

GE2: Group 22 analysis of group 21 tcs

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Analysis

In this report we intend to analyse group's 21's test cases for function 1. It has to be mentioned that they may have changed their test cases to better suit the code since they sent it to us as we did whilst we progressed and run pyb in our code, but this report will be based on the test cases received.

First of all we have to look at what EC's and BV's they've generated which they have added to the table in their excel.

In this table one of the things that stand out the most is the lack of columns:

FROM IBAN	DATA TYPE	ECV1 - STRING (ES1021002152980200638904)	ECNV1 - NOT A STRING
	ALGORITHM	ECV2 - IBAN VALID (ES1021002152980200638904)	ECNV2 - IBAN NOT VALID (ES1021002152980200638903)
	LENGTH	ECV3 - 24 (ES1021002152980200638904)	ECNV3 - LENGTH < 24 (ES10210021529802006)
			ECNV4 - LENGTH > 24 (ES102100215298020063890400000)
		BVV1 - 24 (ES1021002152980200638904)	BNV1 - 23 (ES102100215298020063890)
			BNV2 - 25 (ES1021002152980200638900)
ES	ECV4 - STARTS WITH ES (ES1021002152980200638904)	ECNV5 - NOT START WITH ES (RR1021002152980200638904)	

Image 1: snippet of the table received showcasing lack of column titles.

In this table we see they define what input they analyse (they could have put it in each row since their current way is a bit confusing), their analysis case (data type, length...) and their valid/non valid classes (ECVn/ECNVn) and their valid/non valid boundary values (BVVn/BNVn).

Their selection of equivalent classes seems on point and their Boundary values are well chosen.

From this we can move on to the test cases table:

ID	TECHNOLOGY	FIELD	VALID/INVALID	ID TEST	DESCRIPTION	FROM_IBAN	TO_IBAN	CONCEPT	TYPE	DATE	AMOUNT	RESULT
1	INPUT	CE	VALID	TC1	TODO VALIDO	ES1021002152980200638904	ES1021002152980200638904	Pago del alquiler mensual de enero	ORDINARY	01/01/2025	10.00	"Código MDE válido"
2	INPUT	CE	VALID	TC2	TODO VALIDO	ES1021002152980200638904	ES1021002152980200638904	Pago mensual	ORDINARY	01/01/2025	10.01	"Código MDE válido"
3	INPUT	CE	VALID	TC3	TODO VALIDO	ES1021002152980200638904	ES1021002152980200638904	Transferencia	ORDINARY	30/01/2025	999.99	"Código MDE válido"
4	INPUT	CE	VALID	TC4	TODO VALIDO	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
5	INPUT	CE	INVALID	TC5	FROM IBAN NO ES UN STRING	999.23	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
6	INPUT	CE	INVALID	TC6	FROM IBAN NO ES UN IBAN	ES1021002152980200638905	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
7	INPUT	CE	INVALID	TC7	FROM IBAN MDE 23	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
8	INPUT	CE	INVALID	TC8	FROM IBAN MDE 25	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
9	INPUT	CE	INVALID	TC9	FROM IBAN NO COMIENZA POR ES	RR1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
10	INPUT	CE	INVALID	TC10	TO IBAN NO ES UN STRING	ES1021002152980200638904	999.23	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
11	INPUT	CE	INVALID	TC11	TO IBAN NO ES UN IBAN	ES1021002152980200638905	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
12	INPUT	CE	INVALID	TC12	TO IBAN MDE 23	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
13	INPUT	CE	INVALID	TC13	TO IBAN MDE 25	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
14	INPUT	CE	INVALID	TC14	TO IBAN NO COMIENZA POR ES	ES1021002152980200638904	RR1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.00	"Código MDE válido"
15	INPUT	CE	INVALID	TC15	LENGTH = 0	ES1021002152980200638904	ES1021002152980200638904	Pag	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
16	INPUT	CE	INVALID	TC16	LENGTH > 30	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos municipal	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
17	INPUT	CE	INVALID	TC17	Does not contain two words with letters	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
18	INPUT	CE	INVALID	TC18	Type is "ORDINARY" (URGENT/IMMEDIATE)	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
19	INPUT	CE	INVALID	TC19	Invalid format	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
20	INPUT	CE	INVALID	TC20	Date before current date	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
21	INPUT	CE	INVALID	TC21	Day < 01	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	00/01/2025	10.0000	"Código MDE válido"
22	INPUT	CE	INVALID	TC22	Day > 01	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
23	INPUT	CE	INVALID	TC23	Month = 01	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
24	INPUT	CE	INVALID	TC24	Month = 12	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"
25	INPUT	CE	INVALID	TC25	Year < 2025	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2024	10.0000	"Código MDE válido"
26	INPUT	CE	INVALID	TC26	Year > 2050	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2051	10.0000	"Código MDE válido"
27	INPUT	CE	INVALID	TC27	Amount < 10.00	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	9.99	"Código MDE válido"
28	INPUT	CE	INVALID	TC28	Amount > 10.000.00	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0001	"Código MDE válido"
29	INPUT	CE	INVALID	TC29	More than two decimal places	ES1021002152980200638904	ES1021002152980200638904	Pago mensual de servicios públicos	ORDINARY	31/01/2025	10.0000	"Código MDE válido"

Image 2: Screenshot of the table of test cases.

In this case the presentation is far clearer and the way they indicate with colours valid and invalid values is very easy to see. The test cases content themselves, they are nicely done, and seem to cover all boundary values and equivalence classes (last column couldn't appear on the screenshot).

All in all group 21 has built solid test cases albeit the first table could use some improvement on the presentation to make it clearer to see.