

CSCF User Data Output Guideline

Call Session Control Function

USER GUIDE

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1 Introduction

This document provides Call Session Control Function (CSCF) troubleshooting guidelines on printing user data from the Serving CSCF (S-CSCF) and the Proxy CSCF (P-CSCF).

1.1 Prerequisites

The following sections provide information on the required documents and the conditions that apply to the procedure.

1.1.1 Documents

Before starting this procedure, ensure that the following documents have been read:

- *Managed Object Model (MOM)*

1.1.2 Conditions

It is assumed that users of this document are familiar with performing operations within Operation and Maintenance (O&M) in general.

P-CSCF data can only be printed when the P-CSCF is collocated with S-CSCF.





2 User Data Output Function

2.1 General

The user data output function enables a CSCF troubleshooter to print user data based on the public or private identity of an individual user for troubleshooting purposes.

When printing user data based on an individual user's public identity, the action named `cscfUserDataPrintImpu` can be started through the Ericsson Command-Line Interface (ECLI) or the Network Configuration Protocol (NETCONF) interface.

The Action `cscfUserDataPrintImpu` takes input parameters `<IMPU>` and `<Option>` as follows:

- `<IMPU>` – it is a string
- **Note:** There is no syntax validation conducted by CSCF before it is accepted as a public identity.
- `<Option>`
 - `I` – printing IRS data (including IRS, IMPI, Service Profile, IMPU, SiFC, IFC, and Unregistered User Profile data)
 - `C` – printing Contact data (including IPsec data)
 - `D` – printing Dialog data
 - `A` – printing Authentication data (including CSCF AKA Authentication and CSCF SIP Digest Authentication Vector data)
 - `ALL` – printing all user data

Option Combination: printing user data based on a combination of multiple options, for example C/D/A. Within option combinations, these options must be separated by a /. When the option `ALL` is used in any option combination, the rest of the options are ignored, and all user data is printed.

Note: The value of `<Option>` is case insensitive.

When printing user data based on the private identity of an individual user, the action named `cscfUserDataPrintImpi` can be started through the ECLI or NETCONF interface.



The Action `cscfUserDataPrintImpi` takes input parameters `<IMPI>` and `<Option>` as follows:

- `<IMPI>` – string.

Note: There is no syntax validation conducted by CSCF before it is accepted as a private identity.

- `<Option>` – the same options are available as for the `cscfUserDataPrintImpu` action described in this section.

For a received public (either distinct identity or wildcard identity) or private user identity, the CSCF only performs exact match, but not regular expression match.

For more detailed information on these two actions, refer to *Managed Object Model (MOM)*.

The requested user data printout is in XML format, and it is sent back over the ECLI or NETCONF interface so as the action return result.

2.2 Special Cases and Known Limitations

The value of a certain element is printed as `-1` in certain scenarios. The reason for this is that this element has not been used by the CSCF, and only the default setting of `-1` is printed. This is applicable for `<maxNumberContactsPerIrs>`, `<servicePriorityLevel>`, and `<resourcePriority>`.

The value of a certain time stamp element is printed as `1990/01/01T00:00:00:000` in certain scenarios. The reason for this is that this element has not been used by CSCF and only the default setting of `1990/01/01T00:00:00:000` is printed. This is applicable for `<ssoAuthenticatedTime>`, `<nonceTimestamp>`, and `<lastEvent>`.

The `<userDataSizeInBytes>` element provides the total size of the output XML document when the document is sent over the ECLI interface. It only provides the size of the value of the `<returnValue>` element (before the XML reserved characters have been escaped) when the output document is sent over the NETCONF interface.

Certain authentication nonce data and authentication blacklist data elements are not printed.

Certain obsolete data elements are not printed, such as `<isBlacklisted>`, `<blacklistTimestamp>`, and `<authAttempt>`.



3 User Data Output Procedure

The procedure includes the user data output procedure for an individual user and for all users in the CSCF.

3.1 User Data Output for Individual User

The user data output for an individual user can be performed either over the ECLI interface or the NETCONF interface.

3.1.1 User Data Output over ECLI Interface

The user data of an individual user can be printed over the ECLI interface based on either the user's public identity or the user's private identity.

3.1.1.1 Print User Data Based on Public Identity of a User

To print user data based on the public identity of a user:

1. Set up an SSH connection to the `platform-vip` interface.

```
ssh user@<platform-vip>
```

For example: `ssh root@192.168.10.1`

Enter the password for this user.

The following text is displayed:

```
#####
# This system is for the use of authorized users only. #
# Individuals using this computer system without authority, or in #
# excess of their authority, are subject to having all of their #
# activities on this system monitored and recorded by system #
# personnel. #
# #
# In the course of monitoring individuals improperly using this #
# system, or in the course of system maintenance, the activities #
# of authorized users may also be monitored. #
# #
# Anyone using this system expressly consents to such monitoring #
# and is advised that if such monitoring reveals possible #
# evidence of criminal activity, system personnel may provide the #
# evidence of such monitoring to law enforcements officials. #
#####
```

2. Start an ECLI session.



```
localhost$/opt/com/bin/cliss
```

For example: `Proc_m0_s5$/opt/com/bin/cliss`

The following text is displayed:

```
*****
These computer resources, specifically Internet access
and E-mail, are provided for authorized users only. For legal, security and
cost reasons, utilization and access of resources are monitored and recorded
in log files. All information (whether business or personal) that is created,
received, downloaded, stored, sent or otherwise processed can be accessed,
reviewed, copied, recorded or deleted by Ericsson, in accordance with approved
internal procedures, at any time if deemed necessary or appropriate, and
without advance notice. Any evidence of unauthorized access or misuse of
Ericsson resources may result in disciplinary actions, including termination
of employment or assignment, and could subject a user to criminal prosecution.
Your use of Ericsson's computer resources constitutes your consent to
Ericsson's Policies and Directives, including the provisions stated above.

IF YOU ARE NOT AN AUTHORIZED USER, PLEASE EXIT IMMEDIATELY
*****
```

3. Enter Config Mode.

```
>configure
```

4. Go to `CscfUserDataOutputClass`.

```
(config)>ManagedElement=jambala,CscfFunction=1,CSCF-App
lication=CSCF,CscfTroubleshootingGroupClass=0,CscfUs
erDataOutputClass=default
```

5. Invoke action `cscfUserDataPrintImpu`.

```
(config-CscfUserDataOutputClass=default)>cscfUserDat
aPrintImpu <IMPU> <option>
```

For example: `>cscfUserDataPrintImpu sip:sipphone20032000@cscf205.lab all`

6. If the specified IMPU corresponds to a registered user, the user data is printed as described in Example 7.

7. End the configuration.

```
(config-CscfUserDataOutputClass=default)>end
```

8. Exit the SSH connection.

```
>exit
```

9. Log out.



```
localhost$ logout
```

3.1.1.2 Print User Data Based on Private Identity of a User

To print user data based on the private identity of a user:

1. Set up an SSH connection to the `platform-vip` interface.

```
ssh user@<platform-vip>
```

For example: `ssh root@192.168.10.1`

Enter the password for this user.

The following text is displayed:

```
#####
# This system is for the use of authorized users only. #
# Individuals using this computer system without authority, or in #
# excess of their authority, are subject to having all of their #
# activities on this system monitored and recorded by system #
# personnel. #
# #
# In the course of monitoring individuals improperly using this #
# system, or in the course of system maintenance, the activities #
# of authorized users may also be monitored. #
# #
# Anyone using this system expressly consents to such monitoring #
# and is advised that if such monitoring reveals possible #
# evidence of criminal activity, system personnel may provide the #
# evidence of such monitoring to law enforcements officials. #
#####
```

2. Start an ECLI session.

```
localhost$ /opt/com/bin/cliss
```

For example: `Proc_m0_s5$ /opt/com/bin/cliss`

The following text is displayed:



```
*****
These computer resources, specifically Internet access
and E-mail, are provided for authorized users only. For legal, security and
cost reasons, utilization and access of resources are monitored and recorded
in log files. All information (whether business or personal) that is created,
received, downloaded, stored, sent or otherwise processed can be accessed,
reviewed, copied, recorded or deleted by Ericsson, in accordance with approved
internal procedures, at any time if deemed necessary or appropriate, and
without advance notice. Any evidence of unauthorized access or misuse of
Ericsson resources may result in disciplinary actions, including termination
of employment or assignment, and could subject a user to criminal prosecution.
Your use of Ericsson's computer resources constitutes your consent to
Ericsson's Policies and Directives, including the provisions stated above.

IF YOU ARE NOT AN AUTHORIZED USER, PLEASE EXIT IMMEDIATELY
*****
```

3. Enter the Config Mode.

```
>configure
```

4. Go to CscfUserDataOutputClass.

```
(config)>ManagedElement=jambala,CscfFunction=1,CSCF-App
lication=CSCF,CscfTroubleshootingGroupClass=0,CscfUs
erDataOutputClass=default
```

5. Invoke action cscfUserDataPrintImpi.

```
(config-CscfUserDataOutputClass=default)>cscfUserDat
aPrintImpi <IMPI> <option>
```

```
For example: >cscfUserDataPrintImpi sipphone20032000@cscf
205.lab all
```

6. If the specified IMPI corresponds to a registered user, the user data is printed as described in Example 8.

3.1.1.3 Error Responses

3.1.1.3.1 Missing Input Parameters

When the required input parameter (argument) is missing, an error message is returned indicating that not enough arguments have been provided, see Example 1.

When missing option parameters for the cscfUserDataPrintImpi invocation:



```
(config-CscfUserDataOutputClass=default)>
cscfUserDataPrintImpi u2192600010@cscf205.lab
ERROR: Too few arguments for action (cscfUserDataPrintImpi)
that takes 2 parameters < impi option >
```

Example 1 Missing Input Parameters

3.1.1.3.2 Invalid Option or Option Combination

When an invalid option or option combination is provided for action invocation, an error message is returned indicating that an invalid option has been specified, see Example 2.

```
cscfUserDataPrintImpi u2192600010@cscf205.lab b
Invalid option specified [b].
The supported options are (any '/'-separated combination of):
  I, C, D, A, ALL.
I: printout IRS data (including IRS, IMPI, Service Profile,
  IMPU, SiFC&IFC and Unregistered User Profile data)
C: printout Contact data (including IPsec data)
D: printout Dialog data
A: printout Authentication data (including CSCF Aka
  Authentication and CSCF SIP Digest Authentication Vector data)
ALL: printout all user data
```

Example 2 Invalid Option or Option Combination

3.1.1.3.3 Provisioned Identity Cannot Be Found

When an identity (either public identity or private identity) cannot be found in the S-CSCF, a response indicating The user cannot be found in this S-CSCF is returned, see Example 3.

```
<?xml version="1.0" encoding="UTF-8"?>
<userData>
  <date>2018/03/01</date>
  <time>09:41:06:112</time>
  <action>
    cscfUserDataPrintImpu sip:sipphone30032000@cscf205.lab ALL
  </action>
  <irs>
    The user cannot be found in this S-CSCF
  </irs>
  <userDataSizeInBytes>315</userDataSizeInBytes>
</userData>
```

Example 3 Provisioned Identity Cannot Be Found



3.1.1.3.4 DBN Error

When there is an error while reading a DBN attribute, the message `DBN error, please try again later` is printed as the value of the attribute.

