

## Power On Auto Provisioning (POAP)

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## List Servers

**Resource Name** /poap/servers

**Description** List POAP image/config servers

**https Method** GET

**URL** https://dcnm-ip/rest/poap/servers  
https://dcnm-ip/rest/poap/servers?detail=true

### Parameter

Parameter	Type	Description

**Return Value** Format: JSON  
Type: Object

Attribute Name	Type	Description
poap-servers		By default, a list of POAP image/config server names is displayed. If "detail=true" a list of POAP image/config server-objects including server-name and URI is displayed.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create a Server

**Resource Name** /poap/servers

**Description** Create a new POAP image/config server

**https Method** POST

**URL** https://dcnm-ip/rest/poap/servers

### Parameter

Parameter	Type	Description
poap-servers		POAP image/config server-object including server-name, URI, hostname/ipaddress, path, username and password.

### Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
poap-server-name		POAP image/config server name.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Get Servers

**Resource Name** /poap/servers/server-name

**Description** Get the POAP image/config servers

**https Method** GET

**URL** https://dcnm-ip/rest/poap/servers/server-name

### Parameter

Parameter	Type	Description

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
poap-server		POAP image/config server-object including server-name and URI.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update Servers

**Resource Name** /poap/servers/server-name

**Description** Update the POAP image/config servers

**https Method** PUT

**URL** https://dcnm-ip/rest/poap/servers/server-name

**Parameter**

Parameter	Type	Description
poap-server		POAP image/config-server-object including server-name,hostname/ipaddress, path,username and password.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Delete Servers

**Resource Name** /poap/servers/server-name

**Description** Delete the POAP image/config servers

**https Method** DELETE

**URL** https://dcnm-ip/rest/poap/servers/server-name

**Parameter**

Parameter	Type	Description

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## List Switch Definitions

**Resource Name** /poap/switch-definitions

**Description** List the POAP switch definitions

**https Method** GET

**URL** https://dcnm-ip/rest/poap/switch-definitions  
 https://dcnm-ip/rest/poap/switch-definitions?detail=true  
 https://dcnm-ip/rest/poap/switch-definitions?search-string=<search-string>&start-index=<start-index>&size=<size>

### Parameter

Parameter	Type	Description

### Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
Switch-definitions		By default, a list of serial- numbers is displayed. If "detail=true", then a list of switch-definition objects including serial-numbers, status(saved and publish later/published/saved and publishing/error), system-image, kick-start-image, image-server-uri, config-server-uri, template-name, parameter-values with a list of name, type, value corresponding to the template is displayed.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create Switch Definitions

**Resource Name** /poap/switch-definitions

**Description** Create POAP switch definitions

**https Method** POST

**URL** https://dcnm-ip/rest/poap/switch-definitions

### Parameter

Parameter	Type	Description
Switch-definitions		Displays a list of serial-numbers, system-image, kick-start-image, image-server-uri, config-server-uri, template-name, poap-settings-name, parameter-values with a list of name, type, value corresponding to the template , and publish=true/false.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
switch-numbers		List of serial numbers.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error



## Publish Switch Definitions

**Resource Name** /poap/published-switch-definitions/{serial-number}

**Description** Publish list of switch-definitions to the Repository server.

**https Method** POST

**URL** https://dcnm-ip/rest/poap/published-switch-definitions/{serial-number}

### Parameter

Parameter	Type	Description

### Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Get a Switch Definition

**Resource Name** /poap/switch-definitions/{serial-number}

**Description** Get a switch definition.

**https Method** GET

**URL** https://dcnm-ip/rest/poap/switch-definitions/{serial-number}

### Parameter

Parameter	Type	Description

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
switch-definition		Displays a list of serial-numbers, system-image, kick-start-image, image-server-uri, config-server-uri, template-name and parameter-values with a list of name, type, value corresponding to the template .

