Aruba ClearPass As Built Report

|  |  |
| --- | --- |
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| Date: | samedi 27 janvier 2024 |
| Version: | 1.0 |

# 1 Implementation Report clearpass-sjc1.arubademo.net

The following section provides a summary of the implemented components on the Aruba ClearPass infrastructure.

## 1.1 Version

The following section details Version settings configured on ClearPass.

| Version | Build | Hardware Version | FIPS | Evaluation | Cloud |
| --- | --- | --- | --- | --- | --- |
| 6.10.6 | 186545 | C1000V | False | False | False |

Table - Version

The following section details Patches settings configured on ClearPass.

| Name | Date |
| --- | --- |
| 20211220-clearpass-6.10-updates-4 | 03/19/2022 04:29:35 |
| 20220307-clearpass-6.10-updates-5 | 05/07/2022 01:24:08 |
| 20220509-clearpass-6.10-updates-6 | 07/06/2022 07:12:40 |
| 38test-skin-0.9.38-v4 | 08/03/2022 19:01:17 |

Table - Patches

## 1.2 Server Configuration

The following section details Server Configuration settings configured on ClearPass.

| Name | DNS Name | MGMT IP | DATA IP | Publisher | Insight (Primary) |
| --- | --- | --- | --- | --- | --- |
| clearpass-sjc2.arubademo.net | clearpass-sjc2.arubademo.net | 10.67.10.111 |  | False | True (False) |
| clearpass-ins.arubademo.net | clearpass-ins.arubademo.net | 10.67.10.113 |  | False | True (True) |
| clearpass-sjc1.arubademo.net | clearpass-sjc1.arubademo.net | 10.67.10.110 |  | True | True (False) |

Table - Server Configuration

## 1.3 License

The following section details License settings configured on ClearPass.

### 1.3.1 Summary

The following section details license Summary configured on ClearPass.

| Type | Count | Used | Updated |
| --- | --- | --- | --- |
| Onboard | 5000 | 0 | 01/27/2024 10:15:01 |
| OnGuard | 5000 | 0 | 01/27/2024 10:15:01 |
| Access | 5000 | 55 | 01/27/2024 10:15:01 |

Table - License Summary

### 1.3.2 Application License

The following section details license Application License configured on ClearPass.

| Product Name | Licence Type | User Count | Licence Added | Activation Status |
| --- | --- | --- | --- | --- |
| Onboard | Permanent | 5000 | 03/19/2022 03:36:59 | True |
| OnGuard | Permanent | 5000 | 03/19/2022 03:36:38 | True |
| Access | Permanent | 5000 | 03/19/2022 03:36:06 | True |

Table - Application License Summary

The following section details license Application License configured on ClearPass.

### 1.3.2.1 Application License: Onboard 8

|  |  |
| --- | --- |
| Product Id | 8 |
| Product Name | Onboard |
| Licence Key | -----BEGIN CLEARPASS ONBOARD LICENSE KEY----- H4sIAAAAAAACAwAAAv/9AM23KPDF+ZJQn/Z+kPuiumbjCXlxaT1QAAHKtrKYuTRDegBCEpgWW9x+ ktS5kU5hR9R7XQw4ST288hYDON4Q2ydOQ0h8tsDAnttA18mddanohAutV770cWM2dzFbsDwV4NSF oCsQb25LQbk0Bj0rlShrwkVfiPkMbYwWOtEX6Tb2KbzKllGedERLAsYSwiI0eAx7EziPAAdbp1JZ lkTJ3g6ww+OHWGGkCWpXUJ8F7I8xelz2JoiA5iDIue32ymJsw/WP/b/UlPGCKcTygBAGF6mQOEsR focLlTJptiknjNbl3nZxiI7DrZWUBNjyECQHYCKSDJ5iTK9lV7YvC/n2NuQ/dOHEJeg9syP9uyZh rmMfc5PvDWMd0cu8omBpZ+4wZ2jp/R5rLWGOTz6n1me8RqxBzOTPkRVtE4Q4/4Ma8KyLjzsWuYvW Aoub2h4otPVpoQG4myvXxWU0FvbNnf1h1N7Z58j3tngGKXrRzJPZ50ELfngcv2NYQtTT5iuizkAI 4YOv0HaZSvSmp9RT7K8Dver2x7red10mLjrDdbYNppCVKo3bctbMu6G3csTt6L9NTT1MM9i/nkU+ GiHbSweHMxRop9MFjOMdZyHfONlYFLwuH2LKuiJ/QF8IEZpOw6poYaBXPfSh7cDcHFNLZtzdRYiR 70nquSX3J4s3FjBi9PMAAAD//w== -----END CLEARPASS ONBOARD LICENSE KEY----- |
| Licence Type | Permanent |
| User Count | 5000 |
| Duration | 0 days |
| Licence Added | 03/19/2022 03:36:59 |
| Activation Status | True |

Table - Application License: Onboard 8

### 1.3.2.2 Application License: OnGuard 5

|  |  |
| --- | --- |
| Product Id | 5 |
| Product Name | OnGuard |
| Licence Key | -----BEGIN CLEARPASS POLICYMANAGER ONGUARD LICENSE KEY----- H4sIAAAAAAACAwAAAv/9O9QF5HuDLSRJjcQlt/G0YoyQxpTi+oS1OnFTASnjb5HQ6TTBnsqGw+Te 2BcBa6RZ0eURP8U0DpdKYupfrj4nF68mtvJnTH09TuIwNqLMj3g4WjJRodCZRjLFWq9eYhgWEJ/3 tBfTF7nHUg6wmIDiDF2WGGfD31uvCOSUO832hZg66bq5pF8KwQlQg0ThjfqXTFE1wxHiCaI8rDCl r/EthqvYCaRDMopuKQuimF06eQb2HU+DswRoxTQwFdg3yM0nBXUQkgRQjYXG582+Cppps01XqvRl uSLLGiCot97cOtunv06PN1zVyhRbyE443UxQXog6sZGrWKqT5OrLXgjUvSoNM8n7UI4RT1+luFcj 2Y+yOvuCHwELZ/dwGDw3bXiap2fM9MrdflyRoocFWHXCHUg9tWqUtTKU261ok/x4bLsE4a/0y9bP 7rkF4rD2T9u6nnZiHuJHQC67N0K4/WxxsTbho/zhNXwGpCcHOCEOSR3AI2SDeBLuYKLTtsIDEes7 eLGO5f5ZimasnyNlZjfp2Z+UIagN11Py1xQ6JerRJqWa2dZT8cZ5JMbtpU5VCkR5TyheVFDqKnhG QtoUMXZ+7S/UI8gOSFjoT5lJlHb18fW89OxXjucjZkbM/c/5RgJl8N49qp1FMr+5G59Hi2rwUGOS H+fiFVKAlo7q2tcPzyEAAAD//w== -----END CLEARPASS POLICYMANAGER ONGUARD LICENSE KEY----- |
| Licence Type | Permanent |
| User Count | 5000 |
| Duration | 0 days |
| Licence Added | 03/19/2022 03:36:38 |
| Activation Status | True |

Table - Application License: OnGuard 5

### 1.3.2.3 Application License: Access 1

|  |  |
| --- | --- |
| Product Id | 1 |
| Product Name | Access |
| Licence Key | -----BEGIN ACCESS LICENSE KEY----- H4sIAAAAAAACAwAAAv/9I8oMs8UN8UWwYOYPRP+Tbq6lHYs6Pc8Us4Kilv78hlFNaSN5DOe+pikK NrRVD4yKT8GuwjUD9jXoftoOMxl8ucerYtC0FF2WoUpJnCRi2jvuRr1mbre8jc0e/bjgUC53XGHW jlA2bcBz1eMQkgNfFcOcomrdOePaYtPA2s6Q358RyGNwPjFqvXdM6J7BjLFo1TFMxmnpV/oHd+kg kkD39raXKN+u+EVablegpc2hwXprt4gD2K9JqOCOer18Iy974aTzT6mEeXm2GApJmtE+xjj4GJUZ 18zv3M0ptMsqGCEafkotNx2RKjfKX+6MOThE7NGKPLNREsfogTg08+I0O7jEQAAMiqPbMbXgKcKL 9uLeBPppLCwvgb8bxaDDEnbHRE2/pHVuWhKghcdaHKgx0ghn0AmUzBN7uE1tyEaySyuJvJy0QE8o LQYXRnUiOagudlK4DZoN7pP1Blesd1YGkssEMB+AzNI/35hWOLd4lopECXkkve9h6N4OpGJvR7up gTPbB31bLwpk5zEnqwBSg/ASRUV7kxaDNwgtBaeDXeBg5ltRPxIsp52b+DYX7jbax0vVQu7K0219 2xQuwqOSauCyhw4P1FK7nsXyZ3/u7AvPloQ+d6Gi5VdbwslnGcnosh8Z/vC45cucr8ToJbN42fSw 3dcHYYZ/Jutbpw6ZogAAAAD//w== -----END ACCESS LICENSE KEY----- |
| Licence Type | Permanent |
| User Count | 5000 |
| Duration | 0 days |
| Licence Added | 03/19/2022 03:36:06 |
| Activation Status | True |

Table - Application License: Access 1

## 1.4 Authentication

The following section details Authentication settings configured on ClearPass.

### 1.4.1 Summary

The following section provides a summary of Authentication settings.

|  |  |
| --- | --- |
| Method | 23 (default: 20) |
| Source | 21 (default: 11) |

Table - Authentication Summary

### 1.4.2 Authentication Method

The following section details Authentication Method configured on ClearPass.

| Id | Name | Description | Method Type | Inner Methods | Details Count |
| --- | --- | --- | --- | --- | --- |
| 1 | [PAP] | Default settings for PAP | PAP |  | 1 |
| 2 | [MSCHAP] | Default settings for MSCHAP | MSCHAP |  | 1 |
| 3 | [EAP TLS] | Default settings for EAP-TLS | EAP-TLS |  | 6 |
| 4 | [EAP TTLS] | Default settings for EAP-TTLS | EAP-TTLS | [PAP] [EAP TLS] [EAP GTC] [EAP MSCHAPv2] [MSCHAP] [CHAP] | 2 |
| 5 | [EAP PEAP] | Default settings for EAP-PEAP | EAP-PEAP | [EAP MSCHAPv2] [EAP TLS] [EAP GTC] | 6 |
| 6 | [CHAP] | Default settings for CHAP | CHAP |  | 0 |
| 7 | [EAP MD5] | Default settings for EAP-MD5 | EAP-MD5 |  | 0 |
| 9 | [EAP GTC] | Default settings for EAP-GTC | EAP-GTC |  | 1 |
| 10 | [EAP FAST] | Default settings for EAP-FAST | EAP-FAST | [EAP MSCHAPv2] [EAP GTC] [EAP TLS] | 19 |
| 11 | [MAC AUTH] | Default settings for MAC-AUTH | MAC-AUTH |  | 1 |
| 12 | [Allow All MAC AUTH] | Default settings for Allow All MAC-AUTH | MAC-AUTH |  | 1 |
| 13 | [EAP TLS With OCSP Enabled] | EAP-TLS with OCSP enabled; recommended for Onboard | EAP-TLS |  | 7 |
| 14 | [EAP PEAP Without Fast Reconnect] | EAP-PEAP with Fast Reconnect disabled; recommended for Onboard | EAP-PEAP | [EAP MSCHAPv2] [EAP TLS] [EAP GTC] | 6 |
| 15 | [Authorize] | Default settings for Authorize | Authorize |  | 0 |
| 16 | [SSO] | Default settings for SSO | PAP |  | 1 |
| 17 | [Aruba EAP GTC] | EAP-GTC method to use with Aruba EAP-GTC plugin for Windows | EAP-GTC |  | 1 |
| 20 | [EAP PEAP Public] | Default settings for EAP-PEAP-Public | EAP-PEAP-Public | [EAP MSCHAPv2] | 5 |
| 23 | [EAP PWD] | Default settings for EAP-PWD | EAP-PWD |  | 2 |
| 25 | [EAP TLS With CN Check] | EAP-TLS with Certificate Comparison configured to Compare Common Name (CN) | EAP-TLS |  | 6 |
| 3001 | EAP TLS - No Authz | Default settings for EAP-TLS | EAP-TLS |  | 6 |
| 3003 | Copy\_of\_[EAP TLS] | Default settings for EAP-TLS | EAP-TLS |  | 6 |
| 3005 | PEAP MSCHAPv2 |  | EAP-MSCHAPv2 |  | 1 |
| 8 | [EAP MSCHAPv2] | Default settings for EAP-MSCHAPv2 | EAP-MSCHAPv2 |  | 1 |

Table - Authentication Method

The following section details Authentification Method configured on ClearPass.