3.1.2 User Data Output over NETCONF Interface

The user data of an individual user can be printed over the NETCONF interface based on either the user's public identity or the user's private identity.

3.1.2.1 Print User Data Based on Public Identity of a User

To print user data based on the public identity of a user:

1. Start a NETCONF session over SSH.

```
ssh <user>@<platform-vip> -s netconf
```

For example: `ssh root@192.168.10.1 -s netconf`

Enter the password: `xxxxxx` for this user.

2. Send or receive a `<hello>` message to exchange capabilities.

The `<hello>` message is received as follows:



```
<?xml version="1.0" encoding="UTF-8"?>
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <capabilities>
    <capability>
      urn:ietf:params:netconf:base:1.0
    </capability>
    <capability>
      urn:com:ericsson:ebase:0.1.0
    </capability>
    <capability>
      urn:com:ericsson:ebase:1.1.0
    </capability>
    <capability>
      urn:ietf:params:netconf:capability:writable-running:1.0\
    </capability>
    <capability>
      urn:ietf:params:netconf:capability:rollback-on-error:1.0\
    </capability>
    <capability>
      urn:ietf:params:netconf:capability:notification:1.0\
    </capability>
  </capabilities>
  <session-id>3</session-id>
</hello>
]]>]]>
```

Send a *<hello>* message as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
  <hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <capabilities>
      <capability>urn:ietf:params:netconf:base:1.0</capability>
    </capabilities>
  </hello>]]>]]>
```

3. Send an *<action>* request in an *<rpc>* message to print user data:

```
<?xml version="1.0" encoding="UTF-8"?>
  <rpc message-id="1" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <action xmlns="urn:com:ericsson:ecim:1.0">
      <data>
        <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
          <managedElementId>jambala</managedElementId>
          <CscfFunction>
            <applicationName>1</applicationName>
            <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
              <applicationName>CSCF</applicationName>
              <CscfTroubleshootingGroupClass>
                <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
                <CscfUserDataOutputClass>
                  <cscfUserDataOutputId>default</cscfUserDataOutputId>
                  <cscfUserDataPrintImpu>
                    <impu>sip:sipphone20032000@cscf205.lab</impu>
                    <option>ALL</option>
                  </cscfUserDataPrintImpu>
                </CscfUserDataOutputClass>
              </CscfTroubleshootingGroupClass>
            </CSCF-Application>
          </CscfFunction>
        </ManagedElement>
      </data>
    </action>
  </rpc>
</></>
```

4. The user data is printed as the value of the `<returnValue>` element in a `<rpc-reply>` message:



```
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  message-id="100">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>jambala</managedElementId>
      <CscfFunction xmlns="urn:com:ericsson:ecim:CscfFunction">
        <applicationName>1</applicationName>
        <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
          <applicationName>CSCF</applicationName>
          <CscfTroubleshootingGroupClass>
            <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
            <CscfUserDataOutputClass>
              <cscfUserDataOutputId>default</cscfUserDataOutputId>
              <cscfUserDataPrintImpu>
                <returnValue>USER DATA PRINTOUT</returnValue>
              </cscfUserDataPrintImpu>
            </CscfUserDataOutputClass>
          </CscfTroubleshootingGroupClass>
        </CSCF-Application>
      </CscfFunction>
    </ManagedElement>
  </data>
</rpc-reply>
]]>]]>
```

For a detailed example, see Section 5.4 Printout Based on IMPU over NETCONF Interface on page 48.

5. Close the NETCONF session.

Press **Ctrl+C** / **Ctrl+D** or send out a close session request, as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Session close message does the commit -->
<rpc message-id="1" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <close-session/>
</rpc>
```

3.1.2.2 Print User Data Based on Private Identity of a User

To print user data based on the private identity of a user:

1. Start a NETCONF session over SSH.

```
ssh <user>@<platform-vip> -s netconf
```

For example: **ssh root@192.168.10.1 -s netconf**

Enter the password: **xxxxxx** for this user.

2. Send or receive a `<hello>` message to exchange capabilities.

The `<hello>` message is received as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <capabilities>
    <capability>
      urn:ietf:params:netconf:base:1.0
    </capability>
    <capability>
      urn:com:ericsson:ebase:0.1.0
    </capability>
    <capability>
      urn:com:ericsson:ebase:1.1.0
    </capability>
    <capability>
      urn:ietf:params:netconf:capability:writable-running:1.0\
    </capability>
    <capability>
      urn:ietf:params:netconf:capability:rollback-on-error:1.0\
    </capability>
    <capability>
      urn:ietf:params:netconf:capability:notification:1.0\
    </capability>
  </capabilities>
  <session-id>3</session-id>
</hello>
]]>]]>
```

Send a `<hello>` message as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
  <hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <capabilities>
      <capability>urn:ietf:params:netconf:base:1.0</capability>
    </capabilities>
  </hello>]]>]]>
```

3. Send an `<action>` request in an `<rpc>` message to print user data.



```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="1" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <action xmlns="urn:com:ericsson:ecim:1.0">
    <data>
      <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
        <managedElementId>jambala</managedElementId>
        <CscfFunction>
          <applicationName>1</applicationName>
          <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
            <applicationName>CSCF</applicationName>
            <CscfTroubleshootingGroupClass>
              <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
              <CscfUserDataOutputClass>
                <cscfUserDataOutputId>default</cscfUserDataOutputId>
                <cscfUserDataPrintImpi>
                  <impi>IMPI Value</impi>
                  <option>Option Value</option>
                </cscfUserDataPrintImpi>
              </CscfUserDataOutputClass>
            </CscfTroubleshootingGroupClass>
          </CSCF-Application>
        </CscfFunction>
      </ManagedElement>
    </data>
  </action>
</rpc>
]]>]]>
```

4. The user data is printed as the value of the `<returnValue>` element in an `<rpc-reply>` message.



```
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  message-id="100">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>jambala</managedElementId>
      <CscfFunction xmlns="urn:com:ericsson:ecim:CscfFunction">
        <applicationName>1</applicationName>
        <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
          <applicationName>CSCF</applicationName>
          <CscfTroubleshootingGroupClass>
            <cscfTroubleshootingGroupId>
              0
            </cscfTroubleshootingGroupId>
            <CscfUserDataOutputClass>
              <cscfUserDataOutputId>default</cscfUserDataOutputId>
              <cscfUserDataPrintImpi>
                <returnValue>USER DATA PRINTOUT</returnValue>
              </cscfUserDataPrintImpi>
            </CscfUserDataOutputClass>
          </CscfTroubleshootingGroupClass>
        </CSCF-Application>
      </CscfFunction>
    </ManagedElement>
  </data>
</rpc-reply>
]]>]]>
```

For a detailed example, see Section 5.5 Printout Based on IMPI over NETCONF Interface on page 54.

3.1.2.3 Error Responses

3.1.2.3.1 Missing Input Parameters

When a required input parameter (argument) is missing, an error message indicating missing arguments is returned, see Example 4.

When there is a missing option parameter for the `cscfUserDataPrintImpu` invocation:



```
<?xml version="1.0" encoding="UTF-8"?>
  <rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <action xmlns="urn:com:ericsson:ecim:1.0">
      <data>
        <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
          <managedElementId>jambala</managedElementId>
          <CscfFunction>
            <applicationName>1</applicationName>
            <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
              <applicationName>CSCF</applicationName>
              <CscfTroubleshootingGroupClass>
                <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
                <CscfUserDataOutputClass>
                  <cscfUserDataOutputId>default</cscfUserDataOutputId>
                  <cscfUserDataPrintImpu>
                    <impu>sip:sipphone20032000@cscf205.lab</impu>
                    <option></option>
                  </cscfUserDataPrintImpu>
                </CscfUserDataOutputClass>
              </CscfTroubleshootingGroupClass>
            </CSCF-Application>
          </CscfFunction>
        </ManagedElement>
      </data>
    </action>
  </rpc>
```

Example 4 *Missing Input Parameters*

An error message is returned in the XML [rpc-reply] message as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply message-id="100"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>jambala</managedElementId>
      <CscfFunction xmlns="urn:com:ericsson:ecim:CscfFunction">
        <applicationName>1</applicationName>
        <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
          <applicationName>CSCF</applicationName>
          <CscfTroubleshootingGroupClass>
            <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
            <CscfUserDataOutputClass>
              <cscfUserDataOutputId>default</cscfUserDataOutputId>
              <cscfUserDataPrintImpu>
                <returnValue>Invalid option specified. Empty option
                  not allowed</returnValue>
              </cscfUserDataPrintImpu>
            </CscfUserDataOutputClass>
          </CscfTroubleshootingGroupClass>
        </CSCF-Application>
      </CscfFunction>
    </ManagedElement>
  </data>
</rpc-reply>
```

3.1.2.3.2 Invalid Option or Option Combination

When an invalid option or option combination is provided for action invocation, an error message is returned indicating that an invalid option has been specified, see Example 5.

When an invalid option value *w* has been provided for the `cscfUserDataPrintImpu` invocation:



```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="100" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <action xmlns="urn:com:ericsson:ecim:1.0">
    <data>
      <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
        <managedElementId>jambala</managedElementId>
        <CscfFunction>
          <applicationName>1</applicationName>
          <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
            <applicationName>CSCF</applicationName>
            <CscfTroubleshootingGroupClass>
              <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
              <CscfUserDataOutputClass>
                <cscfUserDataOutputId>default</cscfUserDataOutputId>
                <cscfUserDataPrintImpu>
                  <impu>sip:sipphone20032000@cscf205.lab</impu>
                  <option>w</option>
                </cscfUserDataPrintImpu>
              </CscfUserDataOutputClass>
            </CscfTroubleshootingGroupClass>
          </CSCF-Application>
        </CscfFunction>
      </ManagedElement>
    </data>
  </action>
</rpc>
```

Example 5 *Invalid Option or Option Combination*

An error message is returned in the XML [rpc-reply] message as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply message-id="100"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>jambala</managedElementId>
      <CscfFunction xmlns="urn:com:ericsson:ecim:CscfFunction">
        <applicationName>1</applicationName>
        <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
          <applicationName>CSCF</applicationName>
          <CscfTroubleshootingGroupClass>
            <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
            <CscfUserDataOutputClass>
              <cscfUserDataOutputId>default</cscfUserDataOutputId>
              <cscfUserDataPrintImpu>
                <returnValue> Invalid option specified [w].
The supported options are (any &apos;/&apos;-separated combination of):
I, C, D, A, ALL.
I: printout IRS data (including IRS, IMPI, Service Profile, IMPU,
  SiFC&amp;IFC, and Unregistered User Profile data)
C: printout Contact data (including IPsec data)
D: printout Dialog data
A: printout Authentication data (including CSCF Aka Authentication and
  CSCF SIP
  Digest Authentication Vector data)
ALL: printout all user data </returnValue>
              </cscfUserDataPrintImpu>
            </CscfUserDataOutputClass>
          </CscfTroubleshootingGroupClass>
        </CSCF-Application>
      </CscfFunction>
    </ManagedElement>
  </data>
</rpc-reply>
```

3.1.2.3.3 Provisioned Identity Cannot Be Found

When a public or private identity cannot be found in S-CSCF, a response indicating The user cannot be found in this S-CSCF is returned, see Example 6.

