

# MTAS Country Code Mapping Management Guide

MTAS

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USER GUIDE

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# 1 Introduction

This document describes how to configure the Country Code Mapping (CCM) service in the MTAS.

## 1.1 Prerequisites

It is assumed that the user of this document is familiar with the O&M area, in general.

### 1.1.1 Licenses

No license is required for the CCM service.

### 1.1.2 Documents

Before starting any procedure in this document, ensure that the following documents are available:

- *Ericsson Command-Line Interface User Guide*
- *Managed Object Model (MOM)*

### 1.1.3 Conditions

The following condition must apply:

An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.





## 2 Overview

The CCM service provides function for comparing a pair of Country Calling Code (CCC) or Mobile Country Code (MCC), or both, in free combination to decide if they belong to same country.

The CCM service is used to, for example, evaluate the barring conditions as roaming, international, and international-exHC, for the mobile subscriber.

### 2.1 Mapping a CCC to MCC

A CCC always needs to map the corresponding MCC based on the Table 1 before comparison, see Section 3.2 Default Values for MtasCcmCcc on page 6.

The `MtasCcmCcc` table contains all the CCCs for the whole world. As the different number of the left-most digits is used for different CCC zones, the table is configured differently for different CCC zones.

**Zone 1** Either the left-most digit or the four left most digits of the CCC can be configured for this zone.

- +1 is for the USA
- +1xxx are for other countries

**Zone 2, 3, 4, 5, 6, 8, and 9**

Either the two leftmost digits or the three leftmost digits of the CCC can be configured for these zones.

**Zone 7** Either the leftmost digit or the two leftmost digits of the CCC can be configured for this zone.

- +7 is for Russia
- +7x are for other countries

**Note:** The longest match is applied when using the table.

### 2.2 Unifying of MCC

As several countries use multiple MCCs, an MCC needs to unify based on the `MtasCcmMcc` table before comparison. The USA has, for example, the MCCs 310, 311, 312, 313, 314, 315, and 316. They are configured in the table and unified to 310, see Table 1.

The table only contains the MCCs for countries that use multiple MCCs. Other MCCs do not need to configure in the table. The MCC for Sweden is,



for example, 240, but as Sweden does not use multiple MCCs, the MCC is not in the table.

## 2.3 Subfunctions

The subfunctions included in the CCM service are described in this section.

### 2.3.1 Country Codes Comparison

The subfunction compares two Country Codes in form of either CCC or MCC to decide if they belong to same country.

### 2.3.2 Operation and Maintenance

The subfunction includes configuration management needed for the CCM service.

## 2.4 Interaction with Other Services

CCM does not have any interaction with other services.



## 3 CCM Configuration

The CCM service is controlled by the *MtasCcm* MO. An overview of the CCM MO structure is shown in Figure 1.

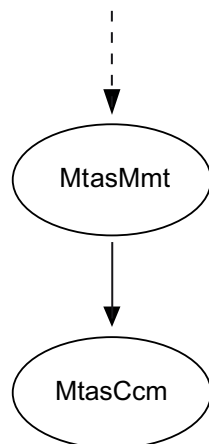


Figure 1 CCM MO Structure

For configurable MOs and attributes, related to the CCM service, refer to *Managed Object Model (MOM)*.

### 3.1 Default Values for MtasCcmMcc

This section lists the default values for the *MtasCcmMcc*, see Table 1.

Table 1 Default Values for *MtasCcmMcc* Table

Index	MtasCcmMcc	mtasCcmMccUnifiedMcc
1	461	460
2	405	404
3	406	404
4	441	440
5	430	424
6	431	424
7	235	234
8	311	310
9	312	310
10	313	310
11	314	310



Index	MtasCcmMcc	mtasCcmMccUnifiedMcc
12	315	310
13	316	310

## 3.2 Default Values for MtasCcmCcc

This section lists the default values for the `MtasCcmCcc`, see Table 2 - Table 9.

### 3.2.1 Zone One Values

The values for zone one, are shown in Table 2.

*Table 2 Zone One Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+1	310
2	+1204	302
3	+1226	302
4	+1236	302
5	+1242	364
6	+1246	342
7	+1249	302
8	+1250	302
9	+1264	365
10	+1268	344
11	+1284	348
12	+1289	302
13	+1306	302
14	+1340	332
15	+1343	302
16	+1345	346
17	+1365	302
18	+1403	302
19	+1416	302
20	+1418	302
21	+1431	302
22	+1438	302



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
23	+1441	350
24	+1450	302
25	+1473	352
26	+1506	302
27	+1514	302
28	+1519	302
29	+1579	302
30	+1581	302
31	+1587	302
32	+1604	302
33	+1613	302
34	+1647	302
35	+1649	376
36	+1664	354
37	+1684	544
38	+1705	302
39	+1709	302
40	+1758	358
41	+1767	366
42	+1778	302
43	+1780	302
44	+1784	360
45	+1787	330
46	+1807	302
47	+1809	370
48	+1819	302
49	+1825	302
50	+1829	370
51	+1849	370
52	+1867	302
53	+1868	374
54	+1869	356
55	+1873	302



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
56	+1876	338
57	+1902	302
58	+1905	302
59	+1939	330

### 3.2.2 Zone Two Values

The values for zone two, are shown in Table 3.