### 1.4.2.1 Authentication Method: [PAP]

|  |  |
| --- | --- |
| Id | 1 |
| Name | [PAP] |
| Description | Default settings for PAP |
| Method Type | PAP |
| Inner Methods |  |

Table - Authentification Method: [PAP]

| Name | Value |
| --- | --- |
| encryption\_scheme | auto |

Table - Details : [PAP]

### 1.4.2.2 Authentication Method: [MSCHAP]

|  |  |
| --- | --- |
| Id | 2 |
| Name | [MSCHAP] |
| Description | Default settings for MSCHAP |
| Method Type | MSCHAP |
| Inner Methods |  |

Table - Authentification Method: [MSCHAP]

| Name | Value |
| --- | --- |
| pass\_reset\_flow | Challenge |

Table - Details : [MSCHAP]

### 1.4.2.3 Authentication Method: [EAP TLS]

|  |  |
| --- | --- |
| Id | 3 |
| Name | [EAP TLS] |
| Description | Default settings for EAP-TLS |
| Method Type | EAP-TLS |
| Inner Methods |  |

Table - Authentification Method: [EAP TLS]

| Name | Value |
| --- | --- |
| override\_cert\_url | false |
| ocsp\_enable | none |
| session\_cache\_enable | true |
| autz\_required | true |
| certificate\_comparison | none |
| session\_timeout | 6 |

Table - Details : [EAP TLS]

### 1.4.2.4 Authentication Method: [EAP TTLS]

|  |  |
| --- | --- |
| Id | 4 |
| Name | [EAP TTLS] |
| Description | Default settings for EAP-TTLS |
| Method Type | EAP-TTLS |
| Inner Methods | [PAP] [EAP TLS] [EAP GTC] [EAP MSCHAPv2] [MSCHAP] [CHAP] |

Table - Authentification Method: [EAP TTLS]

| Name | Value |
| --- | --- |
| session\_cache\_enable | true |
| session\_timeout | 6 |

Table - Details : [EAP TTLS]

### 1.4.2.5 Authentication Method: [EAP PEAP]

|  |  |
| --- | --- |
| Id | 5 |
| Name | [EAP PEAP] |
| Description | Default settings for EAP-PEAP |
| Method Type | EAP-PEAP |
| Inner Methods | [EAP MSCHAPv2] [EAP TLS] [EAP GTC] |

Table - Authentification Method: [EAP PEAP]

| Name | Value |
| --- | --- |
| allow\_fast\_reconnect | true |
| nap\_support\_enable | true |
| session\_cache\_enable | true |
| eap\_peap\_skip\_auth | false |
| session\_timeout | 6 |
| enforce\_crypto\_binding | none |

Table - Details : [EAP PEAP]

### 1.4.2.6 Authentication Method: [CHAP]

|  |  |
| --- | --- |
| Id | 6 |
| Name | [CHAP] |
| Description | Default settings for CHAP |
| Method Type | CHAP |
| Inner Methods |  |

Table - Authentification Method: [CHAP]

### 1.4.2.7 Authentication Method: [EAP MD5]

|  |  |
| --- | --- |
| Id | 7 |
| Name | [EAP MD5] |
| Description | Default settings for EAP-MD5 |
| Method Type | EAP-MD5 |
| Inner Methods |  |

Table - Authentification Method: [EAP MD5]

### 1.4.2.8 Authentication Method: [EAP GTC]

|  |  |
| --- | --- |
| Id | 9 |
| Name | [EAP GTC] |
| Description | Default settings for EAP-GTC |
| Method Type | EAP-GTC |
| Inner Methods |  |

Table - Authentification Method: [EAP GTC]

| Name | Value |
| --- | --- |
| challenge | Password: |

Table - Details : [EAP GTC]

### 1.4.2.9 Authentication Method: [EAP FAST]

|  |  |
| --- | --- |
| Id | 10 |
| Name | [EAP FAST] |
| Description | Default settings for EAP-FAST |
| Method Type | EAP-FAST |
| Inner Methods | [EAP MSCHAPv2] [EAP GTC] [EAP TLS] |

Table - Authentification Method: [EAP FAST]

| Name | Value |
| --- | --- |
| machine\_pac\_enable | true |
| machine\_pac\_lifetime | 1 |
| tunnel\_pac\_lifetime\_units | days |
| allow\_anonymous\_provisioning | true |
| posture\_pac\_enable | true |
| auth\_provisioning\_accept\_client | true |
| allow\_authenticated\_provisioning | true |
| posture\_pac\_lifetime | 1 |
| user\_auth\_pac\_lifetime | 1 |
| tunnel\_pac\_lifetime | 1 |
| user\_auth\_pac\_enable | true |
| user\_auth\_pac\_lifetime\_units | days |
| session\_cache\_enable | true |
| client\_certificate\_auth | false |
| posture\_pac\_lifetime\_units | days |
| machine\_pac\_lifetime\_units | days |
| auth\_provisioning\_require\_client\_cert | false |
| certificate\_comparison | none |
| session\_timeout | 6 |

Table - Details : [EAP FAST]

### 1.4.2.10 Authentication Method: [MAC AUTH]

|  |  |
| --- | --- |
| Id | 11 |
| Name | [MAC AUTH] |
| Description | Default settings for MAC-AUTH |
| Method Type | MAC-AUTH |
| Inner Methods |  |

Table - Authentification Method: [MAC AUTH]

| Name | Value |
| --- | --- |
| allow\_unknown\_clients | false |

Table - Details : [MAC AUTH]

### 1.4.2.11 Authentication Method: [Allow All MAC AUTH]

|  |  |
| --- | --- |
| Id | 12 |
| Name | [Allow All MAC AUTH] |
| Description | Default settings for Allow All MAC-AUTH |
| Method Type | MAC-AUTH |
| Inner Methods |  |

Table - Authentification Method: [Allow All MAC AUTH]

| Name | Value |
| --- | --- |
| allow\_unknown\_clients | true |

Table - Details : [Allow All MAC AUTH]

### 1.4.2.12 Authentication Method: [EAP TLS With OCSP Enabled]

|  |  |
| --- | --- |
| Id | 13 |
| Name | [EAP TLS With OCSP Enabled] |
| Description | EAP-TLS with OCSP enabled; recommended for Onboard |
| Method Type | EAP-TLS |
| Inner Methods |  |

Table - Authentification Method: [EAP TLS With OCSP Enabled]

| Name | Value |
| --- | --- |
| override\_cert\_url | true |
| ocsp\_enable | required |
| session\_cache\_enable | false |
| autz\_required | true |
| certificate\_comparison | none |
| session\_timeout | 6 |
| ocsp\_url | http://localhost/guest/mdps\_ocsp.php/1 |

Table - Details : [EAP TLS With OCSP Enabled]

### 1.4.2.13 Authentication Method: [EAP PEAP Without Fast Reconnect]

|  |  |
| --- | --- |
| Id | 14 |
| Name | [EAP PEAP Without Fast Reconnect] |
| Description | EAP-PEAP with Fast Reconnect disabled; recommended for Onboard |
| Method Type | EAP-PEAP |
| Inner Methods | [EAP MSCHAPv2] [EAP TLS] [EAP GTC] |

Table - Authentification Method: [EAP PEAP Without Fast Reconnect]

| Name | Value |
| --- | --- |
| allow\_fast\_reconnect | false |
| nap\_support\_enable | true |
| session\_cache\_enable | true |
| eap\_peap\_skip\_auth | false |
| session\_timeout | 6 |
| enforce\_crypto\_binding | none |

Table - Details : [EAP PEAP Without Fast Reconnect]

### 1.4.2.14 Authentication Method: [Authorize]

|  |  |
| --- | --- |
| Id | 15 |
| Name | [Authorize] |
| Description | Default settings for Authorize |
| Method Type | Authorize |
| Inner Methods |  |

Table - Authentification Method: [Authorize]

### 1.4.2.15 Authentication Method: [SSO]

|  |  |
| --- | --- |
| Id | 16 |
| Name | [SSO] |
| Description | Default settings for SSO |
| Method Type | PAP |
| Inner Methods |  |

Table - Authentification Method: [SSO]

| Name | Value |
| --- | --- |
| encryption\_scheme | sso |

Table - Details : [SSO]

### 1.4.2.16 Authentication Method: [Aruba EAP GTC]

|  |  |
| --- | --- |
| Id | 17 |
| Name | [Aruba EAP GTC] |
| Description | EAP-GTC method to use with Aruba EAP-GTC plugin for Windows |
| Method Type | EAP-GTC |
| Inner Methods |  |

Table - Authentification Method: [Aruba EAP GTC]

| Name | Value |
| --- | --- |
| challenge | Enter Aruba Login |

Table - Details : [Aruba EAP GTC]

### 1.4.2.17 Authentication Method: [EAP PEAP Public]

|  |  |
| --- | --- |
| Id | 20 |
| Name | [EAP PEAP Public] |
| Description | Default settings for EAP-PEAP-Public |
| Method Type | EAP-PEAP-Public |
| Inner Methods | [EAP MSCHAPv2] |

Table - Authentification Method: [EAP PEAP Public]

| Name | Value |
| --- | --- |
| allow\_fast\_reconnect | true |
| public\_username | public |
| session\_cache\_enable | true |
| public\_password | public |
| session\_timeout | 6 |

Table - Details : [EAP PEAP Public]

### 1.4.2.18 Authentication Method: [EAP PWD]

|  |  |
| --- | --- |
| Id | 23 |
| Name | [EAP PWD] |
| Description | Default settings for EAP-PWD |
| Method Type | EAP-PWD |
| Inner Methods |  |

Table - Authentification Method: [EAP PWD]

| Name | Value |
| --- | --- |
| group\_name | 256-bit random ECP group |
| server\_id | CPPM |

Table - Details : [EAP PWD]

### 1.4.2.19 Authentication Method: [EAP TLS With CN Check]

|  |  |
| --- | --- |
| Id | 25 |
| Name | [EAP TLS With CN Check] |
| Description | EAP-TLS with Certificate Comparison configured to Compare Common Name (CN) |
| Method Type | EAP-TLS |
| Inner Methods |  |

Table - Authentification Method: [EAP TLS With CN Check]

| Name | Value |
| --- | --- |
| override\_cert\_url | false |
| ocsp\_enable | none |
| session\_cache\_enable | true |
| autz\_required | true |
| session\_timeout | 6 |
| certificate\_comparison | cn |

Table - Details : [EAP TLS With CN Check]

### 1.4.2.20 Authentication Method: EAP TLS - No Authz

|  |  |
| --- | --- |
| Id | 3001 |
| Name | EAP TLS - No Authz |
| Description | Default settings for EAP-TLS |
| Method Type | EAP-TLS |
| Inner Methods |  |

Table - Authentification Method: EAP TLS - No Authz

| Name | Value |
| --- | --- |
| override\_cert\_url | false |
| ocsp\_enable | none |
| session\_cache\_enable | true |
| autz\_required | false |
| session\_timeout | 6 |
| certificate\_comparison | none |

Table - Details : EAP TLS - No Authz

### 1.4.2.21 Authentication Method: Copy\_of\_[EAP TLS]

|  |  |
| --- | --- |
| Id | 3003 |
| Name | Copy\_of\_[EAP TLS] |
| Description | Default settings for EAP-TLS |
| Method Type | EAP-TLS |
| Inner Methods |  |

Table - Authentification Method: Copy\_of\_[EAP TLS]

| Name | Value |
| --- | --- |
| override\_cert\_url | false |
| ocsp\_enable | none |
| session\_cache\_enable | true |
| autz\_required | true |
| certificate\_comparison | none |
| session\_timeout | 6 |

Table - Details : Copy\_of\_[EAP TLS]

### 1.4.2.22 Authentication Method: PEAP MSCHAPv2

|  |  |
| --- | --- |
| Id | 3005 |
| Name | PEAP MSCHAPv2 |
| Description |  |
| Method Type | EAP-MSCHAPv2 |
| Inner Methods |  |

Table - Authentification Method: PEAP MSCHAPv2

| Name | Value |
| --- | --- |
| no\_of\_retries | 3 |

Table - Details : PEAP MSCHAPv2

### 1.4.2.23 Authentication Method: [EAP MSCHAPv2]

|  |  |
| --- | --- |
| Id | 8 |
| Name | [EAP MSCHAPv2] |
| Description | Default settings for EAP-MSCHAPv2 |
| Method Type | EAP-MSCHAPv2 |
| Inner Methods |  |

Table - Authentification Method: [EAP MSCHAPv2]

| Name | Value |
| --- | --- |
| no\_of\_retries | 3 |

Table - Details : [EAP MSCHAPv2]

### 1.4.3 Authentication Source

The following section details Authentication Source configured on ClearPass.

| Id | Name | Description | Type | Authorization |
| --- | --- | --- | --- | --- |
| 1 | [Local User Repository] | Authenticate users against Policy Manager local user database | Local | True |
| 2 | [Guest User Repository] | Authenticate guest users against Policy Manager local database | Local | True |
| 3 | [Guest Device Repository] | Authenticate guest devices against Policy Manager local database | Local | True |
| 4 | [Endpoints Repository] | Authenticate endpoints against Policy Manager local database | Local | True |
| 5 | [Onboard Devices Repository] | Authenticate Onboard devices against Policy Manager local database | Local | True |
| 6 | [Admin User Repository] | Authenticate users against Policy Manager admin user database | Local | True |
| 7 | [Denylist User Repository] | Denylist database with users who have exceeded bandwidth or session related limits | Local | True |
| 9 | [Time Source] | Authorization source for implementing various time functions | Local | True |
| 10 | [Social Login Repository] | Authenticate users against Policy Manager social login database | Local | True |
| 100 | [Zone Cache Repository] | Access attributes cached by Context Server Actions in previous sessions | HTTP | True |
| 3056 | CarbonBlack-authz | CarbonBlack Response authZ | HTTP | True |
| 3022 | epo-authz |  | HTTP | True |
| 3012 | OpenLDAP |  | Ldap | True |
| 3021 | CP Guest DB | ClearPass Guest DB Access | Sql | True |
| 3083 | Microsoft Intune | Microsoft Intune authorization source | HTTP | True |
| 3065 | SEEL AD - OnDemand Demo Accounts -AMS |  | AD | True |
| 3001 | SEEL AD - OnDemand Email Attribute | OnDemand email account authentication | AD | True |
| 3010 | SEEL AD - OnDemand Demo Accounts |  | AD | True |
| 3104 | Copy\_of\_SEEL AD - OnDemand Demo Accounts |  | AD | True |
| 3117 | Anycorp |  | AD | True |
| 8 | [Insight Repository] | Insight database with session information for users and devices | Local | True |

Table - Authentication Source

The following section details Authentification Source configured on ClearPass.

