

<functionKeys> tag

The function key settings XML (<functionKeys> or <function-keys>) tag contains the free programmable function key configuration parameters. This XML tag can be used either inside the <settings> tag or as an individual XML file whose URL is listed inside <setting-files> tag.

Syntax

<functionKeys> tag as individual XML file

```
<?xml version="1.0" encoding="utf-8"?>
<functionKeys>
  <fkey idx="<function_key_index>" context="<function_key_context>" label="<function_key_label>"
[default_text="<label_default_text>"] perm="<permission flag>">
  <value>
</fkey>
  ...
  <fkey idx="<function_key_index>" context="<function_key_context>" label="<function_key_label>" [default_text="
<label_default_text>"] perm="<permission flag>">
  <value>
</fkey>
</functionKeys>
```

inside <settings> tag

```
<functionKeys>
  <fkey idx="<function_key_index>" context="<function_key_context>" label="<function_key_label>"
[default_text="<label_default_text>"] perm="<permission flag>"><value></fkey>
  ...
  <fkey idx="<function_key_index>" context="<function_key_context>" label="<function_key_label>" [default_text="
<label_default_text>"] perm="<permission flag>"><value></fkey>
</functionKeys>
```

fkey attributes

- **idx** string defines the **free function key index n**:
 - 0...n, with n= (Number of integrated function keys + number of attached expansion modules * number of expansion module keys) - 1



Please check out the matrix of **function key index ranges** for the [D3xx](#) and [D7xx](#) series.

- **context** string defines the function_key_context
- **label** string defines the function_key_label
- **lp** string defines the function_key_longpress. When setting a value that is not the default value for this setting you have to also add clp="1".
- **default_text** string defines the label_default_text. This attribute is optional and applicable only to self-labeling keys. It has no effect when the key is not self-labeling. When omitted on a self-labeling key, label_default_text remains unchanged.
- **perm** string defines the <permission flag>
- **value** string defines the function key value, optionally followed by a space and a value-specific argument. As of firmware versions 8.2.19 and 8.4 and above, xml subtrees can be used instead.

Example

Example of <functionKeys> tag

```
<?xml version="1.0" encoding="utf-8"?>
<functionKeys>
  <fkey idx="0" context="active" perm="">line</fkey>
  <fkey idx="1" context="active" perm="">line</fkey>
  <fkey idx="2" context="active" perm="">keyevent F_REDIAL</fkey>
  <fkey idx="3" context="active" perm="">keyevent F_ADR_BOOK</fkey>
  <fkey idx="4" context="active" perm="">keyevent F_TRANSFER</fkey>
  <fkey idx="5" context="active" perm="">keyevent F_MUTE</fkey>
  <fkey idx="6" context="active" perm="">
    <general type="Remote Indicator">
      <default_state name="initial"/>
    </general>
  </fkey>
  <appearance>
    <line_info_layer>
      <line_format line="0">$state $type</line_info_layer>
      <line_format line="1">$continue $name</line_info_layer>
    </line_info_layer>
  </appearance>
  <subscription type="presence" for="numbers@snom.de" to="snom2@snom.de">
    <NotifyParsingRules type="applies">
      <levell translates_to='OK'>/presence/dm:person/snom:preferred-uri[.='tel:+42 4711 0815']</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="state">
      <levell fetch_content='true'>/presence/dm:person/rpid:activities/snom:activity</levell>
      <default translates_to='unknown' />
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="call_id" states="ringing,calling">
      <levell fetch_attribute="call-id">/dialog-info/dialog</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="remote_tag" states="ringing,calling">
      <levell fetch_attribute="remote-tag">/dialog-info/dialog</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="local_tag" states="ringing,calling">
      <levell fetch_attribute="local-tag">/dialog-info/dialog</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="local_uri" states="ringing,calling">
      <levell fetch_attribute="uri">/dialog-info/dialog/local/target</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="remote_uri" states="ringing,calling">
      <levell fetch_attribute="uri">/dialog-info/dialog/remote/target</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="local_name" states="ringing,calling">
      <levell fetch_attribute="display">/dialog-info/dialog/local/identity</levell>
    </NotifyParsingRules>
    <NotifyParsingRules type="variable" id="remote_name" states="ringing,calling">
      <levell fetch_attribute="display">/dialog-info/dialog/remote/identity</levell>
    </NotifyParsingRules>
  </subscription>
  <action>
    <dial target="$(remote_name)<$(remote_uri)>" when="on press" state="ringing" request_uri="$(remote_uri)"
replaces="$(call_id);to-tag=$(remote_tag);from-tag=$(local_tag)"/>
    <dial when="on release" target="*302*" states="connected,holding"/>
    <dial when="on press" target="*43_keyXyPressed" />
  </action>
</fkey>
</functionKeys>
```



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