*Table 3 Zone Two Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+20	602
2	+212	604
3	+213	603
4	+216	605
5	+218	606
6	+220	607
7	+221	608
8	+222	609
9	+223	610
10	+224	611
11	+225	612
12	+226	613
13	+227	614
14	+228	615
15	+229	616
16	+230	617
17	+231	618
18	+232	619
19	+233	620
20	+234	621
21	+235	622
22	+236	623
23	+237	624



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
24	+238	625
25	+239	626
26	+240	627
27	+241	628
28	+242	629
29	+243	630
30	+244	631
31	+245	632
32	+248	633
33	+249	634
34	+250	635
35	+251	636
36	+252	637
37	+253	638
38	+254	639
39	+255	640
40	+256	641
41	+257	642
42	+258	643
43	+260	645
44	+261	646
45	+263	648
46	+264	649
47	+265	650
48	+266	651
49	+267	652
50	+268	653
51	+269	654
52	+27	655
53	+291	657
54	+297	363
55	+298	288
56	+299	290



### 3.2.3 Zone Three and Four Values

The values for zone three and four, are shown in Table 4.

*Table 4 Zone Three and Four Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+30	202
2	+31	204
3	+32	206
4	+33	208
5	+34	214
6	+350	266
7	+351	268
8	+352	270
9	+353	272
10	+354	274
11	+355	276
12	+356	278
13	+357	280
14	+358	244
15	+359	284
16	+36	216
17	+370	246
18	+371	247
19	+372	248
20	+373	259
21	+374	283
22	+375	257
23	+376	213
24	+377	212
25	+378	292
26	+379	225
27	+380	255
28	+381	220
29	+382	297
30	+385	219



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
31	+386	293
32	+387	218
33	+389	294
34	+39	222
35	+40	226
36	+41	228
37	+420	230
38	+421	231
39	+423	295
40	+43	232
41	+44	235
42	+45	238
43	+46	240
44	+47	242
45	+48	260
46	+49	262

### 3.2.4 Zone Five Values

The values for zone five, are shown in Table 5.

*Table 5 Zone Five Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+500	750
2	+501	702
3	+502	704
4	+503	706
5	+504	708
6	+505	710
7	+506	712
8	+507	714
9	+508	308
10	+509	372
11	+51	716



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
12	+52	334
13	+53	368
14	+54	722
15	+55	724
16	+56	730
17	+57	732
18	+58	734
19	+590	340
20	+591	736
21	+592	738
22	+593	740
23	+594	742
24	+595	744
25	+596	340
26	+597	746
27	+598	748
28	+599	362

### 3.2.5 Zone Six Values

The values for zone six, are shown in Table 6.

*Table 6 Zone Six Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+60	502
2	+61	505
3	+62	510
4	+63	515
5	+64	530
6	+65	525
7	+66	520
8	+670	514
9	+672	505
10	+673	528





Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
11	+674	536
12	+675	537
13	+676	539
14	+677	540
15	+678	541
16	+679	542
17	+680	552
18	+681	543
19	+682	548
20	+685	549
21	+686	545
22	+687	546
23	+689	547
24	+691	550
25	+692	551

### 3.2.6 Zone Seven Values

The values for zone seven, are shown in Table 7.

*Table 7 Zone Seven Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+7	250
2	+76	401
3	+77	401

### 3.2.7 Zone Eight Values

The values for zone eight, are shown in Table 8.

*Table 8 Zone Eight Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+81	440
2	+82	450



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
3	+84	452
4	+850	467
5	+852	454
6	+853	455
7	+855	456
8	+856	457
9	+86	460
10	+880	470
11	+886	466

### 3.2.8 Zone Nine Values

The values of zone nine, are shown in Table 9.

*Table 9 Zone Nine Values*

Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
1	+90	286
2	+91	404
3	+92	410
4	+93	412
5	+94	413
6	+95	414
7	+960	472
8	+961	415
9	+962	416
10	+963	417
11	+964	418
12	+965	419
13	+966	420
14	+967	421
15	+968	422
16	+971	424
17	+972	425
18	+973	426



Index	MtasCcmCcc	mtasCcmCccSpecifiedMcc
19	+974	427
20	+975	402
21	+976	428
22	+977	429
23	+98	432
24	+992	436
25	+993	438
26	+994	400
27	+995	282
28	+996	437
29	+998	434





## 4 Performance Management

Not applicable.





## 5 Fault Management

The CCM service has no alarms.