

CSTS CONFIGURATION FILES

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Reference

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CHANGE RECORD

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1 INTRODUCTION

The CSTS framework has two configuration files - one for user side and one for provider and proxy.

The configuration files have to be passed to the framework at startup to initialise the API.

Some attributes are shared among both and some are specific to each configuration.



2 SHARED VALUES IN USER CONFIGURATION AND PROVIDER CONFIGURATION

proxy role: the role in regards of the proxy that is taken, see Enumerations

local id: the local id, for example the user would be 'CSTS-USER'

local password: corresponding pw to id

startup timer: maximum startup time as integer in seconds

non useheartbeat: boolean to discribe if heartbeat is to be used or not (proxy)

authentication delay: maximum delay for the authentication as integer in seconds

transfer type: the transfer type, see Enumerations

transmit queue size: the maximum queue size for queued pdus before overflow is triggered

list of service_types:

- <u>list of service versions:</u> required or offered services have to match. No check on user side if the service is in the list, but check on provider side. Check on user side need to be implemented by the application using the framework
- <u>service version</u>: number in integer format, at least the one being used has to be available on provider side
- <u>service id</u>: the OID or name of the service so it can be uniquely identified

list of remote peers:

- <u>id</u>: the id of the remote peer, is the connected sides local id
- <u>authentication mode:</u> see Enumerations
- password

port list:

- default
- not required list of port mappings:
 - o responder port id
 - o protocol id



3 USER CONFIGURATION ONLY

list of foreign logical ports:

- list of port data: this list will be iterated through until a connection can be made
 - o hostname
 - o ip address
 - port number
 - o port name: name of the connection
- port heartbeat timer:
- port dead factor:
- tcp xmit buffer size: transmit buffer size
- tcp recv buffer size: received buffer size

```
<?xml version="1.0" encoding="UTF-8"?>
<UserConfig transfer_type="COMPLETE" xsi:noNamespaceSchemaLocation="UserConfig1.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-itransmit_queue_size="10" startup_timer="180" proxy_role="INITIATOR" non_useheartbeat="true" local_password="ffdf01449809e4e5e677818892"</pre>
local_id="CSTS-USER" authentication_delay="180">
    <service_types>
       <srv_version>2</srv_version>

<

<
             </srv_versions>
</service_type>
     </service types>
  - <remote_peers>

<
    </remote_peers>
<foreign_logical_ports>
       </foreign_logical_ports>
<portlist default="ISP1"/>
</UserConfig>
```

Figure 3-1: Example user config



4 PROVIDER CONFIGURATION ONLY

cs_address

default_reporting_address: default reporting address

use_nagel: boolean if nagel should be enabled or not

min deadfactor: integer number of min dead factor

max_deadfactor: integer number of miax dead factor

min heartbeat: integer number of min heartbeat if heartbeat enabled

max heartbeat: integer number of max heartbeat if heartbeat enabled

list of local logical ports:

- list of port data: this list will be iterated through until a connection can be made
 - o ip address
 - port number
 - o port name: name of the connection
- <u>tcp xmit buffer size:</u> transmit buffer size
- <u>tcp recv buffer size:</u> received buffer size

```
<?xml version="1.0" encoding="UTF-8"?:
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" use_nage="true" transmit_queue_size="10" startup_timer="180" proxy_role="RESPONDER" non_useheartbeat="true" min_heartbeat="20" min_deadfactor="2" max_heartbeat="600" max_deadfactor="10" local_password="000102030405060708090a0b0c0d0e0f" local_id="CSTS-PROVIDER" authentication_delay="180">
   <service_types>
     - <service_type srv_id="DUMMY">- <srv_versions>
          </service type>
      <service_type srv_id="MONITORING">
         <srv_versions>
             -
<srv_version>1</srv_version>
          </srv versions>
       </service_type>
      <service_type srv_id="[1, 3, 112, 4, 4, 1, 2]">
          <srv_versions
             <srv_version>1</srv_version>
       </srv_versions>
</service_type>
   </service_types
   <remote_peers>
       <remote_peer id="CSTS-USER" password="ffdf01449809e4e5e677818892" authentication_mode="NONE"/>
    </remote_peers>
   < local logical ports>
      </logical_port>
   <portlist default="ISP1"/>
</provider_config>
```

Figure 4-1: Example provider config



5 ENUMERATIONS

proxyRoleEnum:

INITIATOR – initiates the connection, hence is the user.

RESPONDER - responds to the connection, hence is the provider

authenticationMode:

NONE – authentication is not used

BIND_ONLY – authentication is only used for the bind

ALL - authrntication is used for everything

transferType:

TIMELY – pdus that cannot be send will be discarded

COMPLETE – pdus will be queued if they cannot be send and then resend