



50GBASE-AU LFSR example Comment #86 to D1.2

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- Comment #86 to D1.2:
 - According to resolution of comment #82 to draft D1.0, it was agreed per https://www.ieee802.org/3/cz/public/may_2021/perezaranda_3cz_04_0521_lfsr.pdf to include an annex with example LFSR sequence. Because the shift register is initialized with different value depending on the parameter G (1 or 2), example sequence should be provided for both initialization values.
- Suggested Remedy:
 - Rubén Pérez-Aranda to generate similar tables of those for resolution of comment 82 for D1.0, but considering init value for G=2. To include examples for G=1 and G=2 in the same missing annex.
- This contribution provides the LFSR sequence example for G=2 in similar format it was provided for G=1 in https://www.ieee802.org/3/cz/public/may_2021/perezaranda_3cz_04_0521_lfsr.pdf

LFSR sequence for G=2

- The example data is given in a tabular form to facilitate reading of data. The contents of the tables are transmitted from left to right within each row starting from the top row and ending at the bottom row. The tables contain hexadecimal representations of the data. For the hexadecimal representation, the most significant bit of each hex symbol is transmitted first
- Proposal: only data belonging to the beginning and to the end of the Transmit Block is going to be provided in tabular form as example to allow implementation verification in an informative annex
- Complete data of a full Transmit Block might be provided in a separate ASCII file
 - See file 50G_lfsr_sequence.txt

LFSR sequence (G=2) — beginning of Transmit Block



First bit	Last bit	
0	255	4801130404C5921174814D684593153485DE485596057C93174C05D69615B113
256	511	5C1CC4DE7D7116CB7CD0484D2905123096C1DA10678549ADD78261B5C8B60DC6
512	767	8331F94D5F1993D3EA86A65F59CA52CBCC624AD7B80E353C3FCE6EE0DE8CF315
768	1023	75B5DF6C0D920630811BDA44E28431FB52DF10E213CBF946CA19B84D6A3D131D
1024	1279	EAC5F95E7519D6EEEEBB0CCDB1B5501E0FE8773855E77D7D6E4B4B0E0889BF266
1280	1535	2230AB99DAFBAB86937BD9045288936366043C2B12EEB9C2CDBBEA50325C68D0
1536	1791	5F9729519731EE975F4D16D292D02302289D89B638E203FFF90E0018BF006EA3
1792	2047	818DDFC6F190F8BE8B9EA56BB5C71B0DFFE1B100761C81E37C477C4F3E4F1B66
2048	2303	1BE02B6270B838FABCFF97AD819560C69F337933545854FB4D7990935A8A04C7
2304	2559	6D117E02CD470A53BFAC672167AF152D6BDE231A979DE715B96FDC39089EF8A6
2560	2815	349ECBC8344AC4CB0E7149BEFD822488C9806742C1AEAA666DFCAA810CFF44B5
2816	3071	82B08CCB9A754BA4EF8B41C9E8A7C356CCECF055C5B97DF439492AF9803E9AC0
3072	3327	E52663E60ABE6B2FA699294928318034DEC0C9146340DBBCA3032CDD8D2518F2
3328	3583	06EFB118C91CEF40FDCAA389CFDFE3D8907E8E09C57F23F7431E26ADF789E125
3584	3839	E374057C6A174F9D5699BBF12A323C3DD1EEE9AF4CD26A95209F1E1233F741D6
3840	4095	26A7B389CD17E3D2D47EA23BC5D9F2F58B32ACE953E5D1E665AF6AA46A1FC39D
4096	4351	70EFBB7BC93052C05962614938B5807E8CC1C57567F76F2C260B268B29096930
4352	4607	A1105AD4C9463941BBF9A6321A4BD1640AAD222FE219A8796A75D91CED88FDC0
4608	4863	E789E3EDE37E417C46254F3B879B73DDA0769851E12D6F74230A6A9DAC9F3864
4864	5119	337DA2D4485A3B0545F197B53E950E651EBEA6F5A5C8AC45C6E735F8EF4D1FCA
5120	5375	92F0CF02BB5B8BB0C3EB1B6E59E00E4B703E0878E725DFEF05904B94890B9860
5376	5631	ABADB2FB601290304308D92DA708204FA49119400CE9A035D250CDA06B505198
5632	5887	E96EAFD10DE8ACB156E49DF0E0393BF0F8723B9DF1F3B93F373863477DBCBE48
5888	6143	2CA604A4CB10C149CB6583C824CEC4815C7045DFF93590184C886D146582DBA4
6144	6399	CA03414D0CA592B4C48389704FE179187558EDEF3FC148D8E5870FE4DFB86111
6400	6655	3DB4CC6809579421F59A972CA71724CFD70158B785CE85D5DD55BD9BFC28A20E