### 1.4.3.1 Authentication Source: [Local User Repository]

|  |  |
| --- | --- |
| Id | 1 |
| Name | [Local User Repository] |
| Description | Authenticate users against Policy Manager local user database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Local User Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT user\_credential(password) AS User\_Password, user\_credential(password\_hash) AS Password\_Hash,  user\_credential(password\_ntlm\_hash) AS Password\_Ntlm\_Hash,  CASE WHEN enabled = FALSE THEN 225  WHEN ((expire\_time is not null AND expire\_time <= now()) OR (passwordPolicy.expiry\_days > 0 AND  (PASSWORD\_UPDATED\_AT <= (now() - interval '1 days' \* passwordPolicy.expiry\_days))) ) THEN 226  ELSE 0  END AS Account\_Status,  tips\_role.name as Role\_Name,  case when enabled=true then 'true' else 'false' end as enabled,  row\_to\_json((SELECT d FROM (SELECT  CASE WHEN extract(DAY FROM (age(password\_updated\_at)))+1 >= passwordPolicy.pwd\_reminder\_days THEN passwordPolicy.pwd\_reminder\_text ELSE '' END AS Show\_Message,  CASE WHEN tips\_auth\_local\_users.change\_pwd\_next\_login = TRUE THEN 'true'  ELSE '' END AS Change\_Password)d )) as Account\_Actions  FROM tips\_auth\_local\_users JOIN tips\_role ON  (tips\_auth\_local\_users.user\_role = tips\_role.id), password\_policy passwordPolicy WHERE  passwordPolicy.usertype='LOCAL\_USERS' AND user\_id = '%{Authentication:Username}' | role\_name enabled |

Table - Auth Source Filters : [Local User Repository]

### 1.4.3.2 Authentication Source: [Guest User Repository]

|  |  |
| --- | --- |
| Id | 2 |
| Name | [Guest User Repository] |
| Description | Authenticate guest users against Policy Manager local database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Guest User Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT user\_credential(password) AS User\_Password,  CASE WHEN enabled = FALSE THEN 225  WHEN ((start\_time > now()) OR ((expire\_time is not null) AND (expire\_time <= now()))) THEN 226  WHEN approval\_status != 'Approved' THEN 227  ELSE 0  END AS Account\_Status, sponsor\_name,  CASE WHEN expire\_time > now() THEN CAST(EXTRACT(epoch FROM (expire\_time - NOW())) AS INTEGER)  ELSE 0  END AS remaining\_expiration, expire\_time::timestamp FROM tips\_guest\_users WHERE ((guest\_type = 'USER') AND (user\_id = '%{Authentication:Username}') AND (app\_name != 'Onboard')) | sponsor\_name remaining\_expiration expire\_time |
| Authorization | SELECT  CASE WHEN expire\_time is null or expire\_time > now() THEN 'false'  ELSE 'true'  END AS is\_expired,  CASE WHEN enabled = true THEN 'true' ELSE 'false' END as is\_enabled FROM tips\_guest\_users WHERE ((guest\_type = 'USER') AND (user\_id = '%{Endpoint:Username}') AND (app\_name != 'Onboard')) | is\_expired is\_enabled |

Table - Auth Source Filters : [Guest User Repository]

### 1.4.3.3 Authentication Source: [Guest Device Repository]

|  |  |
| --- | --- |
| Id | 3 |
| Name | [Guest Device Repository] |
| Description | Authenticate guest devices against Policy Manager local database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Guest Device Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT user\_credential(password) AS User\_Password,  CASE WHEN enabled = FALSE THEN 225  WHEN ((expire\_time is not null AND expire\_time <= now())) THEN 226  ELSE 0  END AS Account\_Status, sponsor\_name,  CASE WHEN expire\_time > now() THEN CAST(EXTRACT(epoch FROM (expire\_time - NOW())) AS INTEGER)  ELSE 0  END AS remaining\_expiration FROM tips\_guest\_users WHERE ((guest\_type = 'DEVICE') AND (user\_id = '%{Connection:Client-Mac-Address-Hyphen}')) | sponsor\_name remaining\_expiration account\_status |
| Device Role ID | SELECT tgu.attributes->>'Role ID' AS device\_role\_id FROM tips\_guest\_users as tgu WHERE tgu.guest\_type = 'DEVICE' AND tgu.user\_id = '%{Connection:Client-Mac-Address-Hyphen}' | device\_role\_id |
| Device MPSK | SELECT user\_credential(tgu.attributes->>'mpsk') AS device\_mpsk FROM tips\_guest\_users as tgu WHERE tgu.guest\_type = 'DEVICE' AND tgu.user\_id = '%{Connection:Client-Mac-Address-Hyphen}' | device\_mpsk |
| Authorization | SELECT   CASE WHEN expire\_time is null or expire\_time > now() THEN 'false'   ELSE 'true'  END AS is\_expired,  CASE WHEN enabled = true THEN 'true' ELSE 'false' END as is\_enabled,  CASE WHEN (expire\_time is null or expire\_time > now()) and (start\_time < now()) and (enabled = true) THEN 'true' ELSE 'false' END as is\_active FROM tips\_guest\_users  WHERE ((guest\_type = 'DEVICE') AND (user\_id = '%{Connection:Client-Mac-Address-Upper-Hyphen}') AND (app\_name = 'Guest')) | is\_expired is\_enabled is\_active |

Table - Auth Source Filters : [Guest Device Repository]

### 1.4.3.4 Authentication Source: [Endpoints Repository]

|  |  |
| --- | --- |
| Id | 4 |
| Name | [Endpoints Repository] |
| Description | Authenticate endpoints against Policy Manager local database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Endpoints Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT mac\_address AS User\_Password FROM tips\_endpoints WHERE mac\_address = LOWER('%{Connection:Client-Mac-Address-NoDelim}') AND status = 'Known' |  |
| Status | SELECT t1.status,t1.mac\_vendor, (case when t2.device\_family is NULL then 'false' else 'true' end) as is\_profiled FROM tips\_endpoints t1 LEFT OUTER JOIN tips\_endpoint\_profiles t2 ON (t1.mac\_address = t2.mac) WHERE t1.mac\_address = LOWER('%{Connection:Client-Mac-Address-NoDelim}') | status mac\_vendor is\_profiled |
| Profile | SELECT hostname,(case when static\_ip is false then 'false' else 'true' end) as static\_ip, device\_category, device\_family, device\_name, other\_category, other\_family, other\_name, (case when conflict is false then 'false' else 'true' end) as conflict FROM tips\_endpoint\_profiles WHERE mac = LOWER('%{Connection:Client-Mac-Address-NoDelim}') | hostname static\_ip device\_category device\_family device\_name other\_category other\_family other\_name conflict |
| Fingerprint | SELECT fingerprint, CAST(fingerprint as jsonb)->'host'->>'app\_id' as app\_id, CAST(fingerprint as jsonb)->'host'->>'app\_group' as app\_group, CAST(fingerprint as jsonb)->'host'->>'user\_agent' as user\_agent, CAST(fingerprint as jsonb)->'host'->>'dst\_conns' as dst\_conns, CAST(fingerprint as jsonb)->'host'->>'ports' as open\_port,CAST(fingerprint as jsonb)->'nmap'->>'device' as nmap\_device\_name, CAST(fingerprint as jsonb)->'nmap'->>'os\_family' as nmap\_device\_family, CAST(fingerprint as jsonb)->'nmap'->>'os\_type' as nmap\_device\_type, CAST(fingerprint as jsonb)->'nmap'->>'os\_vendor' as nmap\_device\_vendor, CAST(fingerprint as jsonb)->'nmap'->>'os\_gen' as nmap\_device\_os\_version FROM tips\_endpoint\_profiles WHERE mac = LOWER('%{Connection:Client-Mac-Address-NoDelim}') | nmap\_device\_name nmap\_device\_type nmap\_device\_family nmap\_device\_vendor nmap\_device\_os\_version fingerprint dst\_conns open\_port app\_group app\_id user\_agent |
| MAC Caching | SELECT COUNT(te.id) + 1 AS num\_endpoints FROM tips\_endpoints as te WHERE LOWER( te.attributes ->> (select name from tips\_tag\_definitions where id = 26)) = LOWER( '%{Authentication:Username}') and te.mac\_address != '%{Connection:Client-Mac-Address-NoDelim}' | num\_endpoints |

Table - Auth Source Filters : [Endpoints Repository]

### 1.4.3.5 Authentication Source: [Onboard Devices Repository]

|  |  |
| --- | --- |
| Id | 5 |
| Name | [Onboard Devices Repository] |
| Description | Authenticate Onboard devices against Policy Manager local database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Onboard Devices Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT user\_credential(password) AS User\_Password,  CASE WHEN enabled = FALSE THEN 225  WHEN ((start\_time > now()) OR ((expire\_time is not null) AND (expire\_time <= now()))) THEN 226  WHEN approval\_status != 'Approved' THEN 227  ELSE 0  END AS Account\_Status, sponsor\_name FROM tips\_guest\_users WHERE ((guest\_type = 'USER') AND (user\_id = mdps\_username\_to\_serial('%{Authentication:Username}')::text) AND (app\_name = 'Onboard')) | sponsor\_name |
| cert\_valid | SELECT 'True' as cert\_valid FROM cpg\_onboard\_certificate WHERE mdps\_mac\_address = UPPER('%{Connection:Client-Mac-Address-Colon}') AND serial\_number IS NOT NULL AND revoked\_at IS NULL AND valid\_to > Now(); | cert\_valid |

Table - Auth Source Filters : [Onboard Devices Repository]

### 1.4.3.6 Authentication Source: [Admin User Repository]

|  |  |
| --- | --- |
| Id | 6 |
| Name | [Admin User Repository] |
| Description | Authenticate users against Policy Manager admin user database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Admin User Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT user\_credential(password\_hash) AS Password\_Hash,  user\_credential(password\_ntlm\_hash) AS Password\_Ntlm\_Hash,  CASE WHEN enabled = FALSE THEN 225  WHEN (passwordPolicy.expiry\_days > 0 AND (PASSWORD\_UPDATED\_AT <= (now() - interval '1 days' \* passwordPolicy.expiry\_days)))  THEN 226 ELSE 0 END AS Account\_Status,  tips\_admin\_user\_group.name AS Role\_Name  FROM tips\_admin\_user  JOIN tips\_admin\_user\_group ON (tips\_admin\_user.group\_id = tips\_admin\_user\_group.id), password\_policy passwordPolicy  WHERE passwordPolicy.usertype='ADMIN\_USERS' AND user\_id = '%{Authentication:Username}' | role\_name |

Table - Auth Source Filters : [Admin User Repository]

### 1.4.3.7 Authentication Source: [Denylist User Repository]

|  |  |
| --- | --- |
| Id | 7 |
| Name | [Denylist User Repository] |
| Description | Denylist database with users who have exceeded bandwidth or session related limits |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Denylist User Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Lookup | SELECT 'password' as user\_password,  CASE WHEN bandwidth\_limit\_exceed = TRUE THEN 228  WHEN session\_duration\_exceed = TRUE THEN 229  WHEN session\_count\_exceed = TRUE THEN 230  END AS Account\_Status FROM tips\_post\_auth\_enf\_log WHERE user\_id = '%{Authentication:Username}' order by timestamp desc limit 1 |  |

Table - Auth Source Filters : [Denylist User Repository]

### 1.4.3.8 Authentication Source: [Time Source]

|  |  |
| --- | --- |
| Id | 9 |
| Name | [Time Source] |
| Description | Authorization source for implementing various time functions |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Time Source]

| Name | Query | Attribute |
| --- | --- | --- |
| Current Time | SELECT (EXTRACT (EPOCH FROM NOW()))::int AS now; | now |
| Next 2 hours | SELECT (EXTRACT (EPOCH FROM NOW() + interval '2 hours'))::int AS now\_plus\_2hrs; | now\_plus\_2hrs |
| One Day | SELECT (EXTRACT (EPOCH FROM NOW() + interval '1 days'))::int AS now\_plus\_1day; | now\_plus\_1day |
| Seven Days | SELECT (EXTRACT (EPOCH FROM NOW() + interval '7 days'))::int AS now\_plus\_7days; | now\_plus\_7days |
| Current Time MS | SELECT ((EXTRACT (EPOCH FROM NOW()) + 11644473600) \* 10000000)::bigint AS now\_ms\_time; | now\_ms\_time |
| Date Time | select date\_trunc('hour', localtimestamp(0)) as today, date\_trunc('hour', localtimestamp(0)+ interval '1 days') as one\_day, date\_trunc('hour', localtimestamp(0)+interval '1 week') as one\_week, date\_trunc('hour', localtimestamp(0)+ interval '1 month') as one\_month, date\_trunc('hour', localtimestamp(0)+ interval '6 months') as six\_months | today one\_day one\_week one\_month six\_months |

Table - Auth Source Filters : [Time Source]

### 1.4.3.9 Authentication Source: [Social Login Repository]

|  |  |
| --- | --- |
| Id | 10 |
| Name | [Social Login Repository] |
| Description | Authenticate users against Policy Manager social login database |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Social Login Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | SELECT te.attributes->>'social\_password' AS User\_Password FROM tips\_endpoints as te WHERE te.mac\_address = LOWER('%{Connection:Client-Mac-Address-NoDelim}') and jsonb\_exists\_all(te.attributes, '{social\_password}') |  |
| Social | SELECT te.attributes->>'social\_method' AS SP FROM tips\_endpoints as te WHERE te.mac\_address = LOWER('%{Connection:Client-Mac-Address-NoDelim}') and jsonb\_exists\_all(te.attributes, '{social\_method}') | SP |

Table - Auth Source Filters : [Social Login Repository]

### 1.4.3.10 Authentication Source: [Zone Cache Repository]

|  |  |
| --- | --- |
| Id | 100 |
| Name | [Zone Cache Repository] |
| Description | Access attributes cached by Context Server Actions in previous sessions |
| Type | HTTP |
| Authorization | True |

Table - Authentification Source: [Zone Cache Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| Example | /policyresult/%{Connection:Client-Mac-Address-NoDelim} | username |

Table - Auth Source Filters : [Zone Cache Repository]

| Name | Value |
| --- | --- |
| login\_user\_name | admin |
| timeout | 60 |
| base\_URL | http://localhost/battery/buckets |

Table - Primary Auth Source Connection Details : [Zone Cache Repository]

### 1.4.3.11 Authentication Source: CarbonBlack-authz

|  |  |
| --- | --- |
| Id | 3056 |
| Name | CarbonBlack-authz |
| Description | CarbonBlack Response authZ |
| Type | HTTP |
| Authorization | True |

Table - Authentification Source: CarbonBlack-authz

| Name | Query | Attribute |
| --- | --- | --- |
| cb-response | ?macAddress=%{Connection:Client-Mac-Address-Hyphen} | isFound status sensor\_health\_status totalAlerts build\_version\_string is\_isolating network\_isolation\_enabled sensor\_health\_message last\_checkin\_time |

Table - Auth Source Filters : CarbonBlack-authz

| Name | Value |
| --- | --- |
| login\_user\_name | notused |
| login\_password | t0RNit7ZVoWhmX4n3PU2uQ== |
| timeout | 60 |
| base\_URL | http://172.17.0.2 |

Table - Primary Auth Source Connection Details : CarbonBlack-authz

### 1.4.3.12 Authentication Source: epo-authz

|  |  |
| --- | --- |
| Id | 3022 |
| Name | epo-authz |
| Description |  |
| Type | HTTP |
| Authorization | True |

Table - Authentification Source: epo-authz

| Name | Query | Attribute |
| --- | --- | --- |
| ePO-Attributes | ?macAddress=%{Connection:Client-Mac-Address-NoDelim} | EPOLeafNode.ManagedState EPOComputerProperties.OSServicePackVer EPOComputerProperties.OSVersion EPOLeafNode.LastUpdate EPOLeafNode.AgentVersion EPOComputerProperties.DomainName EPOComputerProperties.UserName EPOComputerProperties.IPHostName EPOLeafNode.NodeName EPOLeafNode.Tags |

