Common Internet File System, a protocol that defines a standard for remote file access using millions of computers at a time. With CIFS, users with different platforms and computers can share files without having to install new software. |
| SMB | Short for Server Message Block, a message format used by DOS and Windows to share files, directories and devices. |
| NFS | A distributed file system protocol originally developed by Sun Microsystems in 1984, allowing a user on a client computer to access files over a computer network much like local storage is accessed. |

# SNMP v3 Configuration

## Description

In order to configure SNMP v3 we need to create users with the correct access privileges. We use authenticated access for both read and read/write access plus encryption.

## Tasks

The following tasks are carried out.

### ****Configure Read Only SNMP Access****

orf-lab2554::> security login create -username snmp-ro -application snmp -authmethod usm -role readonly -vserver orf-lab2554

Enter the authoritative entity's EngineID [local EngineID]:

Which authentication protocol do you want to choose (none, md5, sha) [none]: sha

Enter the authentication protocol password (minimum 8 characters long):

Enter the authentication protocol password again:

Which privacy protocol do you want to choose (none, des) [none]: des

Enter privacy protocol password (minimum 8 characters long):

Enter privacy protocol password again:

### ****Configure Read/Write SNMP Access****

orf-lab2554::> security login create -username snmp -application snmp -authmethod usm -role admin -vserver orf-lab2554

Enter the authoritative entity's EngineID [local EngineID]:

Which authentication protocol do you want to choose (none, md5, sha) [none]: sha

Enter the authentication protocol password (minimum 8 characters long):

Enter the authentication protocol password again:

Which privacy protocol do you want to choose (none, des) [none]: des

Enter privacy protocol password (minimum 8 characters long):

Enter privacy protocol password again:

### ****Verify Access Created****

orf-lab2554::> security snmpusers -instance

Vserver: orf-lab2554

User Name: snmp

Authentication Method: usm

Engine Id: 8000031505e971a981cbffe4119416123478563412

Authentication Protocol: sha

Privacy Protocol: des

Security Group: readwrite

Vserver: orf-lab2554

User Name: snmp-ro

Authentication Method: usm

Engine Id: 8000031505e971a981cbffe4119416123478563412

Authentication Protocol: sha

Privacy Protocol: des

Security Group: readonly

2 entries were displayed.

### ****Remove SNMP Community (Disable V1/2 SNMP)****

orf-lab2554::> community delete -community-name public -type ro

(system snmp community delete)

### ****Check SNMP Community No Longer Exists****

orf-lab2554::> community delete -community-name public -type ro

(system snmp community delete)

Ensure Community Names Are Removed

==================================

orf-lab2554::> community show

(system snmp community show)

This table is currently empty.

# Passwords For SNMP v3

The following were used in SI for testing, similar strength passwords should be used in production.

|  |  |
| --- | --- |
| Access | Password |
| Read-Only | $NMPRead |
| Read/Write | $NMP4West |
| DES Encryption Password | $NMP4WestD3S |