LFSR sequence (G=2) – end of Transmit Block



First bit	Last bit	
189184	189439	51B38FEE17F84F541D1AFA7AE694D6E91930D0E85B2BD5413ABFA477A143E555
189440	189695	AE67FC6EAC0F8DE639F16BFB3D1A116AE54D1EE792F4ED82A9C0CBF3E34A367C
189696	189951	8DC2CC71EA57FF5C7402DFEA0A105D2D495A2381C59FC7F4B0FC289B8EB623FD
189952	190207	839E08CFB72759070EC89FBC46312F3BDC2B729EB87335BDF54C292F96B02991
190208	190463	98B28EAE937DED0449429301AB05867994DADA990607289B1F3621F3439734AF
190464	190719	9748E99687D2915CA30DDCDD19D181EBAEC75B6C7EC007C4601CF3B07DB719C
190720	190975	807EBC41C5AF27F46B0C2B99B6BBAA01B37D06144A9B5B0F20C1BB136631C42B
190976	191231	DFE2BA9033B708D707A7379D4F45BB9AB433A78AD74DEE36914FC10D98E4B0AF
191232	191487	E09AE87226D5F1883D3EE4EA64E1DCA1F79CD725BD37042A4792BC3D83AEE8CF
191488	191743	6CD75A0536C5164076D221E021977096967A1112D54CC23F9569E19F1376B3C4
191744	191999	6196F3B690B7010A8784AF5DD0EAD9ABDE0A7A972CD7172537D70644B79A3085
192000	192255	A5DA5445847B34D3D14926AD8009E0C02373609C74323FEAD1E05E2F7157AA7D
192256	192511	F57CC92F4D402A93A0BF0752A39EE3DFB4FE9109850CA2D6B4DA318905DEE095
192512	192767	94F21C99B17C2A1D4EBD7B9DAB53B878E73DDFEF69904A12890D4360B3AC3297
192768	193023	66D3162825D3B485A708544FA57B194751E9BEEF5224CAE1814EF6C59CA074BC
193024	193279	D1E8AD2F56E22AF0F9BEBB9A25B3A5841744D256B120719C11FEBE4F05A61B94
193280	193535	4B639B083FA1A4E15641F5F2272D318F225EFB185491ED780F435C3AACDEF7E5
193536	193791	14A466D8C3A80F6F743A0A6AF52C9EAE2435EF82CD49CA5383CC67CED7ACDC35
193792	194047	651ECF26F45B08AB41A6F8A6489ECA06344D1BCB12E2C9C2FA43EA942E5F1AAE
194048	194303	53E7EE666C4EAA871DFF5FF902D0188A286E6DB58E800CFD40358BA0CCEB5355
194304	194559	D8E4FD8FE188F876E79DE0EDB973C03976E0F960F39933B7A857057577976F65
194560	194815	960A24932D800520C016136053443164B2DD20921A120165410527A4960D4013
194816	195071	33A045575137F6EC4420C732937F530442E5932AE4853EE05664F172A1BD73D6
195072	195327	2B76B3B861973DB6976801161404D35A1124C54C017796056593172485D70055
195328	195583	B7817C05C54E15F79F5D25B2DA041205124116C024D0608129B244321032D148
195584	195839	D22D8721A0DF165313D265C6A0A5F9D2C51BA276E358E0FCCFF38D5837F3CCC4



Thank you!