Table - Auth Source Filters : epo-authz

| Name | Value |
| --- | --- |
| login\_user\_name | ePO\_user |
| login\_password | 5XUkpg5sDQJpdt88F7g9CA== |
| timeout | 60 |
| base\_URL | http://172.17.0.6 |

Table - Primary Auth Source Connection Details : epo-authz

### 1.4.3.13 Authentication Source: OpenLDAP

|  |  |
| --- | --- |
| Id | 3012 |
| Name | OpenLDAP |
| Description |  |
| Type | Ldap |
| Authorization | True |

Table - Authentification Source: OpenLDAP

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | (&(uid=%{Authentication:Username})(objectClass=\*)) | dn |
| Group | (&(member=%{UserDN})(objectClass=groupOfNames)) | cn |

Table - Auth Source Filters : OpenLDAP

| Name | Value |
| --- | --- |
| host\_name | 10.79.254.115 |
| connection\_security | None |
| connection\_port | 389 |
| bind\_DN | cn=Manager,dc=arubademo,dc=net |
| bind\_password | qzcD5Ie89LYqJsr4zPAyJw== |
| base\_DN | dc=arubademo,dc=net |
| search\_scope | SubTree\_Search |
| bind\_user | True |
| user\_certificate | userCertificate |
| password\_attribute | userPassword |
| password\_type | ClearText |

Table - Primary Auth Source Connection Details : OpenLDAP

### 1.4.3.14 Authentication Source: CP Guest DB

|  |  |
| --- | --- |
| Id | 3021 |
| Name | CP Guest DB |
| Description | ClearPass Guest DB Access |
| Type | Sql |
| Authorization | True |

Table - Authentification Source: CP Guest DB

| Name | Query | Attribute |
| --- | --- | --- |
| CPUser | Select username as User\_Name, password as User\_Password, coalesce(notes, '') as user\_notes, email as user\_email FROM useraccount WHERE to\_timestamp(expire\_time) > now () AND enabled=1 AND username = '%{Authentication:Username}'; | User\_Name user\_email user\_notes to\_timestamp |

Table - Auth Source Filters : CP Guest DB

| Name | Value |
| --- | --- |
| password\_type | ClearText |
| server\_name | 10.79.254.207 |
| database\_name | amigopod |
| login\_user\_name | amigopod |
| login\_password | 9bm4JkDMSn2HWFlU51i7wQ== |
| timeout | 10 |
| odbc\_type | PostgreSQL |

Table - Primary Auth Source Connection Details : CP Guest DB

### 1.4.3.15 Authentication Source: Microsoft Intune

|  |  |
| --- | --- |
| Id | 3083 |
| Name | Microsoft Intune |
| Description | Microsoft Intune authorization source |
| Type | HTTP |
| Authorization | True |

Table - Authentification Source: Microsoft Intune

| Name | Query | Attribute |
| --- | --- | --- |
| intune-filter | ?macAddress=%{Connection:Client-Mac-Address-NoDelim} | msft\_imei msft\_deviceOwner msft\_azureDeviceId msft\_complianceState msft\_isManaged msft\_lastContactTimeUtc msft\_meid msft\_macAddress msft\_manufacturer msft\_model msft\_osVersion msft\_serialNumber msft\_udid |

Table - Auth Source Filters : Microsoft Intune

| Name | Value |
| --- | --- |
| login\_user\_name | dontcare |
| login\_password | 4X+H4JvBGP5gwEoeaBPIMA== |
| timeout | 60 |
| base\_URL | http://172.17.0.3 |

Table - Primary Auth Source Connection Details : Microsoft Intune

### 1.4.3.16 Authentication Source: SEEL AD - OnDemand Demo Accounts -AMS

|  |  |
| --- | --- |
| Id | 3065 |
| Name | SEEL AD - OnDemand Demo Accounts -AMS |
| Description |  |
| Type | AD |
| Authorization | True |

Table - Authentification Source: SEEL AD - OnDemand Demo Accounts -AMS

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | (&(sAMAccountName=%{Authentication:Username})(objectClass=user)) | dn department title company memberOf telephoneNumber mail displayName |
| Group | (distinguishedName=%{memberOf}) | cn |
| Machine | (&(sAMAccountName=%{Host:Name}$)(objectClass=computer)) | dNSHostName operatingSystem operatingSystemServicePack |
| Onboard Device Owner | (&(sAMAccountName=%{Onboard:Owner})(objectClass=user)) | memberOf |
| Onboard Device Owner Group | (distinguishedName=%{Onboard memberOf}) | cn |
| Nested Groups | (member:1.2.840.113556.1.4.1941:=%{UserDN}) | cn |

Table - Auth Source Filters : SEEL AD - OnDemand Demo Accounts -AMS

| Name | Value |
| --- | --- |
| host\_name | dc-ams-1.arubademo.net |
| connection\_security | None |
| connection\_port | 389 |
| bind\_DN | clearpass-bind@arubademo.net |
| bind\_password | KTHWMKvqzusSrxtk1r2y5O2hG8axhPlpU1ktIE46sSc= |
| net\_BIOS\_domain\_name | ARUBADEMO |
| base\_DN | dc=arubademo,dc=net |
| search\_scope | SubTree\_Search |
| bind\_user | True |
| user\_certificate | userCertificate |

Table - Primary Auth Source Connection Details : SEEL AD - OnDemand Demo Accounts -AMS

### 1.4.3.17 Authentication Source: SEEL AD - OnDemand Email Attribute

|  |  |
| --- | --- |
| Id | 3001 |
| Name | SEEL AD - OnDemand Email Attribute |
| Description | OnDemand email account authentication |
| Type | AD |
| Authorization | True |

Table - Authentification Source: SEEL AD - OnDemand Email Attribute

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | (&(userPrincipalName=%{Authentication:Username})(objectClass=user)) | dn department title company memberOf telephoneNumber mail displayName accountExpires userPrincipalName |
| Group | (distinguishedName=%{memberOf}) | cn |
| Machine | (&(sAMAccountName=%{Host:Name}$)(objectClass=computer)) | dNSHostName operatingSystem operatingSystemServicePack |
| Onboard Device Owner | (&(sAMAccountName=%{Onboard:Owner})(objectClass=user)) | memberOf |
| Onboard Device Owner Group | (distinguishedName=%{Onboard memberOf}) | cn |

Table - Auth Source Filters : SEEL AD - OnDemand Email Attribute

| Name | Value |
| --- | --- |
| host\_name | dc-sjc.arubademo.net |
| connection\_security | None |
| connection\_port | 389 |
| bind\_DN | clearpass-bind@arubademo.net |
| bind\_password | KTHWMKvqzusSrxtk1r2y5O2hG8axhPlpU1ktIE46sSc= |
| verify\_server\_certificate | True |
| net\_BIOS\_domain\_name | ARUBADEMO |
| base\_DN | dc=arubademo,dc=net |
| search\_scope | SubTree\_Search |
| bind\_user | True |
| user\_certificate | userCertificate |

Table - Primary Auth Source Connection Details : SEEL AD - OnDemand Email Attribute

### 1.4.3.18 Authentication Source: SEEL AD - OnDemand Demo Accounts

|  |  |
| --- | --- |
| Id | 3010 |
| Name | SEEL AD - OnDemand Demo Accounts |
| Description |  |
| Type | AD |
| Authorization | True |

Table - Authentification Source: SEEL AD - OnDemand Demo Accounts

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | (&(sAMAccountName=%{Authentication:Username})(objectClass=user)) | dn department title company memberOf telephoneNumber mail displayName |
| Group | (distinguishedName=%{memberOf}) | cn |
| Machine | (&(sAMAccountName=%{Host:Name}$)(objectClass=computer)) | dNSHostName operatingSystem operatingSystemServicePack |
| Onboard Device Owner | (&(sAMAccountName=%{Onboard:Owner})(objectClass=user)) | memberOf |
| Onboard Device Owner Group | (distinguishedName=%{Onboard memberOf}) | cn |
| Nested Groups | (member:1.2.840.113556.1.4.1941:=%{UserDN}) | cn |

Table - Auth Source Filters : SEEL AD - OnDemand Demo Accounts

| Name | Value |
| --- | --- |
| host\_name | dc-sjc.arubademo.net |
| connection\_security | None |
| connection\_port | 389 |
| bind\_DN | clearpass-bind@arubademo.net |
| bind\_password | KTHWMKvqzusSrxtk1r2y5O2hG8axhPlpU1ktIE46sSc= |
| net\_BIOS\_domain\_name | ARUBADEMO |
| base\_DN | dc=arubademo,dc=net |
| search\_scope | SubTree\_Search |
| bind\_user | True |
| user\_certificate | userCertificate |

Table - Primary Auth Source Connection Details : SEEL AD - OnDemand Demo Accounts

### 1.4.3.19 Authentication Source: Copy\_of\_SEEL AD - OnDemand Demo Accounts

|  |  |
| --- | --- |
| Id | 3104 |
| Name | Copy\_of\_SEEL AD - OnDemand Demo Accounts |
| Description |  |
| Type | AD |
| Authorization | True |

Table - Authentification Source: Copy\_of\_SEEL AD - OnDemand Demo Accounts

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | (&(sAMAccountName=%{Authentication:Username})(objectClass=user)) | dn department title company memberOf telephoneNumber mail displayName |
| Group | (distinguishedName=%{memberOf}) | cn |
| Machine | (&(sAMAccountName=%{Host:Name}$)(objectClass=computer)) | dNSHostName operatingSystem operatingSystemServicePack |
| Onboard Device Owner | (&(sAMAccountName=%{Onboard:Owner})(objectClass=user)) | memberOf |
| Onboard Device Owner Group | (distinguishedName=%{Onboard memberOf}) | cn |
| Nested Groups | (member:1.2.840.113556.1.4.1941:=%{UserDN}) | cn |

Table - Auth Source Filters : Copy\_of\_SEEL AD - OnDemand Demo Accounts

| Name | Value |
| --- | --- |
| host\_name | dc-sjc.arubademo.net |
| connection\_security | None |
| connection\_port | 389 |
| bind\_DN | clearpass-bind@arubademo.net |
| bind\_password | KTHWMKvqzusSrxtk1r2y5O2hG8axhPlpU1ktIE46sSc= |
| net\_BIOS\_domain\_name | ARUBADEMO |
| base\_DN | dc=arubademo,dc=net |
| search\_scope | SubTree\_Search |
| bind\_user | True |
| user\_certificate | userCertificate |

Table - Primary Auth Source Connection Details : Copy\_of\_SEEL AD - OnDemand Demo Accounts

### 1.4.3.20 Authentication Source: Anycorp

|  |  |
| --- | --- |
| Id | 3117 |
| Name | Anycorp |
| Description |  |
| Type | AD |
| Authorization | True |

Table - Authentification Source: Anycorp

| Name | Query | Attribute |
| --- | --- | --- |
| Authentication | (&(sAMAccountName=%{Authentication:Username})(objectClass=user)) | distinguishedName department title company memberOf telephoneNumber mail displayName accountExpires |
| Group | (distinguishedName=%{memberOf}) | cn |
| Machine | (&(sAMAccountName=%{Host:Name}$)(objectClass=computer)) | dNSHostName operatingSystem operatingSystemServicePack |
| Onboard Device Owner | (&(sAMAccountName=%{Onboard:Owner})(objectClass=user)) | memberOf |
| Onboard Device Owner Group | (distinguishedName=%{Onboard memberOf}) | cn |

Table - Auth Source Filters : Anycorp

| Name | Value |
| --- | --- |
| host\_name | acdc1.anycorp.co |
| connection\_security | None |
| connection\_port | 389 |
| bind\_DN | administrator@anycorp.co |
| bind\_password | M5SKTDknP6NAiwyZWs2gdw== |
| net\_BIOS\_domain\_name | ANYCORP |
| base\_DN | dc=anycorp,dc=co |
| search\_scope | SubTree\_Search |
| bind\_user | True |
| user\_certificate | userCertificate |
| replace\_special\_char | True |

Table - Primary Auth Source Connection Details : Anycorp

### 1.4.3.21 Authentication Source: [Insight Repository]

|  |  |
| --- | --- |
| Id | 8 |
| Name | [Insight Repository] |
| Description | Insight database with session information for users and devices |
| Type | Local |
| Authorization | True |

Table - Authentification Source: [Insight Repository]

| Name | Query | Attribute |
| --- | --- | --- |
| WebAuth Check | SELECT 'True' AS status FROM auth WHERE  (mac = '%{Connection:Client-Mac-Address-NoDelim}') AND  (protocol = 'WEBAUTH') AND  (timestamp BETWEEN (now() - interval '10 days') AND now()) limit 1 | status |
| MAC Caching | SELECT FLOOR(EXTRACT(EPOCH FROM (NOW() - user\_auth\_at)))::integer AS seconds\_since\_auth, FLOOR((EXTRACT(EPOCH FROM (NOW() - user\_auth\_at)))/60)::integer AS minutes\_since\_auth, FLOOR((EXTRACT(EPOCH FROM (NOW() - user\_auth\_at)))/3600)::integer AS hours\_since\_auth, FLOOR((EXTRACT(EPOCH FROM (NOW() - user\_auth\_at)))/86400)::integer AS days\_since\_auth FROM endpoints WHERE endpoints.user\_auth\_at < NOW() AND endpoints.username = '%{Endpoint:Username}' AND endpoints.mac = '%{Connection:Client-Mac-Address-NoDelim}' | seconds\_since\_auth minutes\_since\_auth hours\_since\_auth days\_since\_auth |
| Successful Login count since midnight | SELECT COUNT(\*) AS login\_count FROM auth WHERE error\_code = 0 AND username = '%{Authentication:Username}' AND auth.auth\_status != 'MAB' AND timestamp BETWEEN date\_trunc('day', NOW()) AND date\_trunc('day', NOW() + INTERVAL '1 day'); | login\_count |
| Active Sessions | SELECT COUNT(\*) AS active\_count FROM radius\_acct WHERE (username = '%{Authentication:Username}' OR calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}') AND start\_time >= NOW() - INTERVAL '2 day' AND end\_time is NULL; | active\_count |
| Online Status | SELECT end\_time IS null AS online FROM radius\_acct WHERE calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}' AND start\_time >= NOW() - INTERVAL '2 day' ORDER BY updated\_at DESC LIMIT 1; | online |
| Daily duration | SELECT sum(duration) as daily\_duration from radius\_acct WHERE calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}' AND start\_time >= NOW() - INTERVAL '1 day' ; | daily\_duration |
| Weekly duration | SELECT sum(duration) as weekly\_duration from radius\_acct WHERE calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}' AND start\_time >= NOW() - INTERVAL '1 week'; | weekly\_duration |
| Monthly duration | SELECT sum(duration) as monthly\_duration from radius\_acct WHERE calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}' AND start\_time >= NOW() - INTERVAL '1 month'; | monthly\_duration |
| Daily duration by username | SELECT sum(duration) as daily\_duration\_by\_username from radius\_acct WHERE (username = '%{Authentication:Username}' OR calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}') AND start\_time >= NOW() - INTERVAL '1 day' ; | daily\_duration\_by\_username |
| Weekly duration by username | SELECT sum(duration) as weekly\_duration\_by\_username from radius\_acct WHERE (username = '%{Authentication:Username}' OR calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}') AND start\_time >= NOW() - INTERVAL '1 week'; | weekly\_duration\_by\_username |
| Monthly duration by username | SELECT sum(duration) as monthly\_duration\_by\_username from radius\_acct WHERE (username = '%{Authentication:Username}' OR calling\_station\_id = '%{Connection:Client-Mac-Address-NoDelim}') AND start\_time >= NOW() - INTERVAL '1 month'; | monthly\_duration\_by\_username |
| cert\_valid | SELECT 'True' as cert\_valid FROM onboard\_certificates WHERE mac\_address = UPPER('%{Connection:Client-Mac-Address-Colon}') AND deleted\_at IS NULL AND revoked\_at IS NULL AND valid\_to > Now(); | cert\_valid |

Table - Auth Source Filters : [Insight Repository]

## 1.5 Certificate

The following section details Certificate settings configured on ClearPass.

