

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## MTAS Examples of Provisioning Requests for ST AS

### Contents

<b>1</b>	<b>General Information .....</b>	<b>2</b>
1.1	Revision history .....	2
1.2	Purpose .....	2
1.3	Scope .....	2
<b>2</b>	<b>General Points .....</b>	<b>4</b>
2.1	Request Structure .....	4
2.1.1	ST AS Document .....	4
2.1.2	User-Part .....	4
2.1.3	Operator-Part .....	4
2.2	Validation of instance documents .....	5
2.3	Relative path to the schema .....	5
<b>3</b>	<b>Provisioning Requests Over CAI3G .....</b>	<b>6</b>
3.1	Basic Examples of the CAI3G Protocol .....	6
3.2	SIP Trunking Control CAI3G Examples .....	6
3.2.1	ST Static Mode PBX Connect .....	6
3.2.2	ST Dynamic Mode PBX Connect .....	6
3.3	SIP Trunking Referral CAI3G Examples .....	7
3.3.1	ST Referral .....	7
3.4	ST User Service Data CAI3G Examples .....	7
3.4.1	ST Call Admission Control .....	7
3.4.2	ST Carrier Pre-Select Rn .....	7
3.4.3	ST Carrier Select Rn .....	7
3.4.4	ST Common Data .....	7
3.4.5	ST Communication Diversion .....	7
3.4.6	ST Incoming Communication Barring .....	8
3.4.7	ST Malicious Communication Identification .....	8
3.4.8	ST Operator Controlled Outgoing Barring Programs .....	9
3.4.9	ST Originating Identity Presentation .....	9
3.4.10	ST Originating Identity Presentation Restriction .....	9
3.4.11	ST Outgoing Communication Barring .....	9
3.4.12	ST Terminating Identity Presentation .....	10
3.4.13	ST Terminating Identity Presentation Restriction .....	10
<b>4</b>	<b>Provisioning Requests Over Sh .....</b>	<b>11</b>
4.1	SIP Trunking Control Sh Examples .....	11
4.1.1	ST Static Mode PBX Connect .....	11
4.1.2	ST Dynamic Mode PBX Connect .....	11
4.2	SIP Trunking Referral Sh Examples .....	11
4.2.1	ST Referral .....	11
4.3	User Service Data Sh Examples .....	12

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

4.3.1	ST Call Admission Control .....	12
4.3.2	ST Carrier Pre-Select Rn .....	12
4.3.3	ST Carrier Select Rn .....	12
4.3.4	ST Common Data .....	12
4.3.5	ST Communication Diversion.....	12
4.3.6	ST Incoming Communication Barring .....	13
4.3.7	ST Malicious Communication Identification .....	13
4.3.8	ST Operator Controlled Outgoing Barring Programs .....	13
4.3.9	ST Originating Identity Presentation .....	14
4.3.10	ST Originating Identity Presentation Restriction .....	14
4.3.11	ST Outgoing Communication Barring .....	14
4.3.12	ST Terminating Identity Presentation.....	14
4.3.13	ST Terminating Identity Presentation Restriction.....	14
<b>5</b>	<b>Embedded Files.....</b>	<b>16</b>
5.1	Directory Structure .....	16
5.2	Examples .....	16
<b>6</b>	<b>Glossary.....</b>	<b>17</b>
6.1	Terms .....	17
6.2	Abbreviations .....	19
<b>7</b>	<b>References.....</b>	<b>20</b>

## 1 General Information

### 1.1 Revision history

REVISION	RELEASE DATE	REVISED BY	REASON FOR REVISION
A	2014-11-26	ERATLIM	Initial version
B	2015-06-18	ERATLIM	Added CAI3G and Sh examples for Services: <ul style="list-style-type: none"><li>ST Terminating Identity Presentation</li><li>ST Terminating Identity Presentation Restriction</li></ul>

### 1.2 Purpose

This document provides a set of examples showing MTAS provisioning requests for ST AS. Each request provisions the transparent data in HSS.

All the examples are written in XML. Guidance is provided on how to validate the examples against an XML schema.

### 1.3 Scope

The examples provided in this document are restricted to requests

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

- Sent to MTAS over the CAI3G interface
- Received from MTAS over the Sh interface.

For common type definitions shared with other XML interfaces see ref [3].