When a public identity has been provided for the `cscfUserDataPrintImpu` invocation:



```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="100"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <action xmlns="urn:com:ericsson:ecim:1.0">
    <data>
      <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
        <managedElementId>jambala</managedElementId>
        <CscfFunction>
          <applicationName>1</applicationName>
          <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
            <applicationName>CSCF</applicationName>
            <CscfTroubleshootingGroupClass>
              <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
              <CscfUserDataOutputClass>
                <cscfUserDataOutputId>default</cscfUserDataOutputId>
                <cscfUserDataPrintImpu>
                  <impu>sip:sipphone20032000@cscf205.lab</impu>
                  <option>all</option>
                </cscfUserDataPrintImpu>
              </CscfUserDataOutputClass>
            </CscfTroubleshootingGroupClass>
          </CSCF-Application>
        </CscfFunction>
      </ManagedElement>
    </data>
  </action>
</rpc>
```

Example 6 Provisioned Identity Cannot Be Found

A message saying The user cannot be found in this S-CSCF is returned as the value of the `<returnValue>` element in an [rpc-reply] message.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply message-id="100"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>jambala</managedElementId>
      <CscfFunction xmlns="urn:com:ericsson:ecim:CscfFunction">
        <applicationName>1</applicationName>
        <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
          <applicationName>CSCF</applicationName>
          <CscfTroubleshootingGroupClass>
            <cscfTroubleshootingGroupId>
              0
            </cscfTroubleshootingGroupId>
            <CscfUserDataOutputClass>
              <cscfUserDataOutputId>default</cscfUserDataOutputId>
              <cscfUserDataPrintImpu>
                <returnValue><?xml version="1.0" encoding="
<userData>
  <date>2018/03/01</date>
  <time>12:37:18:006</time>
  <action>cscfUserDataPrintImpu sip:sipphone20032000@cscf205.lab \
    ALL</action>
  <irs>
    The user cannot be found in this S-CSCF
  </irs>
<userDataSizeInBytes>309</userDataSizeInBytes>
</userData></returnValue>
    </cscfUserDataPrintImpu>
  </CscfUserDataOutputClass>
</CscfTroubleshootingGroupClass>
</CSCF-Application>
</CscfFunction>
</ManagedElement>
</data>
</rpc-reply>
```

3.1.2.3.4 DBN Error

When there is an error while reading a DBN attribute, the message DBN error, please try again later is printed as the value of the attribute.



4 User Data Output XML Schema

For the schema of the user data output XML document, refer to the `user_data_output.xsd` file. This is a print-out of that file.

Note: The character semicolon “;” can be escaped with an equivalent ASCII hex-code “\x3B” in the output.

```
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" xmlns:
xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="userData">
    <xs:complexType>
      <xs:sequence>
        <xs:element type="xs:string" name="date"/>
        <xs:element type="xs:string" name="time"/>
        <xs:element type="xs:string" name="action"/>
        <xs:element name="irs" maxOccurs="unbounded">
          <xs:complexType mixed="true">
            <xs:sequence>
              <xs:element type="xs:string" name="key" minOccurs="0"/>
              <xs:element type="xs:string" name="identityType" minOccurs="0"/>
              <xs:element type="xs:string" name="primaryCcf" minOccurs="0"/>
              <xs:element type="xs:string" name="secondaryCcf" minOccurs="0"/>
              <xs:element type="xs:string" name="primaryEcf" minOccurs="0"/>
              <xs:element type="xs:string" name="secondaryEcf" minOccurs="0"/>
              <xs:element type="xs:string" name="activeUsers" minOccurs="0"/>
              <xs:element type="xs:string" name="hssHostName" minOccurs="0"/>
              <xs:element type="xs:string" name="esrn" minOccurs="0"/>
              <xs:element type="xs:byte" name="maxNumberContactsPerIrs" minOccurs="0"/>
              <xs:element type="xs:string" name="hssSupportRestoration" minOccurs="0"/>
              <xs:element type="xs:byte" name="restorationStatus" minOccurs="0"/>
              <xs:element name="impi" maxOccurs="unbounded" minOccurs="0"/>
            <xs:complexType>
              <xs:sequence>
                <xs:element type="xs:string" name="key"/>
                <xs:element type="xs:byte" name="looseRouteIndication"/>
                <xs:element type="xs:byte" name="markAsDeletedIndication"/>
                <xs:element name="contactContainer" minOccurs="0">
                  <xs:complexType mixed="true">
                    <xs:sequence>
                      <xs:element name="key" minOccurs="0">
                        <xs:complexType>
                          <xs:sequence>
                            <xs:element type="xs:string" name="privateId"/>
                            <xs:element type="xs:string" name="publicId"/>
                          </xs:sequence>
                        </xs:complexType>
                      </xs:element>
                      <xs:element name="contacts" minOccurs="0">
                        <xs:complexType>
                          <xs:sequence>
                            <xs:element name="contactData" maxOccurs="unbounded">
                              <xs:complexType mixed="true">
                                <xs:sequence>
                                  <xs:element type="xs:string" name="contactUri"/>
                                  <xs:element type="xs:string" name="expirationTime"/>
                                  <xs:element type="xs:string" name="regCallId"/>
                                  <xs:element type="xs:string" name="contactUrl"/>
                                  <xs:element type="xs:string" name="pVisitedNetworkId"/>
                                  <xs:element name="authenticatedVias">
                                    <xs:complexType mixed="true">
                                      <xs:sequence>
                                        <xs:element type="xs:string" name="authenticatedVia"
                                          maxOccurs="unbounded"/>
                                      </xs:sequence>
                                    </xs:complexType>
                                  </xs:element>
                                  <xs:element type="xs:string" name="configurationProfile"/>
                                  <xs:element type="xs:string" name="hasScscfData"/>
                                </xs:sequence>
                              </xs:complexType>
                            </xs:element>
                          </xs:sequence>
                        </xs:complexType>
                      </xs:element>
                    </xs:sequence>
                  </xs:complexType>
                </xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:schema>
```



```
<xs:element name="scscfData">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:int" name="regCseq"/>
      <xs:element type="xs:float" name="qValue"/>
      <xs:element name="paths">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element type="xs:string" name="path" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:string" name="ssoAuthenticatedTime"/>
      <xs:element name="roamingInfo">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element type="xs:string" name="sgsnMccMnc"
              minOccurs="0"/>
            <xs:element type="xs:string" name="status" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:byte" name="authenticationType"/>
      <xs:element type="xs:string" name="nonce"/>
      <xs:element type="xs:string" name="nonceTimestamp"/>
      <xs:element type="xs:byte" name="nonceCount"/>
      <xs:element type="xs:string" name="hasAssociatedNoncePot"/>
      <xs:element type="xs:string" name="isEmergencyContact"/>
      <xs:element type="xs:string" name="contactUrlHashCode"/>
      <xs:element type="xs:string" name="pathsHashCode" minOccurs="0"/>
      <xs:element type="xs:string" name="featureCapsHashCode"/>
      <xs:element type="xs:string" name="featureCaps"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element type="xs:string" name="hasPcscfData"/>
<xs:element name="pcscfData" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="compartmentId"/>
      <xs:element type="xs:string" name="sigComp"/>
      <xs:element name="ipSecData">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element name="key" minOccurs="0">
              <xs:complexType>
                <xs:sequence>
                  <xs:element type="xs:string" name="privateId"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="saSets" minOccurs="0">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="saSet">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element type="xs:string" name="saSetKey"/>
                        <xs:element type="xs:byte" name="protocol"/>
                        <xs:element type="xs:byte" name="mode"/>
                        <xs:element type="xs:byte" name="ipVersion"/>
                        <xs:element type="xs:string"
                          name="authenticationAlgorithm"/>
                        <xs:element type="xs:string" name="ik"/>
                        <xs:element type="xs:string"
                          name="encryptionAlgorithm"/>
                        <xs:element type="xs:string" name="ck"/>
                        <xs:element type="xs:string" name="ue_ip"/>
                        <xs:element type="xs:string" name="cscf_ip"/>
                        <xs:element type="xs:short" name="port_uc"/>
                        <xs:element type="xs:short" name="port_us"/>
                        <xs:element type="xs:short" name="port_pc"/>
                        <xs:element type="xs:short" name="port_ps"/>
                        <xs:element type="xs:int" name="spi_pc"/>
                        <xs:element type="xs:int" name="spi_ps"/>
                        <xs:element type="xs:int" name="spi_uc"/>
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```