### 1.5.1 Server Certificate

The following section provides a summary of Certificate settings.

| Id | Service Name | Subject | Issue Date | Expiry Date | Validity | Enable |
| --- | --- | --- | --- | --- | --- | --- |
| 7 | HTTPS(RSA) | CN=\*.arubademo.net | Jul 24, 2023 12:43:51 PDT | Jul 20, 2024 13:32:07 PDT | Valid | True |
| 2 | HTTPS(ECC) | CN=clearpass-sjc2.arubademo.net | Jun 08, 2023 15:39:53 PDT | Jun 07, 2025 15:39:53 PDT | Valid | False |
| 1 | RADIUS | CN=secure.arubademo.net | Feb 12, 2023 19:21:15 PST | Mar 15, 2024 20:21:15 PDT | Valid | True |
| 21 | RadSec | CN=clearpass-sjc2.arubademo.net | Nov 20, 2019 13:38:12 PST | May 11, 2025 14:38:12 PDT | Valid | True |
| 106 |  | O=PolicyManager, CN=clearpass-sjc2.arubademo.net | Mar 18, 2022 16:42:27 PDT | Mar 18, 2027 16:42:27 PDT | Valid | True |

Table - Certificate clearpass-sjc2.arubademo.net

| Id | Service Name | Subject | Issue Date | Expiry Date | Validity | Enable |
| --- | --- | --- | --- | --- | --- | --- |
| 7 | HTTPS(RSA) | CN=\*.arubademo.net | Jul 24, 2023 12:43:51 PDT | Jul 20, 2024 13:32:07 PDT | Valid | True |
| 2 | HTTPS(ECC) | CN=clearpass-ins.arubademo.net | Jun 08, 2023 15:43:17 PDT | Jun 07, 2025 15:43:17 PDT | Valid | False |
| 1 | RADIUS | CN=secure.arubademo.net | Feb 12, 2023 19:21:15 PST | Mar 15, 2024 20:21:15 PDT | Valid | True |
| 21 | RadSec | O=PolicyManager, CN=clearpass-ins.arubademo.net | Aug 12, 2021 12:57:11 PDT | Aug 02, 2023 12:57:11 PDT | Invalid | True |
| 106 |  | O=PolicyManager, CN=clearpass-ins.arubademo.net | Mar 18, 2022 16:42:28 PDT | Mar 18, 2027 16:42:28 PDT | Valid | True |

Table - Certificate clearpass-ins.arubademo.net

| Id | Service Name | Subject | Issue Date | Expiry Date | Validity | Enable |
| --- | --- | --- | --- | --- | --- | --- |
| 7 | HTTPS(RSA) | CN=\*.arubademo.net | Jul 24, 2023 12:43:51 PDT | Jul 20, 2024 13:32:07 PDT | Valid | True |
| 2 | HTTPS(ECC) | CN=clearpass-sjc1.arubademo.net | Jun 08, 2023 15:36:29 PDT | Jun 07, 2025 15:36:29 PDT | Valid | False |
| 1 | RADIUS | CN=secure.arubademo.net | Feb 12, 2023 19:21:15 PST | Mar 15, 2024 20:21:15 PDT | Valid | True |
| 21 | RadSec | CN=clearpass-sjc1.arubademo.net | Nov 20, 2019 13:33:46 PST | May 11, 2025 14:33:46 PDT | Valid | True |
| 106 |  | O=PolicyManager, CN=clearpass-sjc1.arubademo.net | Mar 18, 2022 16:36:57 PDT | Mar 18, 2027 16:36:57 PDT | Valid | True |

Table - Certificate clearpass-sjc1.arubademo.net

### 1.5.2 Service Certificate

The following section provides a summary of Service Certificate settings.

| Id | Subject | Issued By | Issue Date | Expiry Date | Validity |
| --- | --- | --- | --- | --- | --- |
| 3147 | CN=\*.arubademo.net | CN=Go Daddy Secure Certificate Authority - G2, OU=http://certs.godaddy.com/repository/, O="GoDaddy.com, Inc.", L=Scottsdale, ST=Arizona, C=US | Jul 24, 2023 12:43:51 PDT | Jul 20, 2024 13:32:07 PDT | Valid |
|  |  |  |  |  |  |

Table - Service Certificate

### 1.5.3 Certificate Trust List Summary

The following section provides a summary of Certificate Trusted List settings.

|  |  |
| --- | --- |
| Certificate Trust List | 60 |
| Certificate Trust List (Enabled) | 27 |

Table - Certificate Summary

### 1.5.4 Certificate Trust List Detail

The following section details Certificate Trust List configured on ClearPass.

| Id | Subject DN | Issue Date | Expiry Date | Enable | Valid | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| 2029 | CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB | 2010/01/18 16:00:00 | 2038/01/18 15:59:59 | True | valid | Others |
| 2012 | OU=Class 3 Public Primary Certification Authority,O=VeriSign\, Inc.,C=US | 1996/01/28 16:00:00 | 2028/08/02 16:59:59 | False | valid | Others |
| 2019 | CN=GTS Root R2,O=Google Trust Services LLC,C=US | 2016/06/21 17:00:00 | 2036/06/21 17:00:00 | False | valid | Others |
| 2020 | CN=GTS Root R3,O=Google Trust Services LLC,C=US | 2016/06/21 17:00:00 | 2036/06/21 17:00:00 | False | valid | Others |
| 2030 | CN=Hewlett Packard Enterprise Private SSL CA,OU=Infrastructure Services,O=Hewlett Packard Enterprise Company,C=US | 2015/04/22 17:00:00 | 2025/03/15 16:59:59 | True | valid | AD/LDAP Servers, Aruba Services, Endpoint Context Servers, SAML, SMTP, Others |
| 2031 | CN=Starfield Services Root Certificate Authority - G2,O=Starfield Technologies\, Inc.,L=Scottsdale,ST=Arizona,C=US | 2009/09/01 17:00:00 | 2034/06/28 10:39:16 | True | valid | AD/LDAP Servers, Aruba Services, Endpoint Context Servers, SAML, SMTP, Others |
| 3021 | emailAddress=clearpass@arubademo.net,CN=Aruba Demo BYOD Root CA - G1,OU=SE Enablement Lab,O=Aruba,L=Santa Clara,ST=California,C=US | 2018/02/06 10:39:05 | 2028/02/07 11:09:05 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 3031 | CN=venus.hpearubademo.com,DC=hpearubademo,DC=com | 2017/01/10 09:40:38 | 2027/01/10 09:50:38 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 3018 | emailAddress=clearpass@arubademo.net,CN=Aruba Demo Managed Device Signing CA - G1,OU=SE Enablement Lab,O=Aruba,L=Santa Clara,ST=California,C=US | 2018/02/06 10:33:16 | 2028/02/07 11:03:16 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2013 | CN=Alcatel IP Touch,OU=PKI Authority,O=Alcatel,C=FR | 2005/09/28 03:02:47 | 2025/09/28 01:22:04 | False | valid | Others |
| 2003 | OU=Go Daddy Class 2 Certification Authority,O=The Go Daddy Group\, Inc.,C=US | 2004/06/29 10:06:20 | 2034/06/29 10:06:20 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2021 | CN=GTS Root R4,O=Google Trust Services LLC,C=US | 2016/06/21 17:00:00 | 2036/06/21 17:00:00 | False | valid | Others |
| 3004 | CN=Go Daddy Root Certificate Authority - G2,O=GoDaddy.com\, Inc.,L=Scottsdale,ST=Arizona,C=US | 2013/12/31 23:00:00 | 2031/05/30 00:00:00 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2034 | CN=Entrust Root Certification Authority,OU=(c) 2006 Entrust\, Inc.,OU=www.entrust.net/CPS is incorporated by reference,O=Entrust\, Inc.,C=US | 2006/11/27 12:23:42 | 2026/11/27 12:53:42 | False | valid | Others |
| 2024 | CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4 | 2012/11/12 16:00:00 | 2038/01/18 19:14:07 | False | valid | Others |
| 2035 | CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS\_2048 incorp. by ref. (limits liab.),O=Entrust.net | 1999/12/24 09:50:51 | 2029/07/24 07:15:12 | False | valid | Others |
| 2001 | CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL | 2002/06/11 03:46:39 | 2027/06/11 03:46:39 | False | valid | Others |
| 2009 | CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US | 1999/09/30 17:00:00 | 2036/07/16 16:59:59 | False | valid | Others |
| 2010 | CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=(c) 2006 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US | 2006/11/07 16:00:00 | 2036/07/16 16:59:59 | False | valid | Others |
| 2002 | CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE | 1998/09/01 05:00:00 | 2028/01/28 04:00:00 | False | valid | Others |
| 2006 | CN=TC TrustCenter Universal CA I,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE | 2006/03/22 07:54:28 | 2025/12/31 14:59:59 | False | valid | Others |
| 2037 | CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US | 2006/11/26 16:00:00 | 2036/07/16 16:59:59 | False | valid | Others |
| 3017 | CN=COMODO RSA Domain Validation Secure Server CA,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB | 2014/02/11 16:00:00 | 2029/02/11 15:59:59 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2023 | CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US | 2006/11/09 16:00:00 | 2031/11/09 16:00:00 | True | valid | Aruba Services, Others |
| 2011 | OU=VeriSign Trust Network,OU=(c) 1998 VeriSign\, Inc. - For authorized use only,OU=Class 3 Public Primary Certification Authority - G2,O=VeriSign\, Inc.,C=US | 1998/05/17 17:00:00 | 2028/08/01 16:59:59 | False | valid | Others |
| 3023 | emailAddress=clearpass@arubademo.net,CN=Aruba Demo Infrastructure Root CA - G1,OU=SE Enablement Lab,O=Aruba,L=Santa Clara,ST=California,C=US | 2018/02/06 10:43:01 | 2028/02/07 11:13:01 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2027 | C=US,ST=CA,O=Hewlett-Packard Development Company,CN=HP Devices CA 01 | 2011/01/24 17:30:27 | 2038/01/18 19:14:07 | False | valid | Aruba Infrastructure |
| 2025 | CN=Aruba Networks Trusted Computing Root CA 1.0,C=US,O=Aruba Networks,OU=Operations,OU=DeviceTrust | 2007/09/13 20:12:06 | 2032/09/13 20:21:14 | True | valid | AD/LDAP Servers, Endpoint Context Servers, SAML, SMTP, Others |
| 3014 | CN=Go Daddy Root Certificate Authority - G2,O=GoDaddy.com\, Inc.,L=Scottsdale,ST=Arizona,C=US | 2009/08/31 17:00:00 | 2037/12/31 15:59:59 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2032 | CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US | 2006/11/09 16:00:00 | 2031/11/09 16:00:00 | False | valid | Others |
| 3019 | emailAddress=clearpass@arubademo.net,CN=Aruba Demo Managed Device Root CA - G1,OU=SE Enablement Lab,O=Aruba,L=Santa Clara,ST=California,C=US | 2018/02/06 10:33:16 | 2028/02/07 11:03:16 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2008 | CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US | 1999/09/30 17:00:00 | 2036/07/16 16:59:59 | True | valid | AD/LDAP Servers, Endpoint Context Servers, SAML, SMTP, Others |
| 2016 | CN=Alcatel Enterprise Solutions,OU=PKI Authority,O=Alcatel,C=FR | 2005/09/28 03:03:42 | 2055/09/28 03:11:08 | False | valid | Others |
| 3002 | emailAddress=7993f9bb-11f4-425b-a197-6fe30ec23183@example.com,CN=ClearPass Onboard Local Certificate Authority,O=Aruba Networks,L=Sunnyvale,ST=California,C=US | 2017/12/08 06:16:27 | 2027/12/09 06:46:27 | True | valid | EAP, Others |
| 3028 | CN=Hewlett Packard Enterprise Private Root CA,OU=Infrastructure Services,O=Hewlett Packard Enterprise Company,C=US | 2015/03/16 17:00:00 | 2025/03/16 16:59:59 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 3020 | emailAddress=clearpass@arubademo.net,CN=Aruba Demo BYOD Signing CA - G1,OU=SE Enablement Lab,O=Aruba,L=Santa Clara,ST=California,C=US | 2018/02/06 10:39:05 | 2028/02/07 11:09:05 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 3001 | emailAddress=7993f9bb-11f4-425b-a197-6fe30ec23183@example.com,CN=ClearPass Onboard Local Certificate Authority (Signing),O=Aruba Networks,L=Sunnyvale,ST=California,C=US | 2017/12/08 06:16:27 | 2027/12/09 06:46:27 | True | valid | EAP, Others |
| 3003 | CN=Go Daddy Secure Certificate Authority - G2,OU=http://certs.godaddy.com/repository/,O=GoDaddy.com\, Inc.,L=Scottsdale,ST=Arizona,C=US | 2011/05/03 00:00:00 | 2031/05/03 00:00:00 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2005 | CN=SecureTrust CA,O=SecureTrust Corporation,C=US | 2006/11/07 11:31:18 | 2029/12/31 11:40:55 | False | valid | Others |
| 2007 | CN=thawte Primary Root CA,OU=(c) 2006 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US | 2006/11/16 16:00:00 | 2036/07/16 16:59:59 | False | valid | Others |
| 2028 | CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US | 2010/01/31 16:00:00 | 2038/01/18 15:59:59 | True | valid | Others |
| 3035 | CN=Sectigo RSA Domain Validation Secure Server CA,O=Sectigo Limited,L=Salford,ST=Greater Manchester,C=GB | 2018/11/01 17:00:00 | 2030/12/31 15:59:59 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2014 | CN=Alcatel Contact Center Solutions,OU=PKI Authority,O=Alcatel,C=FR | 2005/09/28 01:32:18 | 2025/09/28 01:22:04 | False | valid | Others |
| 3032 | CN=RootCA.hpearubademo.com,DC=hpearubademo,DC=com | 2017/01/10 01:08:36 | 2037/01/10 01:18:36 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 3022 | emailAddress=clearpass@arubademo.net,CN=Aruba Demo Infrastructure Signing CA - G1,OU=SE Enablement Lab,O=Aruba,L=Santa Clara,ST=California,C=US | 2018/02/06 10:43:01 | 2028/02/07 11:13:01 | True | valid | AD/LDAP Servers, EAP, Endpoint Context Servers, SAML, SMTP, Others |
| 2017 | CN=DoD Root CA 2,OU=PKI,OU=DoD,O=U.S. Government,C=US | 2004/12/13 07:00:10 | 2029/12/05 07:00:10 | False | valid | Others |
| 2018 | CN=GTS Root R1,O=Google Trust Services LLC,C=US | 2016/06/21 17:00:00 | 2036/06/21 17:00:00 | False | valid | Others |
| 2015 | CN=Wired Phones,OU=PKI Authority,O=Alcatel-Lucent,C=FR | 2010/01/28 03:20:34 | 2040/01/28 03:30:34 | False | valid | Others |
| 3342 | C=US,ST=CA,O=Hewlett-Packard Development Company,OU=HP Networking EVPG,CN=Device Intermediate CA 01 | 2011/01/24 17:55:09 | 2031/01/25 17:55:09 | False | valid | Others |
| 3343 | C=US,ST=CA,O=Hewlett-Packard Development Company,OU=HP Networking,CN=HP Device Intermediate CA 103 | 2013/12/03 10:35:19 | 2031/01/25 17:55:09 | False | valid | Others |
| 3344 | CN=Aruba Networks Trusted Computing Issuing CA 1,DC=devicesign,DC=arubanetworks,DC=com | 2016/12/16 12:49:44 | 2032/09/13 20:21:14 | False | valid | Others |
| 3378 | CN=\*.arubademo.net | 2023/07/24 12:43:51 | 2024/07/20 13:32:07 | True | valid | AD/LDAP Servers |
| 3345 | CN=Aruba Networks Trusted Computing Issuing CA 2,DC=devicesign,DC=arubanetworks,DC=com | 2017/02/07 14:22:02 | 2032/09/13 20:21:14 | False | valid | Others |
| 3346 | CN=Aruba Networks Trusted Computing Issuing CA 3,DC=devicesign,DC=arubanetworks,DC=com | 2016/12/16 12:49:54 | 2032/09/13 20:21:14 | False | valid | Others |
| 3347 | CN=Aruba Networks Trusted Computing Policy CA 1.0,OU=Operations,OU=DeviceTrust,O=Aruba Networks,C=US | 2007/09/17 14:42:52 | 2032/09/13 20:21:14 | False | valid | Others |
| 3348 | CN=Aruba Networks Trusted Computing Policy CA 2.0,OU=Operations,OU=DeviceTrust,O=Aruba Networks,C=US | 2016/11/30 16:45:05 | 2032/09/13 20:21:14 | False | valid | Others |
| 3349 | CN=DEVICE-CA1,DC=ca,DC=arubanetworks,DC=com | 2008/07/25 15:01:58 | 2032/09/13 20:21:14 | False | valid | Others |
| 3350 | CN=device-ca5,DC=dc-device-ca5,DC=arubanetworks,DC=com | 2014/01/09 14:43:09 | 2032/09/13 20:21:14 | False | valid | Others |
| 3366 | CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB | 2003/12/31 16:00:00 | 2028/12/31 15:59:59 | True | valid | AD/LDAP Servers, Endpoint Context Servers, SAML, SMTP, Others |
| 2026 | CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US | 2013/08/01 05:00:00 | 2038/01/15 04:00:00 | True | valid | AD/LDAP Servers, Aruba Services, Endpoint Context Servers, SAML, SMTP, Others |

