



S2G Data Viewer v2.6.1

Release Notes

Product Fil	les						- 0	ISP Fields				🖆 🗄 🌖 🕲 🗖
Name			Size	Type				Name	Type	Value	Size	
ISPData1.	dat		3840 bytes					▼	Complex	0D 06 EE C9 00 39 10 C9 2E_	64 bytes. 0 bits	
ISPData2.0	dat		133440 by	tes ISP				▼ Packet Primary Header	Complex	0D 06 EE C9 00 39	6 bytes, 0 bits	
								Packet_Version	Binary	000	0 bytes, 3 bits	
								Packet_Identification	Complex	0D 06	1 bytes, 5 bits	
								Packet_Type	Binary		0 bytes, 1 bits	
								 Secondary_Header_Flag 		1	0 bytes, 1 bits	
								▼ ● APID	Hexadecima	05 06	1 bytes, 3 bits	
								PID	Binary	101 0000	0 bytes, 7 bits	
								PCAT	Binary	0110	0 bytes, 4 bits	
								Packet_Sequence_Ctrl	Complex	EE C9	2 bytes, 0 bits	
								Sequence_Flags	Binary	11	0 bytes, 2 bits	
								SSC	UInteger16	11977	1 bytes, 6 bits	
ISP List					û 🕴 🕯	/ 🕘 🖡	+ 🗟 🗖 🗖	Packet_Data_Length	UInteger16	57	2 bytes, 0 bits	
							. –	▼ Packet_Data_Field	Complex	10 C9 2E 00 4D 06 7E 95 00	58 bytes, 0 bits	
SSC	/Packet Prir	nary_Header/Pa	cket Sequen	ce (×	TM_DORIS_ITRF_NAV_Pa		10 C9 2E 00 4D 06 7E 95 00	10 bytes, 0 bits	
								▼	Complex	10 C9 2E	3 bytes, 0 bits	
# Type	Offset	! SSC	APID	Time_Code_Field			Ty Service_Su	Spare	Binary	0	0 bytes, 1 bits	
1 ISP	0 bytes	1197		2020-12-17T		201	46	PUS_Version	Binary	.001	0 bytes, 3 bits	
2 ISP	64 bytes	1197		2020-12-17T			46	Spare	Binary		0 bytes, 4 bits	
3 ISP	128 bytes	1197		2020-12-17T			46	Service_Type	UInteger8	201	1 bytes, 0 bits	
4 ISP	192 bytes	1197		2020-12-17T			46	 Service_Subtype 	UInteger8	46	1 bytes, 0 bits	
5 ISP	256 bytes	1197		2020-12-17T			46	Destination_Id	Binary	00000000	1 bytes, 0 bits	
6 ISP	320 bytes	1197		2020-12-17T			46	▼ ● Time_Code_Field	Complex	4D 06 7E 95 00 00	6 bytes, 0 bits	
7 ISP	384 bytes	1197		2020-12-17T			46	▼ @ Time_Code	Time	2020-12-17T20:13:55.000	4 bytes, 0 bits	
8 ISP	448 bytes	1197		2020-12-17T			46	Coarse_Time	UInteger32	1292271253	4 bytes, 0 bits	
9 ISP	512 bytes	1197		2020-12-17T			46		onnogoroz	11011011100	,	
10 ISP	576 bytes	1198		2020-12-17T			46	Hexadecimal				E 🗄 🥥 🗖
11 ISP	640 bytes	1198		2020-12-17T			46	- Hexadecentar				
12 ISP	704 bytes	1198		2020-12-17T			46			DA OB OC OD OE OF 10 11 12 13		
13 ISP	768 bytes	1198		2020-12-17T			46			4D 06 7E 95 00 00 CA 25 1D E8 E2 3C 17 54 6D E5 1D D2 53 A3		.ÉM.~É%.è.Wèp .f.Æá<.Tmå.ÒS£ö°àÆ
14 ISP	832 bytes	1198		2020-12-17T			46			FF DE 03 00 14 A3 0D 0D EE C9		.EøÿÿÞ£îÉ.9.É
15 ISP	896 bytes	1198		2020-12-17T			46			1D E8 04 57 E8 70 00 00 00 00		É%.è.WèpáÍ.H
16 ISP	960 bytes	1198		2020-12-17T			46			CA 25 06 E9 2F C5 21 AC 63 FB EE C9 00 39 10 C9 2E 00 4D 06		ëóÊ%.é/Å!⊸cûM îÉ.9.ÉM.~
17 ISP	1024 bytes	1198		2020-12-17T			46	000000000000000 CA 25 1D E8	04 57 E8 70 00 00	00 00 1C 39 FD 92 F5 AA B4 43	08 07 AF 22 Ê%.è.₩	lèp9ý.õ≇´C⁻"
18 ISP	1088 bytes	1198		2020-12-17T			46			42 49 00 00 00 45 F8 FF 00 15 4D 06 7E 9F 00 00 CA 25 1D E8		ÖBIEøÿÇ#«Z .ÉM.~Ê%.è.X
19 ISP	1152 bytes	1198		2020-12-17T			46			40 06 7E 9F 00 00 CA 25 10 E8 83 4C 17 09 26 6A 1D A6 40 02		%É.á.L&j.¦@.ōý=.
20 ISP	1216 bytes	1198		2020-12-17T			46	0000000000000000 21 F7 62 B8	00 00 00 43 F8 FF	D3 C2 5E 00 83 15 0D 0D EE CA	00 39 10 C9 !+b	.CøÿÓÂ^îÊ.9.É
21 ISP	1280 bytes	1198		2020-12-17T			46			1D E8 04 58 0F 80 00 00 00 00 24 6E 07 1A C1 98 21 E7 E4 FD	E1 89 9D 3FM.~.	Ê%.è.Xá? C:\$nÁ.!cāýJ
22 ISP	1344 bytes	1198-		2020-12-17T			46	000000000000138 F8 FF 00 00	00 00 C8 2B 0D 0E	EE CA 00 39 10 C9 2E 00 4D 06	7E 9F 00 00 øÿ	É+îÊ.9.ÉM.~
23 ISP	1408 bytes	1198		2020-12-17T			46			00 00 1C 7B 1E 5D F5 EC 90 2D		
24 ISP	1472 bytes	1198		2020-12-17T			46			BC 4F 00 00 00 43 F8 FF 00 15 . 4D 06 7E A9 00 00 CA 25 1D E8	AB 83 E6 59Ç 84 58 36 98îĒ 9	&‰0Cøÿ«.æY .ÉM©Ê%.è.X6.
25 ISP	1536 bytes	1198		2020-12-17T			46	00000000000198 00 00 00 00	EE 77 21 66 1D FB	BF BD 16 BD 5C 75 1D 79 A1 8D	F7 49 DD C9îw	!f.û.‰.%\u.vi.÷IÝÉ
26 ISP	1600 bytes	1198	5 05 0D	2020-12-17T	20:15:1	201	46			12 2D DB 00 E6 ED 0D 0D EE CB 1D E8 04 58 36 90 00 00 00 00		.AøÿÛ.æíîĒ.9.É Ê%.è.X6áFBÙ
								00000000000000000000000000000000000000	/L AS 00 00 CA 25	10 10 04 30 30 30 00 00 00 00	L 40 01 03	