<xs:element type="xs:int" name="spi_us"/>
<xs:element type="xs:string" name="lifetime"/>
<xs:element type="xs:byte" name="type"/>
<xs:element name="secClientSuppAlgs">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="pairOfAlgs" maxOccurs=
        "unbounded" minOccurs="0">
          <xs:complexType>
            <xs:sequence>
              <xs:element type="xs:string"
                name="alg"/>
              <xs:element type="xs:string"
                name="ealg"/>
              <xs:element type="xs:short"
                name="q"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ipSecConnection">
    <xs:complexType>
      <xs:sequence>
        <xs:element type="xs:string"
          name="saSetKey"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="saSetInUse" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="saSetKey"/>
      <xs:element type="xs:byte" name="protocol"/>
      <xs:element type="xs:byte" name="mode"/>
      <xs:element type="xs:byte" name="ipVersion"/>
      <xs:element type="xs:string"
        name="authenticationAlgorithm"/>
      <xs:element type="xs:string" name="ik"/>
      <xs:element type="xs:string"
        name="encryptionAlgorithm"/>
      <xs:element type="xs:string" name="ck"/>
      <xs:element type="xs:string" name="ue_ip"/>
      <xs:element type="xs:string" name="cscf_ip"/>
      <xs:element type="xs:short" name="port_uc"/>
      <xs:element type="xs:short" name="port_us"/>
      <xs:element type="xs:short" name="port_pc"/>
      <xs:element type="xs:short" name="port_ps"/>
      <xs:element type="xs:int" name="spi_pc"/>
      <xs:element type="xs:int" name="spi_ps"/>
      <xs:element type="xs:int" name="spi_uc"/>
      <xs:element type="xs:int" name="spi_us"/>
      <xs:element type="xs:string" name="lifetime"/>
      <xs:element type="xs:byte" name="type"/>
      <xs:element name="secClientSuppAlgs">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="pairOfAlgs" maxOccurs=
              "unbounded" minOccurs="0">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element type="xs:string"
                      name="alg"/>
                    <xs:element type="xs:string"
                      name="ealg"/>
                    <xs:element type="xs:short"
                      name="q"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```



```
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ipSecConnection">
    <xs:complexType>
      <xs:sequence>
        <xs:element type="xs:string" name="saSetKey"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element type="xs:string"
  name="saSetUsedForLatestRegister" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="localClientAddress">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="ip" minOccurs="0"/>
      <xs:element type="xs:short" name="port" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="remoteServerAddress">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="ip" minOccurs="0"/>
      <xs:element type="xs:short" name="port" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ipAssociationData">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="ipAssociationKey"
        minOccurs="0"/>
      <xs:element name="telAssociationList" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="telAssociation"
              maxOccurs="unbounded" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="sipAssociationList" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="sipAssociation"
              maxOccurs="unbounded" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:string" name="publicId" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element type="xs:string" name="serviceRoute" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="authenticationData" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
```



```

<xs:element name="akaAuthentication">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="key" minOccurs="0"/>
      <xs:element type="xs:string" name="akaVector" minOccurs="0"/>
      <xs:element type="xs:string" name="challengeCallId" minOccurs="0"/>
      <xs:element type="xs:string" name="challengeTimeout" minOccurs="0"/>
      <xs:element type="xs:string" name="isAuthenticated" minOccurs="0"/>
      <xs:element type="xs:string" name="publicId" minOccurs="0"/>
      <xs:element type="xs:string" name="expiresTime" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="sipDigestAuthenticationVector">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="privateId" minOccurs="0"/>
      <xs:element type="xs:string" name="realm" minOccurs="0"/>
      <xs:element type="xs:string" name="ha1" minOccurs="0"/>
      <xs:element type="xs:string" name="expiresTime" minOccurs="0"/>
      <xs:element type="xs:string" name="isRegistered" minOccurs="0"/>
      <xs:element type="xs:string" name="secondaryHa1" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="serviceProfile" maxOccurs="unbounded" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="key"/>
      <xs:element type="xs:string" name="smpId"/>
      <xs:element type="xs:string" name="maxNoOfSessions"/>
      <xs:element type="xs:string" name="phoneContext"/>
      <xs:element name="subscriptionId">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="subscriptionIdType"/>
            <xs:element type="xs:string" name="subscriptionIdData"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:byte" name="sifcFeatureConfigVersion"/>
      <xs:element name="sharedIfcSetIdentifiers">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element type="xs:string" name="sharedIfcSetIdentifier" minOccurs="0"
              maxOccurs="unbounded"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="explicitIfcSet">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element type="xs:int" name="classNo" minOccurs="0" maxOccurs="unbounded"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="explicitIfcSetPriorities">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element type="xs:byte" name="explicitIfcSetPriority" minOccurs="0"
              maxOccurs="unbounded"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="explicitIfcSetServerNames">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element type="xs:string" name="explicitIfcServerName" minOccurs="0"
              maxOccurs="unbounded"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```
</xs:complexType>
</xs:element>
<xs:element name="explicitIfcSetServerNameReferences">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:byte" name="explicitIfcServerNameReference" minOccurs="0"
        maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="originatingCDIVServerNameIfcReferences">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="originatingCDIVServerNameIfcReference"
        minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="origUnregisteredServerNameIfcReferences">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="origUnregisteredServerNameIfcReference"
        minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="termUnregisteredServerNameIfcReferences">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="termUnregisteredServerNameIfcReference"
        minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="impu" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="key"/>
      <xs:element type="xs:string" name="irsKey"/>
      <xs:element type="xs:string" name="hasCommonData"/>
      <xs:element type="xs:string" name="hasScscfData"/>
      <xs:element name="scscfData">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="barringIndicator"/>
            <xs:element type="xs:string" name="aliasIdentity"/>
            <xs:element type="xs:string" name="servicePriorityLevel"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:string" name="hasPcscfData"/>
      <xs:element type="xs:string" name="pcscfData"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SharedInitialFilterCriteria" maxOccurs="unbounded">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="priority" minOccurs="0"/>
      <xs:element name="TriggerPoint" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="conditionCnf"/>
            <xs:element name="TriggerGroup" maxOccurs="unbounded" minOccurs="0">
              <xs:complexType>
                <xs:sequence>
                  <xs:element type="xs:string" name="groupKey"/>
                  <xs:element name="SPT" maxOccurs="unbounded" minOccurs="0">
                    <xs:complexType>
                      <xs:choice maxOccurs="unbounded" minOccurs="0">
                        <xs:element type="xs:string" name="isConditionNegated"/>
                        <xs:element type="xs:byte" name="sessionCase"/>
                        <xs:element type="xs:string" name="method"/>
                        <xs:element type="xs:string" name="requestUri"/>
                        <xs:element name="sipHeader">
                          <xs:complexType>
```




```

        <xs:sequence>
          <xs:element type="xs:string" name="header"/>
          <xs:element type="xs:string" name="content"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="Extention">
      <xs:complexType>
        <xs:sequence>
          <xs:element type="xs:string"
            name="registrationType"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SPT">
      <xs:complexType>
        <xs:sequence>
          <xs:element type="xs:string" name="isConditionNegated"/>
          <xs:element name="sipHeader">
            <xs:complexType>
              <xs:sequence>
                <xs:element type="xs:string" name="header"/>
                <xs:element type="xs:string" name="content"/>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element name="Extention">
            <xs:complexType>
              <xs:sequence>
                <xs:element type="xs:string" name=
                  "registrationType"/>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:choice>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ApplicationServer" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="serverName"/>
      <xs:element type="xs:byte" name="defaultHandling"/>
      <xs:element name="Extention">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="includeRegisterRequest"/>
            <xs:element type="xs:string" name="includeRegisterResponse"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
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  <xs:complexType mixed="true">
    <xs:sequence>
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      <xs:element name="TriggerPoint" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="conditionCnf"/>
            <xs:element name="TriggerGroup" maxOccurs="unbounded" minOccurs="0">
              <xs:complexType>
                <xs:sequence>

```



```
<xs:element type="xs:string" name="groupKey"/>
<xs:element name="SPT" maxOccurs="unbounded" minOccurs="0">
  <xs:complexType>
    <xs:choice maxOccurs="unbounded" minOccurs="0">
      <xs:element type="xs:string" name="isConditionNegated"/>
      <xs:element type="xs:byte" name="sessionCase"/>
      <xs:element type="xs:string" name="method"/>
      <xs:element type="xs:string" name="requestUri"/>
      <xs:element name="sipHeader">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="header"/>
            <xs:element type="xs:string" name="content"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="Extention">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="registrationType"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SPT">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="isConditionNegated"/>
            <xs:element name="sipHeader">
              <xs:complexType>
                <xs:sequence>
                  <xs:element type="xs:string" name="header"/>
                  <xs:element type="xs:string" name="content"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="Extention">
              <xs:complexType>
                <xs:sequence>
                  <xs:element type="xs:string"
                    name="registrationType"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:choice>
  </xs:complexType>
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  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="serverName"/>
      <xs:element type="xs:byte" name="defaultHandling"/>
      <xs:element name="Extention">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="includeRegisterRequest"/>
            <xs:element type="xs:string" name="includeRegisterResponse"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="dialogueContainer" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType mixed="true">
```



```

<xs:sequence>
  <xs:element name="key" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element type="xs:string" name="irsId"/>
        <xs:element type="xs:string" name="serviceProfileId"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="dialogues" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="dialogueData" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="key">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element type="xs:string" name="callId"/>
                    <xs:element type="xs:string" name="tag1"/>
                    <xs:element type="xs:string" name="tag2"/>
                    <xs:element type="xs:string" name="publicId"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
              <xs:element type="xs:string" name="isPcscfDialogue"/>
              <xs:element type="xs:string" name="isScscfDialogue"/>
              <xs:element type="xs:string" name="isEcscfDialogue"/>
              <xs:element type="xs:byte" name="sessionCase"/>
              <xs:element type="xs:string" name="configurationProfile"/>
              <xs:element type="xs:string" name="icid"/>
              <xs:element type="xs:string" name="isCallForwarded"/>
              <xs:element type="xs:string" name="resourcePriority"/>
              <xs:element name="routingData">
                <xs:complexType>
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                          <xs:element type="xs:string" name="contact"/>
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                      </xs:complexType>
                    </xs:element>
                    <xs:element name="remoteEndpointRoutingData">
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                              <xs:sequence>
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                                  maxOccurs="unbounded" minOccurs="0"/>
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                            </xs:complexType>
                          </xs:element>
                          <xs:element type="xs:string" name="user"/>
                          <xs:element type="xs:string" name="contact"/>
                          <xs:element type="xs:long" name="cseq"/>
                        </xs:sequence>
                      </xs:complexType>
                    </xs:element>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="inviteDialogueData" minOccurs="0">
          <xs:complexType mixed="true">
            <xs:sequence>
              <xs:element type="xs:byte" name="dialogueState" minOccurs="0"/>
              <xs:element type="xs:byte" name="iscProperties" minOccurs="0"/>
              <xs:element type="xs:string" name="startTime" minOccurs="0"/>
              <xs:element name="chargingData" minOccurs="0">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="offlineChargingData" minOccurs="0">