Table - Certificate Trust Lis

## 1.6 Service

The following section details Service settings configured on ClearPass.

### 1.6.1 Summary

The following section details Settings Summary configured on ClearPass.

|  |  |
| --- | --- |
| Service | 88 (default: 6) |
| Service Enabled | 62 (default: 6) |

Table - Service Summary

### 1.6.2 Service

The following section details Service configured on ClearPass.

| Id | Name | Type | Enabled | No | Policy |
| --- | --- | --- | --- | --- | --- |
| 3013 | -----ClearPass Access----- | Application | False | 1 |  |
| 3001 | ClearPass Local TACACS | TACACS | True | 2 |  |
| 3006 | ClearPass SAML IDP | Application | True | 3 |  |
| 3005 | ClearPass SSO Insight | Application | True | 4 |  |
| 3010 | ClearPass SSO GuestOperators | Application | True | 5 |  |
| 3097 | ClearPass Device Registration Disconnect | WEBAUTH | True | 6 |  |
| 3118 | ClearPass API Oauth2 | Application | True | 7 |  |
| 3016 | -----ClearPass Onboard----- | RADIUS | False | 8 |  |
| 3007 | OnBoard Pre Auth | RADIUS | True | 9 |  |
| 3008 | OnBoard Authorization | RADIUS | True | 10 |  |
| 3014 | -----Aruba Wireless Access----- | RADIUS | False | 11 |  |
| 3087 | SEEL AirGroup | RADIUS | True | 12 |  |
| 3132 | ShowCase Wireless Secure | RADIUS | True | 13 |  |
| 3141 | DFW-MIA-DS2-Wireless Secure | RADIUS | True | 14 |  |
| 3072 | DS2-Wireless Secure | RADIUS | False | 15 |  |
| 3073 | DS2-Wireless Guest | RADIUS | False | 16 |  |
| 3074 | DS2-Wireless Guest MAC | RADIUS | False | 17 |  |
| 3045 | Wireless Secure | RADIUS | True | 18 |  |
| 3011 | Wireless Guest | RADIUS | True | 19 |  |
| 3012 | Wireless Guest MAC | RADIUS | True | 20 |  |
| 3096 | Wireless MPSK | RADIUS | True | 21 |  |
| 3135 | Lab-AP\_Wireless Secure | RADIUS | False | 22 |  |
| 3022 | -----Aruba Wired Access----- | RADIUS | False | 23 |  |
| 3021 | ArubaOS Switch TACACS | TACACS | True | 24 |  |
| 3028 | Wired OnBoard Pre Auth | Application | True | 25 |  |
| 3133 | ShowCase Wireless Guest | RADIUS | True | 26 |  |
| 3134 | ShowCase Wireless Guest MAC | RADIUS | True | 27 |  |
| 3027 | Wired OnBoard Authorization | Application | True | 28 |  |
| 3126 | Dynamic Segmentation Demo Wired Secure - AOSCX Test | RADIUS | False | 29 |  |
| 3124 | Dynamic Segmentation Demo Wired Secure - AOSCX | RADIUS | True | 30 |  |
| 3091 | Wired Secure - AOSS (DS) | RADIUS | True | 31 |  |
| 3067 | Wired Secure - AOSS | RADIUS | True | 32 |  |
| 3092 | Wired MAC - AOSS (DS) | RADIUS | True | 33 |  |
| 3127 | DynamicSegDemoBeta Wired MAC - AOSCX Test | RADIUS | False | 34 |  |
| 3125 | DynamicSegDemo Wired MAC - AOSCX | RADIUS | True | 35 |  |
| 3068 | Wired MAC - AOSS | RADIUS | True | 36 |  |
| 3128 | Wired Web Auth - CX | WEBAUTH | True | 37 |  |
| 3024 | Wired Web Auth - AOSS | WEBAUTH | True | 38 |  |
| 3029 | Wired OnConnect - AOSS | WEBAUTH | True | 39 |  |
| 3031 | -----Event Based Services----- | Event | False | 40 |  |
| 3030 | IEE Virus Threat - PAN | Event | True | 41 |  |
| 3043 | UEBA Camera-Demo | RADIUS | True | 42 |  |
| 3019 | -----RAP Whitelist Authentication----- | RADIUS | False | 43 |  |
| 3009 | RAP Whitelist Authentication - NAM | RADIUS | True | 44 |  |
| 3017 | RAP Whitelist Authentication - EMEA | RADIUS | True | 45 |  |
| 3018 | RAP Whitelist Authentication - APAC | RADIUS | True | 46 |  |
| 3034 | -----Cisco Wired Access----- | RADIUS | False | 47 |  |
| 3032 | TACACS for Cisco Switches | TACACS | True | 48 |  |
| 3040 | Wired Secure - Cisco | RADIUS | True | 49 |  |
| 3139 | Copy\_of\_Wired MAC - Cisco | RADIUS | True | 50 |  |
| 3038 | Wired MAC - Cisco | RADIUS | True | 51 |  |
| 3042 | Wired Web Auth - Cisco | WEBAUTH | True | 52 |  |
| 3033 | Wired OnConnect - Cisco | WEBAUTH | True | 53 |  |
| 3083 | -----Cisco Wireless Access----- | RADIUS | False | 54 |  |
| 3084 | OnBoard Pre Auth - Cisco | RADIUS | True | 55 |  |
| 3085 | OnBoard Authorization - Cisco | RADIUS | True | 56 |  |
| 3080 | Wireless Secure - Cisco | RADIUS | True | 57 |  |
| 3081 | Wireless Guest - Cisco | RADIUS | True | 58 |  |
| 3082 | Wireless Guest MAC - Cisco | RADIUS | True | 59 |  |
| 3086 | Wireless Web Auth - Cisco | WEBAUTH | True | 60 |  |
| 3103 | Wireless iPSK - Cisco | RADIUS | True | 61 |  |
| 3047 | -----OnGuard Services----- | Application | False | 62 |  |
| 3098 | OnGuard Health Check - Agentless | WEBAUTH | True | 63 |  |
| 3046 | OnGuard Health Check | WEBAUTH | True | 64 |  |
| 3020 | -----ClearPass Default Services----- | Application | False | 65 |  |
| 2 | [AirGroup Authorization Service] | RADIUS | True | 66 |  |
| 10 | [Aruba Device Access Service] | TACACS | True | 67 |  |
| 11 | [Guest Operator Logins] | Application | True | 68 |  |
| 12 | [Insight Operator Logins] | Application | True | 69 |  |
| 13 | [Device Registration Disconnect] | WEBAUTH | True | 70 |  |
| 1 | [Policy Manager Admin Network Login Service] | TACACS | True | 71 |  |
| 3057 | -----Aruba Branch Gateway Access----- | RADIUS | False | 72 |  |
| 3058 | Wired Secure - Branch Gateway | RADIUS | True | 73 |  |
| 3059 | Wired MAC - Branch Gateway | RADIUS | True | 74 |  |
| 3048 | -----Archived Services----- | Application | False | 75 |  |
| 3102 | TEST 802.1X Wireless | RADIUS | False | 76 |  |
| 3111 | TEST 802.1X Wired | RADIUS | False | 77 |  |
| 3107 | UHN OnGuard Health Check - Wired | WEBAUTH | False | 78 |  |
| 3104 | UHN OnGuard Health Check - Agentless OnConnect | WEBAUTH | False | 79 |  |
| 3105 | UHN Wired Secure - Cisco | RADIUS | False | 80 |  |
| 3106 | UHN Wired MAC - Cisco | RADIUS | False | 81 |  |
| 3108 | UHN Wired OnConnect - Cisco | WEBAUTH | False | 82 |  |
| 3123 | Wired Secure - CX | RADIUS | False | 83 |  |
| 3129 | ShowCase Wired Secure | RADIUS | True | 84 |  |
| 3130 | ShowCaseWiredMACAuth | RADIUS | True | 85 |  |
| 3131 | Showcase Wired Web Auth - CX | WEBAUTH | True | 86 |  |
| 3137 | ShowCase DataWifi | RADIUS | True | 87 |  |
| 3140 | StuffAndThings OAuth2 API User Access | Application | True | 88 |  |

Table - Service

The following section details Service configured on ClearPass.