What's new

This release implements the following changes with respect to S2G v2.6.0 released on 19 October 2022:

New Features

• Move icon from main toolbar to Hex panel toolbar (S2G-AN-248)

Software Aspects

• No updates to underlaying software libraries in this release





Bug Fixes

- Running the report on a TF file containing idle frames results in an empty Summary section (S2G-AN-264)
- Transformation TF --> ISP: not correct for TF file including Idle Frames (S2G-AN-265)
- Not possible to discard mission previously added through "Mission Configuration" Import mechanism (S2G-AN-276)
- The feature Tools --> Show Report does not generate any output (S2G-AN-277)

Documentation

• No documentation updates in this release

Available Platforms

S2G is available for Linux 64-bit, macOS and Windows 64-bit.

For each platform, two types of packages are provided: one with the Java Runtime Environment (JRE) embedded in the bundle and one without. Having the JRE included ensures that the application works even if no Java version is installed in your system. The version of the JRE embedded is OpenJDK 11.0.15.

	Distribution Package
Linux 64-bit	s2g-linux.gtk.x86_64.zip
Linux 64-bit with JRE 8 embedded	s2g-linux.gtk.x86_64.withJRE.zip
macOS	s2g-macosx.cocoa.x86_64.dmg
macOS with JRE 8 embedded	s2g-macosx.cocoa.x86_64.withJRE.dmg
Windows 64-bit	s2g-win32.win32.x86_64.zip
Windows 64-bit with JRE 8 embedded	s2g-win32.win32.x86_64.withJRE.zip

Note: For macOS package (no embedded JRE), it is required to have JDK 11 installed. For Linux/Windows packages with no embedded JRE, having JRE 11 is sufficient.





Mission Support

The S2G distribution package includes mission configuration files (JAR archive containing XML file and schema files) for the following missions:

- Aeolus (X-Band)
- Biomass (X-Band)
- CRISTAL (X-Band, no CFDP encapsulation)
- EarthCARE (S-Band and X-Band)
- FLEX (X-Band)
- MetOp-SG-A (Ka-Band)
- MetOp-SG-B (Ka-Band)
- MTG (Ka-Band)
- Sentinel-1 (X-Band)
- Sentinel-2 (X-Band)
- Sentinel-3 (X-Band)
- Sentinel-4 (Ka-Band)
- Sentinel-5 (X-Band)
- Sentinel-5P (X-Band)
- Sentinel-6 (X-Band)
- Seosat (X-Band)
- SMOS (S-Band and X-Band)
- Swarm (S-Band)

The user is notified about the availability of mission configuration files for new missions or about updates to the existing missions when starting-up S2G or through the "Help—>Check for Updates" menu option.

 Note that schema versions available under the 'Check for updates' mechanism are only compatible with S2G v2.5.2 and above. Similarly, older schema versions will not work in S2G v2.5.2. For details about the format changes, see Annex 3 in Mission Specification Schemas document: S2G Mission Specification Schemas S2G-DME-TEC-SUM092-1D.pdf

Latest versions of the mission schema files are also available at <u>MISSION</u> <u>SCHEMA FILES</u>.

Note that it is possible for the users to include additional data type definitions in the default mission schema files delivered with the S2G application. This may be typically the case for dedicated ISP data definitions. The <u>S2G</u> <u>Helpdesk</u> can include the user extensions as part of the default schemas





distributed with the application and guide users in the customisation process. Please send your requests (together with the extended schemas files) to the <u>S2G Helpdesk</u>.

Known Problems

The current S2G release has the following open issues:

• Support CADU without Reed Solomon coding (CADU = Sync Marker + Data Space) (S2G-AN-267)

Further Information

For more details, please have a look to the S2G User Manual: S2G User Manual S2G-DME-TEC-SUM023-1J.pdf

Contact

For questions, suggestions or reporting issues, please send an e-mail to the S2G Helpdesk:

s2g@eopp.esa.int