```



```
<xs:complexType>
  <xs:sequence>
    <xs:element type="xs:string" name="offlineConfig"/>
    <xs:element type="xs:string" name="origIoi"/>
    <xs:element type="xs:string" name="termIoi"/>
    <xs:element type="xs:string" name="interimInterval"/>
    <xs:element type="xs:string" name="destinationHost"/>
    <xs:element type="xs:string"
      name="destinationRealm"/>
    <xs:element type="xs:string"
      name="secondaryDestinationRealm"/>
    <xs:element type="xs:string" name="sessionId"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
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  <xs:complexType>
    <xs:sequence>
      <xs:element type="xs:string" name="onlineConfig"/>
      <xs:element type="xs:string" name="sessionId"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element type="xs:string" name="expirationTime"
  minOccurs="0"/>
<xs:element type="xs:string" name="icid" minOccurs="0"/>
<xs:element type="xs:string" name="rxDestinationHost"
  minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="subscribeDialogueData" minOccurs="0">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element name="eventKey" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="event"/>
            <xs:element type="xs:string" name="eventId"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element type="xs:string" name="lastEvent" minOccurs="0"/>
      <xs:element type="xs:string" name="regEventId" minOccurs="0"/>
      <xs:element type="xs:string" name="regInfoVersion" minOccurs="0"/>
      <xs:element type="xs:string" name="dialogueDuration" minOccurs="0"/>
      <xs:element type="xs:string" name="reason" minOccurs="0"/>
      <xs:element type="xs:string" name="subscribeViaHeader"
        minOccurs="0"/>
      <xs:element type="xs:string" name="subscribeRequestUri"
        minOccurs="0"/>
      <xs:element type="xs:string" name="subscribeEventToTag"
        minOccurs="0"/>
      <xs:element type="xs:string" name="subscribeEventCallId"
        minOccurs="0"/>
      <xs:element type="xs:string" name="subscribeKey" minOccurs="0"/>
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  </xs:complexType>
</xs:element>
<xs:element name="chargingData" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="offlineChargingData" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="offlineConfig"/>
            <xs:element type="xs:string" name="origIoi"/>
            <xs:element type="xs:string" name="termIoi"/>
            <xs:element type="xs:string" name="interimInterval"/>
            <xs:element type="xs:string" name="destinationHost"/>
            <xs:element type="xs:string" name="destinationRealm"/>
            <xs:element type="xs:string"
              name="secondaryDestinationRealm"/>
            <xs:element type="xs:string" name="sessionId"/>
          </xs:sequence>
        </xs:complexType>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
```



```

        </xs:element>
        <xs:element name="onlineChargingData" minOccurs="0">
          <xs:complexType>
            <xs:sequence>
              <xs:element type="xs:string" name="onlineConfig"/>
              <xs:element type="xs:string" name="sessionId"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element type="xs:string" name="expirationTime"
    minOccurs="0"/>
  <xs:element type="xs:string" name="icid" minOccurs="0"/>
  <xs:element type="xs:string" name="rxDestinationHost"
    minOccurs="0"/>
</xs:sequence>
</xs:complexType>
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</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
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</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="unregisteredUserProfile" minOccurs="0">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:element type="xs:string" name="key" minOccurs="0"/>
      <xs:element type="xs:string" name="expirationTime" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element type="xs:int" name="userDataSizeInBytes"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```





5 User Data Printout Format and Examples

5.1 User Data Printout Format

In general, the user data printout format can be illustrated as shown in Figure 1.

Note: This is a simplified view, not all elements are displayed.

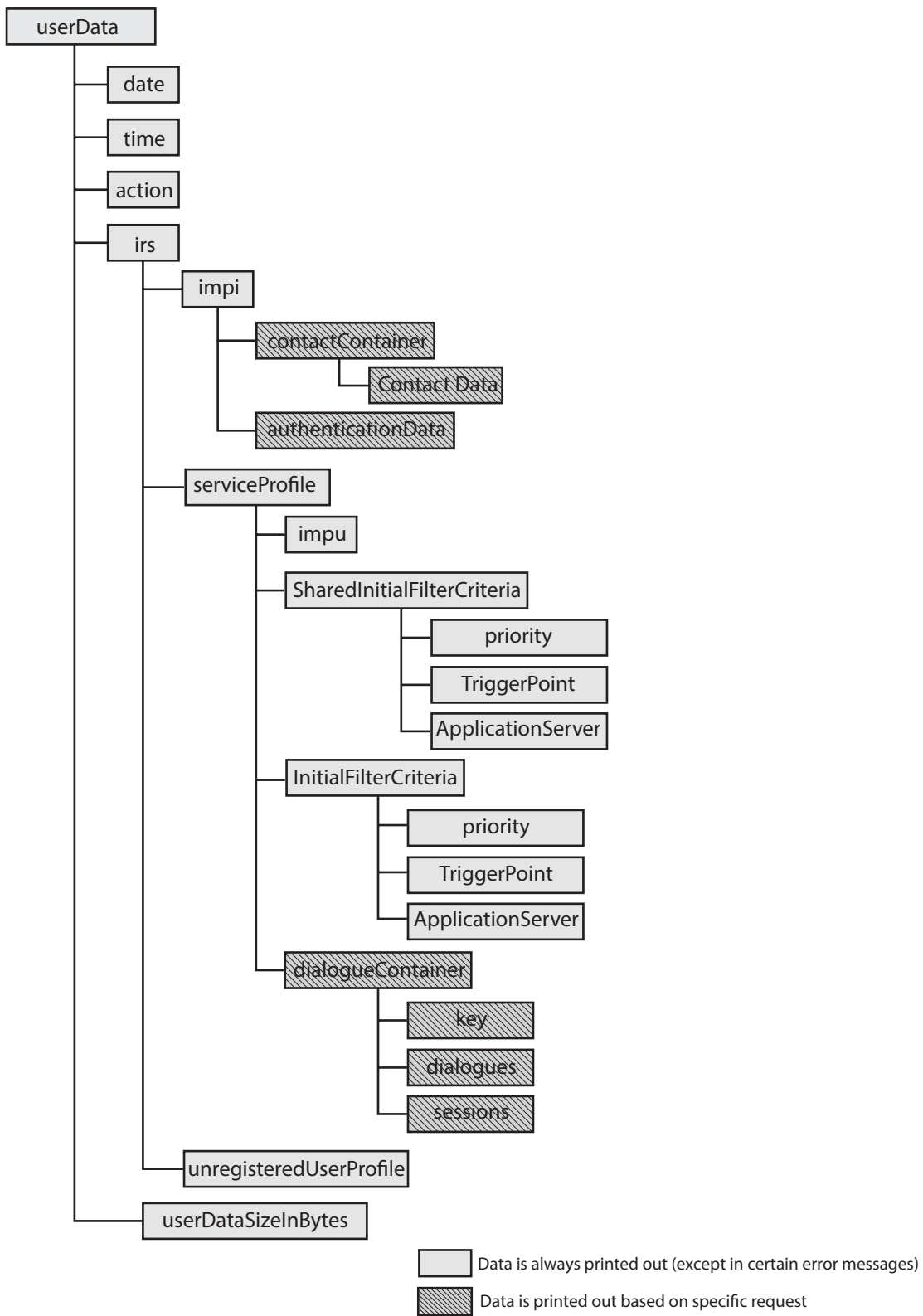


Figure 1 User Data Printout Format



5.2 Printout Based on IMPU over ECLI Interface

See Example 7 for user data printout based on an IMPU over ECLI interface.

```
<?xml version="1.0" encoding="UTF-8"?>
<userData>
  <date>2018/03/01</date>
  <time>08:34:03:095</time>
  <action>cscfUserDataPrintImpu sip:sipphone20032000@cscf205.lab ALL</action>
  <irs>
    <key>sip:sipphone20032000@cscf205.lab</key>
    <identityType>0</identityType>
    <primaryCcf>aaa://ericsson.se:3868;transport=tcp</primaryCcf>
    <secondaryCcf>aaa://ericsson.se:3868;transport=tcp</secondaryCcf>
    <primaryEcf>aaa://ericsson.se:3868;transport=tcp</primaryEcf>
    <secondaryEcf>aaa://ericsson.se:3868;transport=tcp</secondaryEcf>
    <activeUsers>
      No value defined
    </activeUsers>
    <hssHostName>HSS.ericsson.se</hssHostName>
    <esrn>No value defined</esrn>
    <maxNumberContactsPerIrs>-1</maxNumberContactsPerIrs>
    <hssSupportRestoration>FALSE</hssSupportRestoration>
    <restorationStatus>0</restorationStatus>
    <isWPSI>FALSE</isWPSI>
    <pcscfRestorationTime>2018/03/01T08:31:19:679</pcscfRestorationTime>
    <impi>
      <key>sipphone20032000@cscf205.lab</key>
      <looseRouteIndication>0</looseRouteIndication>
      <markAsDeletedIndication>0</markAsDeletedIndication>
      <contactContainer>
        <key>
          <privateId>sipphone20032000@cscf205.lab</privateId>
          <publicId>sip:sipphone20032000@cscf205.lab</publicId>
        </key>
        <contacts>
          <contactData>
            <contactUri>sip:sipphone20032000@3.0.90.1:5133</contactUri>
            <expirationTime>2018/03/02T08:31:24:679</expirationTime>
            <regCallId>2db2-2de-3db41@3.0.90.1</regCallId>
            <contactUrl>
              <sip:sipphone20032000@3.0.90.1:5133>;=1.0;expires=86400;+g.poc.talkburst
            </contactUrl>
            <pVisitedNetworkId>pcscf.cscf205.lab</pVisitedNetworkId>
            <authenticatedVias>
              <authenticatedVia>3.0.90.1</authenticatedVia>
            </authenticatedVias>
            <configurationProfile>No value defined</configurationProfile>
            <hasScscfData>TRUE</hasScscfData>
            <scscfData>
              <regCseq>7148</regCseq>
              <qValue>1000.000000</qValue>
              <paths>
                <path><sip:3Zqkv7%0AccWiaaaaaasip%3Asipphone20032000@pcscf.cscf205.lab:5062></path>
              </paths>
              <ssoAuthenticatedTime>No value defined</ssoAuthenticatedTime>
            <roamingInfo>
              <sgsnMccMnc>No value defined</sgsnMccMnc>
              <status>No value defined</status>
            </roamingInfo>
            <authenticationType>0</authenticationType>
            <nonce>No value defined</nonce>
            <nonceTimestamp>No value defined</nonceTimestamp>
            <nonceCount>0</nonceCount>
            <hasAssociatedNoncePot>FALSE</hasAssociatedNoncePot>
            <isEmergencyContact>FALSE</isEmergencyContact>
            <contactUrlHashCode>2571200008</contactUrlHashCode>
            <pathsHashCode>23290</pathsHashCode>
            <featureCapsHashCode>0</featureCapsHashCode>
            <pubGruu>No value defined</pubGruu>
            <accessType>No value defined</accessType>
            <accessNetworkInfo>No value defined</accessNetworkInfo>
            <accessInfo>No value defined</accessInfo>
            <featureCaps>

```



```
        No value defined
      </featureCaps>
    </scscfData>
    <hasPcscfData>TRUE</hasPcscfData>
    <pcscfData>
      <ipSecData>
        No value defined
      </ipSecData>
      <localClientAddress>
        <ip>No value defined</ip>
        <port>0</port>
      </localClientAddress>
      <remoteServerAddress>
        <ip>No value defined</ip>
        <port>0</port>
      </remoteServerAddress>
      <ipAssociationData>
        No value defined
      </ipAssociationData>
    </pcscfData>
  </contactData>
</contacts>
<serviceRoute>
  No value defined
</serviceRoute>
</contactContainer>
<authenticationData>
  <akaAuthentication>
    No value defined
  </akaAuthentication>
  <sipDigestAuthenticationVector>No value defined</sipDigestAuthenticationVector>
</authenticationData>
</impi>
<serviceProfile>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <smpId>0</smpId>
  <maxNoOfSessions>0</maxNoOfSessions>
  <phoneContext>No value defined</phoneContext>
  <subscriptionId>
    <subscriptionIdType>0</subscriptionIdType>
    <subscriptionIdData>No value defined</subscriptionIdData>
  </subscriptionId>
  <sifcFeatureConfigVersion>0</sifcFeatureConfigVersion>
  <sharedIfcSetIdentifiers>
    No value defined
  </sharedIfcSetIdentifiers>
  <explicitIfcSet>
    <classNo>1084248</classNo>
    <classNo>1084248</classNo>
    <classNo>1084248</classNo>
    <classNo>1084248</classNo>
  </explicitIfcSet>
  <explicitIfcSetPriorities>
    <explicitIfcSetPriority>205003</explicitIfcSetPriority>
    <explicitIfcSetPriority>205005</explicitIfcSetPriority>
    <explicitIfcSetPriority>205007</explicitIfcSetPriority>
    <explicitIfcSetPriority>205009</explicitIfcSetPriority>
  </explicitIfcSetPriorities>
  <explicitIfcSetServerNames>
    <explicitIfcServerName><sip:port5090.cscf205.lab;lr></explicitIfcServerName>
  </explicitIfcSetServerNames>
  <explicitIfcSetServerNameReferences>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
  </explicitIfcSetServerNameReferences>
  <originatingCDIVServerNameIfcReferences>
    No value defined
  </originatingCDIVServerNameIfcReferences>
  <origUnregisteredServerNameIfcReferences>
    No value defined
  </origUnregisteredServerNameIfcReferences>
  <termUnregisteredServerNameIfcReferences>
    No value defined
  </termUnregisteredServerNameIfcReferences>
</serviceProfile>
```