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## 2 General Points

### 2.1 Request Structure

The structure of each request is consistent with an ST AS document.

The request over the Sh interface requires additional XML elements to support the overhead of the interface. These additional elements are not part of the ST AS structure.

#### 2.1.1 ST AS Document

An ST AS document comprises a user-part and an operator-part. They are brought together under an XML element called 'telephony-service-configuration'.

#### 2.1.2 User-Part

The user-part of an ST AS document always contains a `simservs` element. Under the `simservs` element, zero or more service elements may be defined. ST AS Communication Diversion (CDIV) is an example of a service element.

Within some service elements, there is a ruleset which is a container for rules.

##### 2.1.2.1 Rules

There are potentially an unlimited number of rules within a ruleset. A rule can contain 'conditions' and actions'.

##### 2.1.2.2 Conditions

A rule may contain zero or more conditions. Multiple conditions (where allowed) should be read as a logical 'AND' function.

##### 2.1.2.3 Actions

Every rule must contain at least one action. Multiple actions (where allowed) should be read as a logical 'AND' function.

#### 2.1.3 Operator-Part

The operator-part of the ST AS document contains operator service elements that are counterparts of the service elements in the user-data

Within the operator service elements there are two possible types of data.

- (a) Access rights
- (b) Operator defined rules.

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Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

Not all operator service elements are allowed to contain operator defined rules.

## 2.2 Validation of instance documents

Each XML example in this document is an XML instance document. In order to confirm that an XML instance document is valid, it is necessary to

- (a) Provide a schema that it can be validated against.
- (b) Have an XML validation tool.

Alternatively, the files may be opened into a browser which gives the option of reading from or writing to the XML document. A browser may check that the document is well-formed but it will not be able to validate the document against an XML schema.

Note: A 'well-formed' document will have a self-consistent syntax. Well-formed is a weaker check than validation

## 2.3 Relative path to the schema

The address of the schema that is referenced in each XML instance document is defined as a relative path-name. This means that the reader who wishes to validate the schema must comply with the directory structure instructions that are given in the relevant sections of this document.

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Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

### 3 Provisioning Requests Over CAI3G

All requests described in this section are valid for the CAI3G interface and hence can access both the user-part and the operator-part of the ST AS document.

All requests on this interface are placed in the body of a SOAP envelope message. The SOAP header is populated in line with the CAI3G specification ref [1].

#### 3.1 Basic Examples of the CAI3G Protocol

Examples concentrating on the basic CAI3G protocol rather than individual ST AS service configuration. CAI3G basic examples are described in MTAS example provisioning document ref [4].

#### 3.2 SIP Trunking Control CAI3G Examples

This section contains examples of provisioning the SIP Trunking Control.

##### 3.2.1 ST Static Mode PBX Connect

###### 3.2.1.1 CAI3G-ST-Static-All-Options-Create

Creation of the SIP Trunking Control in static mode with all options.

The equivalent Sh request is given in 4.1.1.1 .

###### 3.2.1.2 CAI3G-ST-Static-Create

Creation of the SIP Trunking Control in static mode with all mandatory options.

The equivalent Sh request is given in 4.1.1.2 .

##### 3.2.2 ST Dynamic Mode PBX Connect

###### 3.2.2.1 CAI3G-ST-Dynamic-All-Options-Create

Creation of the SIP Trunking Control in dynamic mode with all options.

The equivalent Sh request is given in 4.1.2.1.

###### 3.2.2.2 CAI3G-ST- Dynamic -Create

Creation of the SIP Trunking Control in dynamic mode with all mandatory options.

The equivalent Sh request is given in 4.1.2.2 .

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

### **3.3 SIP Trunking Referral CAI3G Examples**

#### **3.3.1 ST Referral**

##### **3.3.1.1 CAI3G-StReferral-Create**

Creation of the SIP Trunking Referral.

The equivalent Sh request is given in 4.2.1.1 .

### **3.4 ST User Service Data CAI3G Examples**

This section contains examples of provisioning each of the ST user services.

#### **3.4.1 ST Call Admission Control**

##### **3.4.1.1 CAI3G-ST-Static-CAC-1-Create**

Creation of the ST Call Admission Control service.

The equivalent Sh request is given in 4.3.1.1.