### 1.6.2.1 Service: -----ClearPass Access-----

|  |  |
| --- | --- |
| Name | -----ClearPass Access----- |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | False |
| Order No | 1 |

Table - Service: -----ClearPass Access-----

### 1.6.2.2 Service: ClearPass Local TACACS

|  |  |
| --- | --- |
| Name | ClearPass Local TACACS |
| Type | TACACS |
| Template | TACACS+ Enforcement |
| Enabled | True |
| Order No | 2 |

Table - Service: ClearPass Local TACACS

### 1.6.2.3 Service: ClearPass SAML IDP

|  |  |
| --- | --- |
| Name | ClearPass SAML IDP |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | True |
| Order No | 3 |

Table - Service: ClearPass SAML IDP

### 1.6.2.4 Service: ClearPass SSO Insight

|  |  |
| --- | --- |
| Name | ClearPass SSO Insight |
| Type | Application |
| Template | Aruba Application Authorization |
| Enabled | True |
| Order No | 4 |

Table - Service: ClearPass SSO Insight

### 1.6.2.5 Service: ClearPass SSO GuestOperators

|  |  |
| --- | --- |
| Name | ClearPass SSO GuestOperators |
| Type | Application |
| Template | Aruba Application Authorization |
| Enabled | True |
| Order No | 5 |

Table - Service: ClearPass SSO GuestOperators

### 1.6.2.6 Service: ClearPass Device Registration Disconnect

|  |  |
| --- | --- |
| Name | ClearPass Device Registration Disconnect |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 6 |

Table - Service: ClearPass Device Registration Disconnect

### 1.6.2.7 Service: ClearPass API Oauth2

|  |  |
| --- | --- |
| Name | ClearPass API Oauth2 |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | True |
| Order No | 7 |

Table - Service: ClearPass API Oauth2

### 1.6.2.8 Service: -----ClearPass Onboard-----

|  |  |
| --- | --- |
| Name | -----ClearPass Onboard----- |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | False |
| Order No | 8 |

Table - Service: -----ClearPass Onboard-----

### 1.6.2.9 Service: OnBoard Pre Auth

|  |  |
| --- | --- |
| Name | OnBoard Pre Auth |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 9 |

Table - Service: OnBoard Pre Auth

### 1.6.2.10 Service: OnBoard Authorization

|  |  |
| --- | --- |
| Name | OnBoard Authorization |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 10 |

Table - Service: OnBoard Authorization

### 1.6.2.11 Service: -----Aruba Wireless Access-----

|  |  |
| --- | --- |
| Name | -----Aruba Wireless Access----- |
| Type | RADIUS |
| Template | Aruba 802.1X Wireless |
| Enabled | False |
| Order No | 11 |

Table - Service: -----Aruba Wireless Access-----

### 1.6.2.12 Service: SEEL AirGroup

|  |  |
| --- | --- |
| Name | SEEL AirGroup |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 12 |

Table - Service: SEEL AirGroup

### 1.6.2.13 Service: ShowCase Wireless Secure

|  |  |
| --- | --- |
| Name | ShowCase Wireless Secure |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | True |
| Order No | 13 |

Table - Service: ShowCase Wireless Secure

### 1.6.2.14 Service: DFW-MIA-DS2-Wireless Secure

|  |  |
| --- | --- |
| Name | DFW-MIA-DS2-Wireless Secure |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | True |
| Order No | 14 |

Table - Service: DFW-MIA-DS2-Wireless Secure

### 1.6.2.15 Service: DS2-Wireless Secure

|  |  |
| --- | --- |
| Name | DS2-Wireless Secure |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | False |
| Order No | 15 |

Table - Service: DS2-Wireless Secure

### 1.6.2.16 Service: DS2-Wireless Guest

|  |  |
| --- | --- |
| Name | DS2-Wireless Guest |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | False |
| Order No | 16 |

Table - Service: DS2-Wireless Guest

### 1.6.2.17 Service: DS2-Wireless Guest MAC

|  |  |
| --- | --- |
| Name | DS2-Wireless Guest MAC |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | False |
| Order No | 17 |

Table - Service: DS2-Wireless Guest MAC

### 1.6.2.18 Service: Wireless Secure

|  |  |
| --- | --- |
| Name | Wireless Secure |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | True |
| Order No | 18 |

Table - Service: Wireless Secure

### 1.6.2.19 Service: Wireless Guest

|  |  |
| --- | --- |
| Name | Wireless Guest |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 19 |

Table - Service: Wireless Guest

### 1.6.2.20 Service: Wireless Guest MAC

|  |  |
| --- | --- |
| Name | Wireless Guest MAC |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 20 |

Table - Service: Wireless Guest MAC

### 1.6.2.21 Service: Wireless MPSK

|  |  |
| --- | --- |
| Name | Wireless MPSK |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 21 |

Table - Service: Wireless MPSK

### 1.6.2.22 Service: Lab-AP\_Wireless Secure

|  |  |
| --- | --- |
| Name | Lab-AP\_Wireless Secure |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | False |
| Order No | 22 |

Table - Service: Lab-AP\_Wireless Secure

### 1.6.2.23 Service: -----Aruba Wired Access-----

|  |  |
| --- | --- |
| Name | -----Aruba Wired Access----- |
| Type | RADIUS |
| Template | Aruba 802.1X Wireless |
| Enabled | False |
| Order No | 23 |

Table - Service: -----Aruba Wired Access-----

### 1.6.2.24 Service: ArubaOS Switch TACACS

|  |  |
| --- | --- |
| Name | ArubaOS Switch TACACS |
| Type | TACACS |
| Template | TACACS+ Enforcement |
| Enabled | True |
| Order No | 24 |

Table - Service: ArubaOS Switch TACACS

### 1.6.2.25 Service: Wired OnBoard Pre Auth

|  |  |
| --- | --- |
| Name | Wired OnBoard Pre Auth |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | True |
| Order No | 25 |

Table - Service: Wired OnBoard Pre Auth

### 1.6.2.26 Service: ShowCase Wireless Guest

|  |  |
| --- | --- |
| Name | ShowCase Wireless Guest |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 26 |

Table - Service: ShowCase Wireless Guest

### 1.6.2.27 Service: ShowCase Wireless Guest MAC

|  |  |
| --- | --- |
| Name | ShowCase Wireless Guest MAC |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 27 |

Table - Service: ShowCase Wireless Guest MAC

### 1.6.2.28 Service: Wired OnBoard Authorization

|  |  |
| --- | --- |
| Name | Wired OnBoard Authorization |
| Type | Application |
| Template | Aruba Application Authorization |
| Enabled | True |
| Order No | 28 |

Table - Service: Wired OnBoard Authorization

### 1.6.2.29 Service: Dynamic Segmentation Demo Wired Secure - AOSCX Test

|  |  |
| --- | --- |
| Name | Dynamic Segmentation Demo Wired Secure - AOSCX Test |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | False |
| Order No | 29 |

Table - Service: Dynamic Segmentation Demo Wired Secure - AOSCX Test

### 1.6.2.30 Service: Dynamic Segmentation Demo Wired Secure - AOSCX

|  |  |
| --- | --- |
| Name | Dynamic Segmentation Demo Wired Secure - AOSCX |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | True |
| Order No | 30 |

Table - Service: Dynamic Segmentation Demo Wired Secure - AOSCX

### 1.6.2.31 Service: Wired Secure - AOSS (DS)

|  |  |
| --- | --- |
| Name | Wired Secure - AOSS (DS) |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | True |
| Order No | 31 |

Table - Service: Wired Secure - AOSS (DS)

### 1.6.2.32 Service: Wired Secure - AOSS

|  |  |
| --- | --- |
| Name | Wired Secure - AOSS |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | True |
| Order No | 32 |

Table - Service: Wired Secure - AOSS

### 1.6.2.33 Service: Wired MAC - AOSS (DS)

|  |  |
| --- | --- |
| Name | Wired MAC - AOSS (DS) |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 33 |

Table - Service: Wired MAC - AOSS (DS)

### 1.6.2.34 Service: DynamicSegDemoBeta Wired MAC - AOSCX Test

|  |  |
| --- | --- |
| Name | DynamicSegDemoBeta Wired MAC - AOSCX Test |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | False |
| Order No | 34 |

Table - Service: DynamicSegDemoBeta Wired MAC - AOSCX Test

### 1.6.2.35 Service: DynamicSegDemo Wired MAC - AOSCX

|  |  |
| --- | --- |
| Name | DynamicSegDemo Wired MAC - AOSCX |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 35 |

Table - Service: DynamicSegDemo Wired MAC - AOSCX

### 1.6.2.36 Service: Wired MAC - AOSS

|  |  |
| --- | --- |
| Name | Wired MAC - AOSS |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 36 |

Table - Service: Wired MAC - AOSS

### 1.6.2.37 Service: Wired Web Auth - CX

|  |  |
| --- | --- |
| Name | Wired Web Auth - CX |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 37 |

Table - Service: Wired Web Auth - CX

### 1.6.2.38 Service: Wired Web Auth - AOSS

|  |  |
| --- | --- |
| Name | Wired Web Auth - AOSS |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 38 |

Table - Service: Wired Web Auth - AOSS

### 1.6.2.39 Service: Wired OnConnect - AOSS

|  |  |
| --- | --- |
| Name | Wired OnConnect - AOSS |
| Type | WEBAUTH |
| Template | ClearPass OnConnect Enforcement |
| Enabled | True |
| Order No | 39 |

Table - Service: Wired OnConnect - AOSS

### 1.6.2.40 Service: -----Event Based Services-----

|  |  |
| --- | --- |
| Name | -----Event Based Services----- |
| Type | Event |
| Template | Event-based Enforcement |
| Enabled | False |
| Order No | 40 |

Table - Service: -----Event Based Services-----

### 1.6.2.41 Service: IEE Virus Threat - PAN

|  |  |
| --- | --- |
| Name | IEE Virus Threat - PAN |
| Type | Event |
| Template | Event-based Enforcement |
| Enabled | True |
| Order No | 41 |

Table - Service: IEE Virus Threat - PAN

### 1.6.2.42 Service: UEBA Camera-Demo

|  |  |
| --- | --- |
| Name | UEBA Camera-Demo |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 42 |

Table - Service: UEBA Camera-Demo

### 1.6.2.43 Service: -----RAP Whitelist Authentication-----

|  |  |
| --- | --- |
| Name | -----RAP Whitelist Authentication----- |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | False |
| Order No | 43 |

Table - Service: -----RAP Whitelist Authentication-----

### 1.6.2.44 Service: RAP Whitelist Authentication - NAM

|  |  |
| --- | --- |
| Name | RAP Whitelist Authentication - NAM |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 44 |

Table - Service: RAP Whitelist Authentication - NAM

### 1.6.2.45 Service: RAP Whitelist Authentication - EMEA

|  |  |
| --- | --- |
| Name | RAP Whitelist Authentication - EMEA |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 45 |

Table - Service: RAP Whitelist Authentication - EMEA

### 1.6.2.46 Service: RAP Whitelist Authentication - APAC

|  |  |
| --- | --- |
| Name | RAP Whitelist Authentication - APAC |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 46 |

Table - Service: RAP Whitelist Authentication - APAC

### 1.6.2.47 Service: -----Cisco Wired Access-----

|  |  |
| --- | --- |
| Name | -----Cisco Wired Access----- |
| Type | RADIUS |
| Template | Aruba 802.1X Wireless |
| Enabled | False |
| Order No | 47 |

Table - Service: -----Cisco Wired Access-----

### 1.6.2.48 Service: TACACS for Cisco Switches

|  |  |
| --- | --- |
| Name | TACACS for Cisco Switches |
| Type | TACACS |
| Template | TACACS+ Enforcement |
| Enabled | True |
| Order No | 48 |

Table - Service: TACACS for Cisco Switches

### 1.6.2.49 Service: Wired Secure - Cisco

|  |  |
| --- | --- |
| Name | Wired Secure - Cisco |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | True |
| Order No | 49 |

Table - Service: Wired Secure - Cisco

### 1.6.2.50 Service: Copy\_of\_Wired MAC - Cisco

|  |  |
| --- | --- |
| Name | Copy\_of\_Wired MAC - Cisco |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 50 |

Table - Service: Copy\_of\_Wired MAC - Cisco

### 1.6.2.51 Service: Wired MAC - Cisco

|  |  |
| --- | --- |
| Name | Wired MAC - Cisco |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 51 |

Table - Service: Wired MAC - Cisco

### 1.6.2.52 Service: Wired Web Auth - Cisco

|  |  |
| --- | --- |
| Name | Wired Web Auth - Cisco |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 52 |

Table - Service: Wired Web Auth - Cisco

### 1.6.2.53 Service: Wired OnConnect - Cisco

|  |  |
| --- | --- |
| Name | Wired OnConnect - Cisco |
| Type | WEBAUTH |
| Template | ClearPass OnConnect Enforcement |
| Enabled | True |
| Order No | 53 |

Table - Service: Wired OnConnect - Cisco

### 1.6.2.54 Service: -----Cisco Wireless Access-----

|  |  |
| --- | --- |
| Name | -----Cisco Wireless Access----- |
| Type | RADIUS |
| Template | Aruba 802.1X Wireless |
| Enabled | False |
| Order No | 54 |

Table - Service: -----Cisco Wireless Access-----

### 1.6.2.55 Service: OnBoard Pre Auth - Cisco

|  |  |
| --- | --- |
| Name | OnBoard Pre Auth - Cisco |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 55 |

Table - Service: OnBoard Pre Auth - Cisco

### 1.6.2.56 Service: OnBoard Authorization - Cisco

|  |  |
| --- | --- |
| Name | OnBoard Authorization - Cisco |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 56 |

Table - Service: OnBoard Authorization - Cisco

### 1.6.2.57 Service: Wireless Secure - Cisco

|  |  |
| --- | --- |
| Name | Wireless Secure - Cisco |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | True |
| Order No | 57 |

Table - Service: Wireless Secure - Cisco

### 1.6.2.58 Service: Wireless Guest - Cisco

|  |  |
| --- | --- |
| Name | Wireless Guest - Cisco |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 58 |

Table - Service: Wireless Guest - Cisco

### 1.6.2.59 Service: Wireless Guest MAC - Cisco

|  |  |
| --- | --- |
| Name | Wireless Guest MAC - Cisco |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 59 |

Table - Service: Wireless Guest MAC - Cisco

### 1.6.2.60 Service: Wireless Web Auth - Cisco

|  |  |
| --- | --- |
| Name | Wireless Web Auth - Cisco |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 60 |

Table - Service: Wireless Web Auth - Cisco

### 1.6.2.61 Service: Wireless iPSK - Cisco

|  |  |
| --- | --- |
| Name | Wireless iPSK - Cisco |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 61 |

Table - Service: Wireless iPSK - Cisco

### 1.6.2.62 Service: -----OnGuard Services-----

|  |  |
| --- | --- |
| Name | -----OnGuard Services----- |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | False |
| Order No | 62 |

Table - Service: -----OnGuard Services-----

### 1.6.2.63 Service: OnGuard Health Check - Agentless

|  |  |
| --- | --- |
| Name | OnGuard Health Check - Agentless |
| Type | WEBAUTH |
| Template | Web-based Health Check Only |
| Enabled | True |
| Order No | 63 |

Table - Service: OnGuard Health Check - Agentless

### 1.6.2.64 Service: OnGuard Health Check

|  |  |
| --- | --- |
| Name | OnGuard Health Check |
| Type | WEBAUTH |
| Template | Web-based Health Check Only |
| Enabled | True |
| Order No | 64 |