```

<impu>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
  <scscfData>
    <barringIndicator>FALSE</barringIndicator>
    <aliasIdentity>tel:+46820032000</aliasIdentity>
    <servicePriorityLevel>-1</servicePriorityLevel>
  </scscfData>
  <hasPcscfData>FALSE</hasPcscfData>
  <pcscfData>
    No value defined
  </pcscfData>
</impu>
<impu>
  <key>tel:+46820032000</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
  <scscfData>
    <barringIndicator>FALSE</barringIndicator>
    <aliasIdentity>sip:sipmobile20032000@cscf205.lab</aliasIdentity>
    <servicePriorityLevel>-1</servicePriorityLevel>
  </scscfData>
  <hasPcscfData>FALSE</hasPcscfData>
  <pcscfData>
    No value defined
  </pcscfData>
</impu>
<impu>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
  <scscfData>
    <barringIndicator>FALSE</barringIndicator>
    <aliasIdentity>tel:+46820032000</aliasIdentity>
    <servicePriorityLevel>-1</servicePriorityLevel>
  </scscfData>
  <hasPcscfData>FALSE</hasPcscfData>
  <pcscfData>
    No value defined
  </pcscfData>
</impu>
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</SharedInitialFilterCriteria>
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  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
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      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>5</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sessionCase>1</sessionCase>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>7</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>

```



```
        <requestUri>/dummy/</requestUri>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  <TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sipHeader>
        <header>Contact</header>
        <content>./.</content>
      </sipHeader>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
</TriggerPoint>
<ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>
  <defaultHandling>1</defaultHandling>
  <Extention>
    <includeRegisterRequest>FALSE</includeRegisterRequest>
    <includeRegisterResponse>FALSE</includeRegisterResponse>
  </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205005</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  <TriggerGroup>
    <groupKey>5</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sessionCase>1</sessionCase>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>7</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <requestUri>/dummy/</requestUri>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sipHeader>
        <header>Contact</header>
        <content>./.</content>
      </sipHeader>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
```



```

</TriggerPoint>
<ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>
  <defaultHandling>1</defaultHandling>
  <Extention>
    <includeRegisterRequest>FALSE</includeRegisterRequest>
    <includeRegisterResponse>FALSE</includeRegisterResponse>
  </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>25007</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>5</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sessionCase>1</sessionCase>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>7</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <requestUri>dummy</requestUri>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>9</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sipHeader>
          <header>Contact</header>
          <content>.*</content>
        </sipHeader>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </TriggerPoint>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>25009</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>

```



```

        <Extention>
            <registrationType>NA</registrationType>
        </Extention>
    </SPT>
</TriggerGroup>
<TriggerGroup>
    <groupKey>5</groupKey>
    <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sessionCase>1</sessionCase>
        <Extention>
            <registrationType>NA</registrationType>
        </Extention>
    </SPT>
</TriggerGroup>
<TriggerGroup>
    <groupKey>7</groupKey>
    <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <requestUri>/dummy</requestUri>
        <Extention>
            <registrationType>NA</registrationType>
        </Extention>
    </SPT>
</TriggerGroup>
<TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sipHeader>
            <header>Contact</header>
            <content>/.*/</content>
        </sipHeader>
        <Extention>
            <registrationType>NA</registrationType>
        </Extention>
    </SPT>
</TriggerGroup>
</TriggerPoint>
<ApplicationServer>
    <serverName><sip:port5090as.cscf205.lab;lr></serverName>
    <defaultHandling>1</defaultHandling>
    <Extention>
        <includeRegisterRequest>FALSE</includeRegisterRequest>
        <includeRegisterResponse>FALSE</includeRegisterResponse>
    </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<dialogueContainer>
    No value defined
</dialogueContainer>
</serviceProfile>
<AsInstance>
    No value defined
</AsInstance>
<unregisteredUserProfile>
    No value defined
</unregisteredUserProfile>
</irs>
<userDataSizeInBytes>20059</userDataSizeInBytes>
</userData>

```

Example 7 User Data Printout Based on an IMPU over ECLI Interface

5.3 Printout Based on IMPI over ECLI Interface

See Example 8 for user data printout based on an IMPI over ECLI interface.

```

<?xml version="1.0" encoding="UTF-8"?>
<userData>
    <date>2018/03/01</date>
    <time>09:32:15:424</time>

```



```

<action>cscfUserDataPrintImpi sipphone20032000@cscf30.lab D/A</action>
<irs>
  <key>sip:sipphone20032000@cscf30.lab</key>
  <identityType>0</identityType>
  <primaryCcf>aaa://ericsson.se:3868;transport=tcp</primaryCcf>
  <secondaryCcf>aaa://ericsson.se:3868;transport=tcp</secondaryCcf>
  <primaryEcf>aaa://ericsson.se:3868;transport=tcp</primaryEcf>
  <secondaryEcf>aaa://ericsson.se:3868;transport=tcp</secondaryEcf>
  <activeUsers>
    No value defined
  </activeUsers>
  <hssHostName>HSS.ericsson.se</hssHostName>
  <esrn>No value defined</esrn>
  <maxNumberContactsPerIrs>-1</maxNumberContactsPerIrs>
  <hssSupportRestoration>FALSE</hssSupportRestoration>
  <restorationStatus>0</restorationStatus>
  <isWPSI>FALSE</isWPSI>
</irs>
<impi>
  <key>sipphone20032000@cscf205.lab</key>
  <looseRouteIndication>0</looseRouteIndication>
  <markAsDeletedIndication>0</markAsDeletedIndication>
  <authenticationData>
    <akaAuthentication>
      No value defined
    </akaAuthentication>
    <sipDigestAuthenticationVector>
      No value defined
    </sipDigestAuthenticationVector>
  </authenticationData>
</impi>
<serviceProfile>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <smpId>0</smpId>
  <maxNoOfSessions>0</maxNoOfSessions>
  <phoneContext>No value defined</phoneContext>
  <subscriptionId>
    <subscriptionIdType>0</subscriptionIdType>
    <subscriptionIdData>No value defined</subscriptionIdData>
  </subscriptionId>
  <sifcFeatureConfigVersion>0</sifcFeatureConfigVersion>
  <sharedIfcSetIdentifiers>
    No value defined
  </sharedIfcSetIdentifiers>
  <explicitIfcSet>
    <classNo>1084248</classNo>
    <classNo>1084248</classNo>
    <classNo>1084248</classNo>
    <classNo>1084248</classNo>
  </explicitIfcSet>
  <explicitIfcSetPriorities>
    <explicitIfcSetPriority>205003</explicitIfcSetPriority>
    <explicitIfcSetPriority>205005</explicitIfcSetPriority>
    <explicitIfcSetPriority>205007</explicitIfcSetPriority>
    <explicitIfcSetPriority>205009</explicitIfcSetPriority>
  </explicitIfcSetPriorities>
  <explicitIfcSetServerNames>
    <explicitIfcServerName><sip:port5090as.cscf205.lab;lr></explicitIfcServerName>
  </explicitIfcSetServerNames>
  <explicitIfcSetServerNameReferences>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
  </explicitIfcSetServerNameReferences>
  <originatingCDIVServerNameIfcReferences>
    No value defined
  </originatingCDIVServerNameIfcReferences>
  <origUnregisteredServerNameIfcReferences>
    No value defined
  </origUnregisteredServerNameIfcReferences>
  <termUnregisteredServerNameIfcReferences>
    No value defined
  </termUnregisteredServerNameIfcReferences>
</serviceProfile>
<impu>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>

```



```
<hasCommonData>FALSE</hasCommonData>
<hasScscfData>TRUE</hasScscfData>
<scscfData>
  <barringIndicator>FALSE</barringIndicator>
  <aliasIdentity>tel:+46820032000</aliasIdentity>
  <servicePriorityLevel>-1</servicePriorityLevel>
</scscfData>
<hasPcscfData>FALSE</hasPcscfData>
<pcscfData>
  No value defined
</pcscfData>
</impu>
<impu>
  <key>tel:+46820032000</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
  <scscfData>
    <barringIndicator>FALSE</barringIndicator>
    <aliasIdentity>sip:sipmobile20032000@cscf205.lab</aliasIdentity>
    <servicePriorityLevel>-1</servicePriorityLevel>
  </scscfData>
  <hasPcscfData>FALSE</hasPcscfData>
  <pcscfData>
    No value defined
  </pcscfData>
</impu>
<impu>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
  <scscfData>
    <barringIndicator>FALSE</barringIndicator>
    <aliasIdentity>tel:+46820032000</aliasIdentity>
    <servicePriorityLevel>-1</servicePriorityLevel>
  </scscfData>
  <hasPcscfData>FALSE</hasPcscfData>
  <pcscfData>
    No value defined
  </pcscfData>
</impu>
<SharedInitialFilterCriteria>
  No value defined
</SharedInitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205003</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>5</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sessionCase>1</sessionCase>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>7</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <requestUri>/dummy/</requestUri>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </TriggerPoint>

```




```

        </Extention>
      </SPT>
    </TriggerGroup>
  <TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sipHeader>
        <header>Contact</header>
        <content>./.</content>
      </sipHeader>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
</TriggerPoint>
<ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>
  <defaultHandling>1</defaultHandling>
  <Extention>
    <includeRegisterRequest>FALSE</includeRegisterRequest>
    <includeRegisterResponse>FALSE</includeRegisterResponse>
  </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205005</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  <TriggerGroup>
    <groupKey>5</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sessionCase>1</sessionCase>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>7</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <requestUri>/dummy</requestUri>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sipHeader>
        <header>Contact</header>
        <content>./.</content>
      </sipHeader>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
</TriggerPoint>
<ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>

```



```
<defaultHandling>1</defaultHandling>
<Extention>
  <includeRegisterRequest>FALSE</includeRegisterRequest>
  <includeRegisterResponse>FALSE</includeRegisterResponse>
</Extention>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205007</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>5</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sessionCase>1</sessionCase>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>7</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <requestUri>/dummy/</requestUri>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>9</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sipHeader>
          <header>Contact</header>
          <content>/.*</content>
        </sipHeader>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </TriggerPoint>
  <ApplicationServer>
    <serverName><sip:port5090as.cscf205.lab;lr></serverName>
    <includeRegisterRequest>FALSE</includeRegisterRequest>
    <includeRegisterResponse>FALSE</includeRegisterResponse>
  </ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205009</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </TriggerPoint>
</InitialFilterCriteria>
```