#### **3.4.2 ST Carrier Pre-Select Rn**

##### **3.4.2.1 CAI3G-ST-Static-CPSRn-1-Create**

ST Carrier Pre Select Rn service.

The equivalent Sh request is given in 4.3.2.1.

#### **3.4.3 ST Carrier Select Rn**

##### **3.4.3.1 CAI3G-ST-Static -CSRn-1-Create**

ST Carrier Select Rn service.

The equivalent Sh request is given in 4.3.3.1.

#### **3.4.4 ST Common Data**

##### **3.4.4.1 CAI3G-ST-Static-COMD-1-Create**

ST Common Data that is shared by services.

The equivalent Sh request is given in 4.3.4.1.

#### **3.4.5 ST Communication Diversion**

##### **3.4.5.1 CAI3G-ST-Static-CDIV-1-All-Features-Provisioned-Create**

ST Communication Diversion Service - all features (fine-grain options) provisioned but no rules yet.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

The equivalent Sh request is given in 4.3.5.1.

#### 3.4.5.2 CAI3G-ST-Static-CDIV-2-Plain-Rules-Create

ST Communication Diversion Service with plain rules usingcfnr, cfu, and dndcf. A plain rule is one in which there is no condition except on the call state (not-reachable, not-registered, unconditional) and where this is the first rule with that call state condition. If the call state condition is combined with another condition e.g. media then it is a complex rule. The optional <st:forward-to> actions e.g. <st:notify-caller> can be included within plain rules.

The equivalent Sh request is given in 4.3.5.2.

#### 3.4.5.3 CAI3G-ST-Static-CDIV-3-Complex-Rules-Create

ST Communication Diversion Service - examples of complex rules.

The equivalent Sh request is given in 4.3.5.3.

#### 3.4.5.4 CAI3G-ST-Static-CDIV-Error-1-Service-Present-When-Not-Provisioned

ST Communication Diversion Service - example of an invalid configuration with the user element for communication diversion present when it is not provisioned in the operator part

#### 3.4.5.5 CAI3G-ST-Static-CDIV-Error-2-Condition-Present-When-Not-Provisioned

ST Communication Diversion Service - example of an invalid configuration with the user condition for communication diversion present when it is not provisioned in the operator part

### 3.4.6 ST Incoming Communication Barring

#### 3.4.6.1 CAI3G-ST-Static-ICB-1-All-Features-Provisioned-Create

ST Incoming Communication Barring - all features (fine-grain options) provisioned but no rules yet.

The equivalent Sh request is given in 4.3.6.1.

#### 3.4.6.2 CAI3G-ST-Static-ICB-2-User-Rules-Create

ST Incoming Communication Barring - user rules with all condition types and with play-announcement and play-segmented-announcement actions.

The equivalent Sh request is given in 4.3.6.2.

### 3.4.7 ST Malicious Communication Identification

#### 3.4.7.1 CAI3G-ST-Static-MCID-Create

ST Malicious Communication Identification - with MCID extension.



Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

The equivalent Sh request is given in 4.3.5.1.

### **3.4.8 ST Operator Controlled Outgoing Barring Programs**

#### **3.4.8.1 CAI3G-ST-Static-OCOBP-1-Create**

ST Operator Controlled Outgoing Barring service.

The equivalent Sh request is given in 4.3.8.1.

#### **3.4.8.2 CAI3G-ST-Static-OCOBP-2-dial-plan-Create**

Dial plan example using permitted program.

The equivalent Sh request is given in 4.3.8.2.

### **3.4.9 ST Originating Identity Presentation**

#### **3.4.9.1 CAI3G-ST-Static-OIP-1-Create**

ST Originating Identity Presentation Service.

The equivalent Sh request is given in 4.3.9.1.

### **3.4.10 ST Originating Identity Presentation Restriction**

#### **3.4.10.1 CAI3G-ST-Static-OIR-1-permanent-Create**

ST Originating Identity Presentation Restriction Service.

The equivalent Sh request is given in 4.3.10.1 .

#### **3.4.10.2 CAI3G-ST-Static-OIR-2-temporary-presentation-restricted-Create**

ST Originating Identity Presentation Restriction Service in temporary-presentation-restricted mode.

The equivalent Sh request is given in 4.3.10.2.

