Present State	*Request*	*Confirm*	*Pass_data*	*Next State*	*en_even*	*en_odd*	*dout*
S0 == 000	0	0	$b_3b_2b_1b_0$	S0	0	0	XXXX
	0	1	$b_3b_2b_1b_0$	S0	0	0	XXXX
	1	0	$b_3b_2b_1b_0$	S1	0	0	XXXX
	1	1	$b_3b_2b_1b_0$	S1	0	0	XXXX
S1 == 001	0	0	$b_3b_2b_1b_0$	S0	0	0	XXXX
	0	1	$b_3b_2b_1b_0$	S0	0	0	XXXX
	1	0	$b_3b_2b_1b_0$	S1	0	0	XXXX
	1	1	$b_3b_2b_1b_0$	S2 or S3(base on y)	0	0	XXXX
S2 == 101	0	0	$b_3b_2b_1b_0$	S0	0	0	XXXX
	0	1	$b_3b_2b_1b_0$	S0	0	0	XXXX
	1	0	$b_3b_2b_1b_0$	S2	0	0	XXXX
	1	1	$b_3b_2b_1b_0$	S4	0	0	XXXX
S3 == 111	0	0	$b_3b_2b_1b_0$	S0	0	0	XXXX
	0	1	$b_3b_2b_1b_0$	S0	0	0	XXXX
	1	0	$b_3b_2b_1b_0$	S3	0	0	XXXX
	1	1	$b_3b_2b_1b_0$	S3	0	0	XXXX
S4 == 110	0	0	$b_3b_2b_1b_0$	S0	$\sim b_0$	b_0	$b_3b_2b_1b_0$
	0	1	$b_3b_2b_1b_0$	S0	$\sim b_0$	b_0	$b_3b_2b_1b_0$
	1	0	$b_3b_2b_1b_0$	S4	$\sim b_0$	b_0	$b_3b_2b_1b_0$
	1	1	$b_3b_2b_1b_0$	S0	$\sim b_0$	b_0	$b_3b_2b_1b_0$

CR \ AB	00	01	11	10
00	0	X	0	X
01	0	X	1	X
11	0	X	1	1
10	0	X	0	0

Confirm = 0

CR \ AB	00	01	11	10
00	0	X	0	X
01	0	X	0	X
11	1	X	1	1
10	0	X	0	0

Confirm = 1

A+ = A.C.Request + A.Request.Confirm’ + C.Request.Confirm

CR \ AB	00	01	11	10
00	0	X	0	X
01	1	X	0	X
11	1	X	1	1
10	0	X	0	0

Confirm = 0

C+ = A’. Request + B.C.Request + C.Request.Confirm’

CR \ AB	00	01	11	10
00	0	X	0	X
01	1	X	0	X
11	1	X	1	0
10	0	X	0	0

Confirm = 1

CR \ AB	00	01	11	10
00	0	X	0	X
01	0	X	1	X
11	1	X	1	0
10	0	X	0	0

Confirm = 0

Y = 0

CR \ AB	00	01	11	10
00	0	X	0	X
01	0	X	0	X
11	1	X	1	1
10	0	X	0	0

Confirm = 1

if Pass_data == Password : Y = 1

else : Y = 0

B+ = C.Request(Y'.Confirm + Y'A' + A.Y.Confirm)+ B.Request.Confirm'

CR \ AB	00	01	11	10
00	0	X	0	X
01	0	X	1	X
11	0	X	1	0
10	0	X	0	0

Confirm = 0

In the S2 & S3 & S4 the Y must be hold then

Y+ = Y.A + Compare(Pass_Data & Password).A'

Y = 1

CR \ AB	00	01	11	10
00	0	X	0	X
01	0	X	0	X
11	0	X	1	1
10	0	X	0	0

Confirm = 1