```

<TriggerGroup>
  <groupKey>5</groupKey>
  <SPT>
    <isConditionNegated>FALSE</isConditionNegated>
    <sessionCase>1</sessionCase>
    <Extention>
      <registrationType>NA</registrationType>
    </Extention>
  </SPT>
</TriggerGroup>
<TriggerGroup>
  <groupKey>7</groupKey>
  <SPT>
    <isConditionNegated>FALSE</isConditionNegated>
    <requestUri>/dummy</requestUri>
    <Extention>
      <registrationType>NA</registrationType>
    </Extention>
  </SPT>
</TriggerGroup>
<TriggerGroup>
  <groupKey>9</groupKey>
  <SPT>
    <isConditionNegated>FALSE</isConditionNegated>
    <sipHeader>
      <header>Contact</header>
      <content>/.*</content>
    </sipHeader>
    <Extention>
      <registrationType>NA</registrationType>
    </Extention>
  </SPT>
</TriggerGroup>
</TriggerPoint>
<ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>
  <defaultHandling>1</defaultHandling>
  <Extention>
    <includeRegisterRequest>FALSE</includeRegisterRequest>
    <includeRegisterResponse>FALSE</includeRegisterResponse>
  </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<dialogueContainer>
  <dialogues>
    <dialogueData>
      <key>
        <callId>213d-25a332-1a1c86d91@3.0.0.89</callId>
        <tag1>f675518-327c.86d91</tag1>
        <tag2>5745232.6339_sipphone20032000</tag2>
        <publicId>sip:sipphone20032000@cscf205.lab</publicId>
      </key>
      <isPcscfDialogue>TRUE</isPcscfDialogue>
      <isScscfDialogue>TRUE</isScscfDialogue>
      <isEcscfDialogue>FALSE</isEcscfDialogue>
      <sessionCase>1</sessionCase>
      <configurationProfile>No value defined</configurationProfile>
      <icid>37b59bf20ba50056656888ce1b5</icid>
      <isCallForwarded>FALSE</isCallForwarded>
      <resourcePriority>-1</resourcePriority>
      <routingData>
        <localEndpointRoutingData>
          <routeSet>
            No value defined
          </routeSet>
          <user>sip:sipphone20032000@cscf205.lab;tag=1d95e318-2d0a.88cd1</user>
          <contact>sip:sipphone20032000@3.0.90.1:5133</contact>
          <cseq>4294967295</cseq>
        </localEndpointRoutingData>
        <remoteEndpointRoutingData>
          <routeSet>
            No value defined
          </routeSet>
          <user><sip:sipphone20000000@cscf205.lab>;tag=f675518-327c.86d91</user>
          <contact>sip:sipphone20000000@3.0.0.89:5101</contact>
          <cseq>28747</cseq>
        </remoteEndpointRoutingData>
      </routingData>
    </dialogueData>
  </dialogues>
</dialogueContainer>

```



```

        <contactUrl><sipphone20000000@3.0.0.89:5101></contactUrl>
      </remoteEndpointRoutingData>
    </routingData>
    <inviteDialogueData>
      <dialogueState>1</dialogueState>
      <iscProperties>0</iscProperties>
      <startTime>2018/03/01T09:32:07:761</startTime>
      <MediaTypes>
        No value defined
      </MediaTypes>
    </inviteDialogueData>
    <subscribeDialogueData>
      No value defined
    </subscribeDialogueData>
  </dialogueData>
</dialogues>
<sessions>
  No value defined
</sessions>
</dialogueContainer>
</serviceProfile>
<ASInstance>
  No value defined
</ASInstance>
<unregisteredUserProfile>
  No value defined
</unregisteredUserProfile>
</irs>
<userDataSizeInBytes>20059</userDataSizeInBytes>
</userData>

```

Example 8 User Data Printout Based on an IMPI over ECLI Interface

5.4 Printout Based on IMPU over NETCONF Interface

See Example 9 for user data printout based on an IMPU over NETCONF interface.

```

<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>1</managedElementId>
      <CscfFunction xmlns="urn:com:ericsson:ecim:CscfFunction">
        <applicationName>1</applicationName>
        <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
          <applicationName>CSCF</applicationName>
          <CscfTroubleshootingGroupClass>
            <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
            <CscfUserDataOutputClass>
              <cscfUserDataOutputId>default</cscfUserDataOutputId>
              <cscfUserDataPrintImpu>
                <returnValue><?xml version="1.0" encoding="UTF-8"?>
<userData>
  <date>2018/03/01</date>
  <time>12:37:18:006</time>
  <action>cscfUserDataPrintImpu sip:sipphone20032000@cscf205.lab ALL</action>
  <irs>
    <key>sip:sipphone20032000@cscf205.lab</key>
    <identityType>0</identityType>
    <primaryCcf>aaa://ericsson.se:3868;transport=tcp</primaryCcf>
    <secondaryCcf>aaa://ericsson.se:3868;transport=tcp</secondaryCcf>
    <primaryEcf>aaa://ericsson.se:3868;transport=tcp</primaryEcf>
    <secondaryEcf>aaa://ericsson.se:3868;transport=tcp</secondaryEcf>
    <activeUsers>
      No value defined
    </activeUsers>
    <hssHostName>HSS.ericsson.se</hssHostName>
    <esrn>No value defined</esrn>
    <maxNumberContactsPerIrs>-1</maxNumberContactsPerIrs>
    <hssSupportRestoration>FALSE</hssSupportRestoration>

```



```

<restorationStatus>0</restorationStatus>
<isWPSI>FALSE</isWPSI>
<pcscfRestorationTime>2018/03/01T12:33:52:228</pcscfRestorationTime>
<impi>
  <key>sipphone20032000@cscf205.lab</key>
  <looseRouteIndication>0</looseRouteIndication>
  <markAsDeletedIndication>0</markAsDeletedIndication>
  <privateIdRecoveryInProgress>FALSE</privateIdRecoveryInProgress>
  <contactContainer>
    <key>
      <privateId>sipphone20032000@cscf205.lab</privateId>
      <publicId>sip:sipphone20032000@cscf205.lab</publicId>
    </key>
    <contacts>
      <contactData>
        <contactUri>sip:sipphone20032000@3.0.90.1:5133</contactUri>
        <expirationTime>2018/03/02T12:33:57:228</expirationTime>
        <regCallId>4219-39a-58312@3.0.90.1</regCallId>
        <contactUrl>
          sip:sipphone20032000@3.0.90.1:5133;;expires=86400;+g.poc.talkburst
        </contactUrl>
        <pVisitedNetworkId>pcscf.cscf205.lab</pVisitedNetworkId>
        <authenticatedVias>
          <authenticatedVia>3.0.90.1</authenticatedVia>
        </authenticatedVias>
        <configurationProfile>No value defined</configurationProfile>
        <hasScscfData>TRUE</hasScscfData>
        <scscfData>
          <regCseq>9498</regCseq>
          <qValue>1000.000000</qValue>
          <paths>
            sip:3Zqkv7%0AccWiaaaaaasip:sipphone20032000@cscf205.lab@pcscf.cscf205.lab:5062
          </paths>
          <paths>
            sip:3Zqkv7%0AccWiaaaaaasip:sipphone20032000@cscf205.lab@pcscf.cscf205.lab:5062
          </paths>
          <ssoAuthenticatedTime>No value defined</ssoAuthenticatedTime>
          <roamingInfo>
            <sgsnMccMnc>No value defined</sgsnMccMnc>
            <status>No value defined</status>
          </roamingInfo>
          <authenticationType>0</authenticationType>
          <nonce>No value defined</nonce>
          <nonceTimestamp>No value defined</nonceTimestamp>
          <nonceCount>0</nonceCount>
          <hasAssociatedNoncePot>FALSE</hasAssociatedNoncePot>
          <isEmergencyContact>FALSE</isEmergencyContact>
          <contactUrlHashCode>2571200008</contactUrlHashCode>
          <pathsHashCode>23290</pathsHashCode>
          <featureCapsHashCode>0</featureCapsHashCode>
          <pubGruu>No value defined</pubGruu>
          <accessType>No value defined</accessType>
          <accessNetworkInfo>No value defined</accessNetworkInfo>
          <accessInfo>No value defined</accessInfo>
          <featureCaps>
            No value defined
          </featureCaps>
        </scscfData>
        <hasPcscfData>TRUE</hasPcscfData>
        <pcscfData>
          <ipSecData>
            No value defined
          </ipSecData>
          <localClientAddress>
            <ip>No value defined</ip>
            <port>0</port>
          </localClientAddress>
          <remoteServerAddress>
            <ip>No value defined</ip>
            <port>0</port>
          </remoteServerAddress>
          <ipAssociationData>
            No value defined
          </ipAssociationData>
        </pcscfData>
      </contactData>
    </contacts>
  </contactContainer>
</impi>

```



```
<serviceRoute>
  No value defined
</serviceRoute>
</contactContainer>
</authenticationData>
</impi>
<serviceProfile>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <smpId>0</smpId>
  <maxNoOfSessions>0</maxNoOfSessions>
  <phoneContext>No value defined</phoneContext>
  <subscriptionId>
    <subscriptionIdType>0</subscriptionIdType>
    <subscriptionIdData>No value defined</subscriptionIdData>
  </subscriptionId>
  <sifcFeatureConfigVersion>0</sifcFeatureConfigVersion>
  <sharedIfcSetIdentifiers>
    No value defined
  </sharedIfcSetIdentifiers>
  <explicitIfcSet>
    <classNo>1084248</classNo>
  </explicitIfcSet>
  <explicitIfcSetPriorities>
    <explicitIfcSetPriority>205003</explicitIfcSetPriority>
  </explicitIfcSetPriorities>
  <explicitIfcSetServerNames>
    <explicitIfcServerName><sip:port5090as.cscf205.lab><
      /explicitIfcServerName>
    </explicitIfcSetServerNames>
  <explicitIfcSetServerNameReferences>
    <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
  </explicitIfcSetServerNameReferences>
  <originatingCDIVServerNameIfcReferences>
    No value defined
  </originatingCDIVServerNameIfcReferences>
  <origUnregisteredServerNameIfcReferences>
    No value defined
  </origUnregisteredServerNameIfcReferences>
  <termUnregisteredServerNameIfcReferences>
    No value defined
  </termUnregisteredServerNameIfcReferences>
</impu>
<key>sip:sipphone20032000@cscf205.lab</key>
<irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
<hasCommonData>FALSE</hasCommonData>
<hasScscfData>TRUE</hasScscfData>
<scscfData>
  <barringIndicator>FALSE</barringIndicator>
  <aliasIdentity>tel:+46820032000</aliasIdentity>
  <servicePriorityLevel>-1</servicePriorityLevel>
</scscfData>
<hasPcscfData>FALSE</hasPcscfData>
<pcscfData>
  No value defined
</pcscfData>
</impu>
<impu>
  <key>tel:+46820032000</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
  <scscfData>
    <barringIndicator>FALSE</barringIndicator>
    <aliasIdentity>sip:sipmobile20032000@cscf205.lab</aliasIdentity>
    <servicePriorityLevel>-1</servicePriorityLevel>
  </scscfData>
  <hasPcscfData>FALSE</hasPcscfData>
  <pcscfData>
    No value defined
  </pcscfData>
</impu>
<impu>
  <key>sip:sipphone20032000@cscf205.lab</key>
  <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
  <hasCommonData>FALSE</hasCommonData>
  <hasScscfData>TRUE</hasScscfData>
```