Table - Service: OnGuard Health Check

### 1.6.2.65 Service: -----ClearPass Default Services-----

|  |  |
| --- | --- |
| Name | -----ClearPass Default Services----- |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | False |
| Order No | 65 |

Table - Service: -----ClearPass Default Services-----

### 1.6.2.66 Service: [AirGroup Authorization Service]

|  |  |
| --- | --- |
| Name | [AirGroup Authorization Service] |
| Type | RADIUS |
| Template | RADIUS Enforcement ( Generic ) |
| Enabled | True |
| Order No | 66 |

Table - Service: [AirGroup Authorization Service]

### 1.6.2.67 Service: [Aruba Device Access Service]

|  |  |
| --- | --- |
| Name | [Aruba Device Access Service] |
| Type | TACACS |
| Template | TACACS+ Enforcement |
| Enabled | True |
| Order No | 67 |

Table - Service: [Aruba Device Access Service]

### 1.6.2.68 Service: [Guest Operator Logins]

|  |  |
| --- | --- |
| Name | [Guest Operator Logins] |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | True |
| Order No | 68 |

Table - Service: [Guest Operator Logins]

### 1.6.2.69 Service: [Insight Operator Logins]

|  |  |
| --- | --- |
| Name | [Insight Operator Logins] |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | True |
| Order No | 69 |

Table - Service: [Insight Operator Logins]

### 1.6.2.70 Service: [Device Registration Disconnect]

|  |  |
| --- | --- |
| Name | [Device Registration Disconnect] |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 70 |

Table - Service: [Device Registration Disconnect]

### 1.6.2.71 Service: [Policy Manager Admin Network Login Service]

|  |  |
| --- | --- |
| Name | [Policy Manager Admin Network Login Service] |
| Type | TACACS |
| Template | TACACS+ Enforcement |
| Enabled | True |
| Order No | 71 |

Table - Service: [Policy Manager Admin Network Login Service]

### 1.6.2.72 Service: -----Aruba Branch Gateway Access-----

|  |  |
| --- | --- |
| Name | -----Aruba Branch Gateway Access----- |
| Type | RADIUS |
| Template | Aruba 802.1X Wireless |
| Enabled | False |
| Order No | 72 |

Table - Service: -----Aruba Branch Gateway Access-----

### 1.6.2.73 Service: Wired Secure - Branch Gateway

|  |  |
| --- | --- |
| Name | Wired Secure - Branch Gateway |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | True |
| Order No | 73 |

Table - Service: Wired Secure - Branch Gateway

### 1.6.2.74 Service: Wired MAC - Branch Gateway

|  |  |
| --- | --- |
| Name | Wired MAC - Branch Gateway |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 74 |

Table - Service: Wired MAC - Branch Gateway

### 1.6.2.75 Service: -----Archived Services-----

|  |  |
| --- | --- |
| Name | -----Archived Services----- |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | False |
| Order No | 75 |

Table - Service: -----Archived Services-----

### 1.6.2.76 Service: TEST 802.1X Wireless

|  |  |
| --- | --- |
| Name | TEST 802.1X Wireless |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | False |
| Order No | 76 |

Table - Service: TEST 802.1X Wireless

### 1.6.2.77 Service: TEST 802.1X Wired

|  |  |
| --- | --- |
| Name | TEST 802.1X Wired |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | False |
| Order No | 77 |

Table - Service: TEST 802.1X Wired

### 1.6.2.78 Service: UHN OnGuard Health Check - Wired

|  |  |
| --- | --- |
| Name | UHN OnGuard Health Check - Wired |
| Type | WEBAUTH |
| Template | Web-based Health Check Only |
| Enabled | False |
| Order No | 78 |

Table - Service: UHN OnGuard Health Check - Wired

### 1.6.2.79 Service: UHN OnGuard Health Check - Agentless OnConnect

|  |  |
| --- | --- |
| Name | UHN OnGuard Health Check - Agentless OnConnect |
| Type | WEBAUTH |
| Template | Web-based Health Check Only |
| Enabled | False |
| Order No | 79 |

Table - Service: UHN OnGuard Health Check - Agentless OnConnect

### 1.6.2.80 Service: UHN Wired Secure - Cisco

|  |  |
| --- | --- |
| Name | UHN Wired Secure - Cisco |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | False |
| Order No | 80 |

Table - Service: UHN Wired Secure - Cisco

### 1.6.2.81 Service: UHN Wired MAC - Cisco

|  |  |
| --- | --- |
| Name | UHN Wired MAC - Cisco |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | False |
| Order No | 81 |

Table - Service: UHN Wired MAC - Cisco

### 1.6.2.82 Service: UHN Wired OnConnect - Cisco

|  |  |
| --- | --- |
| Name | UHN Wired OnConnect - Cisco |
| Type | WEBAUTH |
| Template | ClearPass OnConnect Enforcement |
| Enabled | False |
| Order No | 82 |

Table - Service: UHN Wired OnConnect - Cisco

### 1.6.2.83 Service: Wired Secure - CX

|  |  |
| --- | --- |
| Name | Wired Secure - CX |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | False |
| Order No | 83 |

Table - Service: Wired Secure - CX

### 1.6.2.84 Service: ShowCase Wired Secure

|  |  |
| --- | --- |
| Name | ShowCase Wired Secure |
| Type | RADIUS |
| Template | 802.1X Wired |
| Enabled | True |
| Order No | 84 |

Table - Service: ShowCase Wired Secure

### 1.6.2.85 Service: ShowCaseWiredMACAuth

|  |  |
| --- | --- |
| Name | ShowCaseWiredMACAuth |
| Type | RADIUS |
| Template | MAC Authentication |
| Enabled | True |
| Order No | 85 |

Table - Service: ShowCaseWiredMACAuth

### 1.6.2.86 Service: Showcase Wired Web Auth - CX

|  |  |
| --- | --- |
| Name | Showcase Wired Web Auth - CX |
| Type | WEBAUTH |
| Template | Web-based Authentication |
| Enabled | True |
| Order No | 86 |

Table - Service: Showcase Wired Web Auth - CX

### 1.6.2.87 Service: ShowCase DataWifi

|  |  |
| --- | --- |
| Name | ShowCase DataWifi |
| Type | RADIUS |
| Template | 802.1X Wireless |
| Enabled | True |
| Order No | 87 |

Table - Service: ShowCase DataWifi

### 1.6.2.88 Service: StuffAndThings OAuth2 API User Access

|  |  |
| --- | --- |
| Name | StuffAndThings OAuth2 API User Access |
| Type | Application |
| Template | Aruba Application Authentication |
| Enabled | True |
| Order No | 88 |

Table - Service: StuffAndThings OAuth2 API User Access

## 1.7 Network Device

The following section details Network Device settings configured on ClearPass.

### 1.7.1 Summary

The following section provides a summary of Network Device settings.

|  |  |
| --- | --- |
| Network Device | 55 |
| Network Device Group | 16 |

Table - Network Device Summary

### 1.7.2 Network Device

The following section details Network Device configured on ClearPass.

| Id | Name | Description | IP Address | Vendor | CoA |
| --- | --- | --- | --- | --- | --- |
| 3106 | BO-BOM-APs |  | 10.129.207.0/24 | Aruba | True |
| 3003 | AOS8-NL-MM-02 |  | 10.228.30.82 | Aruba | True |
| 3009 | AOS8-US-MM-VIP |  | 10.67.51.80 | Aruba | True |
| 3010 | AOS8-US-MM-01 |  | 10.67.51.81 | Aruba | True |
| 3011 | AOS8-US-MM-02 |  | 10.67.51.82 | Aruba | True |
| 3049 | AMS-WLC-01 |  | 10.228.100.11 | Aruba | True |
| 3107 | MIA-GW |  | 10.129.1.194 | Aruba | True |
| 3027 | SJC-WLC-01-PUB |  | 104.36.251.31 | Aruba | True |
| 3028 | SJC-WLC-02-PUB |  | 104.36.251.32 | Aruba | True |
| 3075 | Demo ArubaOS Switches - APJ |  | 10.226.80.0/22 | Hewlett-Packard-Enterprise | True |
| 3074 | cisco-wlc-01.arubademo.net |  | 10.79.20.100 | Cisco | True |
| 3080 | Drew - Cisco Switch |  | 10.70.51.40 | Cisco | True |
| 3051 | Cisco Switch-CJ-3750 |  | 10.70.51.55 | Cisco | True |
| 3081 | Drew - Cisco Switch 15 |  | 10.70.51.50 | Cisco | True |
| 3086 | SEEL-CX-Demo-Seth-Fiermonti |  | 10.70.21.146 | Aruba | True |
| 3099 | II-07-7210-155 |  | 10.128.5.5/28 | Aruba | True |
| 3090 | ShowCaseAPs |  | 10.128.5.16/28 | Aruba | True |
| 3031 | Aruba Wired Switches |  | 10.79.24.0/24 | Aruba | True |
| 3029 | washington.arubademo.net |  | 10.79.100.107 | Aruba | True |
| 3030 | tokyo.arubademo.net |  | 10.79.100.104 | Aruba | True |
| 3054 | SD-Branch |  | 10.90.0.0/16 | Aruba | True |
| 3057 | Switch |  | 1.1.1.1 | Cisco | True |
| 3076 | NCSU- EDUROAM Device |  | 192.168.20.10 | Aruba | True |
| 3067 | drew-emea |  | 10.228.80.88 | Hewlett-Packard-Enterprise | True |
| 3079 | Jorge Garcia AOSS |  | 10.70.20.193 | Hewlett-Packard-Enterprise | True |
| 3082 | Cisco Switch - Bodo |  | 10.70.51.84 | Cisco | True |
| 3083 | wysk3650 |  | 10.70.23.11 | Cisco | True |
| 3084 | wysk3650-16 |  | 10.70.29.1 | Cisco | True |
| 3033 | Cisco Switches |  | 10.70.51.0/24 | Cisco | True |
| 3048 | Demo ArubaOS Switches - NL |  | 10.228.80.0/22 | Hewlett-Packard-Enterprise | True |
| 3089 | 10.70.21.153 |  | 10.70.21.153 | Aruba | True |
| 3032 | Demo ArubaOS Switches - NAM |  | 10.70.20.0/22 | Hewlett-Packard-Enterprise | True |
| 3093 | II-07-8325-152 |  | 10.128.0.7 | Aruba | True |
| 3094 | II-07-8325-153 |  | 10.128.0.8 | Aruba | True |
| 3002 | US-MM-01 |  | 10.79.254.171 | Aruba | True |
| 3007 | AOS8-NL-WLC-01 |  | 10.228.100.42 | Aruba | True |
| 3095 | II-06-8325-102 |  | 10.128.0.3 | Aruba | True |
| 3096 | II-06-8325-103 |  | 10.128.0.4 | Aruba | True |
| 3097 | II-06-8325-122 |  | 10.128.0.5 | Aruba | True |
| 3098 | II-06-8325-123 |  | 10.128.0.6 | Aruba | True |
| 3091 | II-07-6300-156 |  | 10.128.48.10 | Aruba | True |
| 3092 | II-07-6300-158 |  | 10.128.48.12 | Aruba | True |
| 3088 | Demo ArubaCX Switches - NAM |  | 10.70.32.0/23 | Aruba | True |
| 3101 | Dynamic Server |  | 10.79.254.101 | Unix | True |
| 3102 | Dynamic Test Server |  | 10.79.254.106 | Aruba | True |
| 3026 | SJC-WLC-01-VIP |  | 104.36.251.30 | Aruba | True |
| 3103 | CP-DFW-APs |  | 10.129.38.0/24 | Aruba | True |
| 3104 | CP-MIA-gateway-APs |  | 10.129.195.0/24 | Aruba | True |
| 3105 | US-MM-02 |  | 10.79.254.172 | Aruba | True |
| 3006 | AOS8-US-WLC-02 |  | 10.67.70.42 | Aruba | True |
| 3008 | AOS8-SG-WLC-01 |  | 10.226.100.42 | Aruba | True |
| 3005 | AOS8-US-WLC-01 |  | 10.67.70.41 | Aruba | True |
| 3025 | AOS8-US-Test-CTRL |  | 10.67.70.45 | Aruba | True |
| 3001 | AOS8-US-MM VIP |  | 10.79.254.170 | Aruba | True |
| 3004 | AOS8-US-WLC-VIP |  | 10.67.70.40 | Aruba | True |

Table - Network Device

### 1.7.3 Network Device Group

The following section details Network Device Group configured on ClearPass.

| Id | Name | Description | Group Format | Value |
| --- | --- | --- | --- | --- |
| 3003 | Aruba Wired |  | list | 10.79.24.0/24 |
| 3004 | Aruba Wireless |  | list | 10.79.100.104, 10.79.100.107 |
| 3006 | SD-Branch Devices (SEEL) |  | list | 10.90.0.0/16 |
| 3007 | London |  | list | 1.1.1.1 |
| 3010 | NCSU- EDUROAM GROUP |  | list | 192.168.20.10 |
| 3009 | DS2-TEST |  | list | 10.228.80.88 |
| 3008 | DS-TEST |  | list | 10.228.80.88 |
| 3012 | AOSS OnConnect |  | list | 10.70.20.193 |
| 3013 | UHN Cisco - Switches (SEEL) | Group for Scott and Drew's Cisco Switches | list | 10.70.51.84 |
| 3005 | Cisco - Switches (SEEL) |  | list | 10.70.29.1, 10.70.51.0/24, 10.70.23.11 |
| 3001 | ArubaOS - Switches (SEEL) |  | list | 10.70.20.0/22, 10.228.80.0/22, 10.70.21.153 |
| 3016 | CampusPodAggSwitches |  | list | 10.128.0.8, 10.128.0.7, 10.128.0.6, 10.128.0.5, 10.128.0.4, 10.128.0.3 |
| 3017 | ShowcaseAccessSwitches |  | list | 10.128.48.10, 10.128.48.12 |
| 3015 | ArubaCX - Switches (SEEL) |  | list | 10.70.32.0/23 |
| 3018 | ShowCase APs |  | subnet | 10.128.5.16/28 |
| 3002 | SEEL AOS 8x Controllers |  | list | 10.79.254.170, 10.79.254.171, 10.67.70.45, 10.79.254.172, 10.226.100.42, 10.228.100.42, 10.67.70.40, 10.67.70.41, 10.67.70.42 |

Table - Network Device Group