

PLC8 board configuration templates ('TEMPLATE')

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In the ONT configuration 'TEMPLATE' mode, you can configure a set of profiles and ONT configuration parameters which will be used as a template. You can assign the template to an ONT or a group of ONTs, and all configuration template settings will overwrite those performed on ONT.

template

This command allows to create a new template and/or switch to its configuration mode.

The use of a negative form (no) of the command removes the template.

Syntax

```
[no] template <NAME>
```

Parameters

<NAME> – template name, case sensitive.

Command mode

CONFIG

Example

```
ma4000(config)# template name
ma4000(ont-template) ("name")#
```

name

The command changes the name of the configured template.

Syntax

```
name <STRING>
```

Parameters

<STRING> – template name, case sensitive.

Command mode

TEMPLATE

Example

```
ma4000(ont-template) ("name")# name test
```

description

This command allows to add a description for the profile to be configured.

The use of a negative form (no) of the command removes description.

Syntax

```
[no] description <STRING>
```

Parameters

<STRING> – text description.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")# description name
```

ber interval

This command allows to set the error rate count interval for the downstream direction. At the end of the interval, ONT sends a REI message.

The use of a negative form (no) of the command sets the default value.

Syntax

```
ber interval <INTERVAL>  
no ber interval
```

Parameters

<INTERVAL> – number of packets, may take values [0..4294967294]. If 'none' is specified, ONT will not send the REI message.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")# ber interval 500000
```

ber update-period

This command allows to set the interval of sending messages to the OLT with error rate data for the downstream direction.

The use of a negative form (no) of the command sets the default value.

Syntax

```
ber update-period <PERIOD>  
no ber update-period
```

Parameters

<PERIOD> – time period, may take values [0..4294967295], in seconds.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#ber update-period 500000
```

broadcast-downstream

This command enables sending broadcast packets in a downstream direction through the dedicated GEM port.

The use of a negative form (no) of the command sets the default value.

Syntax

```
[no] broadcast-downstream
```

Parameters

The command contains no arguments.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#broadcast-downstream
```

fec

This command enables upstream error correction mode when transmitting data from ONT.

The use of a negative form (no) of the command sets the default value.

Syntax

```
[no] fec
```

Parameters

The command contains no arguments.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#fec
```

omci-error-tolerant

This command disables the processing of errors that occur during the ONT configuration by OMCI.

The use of a negative form (no) of the command sets the default value.

Syntax

```
[no] omci-error-tolerant
```

Parameters

The command contains no arguments.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")# omci-error-tolerant
```

password

This command sets the OMCI configuration of the ONT password.

The use of a negative form (no) of the command sets the default value.

Syntax

```
password <STRING>  
no password
```

Parameters

<STRING> – authorization OMCI password, 10 characters.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#password
```

rf-port-state

This command sets the operation mode of the ONT RF port in the configuration. Support for this feature should be implemented on ONT.

The use of a negative form (no) of the command sets the default value.

Syntax

```
rf-port-state <STATE>  
no rf-port-state
```

Parameters

<STATE> – RF port operation mode:

- disabled – port disabled;
- enabled – port enabled;
- no-change – do not change port state.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#rf-port-state enabled
```

serial

This command sets the ONT serial number (PONSERIAL ONT) in the template configuration.

The use of a negative form (no) of the command sets the default value.

Syntax

```
serial <PONSERIAL>  
no serial
```

Parameters

<PONSERIAL> – ONT serial number in format:

- AAAAAAAAAX, where A is uppercase letter, and X in HEX format [0-F];
- XXXXXXXXXXXX, where X in HEX format [0-F];
- XX-XX-XX-XX-XX-XX-XX-XX, where X in HEX format [0-F].