```

<scscfData>
  <barringIndicator>FALSE</barringIndicator>
  <aliasIdentity>tel:+46820032000</aliasIdentity>
  <servicePriorityLevel>-1</servicePriorityLevel>
</scscfData>
<hasPcscfData>FALSE</hasPcscfData>
<pcscfData>
  No value defined
</pcscfData>
</impu>
<SharedInitialFilterCriteria>
  No value defined
</SharedInitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205003</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>5</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sessionCase>1</sessionCase>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>7</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <requestUri>/dummy</requestUri>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
    <TriggerGroup>
      <groupKey>9</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sipHeader>
          <header>Contact</header>
          <content>/.*/</content>
        </sipHeader>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>
  <includeRegisterRequest>FALSE</includeRegisterRequest>
  <includeRegisterResponse>FALSE</includeRegisterResponse>
</Extention>
</ApplicationServer>
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<InitialFilterCriteria>
  <priority>205005</priority>
  <TriggerPoint>
    <conditionCnf>TRUE</conditionCnf>
    <TriggerGroup>
      <groupKey>3</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>PUBLISH</method>

```



```
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  <TriggerGroup>
    <groupKey>5</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sessionCase>1</sessionCase>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>7</groupKey>
    <SPT>
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      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
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      <sipHeader>
        <header>Contact</header>
        <content>./.</content>
      </sipHeader>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
</TriggerPoint>
<ApplicationServer>
  <serverName><sip:port5090as.cscf205.lab;lr></serverName>
  <defaultHandling>1</defaultHandling>
  <Extention>
    <includeRegisterRequest>FALSE</includeRegisterRequest>
    <includeRegisterResponse>FALSE</includeRegisterResponse>
  </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
  <priority>205007</priority>
  <TriggerPoint>
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    <TriggerGroup>
      <groupKey>3</groupKey>
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        <method>PUBLISH</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>5</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
      <sessionCase>1</sessionCase>
      <Extention>
        <registrationType>NA</registrationType>
      </Extention>
    </SPT>
  </TriggerGroup>
  <TriggerGroup>
    <groupKey>7</groupKey>
    <SPT>
      <isConditionNegated>FALSE</isConditionNegated>
```




```

        <requestUri>/dummy/</requestUri>
        <Extention>
            <registrationType>NA</registrationType>
        </Extention>
    </SPT>
</TriggerGroup>
<TriggerGroup>
    <groupKey>9</groupKey>
    <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sipHeader>
            <header>Contact</header>
            <content>/.*</content>
        </sipHeader>
        <Extention>
            <registrationType>NA</registrationType>
        </Extention>
    </SPT>
</TriggerGroup>
</TriggerPoint>
<ApplicationServer>
    <serverName><sip:port5090as.cscf205.lab;lr></serverName>
    <defaultHandling>1</defaultHandling>
    <Extention>
        <includeRegisterRequest>FALSE</includeRegisterRequest>
        <includeRegisterResponse>FALSE</includeRegisterResponse>
    </Extention>
</ApplicationServer>
</InitialFilterCriteria>
<InitialFilterCriteria>
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        <TriggerGroup>
            <groupKey>3</groupKey>
            <SPT>
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                <method>PUBLISH</method>
                <Extention>
                    <registrationType>NA</registrationType>
                </Extention>
            </SPT>
        </TriggerGroup>
        <TriggerGroup>
            <groupKey>5</groupKey>
            <SPT>
                <isConditionNegated>FALSE</isConditionNegated>
                <sessionCase>1</sessionCase>
                <Extention>
                    <registrationType>NA</registrationType>
                </Extention>
            </SPT>
        </TriggerGroup>
        <TriggerGroup>
            <groupKey>7</groupKey>
            <SPT>
                <isConditionNegated>FALSE</isConditionNegated>
                <requestUri>/dummy/</requestUri>
                <Extention>
                    <registrationType>NA</registrationType>
                </Extention>
            </SPT>
        </TriggerGroup>
        <TriggerGroup>
            <groupKey>9</groupKey>
            <SPT>
                <isConditionNegated>FALSE</isConditionNegated>
                <sipHeader>
                    <header>Contact</header>
                    <content>/.*</content>
                </sipHeader>
                <Extention>
                    <registrationType>NA</registrationType>
                </Extention>
            </SPT>
        </TriggerGroup>
    </InitialFilterCriteria>

```



```

        </TriggerPoint>
        <ApplicationServer>
          <serverName><sip:port5090as.cscf205.lab;lr></serverName>
          <defaultHandling>1</defaultHandling>
          <Extention>
            <includeRegisterRequest>FALSE</includeRegisterRequest>
            <includeRegisterResponse>FALSE</includeRegisterResponse>
          </Extention>
        </ApplicationServer>
      </InitialFilterCriteria>
      <dialogueContainer>
        No value defined
      </dialogueContainer>
    </serviceProfile>
    <AsInstance>
      No value defined
    </AsInstance>
    <unregisteredUserProfile>
      No value defined
    </unregisteredUserProfile>
  </irs>
  <userDataSizeInBytes>20805</userDataSizeInBytes>
</userData></returnValue>
  </cscfUserDataPrintImpu>
  </CscfUserDataOutputClass>
  </CscfTroubleshootingGroupClass>
  </CSCF-Application>
</ManagedElement>
</data>
</rpc-reply>

```

Example 9 User Data Printout Based on an IMPU over NETCONF Interface

5.5 Printout Based on IMPI over NETCONF Interface

See Example 10 for user data printout based on an IMPI over NETCONF interface.

```

<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="100">
  <data>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>jambala</managedElementId>
      <CSCF-Application xmlns="urn:com:ericsson:ecim:CSCF">
        <applicationName>CSCF</applicationName>
        <CscfTroubleshootingGroupClass>
          <cscfTroubleshootingGroupId>0</cscfTroubleshootingGroupId>
          <CscfUserDataOutputClass>
            <cscfUserDataOutputId>default</cscfUserDataOutputId>
            <cscfUserDataPrintImpi>
              <returnValue><?xml version="1.0" encoding="UTF-8"?>
<userData>
  <date>2018/03/01</date>
  <time>08:34:03:095</time>
  <action>cscfUserDataPrintImpi sipphone20032000@cscf205.lab I</action>
  <irs>
    <key>sip:sipphone20032000@cscf205.lab</key>
    <identityType>0</identityType>
    <primaryCcf>aaa://ericsson.se:3868;transport=tcp</primaryCcf>
    <secondaryCcf>aaa://ericsson.se:3868;transport=tcp</secondaryCcf>
    <primaryEcf>aaa://ericsson.se:3868;transport=tcp</primaryEcf>
    <secondaryEcf>aaa://ericsson.se:3868;transport=tcp</secondaryEcf>
    <activeUsers>
      No value defined
    </activeUsers>
    <hssHostName>HSS.ericsson.se</hssHostName>
    <esrn>No value defined</esrn>
    <maxNumberContactsPerIrs>-1</maxNumberContactsPerIrs>
    <hssSupportRestoration>FALSE</hssSupportRestoration>
    <restorationStatus>0</restorationStatus>
  </impi>

```



```

    <key>sipphone20032000@cscf205.lab</key>
    <looseRouteIndication>0</looseRouteIndication>
    <markAsDeletedIndication>0</markAsDeletedIndication>
  </impi>
  <impi>
    <key>sipphone20032000@cscf205.lab</key>
    <looseRouteIndication>0</looseRouteIndication>
    <markAsDeletedIndication>0</markAsDeletedIndication>
  </impi>
  <serviceProfile>
    <key>sip:u000000000000.pub1@cscf205.lab</key>
    <smpId>0</smpId>
    <maxNoOfSessions>0</maxNoOfSessions>
    <phoneContext>No value defined</phoneContext>
    <subscriptionId>
      <subscriptionIdType>0</subscriptionIdType>
      <subscriptionIdData>No value defined</subscriptionIdData>
    </subscriptionId>
    <sifcFeatureConfigVersion>0</sifcFeatureConfigVersion>
    <sharedIfcSetIdentifiers>
      No value defined
    </sharedIfcSetIdentifiers>
    <explicitIfcSet>
      <classNo>1084248</classNo>
    </explicitIfcSet>
    <explicitIfcSetPriorities>
      <explicitIfcSetPriority>1</explicitIfcSetPriority>
    </explicitIfcSetPriorities>
    <explicitIfcSetServerNames>
      <explicitIfcServerName>&lt;lt;sip:as5071.cscf205.lab;lr&gt;
      </explicitIfcServerName>
    </explicitIfcSetServerNames>
    <explicitIfcSetServerNameReferences>
      <explicitIfcServerNameReference>0</explicitIfcServerNameReference>
    </explicitIfcSetServerNameReferences>
    <originatingCDIVServerNameIfcReferences>
      No value defined
    </originatingCDIVServerNameIfcReferences>
    <origUnregisteredServerNameIfcReferences>
      No value defined
    </origUnregisteredServerNameIfcReferences>
    <termUnregisteredServerNameIfcReferences>
      No value defined
    </termUnregisteredServerNameIfcReferences>
  </serviceProfile>
  <impu>
    <key>sip:sipphone20032000@cscf205.lab</key>
    <irsKey>sip:sipphone20032000@cscf205.lab</irsKey>
    <hasCommonData>FALSE</hasCommonData>
    <hasScscfData>TRUE</hasScscfData>
    <scscfData>
      <barringIndicator>FALSE</barringIndicator>
      <aliasIdentity>No value defined</aliasIdentity>
      <servicePriorityLevel>-1</servicePriorityLevel>
    </scscfData>
    <hasPcscfData>FALSE</hasPcscfData>
    <pcscfData>
      No value defined
    </pcscfData>
  </impu>
  <SharedInitialFilterCriteria>
    No value defined
  </SharedInitialFilterCriteria>
  <InitialFilterCriteria>
    <priority>1</priority>
    <TriggerPoint>
      <conditionCnf>TRUE</conditionCnf>
      <TriggerGroup>
        <groupKey>16</groupKey>
        <SPT>
          <isConditionNegated>FALSE</isConditionNegated>
          <sessionCase>0</sessionCase>
          <Extention>
            <registrationType>NA</registrationType>
          </Extention>
        </SPT>
      </TriggerGroup>
    </TriggerPoint>
  </InitialFilterCriteria>

```



```

    <TriggerGroup>
      <groupKey>20</groupKey>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <sipHeader>
          <header>From</header>
          <content>/sipphone20032000@cscf205.lab/</content>
        </sipHeader>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <method>INVITE</method>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
      <SPT>
        <isConditionNegated>FALSE</isConditionNegated>
        <requestUri>/^.*u.*</requestUri>
        <Extention>
          <registrationType>NA</registrationType>
        </Extention>
      </SPT>
    </TriggerGroup>
  </TriggerPoint>
  <ApplicationServer>
    <serverName>sip:as5071.cscf205.lab</serverName>
    <defaultHandling>0</defaultHandling>
    <Extention>
      <includeRegisterRequest>FALSE</includeRegisterRequest>
      <includeRegisterResponse>FALSE</includeRegisterResponse>
    </Extention>
  </ApplicationServer>
</InitialFilterCriteria>
</serviceProfile>
<unregisteredUserProfile>
  No value defined
</unregisteredUserProfile>
</irs>
<userDataSizeInBytes>8819</userDataSizeInBytes>
</userData></returnValue>
  </cscfUserDataPrintImpi>
  </CscfUserDataOutputClass>
  </CscfTroubleshootingGroupClass>
  </CSCF-Application>
</ManagedElement>
</data>
</rpc-reply>

```

Example 10 *User Data Printout Based on an IMPI over NETCONF Interface*