Password Generation Support

Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	All
Applicable Platform(s)	• ASR 5500 • VPC-DI • VPC-SI
Default Setting	Enabled - Always-on
Related Changes in This Release	Not Applicable
Related Documentation	*Command Line Interface Reference*

Revision History

Revision Details	Release
With this release, the user can select an auto-generated random password or specify a password of choice. These options are provided when the user password expires or is found weak.	21.13
First introduced.	Pre 21.2

Feature Changes

In the current deployment of StarOS, when the user password expires or is found weak, the local or context user must enter a new password. This is the only option available.

Previous Behavior: In releases earlier to 21.13, for local and context users, when a user password expires or is found weak, at the next login attempt, the user was presented with an option to enter a new password and reconfirm it.

New Behavior: In this release, a new auto-generation of password functionality is added.

- **For Local Users**: When a user password expires or is found weak, an option is provided to the user to select an auto-generated, random password. If accepted, the user is expected to use the auto-generated password at the next login. If rejected, the user is presented with an option to enter their own password of choice.

> **Note** This auto-generated random password is also presented when the user tries to change the password using the **password change** CLI command in EXEC Mode after login.

- **For Context Users**: When a user password is found weak, an option is provided to the user to select an auto-generated, random password. If accepted, the user is expected to use the auto-generated password at the next login. If rejected, the user is presented with an option to enter their own password of choice.

This auto-generation of password functionality can be enabled or disabled. This functionality is supported with the new **auto-generate [none | length** *password-length***]** keyword, which is added to the **local-user password** CLI command in Global Configuration Mode and to the **password** CLI command in Context Configuration Mode. When the functionality is enabled, the auto-generated random password length can be configured.

Customer Impact:

The user can now select auto-generated random password or specify a password of choice at login.

Command Changes

local-user password

Use the following configuration to configure an automatically generated password at login when password has expired or is found weak.

```
configure
  local-user password auto-generate length password_length
  end

default local-user password auto-generate
```

NOTES:

• **[auto-generate [none | length** *password-length***]**: Presents an option to automatically generate a password at login when password is expired or found weak.

none: Specifies that the user must not be presented with the option to automatically generate a password.

length *password-length*: Specifies the length of the automatically-generated password for the user. The length of the automatically-generated password must be an integer between 6 to 127.

• **default**: This CLI is enabled by default with the password length of 8.

password

Use the following configuration to configure an automatically generated password at login when the password is found weak.

```
configure
  context context_name
    password auto-generate length password_length
    end
```

default password auto-generate

NOTES:

• **auto-generate [none | length** *password-length***]**: Presents an option to automatically generate a password at login when password is found weak.

none: Specifies that the user must not be presented with the option to automatically generate a password.

length *password-length*: Specifies the length of the automatically-generated password for the user. The length of the automatically-generated password must be an integer between 6 to 127.

• **default**: This CLI is enabled by default with the password length of 8.

password