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#serial ELTX00000000
```

profile

This command sets ONT configuration profiles to the specified template.

The use of a negative form (no) of the command sets the default value.

Syntax

```
profile <TYPE> <NAME>  
no profile <TYPE>
```

Parameters

<TYPE> – configuration profile type:

- management – set management profile;
- ports – set ports profile;
- shaping – set shaping profile;
- scripting – set scripting profile;

<NAME> – configuration profile name, case sensitive.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")#profile ports ports-00
```

service

This command sets ONT service configuration profiles to the specified template.

The use of a negative form (no) of the command sets the default value.

Syntax

```
service <SERVICEID> profile <TYPE> <NAME>  
no service <SERVICEID> profile <TYPE>
```

Parameters

<SERVICEID> – service number, may take values [0..15];

<TYPE> – profile type:

- dba – set dba profile;
- cross-connect – set cross-connect profile.

<NAME> – configuration profile name, case sensitive.

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")# service 0 profile dba dba-00
```

define

This command adds a parameter to the ONT configuration template.

Syntax

```
define <PARAM>
```

Parameters

<PARAM> – ONT configuration parameter:

- Ber interval – add ber-interval setting;
- Ber update-period – add ber update-period setting;
- broadcast-downstream – add broadcast downstream sending parameters setting;
- profile management – add profile management setting;
- profile ports – add profile ports setting;
- profile shaping – add shaping setting;
- profile scripting – add profile scripting setting;
- serial – add GPON serial setting;
- password – add GPON password setting;
- fec – add fec configuration setting;
- omci-error-tolerant – add omci error processing configuration setting;
- rf-port-state – add rf port configuration setting;
- service <serviceid> profile dba – add DBA profile setting for service;
- service <serviceid> profile cross-connect – add cross-connect profile setting for service.

<SERVICEID>— service number, may take values [0..15].

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")# define rf-port-state
```

undefine

This command removes a parameter from the ONT configuration template.

Syntax

```
undefine <PARAM>
```

Parameters

<PARAM> – ONT configuration parameter:

- ber interval – remove ber-interval setting from the template;
- ber update-period – remove ber update-period setting from the template;
- broadcast-downstream – remove broadcast downstream sending parameters setting from the template;
- profile management – remove profile management setting from the template;
- profile ports – remove profile ports setting from the template;
- profile shaping – remove shaping setting from the template;
- profile scripting – remove profile scripting setting from the template;
- serial – remove GPON serial setting from the template;
- password – remove GPON password setting from the template;
- fec – remove fec configuration setting from the template;
- omci-error-tolerant – remove omci error processing configuration setting from the template;
- rf-port-state – remove rf port configuration setting from the template;
- service <serviceid> profile dba – remove DBA profile setting for service from the template;
- service <serviceid> profile cross-connect – remove cross-connect profile setting for service from the template.

<SERVICEID>— service number, may take values [0..7].

Command mode

TEMPLATE

Example

```
ma4000(ont-template)("name")# undefine ber interval
```

show template

This command displays the configuration template parameters.

Syntax

```
show template <NAME>
```

Parameters

<NAME> – template name, case sensitive. Optional parameter

If no template name is specified – the list of all templates is displayed, if the name is specified – the configuration of this template is displayed.

Command mode

ROOT

Example

```
Ma4000# show template template-00
Name:                               'template-00'
Description:                         'ONT Template 0'

Fec up:                             false
Downstream broadcast:               true
Ber interval:                       100000
Ber update period:                  60
Rf port state:                      disabled
Omc1 error tolerant:               false

Profile shaping:                    shaping-00    ONT Profile Shaping 0
Profile ports:                     ports-00      ONT Profile Ports 0
Service [0]:
  Profile cross connect:            unassigned
  Profile dba:                      dba-00       ONT Profile DBA 0
Service [1]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Service [2]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Service [3]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Service [4]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Service [5]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Service [6]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Service [7]:
  Profile cross connect:            unassigned
  Profile dba:                      unassigned
Profile management:                 management-00  ONT Profile Management 0
Profile scripting:                  unassigned
```