

Bit Stream Definitions 10/9/2023 Version 2.2

Note: Formats assume a starting bit of one. Some access systems use a starting bit of zero.

26 Bit Formats

W26-0		Facility Code								Badge ID																	
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Even Parity																											
Odd Parity																											

Facility Code Range: 0 - 255

Badge ID Range: 0 - 65,535

W26-1		Facility Code								Badge ID																	
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Even Parity																											
Odd Parity																											

Facility Code Range: 0 - 255

Badge ID Range: 0 - 65,535

30 Bit Formats

W30-T	Tech Code				Badge ID																									
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Tech Code Range: 0 - 15

Badge ID Range: 0 - 67,108,863

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32 Bit Formats (MyPass Mobile Credential)

W32-5	Badge ID																															
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Badge ID Range: 0 - 4,294,967,295

35 Bit Formats

W35-0		Facility Code														Badge ID																		35		
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34	
Even Parity																																				
Odd Parity 1																																				
Odd Parity 2																																				

Facility Code Range: 0 - 4,095

Badge ID Range: 0 - 1,048,575

36 Bit Formats

W36-8	Facility Code					Badge ID																															
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	

Facility Code Range: 0 - 31

Badge ID Range: 0 - 2,147,483,647

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37 Bit Formats

W37-0:		Facility Code																	Badge ID																		
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Even Parity																																					
Odd Parity																																					

Facility Code Range: 0 - 65,535

Badge ID Range: 0 - 524,287

W37-1:		Badge ID																																			
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Even Parity																																					
Odd Parity																																					

Badge ID Range: 0 - 34,359,738,367

W37-4:		0	Facility Code					Badge ID																													
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Even Parity																																					
Odd Parity																																					

Facility Code Range: 0 - 31

Badge ID Range: 0 - 536,870,911

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38 Bit Formats

W38-1:		Facility Code								Badge ID																													
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
Even Parity																																							
Odd Parity																																							

Facility Code Range: 0 - 255

Badge ID Range: 0 - 268,435,455

W38-2:	Facility Code								Badge ID																													
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38

Facility Code Range: 0 - 255

Badge ID Range: 0 - 1,073,741,823

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40 Bit Formats

W40-0		Facility Code										Badge ID																													
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
Even Parity																																									
Odd Parity																																									

Facility Code Range: 0 - 1,023

Badge ID Range: 0 - 268,435,455

W40-1		Facility Code																			Badge ID																			
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Even Parity																																								
Odd Parity																																								

Facility Code Range: 0 - 524,287

Badge ID Range: 0 - 524,287

W40-2		Badge ID																																						
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Even Parity																																								
Odd Parity																																								

Badge ID Range: 0 - 274,877,906,943

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46 Bit Formats

W46-T	Technology Code								Facility Code								Badge ID																																			
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46						

Facility Code Range: 0 - 255

Badge ID Range: 0 - 1,073,741,823

Tech Code Range: 0 - 255

56 Bit Formats

W56-0		Badge ID																																																						
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
Even Parity																																																								
Odd Parity																																																								

Badge ID Range: 0 - 72,057,594,037,928,000

W56-1	Facility Code																								Badge ID																															
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	45	46	47	48	49	50	51	52	53	54	55	56	56

Facility Code Range: 0 - 16,777,215

Badge ID Range: 0 - 4,294,967,295

64 Bit Formats

W64-T	Technology Code								0		Badge ID																																																															
Bit Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	45	46	47	48	49	50	51	52	53	54	55	56	56	57	58	59	60	61	62	63	64										

Tech Code Range: 0 - 255

Badge ID Range: 0 - 9,007,199,254,740,991