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update a Switch Definition

**Resource Name** /poap/switch-definitions/serial-number

**Description** Update a switch-definition.

**https Method** PUT

**URL** https://dcnm-ip/rest/poap/switch-definitions/{serial-number}

### Parameter

Parameter	Type	Description
switch-definition		Displays a list of serial-numbers, system-image, kick-start-image, image-server-uri, config-server-uri, template-name and parameter-values with a list of name, type, value corresponding to the template , and publish=true/false.

### Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Delete a Switch Definition

**Resource Name** /poap/switch-definitions/serial-number

**Description** Delete a switch-definition.

**https Method** DELETE

**URL** https://dcnm-ip/rest/poap/switch-definitions/{ serial-number }

### Parameter

Parameter	Type	Description

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Get a POAP Template

**Resource Name** /poap/templates/{template-name}

**Description** Get a POAP template.

**https Method** GET

**URL** https://dcnm-ip/rest/poap/templates/{template-name}

### Parameter

Parameter	Type	Description
Serial-number	S	Device serial-number

**Return Value** Format: JSON  
Type: Object

Attribute Name	Type	Description
Poap-template	O	Poap template object

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create a POAP Template

**Resource Name** /poap/templates

**Description** Create a POAP template.

**https Method** POST

**URL** https://dcnm-ip/rest/poap/templates

### Parameter

Parameter	Type	Description
Poap-template	O	Poap template object

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
Poap-template-name	O	Poap template name

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update a POAP Template

**Resource Name** /poap/templates/{template-name}

**Description** Update a POAP template.

**https Method** PUT

**URL** https://dcnm-ip/rest/poap/templates/{template-name}

**Parameter**

Parameter	Type	Description
Poap-template	O	Poap template object

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Delete a POAP Template

**Resource Name** /poap/templates/{template-name}

**Description** Delete a POAP template.

**https Method** POST

**URL** https://dcnm-ip/rest/poap/templates/{template-name}

**Parameter**

Parameter	Type	Description
Poap-template-name	S	Poap template name

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error



## Get All Published Templates

**Resource Name** /poap/templates?published=true

**Description** Get all the published templates.

**https Method** GET

**URL** https://dcnm-ip/rest/templates?published=true

**Parameter**

Parameter	Type	Description

**Return Value**

Format: JSON

Type: Object

Attribute Name	Type	Description
templates	O	Returns all the published template names, if published=true. Returns all the templates if published=false.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Generate Template Startup Config

**Resource Name** /templates/populate-template/{template-name}

**Description** Get all the published templates.

*<<sushs: the description is similar to Get a POAP template. how/why is this different? only difference is the https method.>>*

**https Method** POST

**URL** https://dcnm-ip/rest/templates/populate-template/{template-name}

### Parameter

Parameter	Type	Description
templateParams	A	Template parameters with values. You will get the templateParams in get template data API response. It returns the template parameters with default values.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
startupConfig	S	Return startup config

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Get Group Navigation

**Resource Name** /templates/groups

**Description** Get all the groups.

**https Method** GET

**URL** https://dcnm-ip/rest/templates/groups

**Parameter**

Parameter	Type	Description

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
memDbId, name, navType	S	Return group/scope details

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Perform Shallow Discovery

**Resource Name** /templates/perform-shallow-discovery

**Description** All the devices provided in payload will be discovered into DCNM.

**https Method** POST

**URL** https://dcnm-ip/rest/templates/perform-shallow-discovery

### Parameter

Parameter	Type	Description
POAP	A <i>sushs: needs review</i>	Serial Number, Management IP, Lan Group, User Name and Password need to provide in payload.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create POAP Definition

**Resource Name** /poap/poap-switch-definition

**Description** All the devices provided in payload will be discovered into DCNM.

*<<sushs: how is this different from Create Switch Definition?>>*

**https Method** POST

**URL** https://dcnm-ip/rest/poap/poap-switch-definition

### Parameter

Parameter	Type	Description
POAP	A	Array of template parameters and POAP switch details.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
poap	A	Array of POAPv switch details with template content.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