### **3.4.11 ST Outgoing Communication Barring**

#### **3.4.11.1 CAI3G-ST-Static-OCB-1-All-Features-Provisioned-Create**

ST Outgoing Communication Barring - all features (fine-grain options) provisioned but no rules yet.

The equivalent Sh request is given in 4.3.11.1.

#### **3.4.11.2 CAI3G-ST-Static-OCB-2-User-Rules-Create**

ST Outgoing Communication Barring - user rules with all condition types and with play-announcement and play-segmented-announcement actions.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

The equivalent Sh request is given in 4.3.11.2.

### **3.4.12 ST Terminating Identity Presentation**

#### **3.4.12.1 CAI3G-ST-Static-TIP-1-Create**

ST Terminating Identity Presentation Service.

The equivalent Sh request is given in 4.3.12.1.

### **3.4.13 ST Terminating Identity Presentation Restriction**

#### **3.4.13.1 CAI3G-ST-Static-TIR-1-permanent-Create**

ST Terminating Identity Presentation Restriction Service.

The equivalent Sh request is given in 4.3.13.1.

#### **3.4.13.2 CAI3G-ST-Static-TIR-2-temporary-Create**

ST Terminating Identity Presentation Restriction Service in temporary-presentation-restricted mode.

The equivalent Sh request is given in 4.3.13.2.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## 4 Provisioning Requests Over Sh

### 4.1 SIP Trunking Control Sh Examples

This section contains examples of provisioning the SIP Trunking Control on the Sh interface.

#### 4.1.1 ST Static Mode PBX Connect

##### 4.1.1.1 Sh-ST-Static-All-Options

Creation of the SIP Trunking Control in static mode with all options.

This is equivalent to the CAI3G request in 3.2.1.1 .

##### 4.1.1.2 Sh-ST-Static

Creation of the SIP Trunking Control in static mode with all mandatory options.

This is equivalent to the CAI3G request in 3.2.1.2 .

#### 4.1.2 ST Dynamic Mode PBX Connect

##### 4.1.2.1 Sh-ST-Dynamic-All-Options

Creation of the SIP Trunking Control in dynamic mode with all options.

This is equivalent to the CAI3G request in 3.2.2.1.

##### 4.1.2.2 Sh-ST- Dynamic

Creation of the SIP Trunking Control in dynamic mode with all mandatory options.

This is equivalent to the CAI3G request in 3.2.2.2 .

## 4.2 SIP Trunking Referral Sh Examples

### 4.2.1 ST Referral

#### 4.2.1.1 Sh-StReferral

Creation of the SIP Trunking Referral.

This is equivalent to the CAI3G request in 3.3.1.1 .

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

### 4.3 User Service Data Sh Examples

This section contains examples of each of the ST AS user services on the Sh interface.

#### 4.3.1 ST Call Admission Control

##### 4.3.1.1 Sh-ST-Static-CAC-1

ST Call Admission Control Service

This is equivalent to the CAI3G request in 3.4.1.1.

#### 4.3.2 ST Carrier Pre-Select Rn

##### 4.3.2.1 Sh-ST-Static-CPSRn-1

ST Carrier Pre-Select Rn Service.

The equivalent CAI3G request is given in 3.4.2.1.

#### 4.3.3 ST Carrier Select Rn

##### 4.3.3.1 Sh-ST-Static-CSRn-1

ST Carrier Select Rn service.

The equivalent CAI3G request is given in 3.4.3.1.

#### 4.3.4 ST Common Data

##### 4.3.4.1 Sh-ST-Static-COMD-1

ST Common Data shared across services

This is equivalent to the CAI3G request in 3.4.4.1.

#### 4.3.5 ST Communication Diversion

##### 4.3.5.1 Sh-ST-Static-CDIV-1-All-Features-Provisioned

Communication Diversion Service - all features (fine-grain options) provisioned but no rules yet.

This is equivalent to the CAI3G request in 3.4.5.1.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

#### 4.3.5.2 Sh-ST-Static-CDIV-2-Plain-Rules

Communication Diversion Service with plain rules using cfmr, cfu, and dndcf. A plain rule is one in which there is no condition except on the call state (not-reachable, not-registered, unconditional) and where this is the first rule with that call state condition. If the call state condition is combined with another condition e.g. media then it is a complex rule. The optional <st:forward-to> actions e.g. <st:notify-caller> can be included within plain rules. This is equivalent to the CAI3G request in 3.4.5.2.

#### 4.3.5.3 Sh-ST-Static-CDIV 3-Complex-Rules

Communication Diversion Service - examples of complex rules.

This is equivalent to the CAI3G request in 3.4.5.3.

### 4.3.6 ST Incoming Communication Barring

#### 4.3.6.1 Sh-ST-Static-ICB-1-All-Features-Provisioned

ST Incoming Communication Barring - all features (fine-grain options) provisioned but no rules yet.

This is equivalent to the CAI3G request in 3.4.6.1.

#### 4.3.6.2 Sh-ST-Static-ICB-2-User-Rules

ST Incoming Communication Barring - user rules with all condition types and with play-announcement and play-segmented-announcement actions.

This is equivalent to the CAI3G request in 3.4.6.2.

### 4.3.7 ST Malicious Communication Identification

#### 4.3.7.1 Sh-ST-Static-MCID-1

Malicious Communication Identification - with MCID extension.

This is equivalent to the CAI3G request in 3.4.7.1.

### 4.3.8 ST Operator Controlled Outgoing Barring Programs

#### 4.3.8.1 Sh-ST-Static-OCOBP-1

ST Operator Controlled Outgoing Barring Programs.

This is equivalent to the CAI3G request in 3.4.8.1.

#### 4.3.8.2 Sh-ST-Static-OCOBP-2-dial-plan

Dial plan example using permitted program.

This is equivalent to the CAI3G request in 3.4.8.2.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

#### **4.3.9 ST Originating Identity Presentation**

##### **4.3.9.1 Sh-ST-Static-OIP-1**

ST Originating Identity Presentation Service.

This is equivalent to the CAI3G request in 3.4.9.1.

#### **4.3.10 ST Originating Identity Presentation Restriction**

##### **4.3.10.1 Sh-ST-Static-OIR-1-permanent**

ST Originating Identity Presentation Restriction Service in permanent mode.

This is equivalent to the CAI3G request in 3.4.10.1 .

##### **4.3.10.2 Sh-ST-Static-OIR-2-temporary**

ST Originating Identity Presentation Restriction Service in temporary-presentation-restricted mode.

This is equivalent to the CAI3G request in 3.4.10.2.

#### **4.3.11 ST Outgoing Communication Barring**

##### **4.3.11.1 Sh-ST-Static-OCB-1-All-Features-Provisioned**

ST Outgoing Communication Barring - all features (fine-grain options) provisioned but no rules yet.

This is equivalent to the CAI3G request in 3.4.11.1.

##### **4.3.11.2 Sh-ST-Static-OCB-2-User-Rules**

ST Outgoing Communication Barring - user rules with all condition types and with play-announcement and play-segmented-announcement actions.

This is equivalent to the CAI3G request in 3.4.11.2.

#### **4.3.12 ST Terminating Identity Presentation**

##### **4.3.12.1 Sh-ST-Static-TIP-1**

ST Terminating Identity Presentation Service.

This is equivalent to the CAI3G request in 3.4.12.1.

#### **4.3.13 ST Terminating Identity Presentation Restriction**

##### **4.3.13.1 Sh-ST-Static-TIR-1-permanent**

ST Terminating Identity Presentation Restriction Service in permanent mode.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

This is equivalent to the CAI3G request in 3.4.13.1.

#### 4.3.13.2 Sh-ST-Static-TIR-2-temporary

ST Terminating Identity Presentation Restriction Service in temporary-presentation-restricted mode.

This is equivalent to the CAI3G request in 3.4.13.2.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## 5 Embedded Files

### 5.1 Directory Structure

The examples contain relative pathnames to the related schema files to support validation. If the zip file available in ref [5] is used as it is provided then the directory structure and the relative pathnames are maintained.

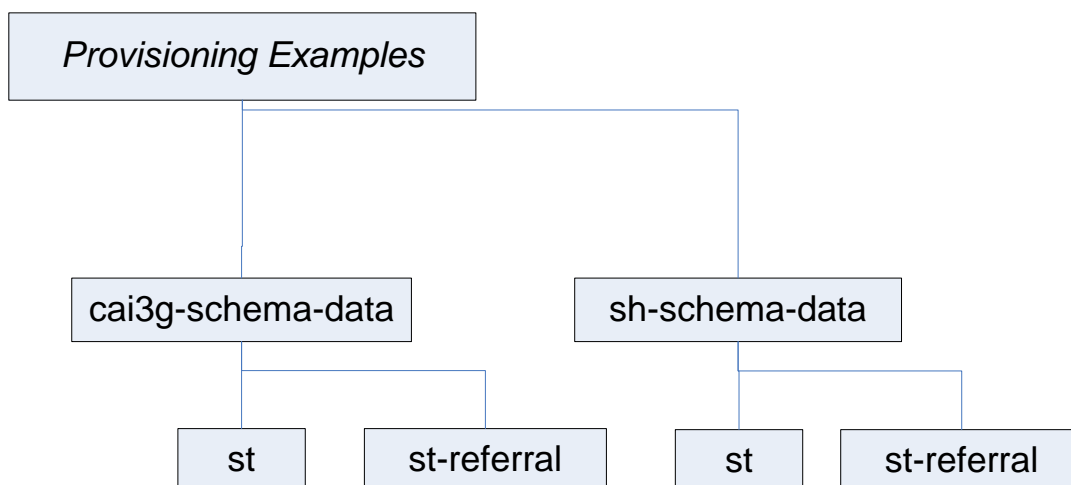


Figure 1 Directory structure for schemas and examples

The Sh schemas are available in ref [2]. The CAI3G schemas are available in ref [1]. Common types are available in ref [3].

### 5.2 Examples

The examples are available in ref [5].



Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## 6 Glossary

### 6.1 Terms

<u>Term</u>	<u>Explanation</u>
Application Check	In addition to schema validation, MTAS performs application checks on each request which check the semantics of the request.
ST AS Document	Every user who subscribes to ST AS services is allocated an ST AS document where details of his services are stored.
nillable	An XML element with the attribute 'nillable' in the schema definition allows that XML element in an instance document to be removed by assigning 'nil=true'.
Number normalization	Conversion of a telephone number into an international format.
Operator-Part	The part of the ST AS document that only the operator can read from and write to i.e. the user has no access to the operator-part  (The operator can access the user-part).
Sh Interface	Interface into HSS within an IMS, as defined by 3GPP
Simservs	Simservs is an XML element in the ST AS document that contains the Service Elements in the user-data.  Outside this document, the term 'simservs' is also used to refer to a <ul style="list-style-type: none"><li>• schema file</li><li>• namespace</li></ul>
User-Part	The part of the ST AS document that the user can read from and write to.

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

<u>Term</u>	<u>Explanation</u>
sub-Managed Object	A CAI3G classification of an XML element where <ul style="list-style-type: none"><li>• The element can occur more than once</li><li>• The contents of the elements is further elements</li></ul>

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## 6.2 Abbreviations

3GPP	3 <sup>rd</sup> Generation Partnership Project
CAI3G	Customer Administration Interface 3 <sup>rd</sup> Generation
CDIV	Communication Diversion
CFNRc	Communication Forwarding Not Reachable
ICB	Incoming Communication Barring
IMS	IP Multi-Media System
IP	Internet Protocol
OCB	Outgoing Communication Barring
OIP	Originating Identity Presentation
OIR	Originating Identity Restriction
SE	Service Element
ST	SIP Trunking
SOAP	Simple Object Access Protocol
TIP	Terminating Identity Presentation
URI	Unique Resource Identifier
XDMS	XML Document Management Server
XML	Extensible Markup Language

Prepared (also subject responsible if other) ERATLIM Tony Lindström		No. 6/190 01-AVA 901 18 Uen		
Approved BUCIICEAC [Michal Kubik]	Checked	Date 2015-06-18	Rev B	Reference

## 7 References

- [1] MTAS CAI3G Interface, 22/155 19-AVA 901 18
- [2] MTAS Service Data Schemas, 6/190 09-AVA 901 18
- [3] MTAS Common Types Schemas, 4/190 09-AVA 901 18
- [4] MTAS Examples of Provisioning Requests, 4/190 01-AVA 901 18
- [5] MTAS Examples of XML Provisioning Requests, 5/190 09-AVA 901 18