

## BSR E1.31 PR1 comment resolutions

CP/2025-2004

Comment #	Section	Comment	Resolution	Notes
1	General	The draft document shows as password protected in some PDF viewers, something I've never experienced in the past with a document draft or otherwise. [TSM note: All public review drafts are write-protected]	No Action	Public review drafts are write-protected.
2	General	Still clear and functional, just a few minor new things, and some follow ups from some previous comment resolutions.	No Action	Thank you for being a dedicated reviewer!
3	General	At no point throughout the entire document (that I can see) for either E1.31 Data or Synchronisation packets, does it clarify that they should roll over, it just says "The sequence number for a universe shall be incremented by one for every packet sent on that universe."	Accept	The text has been updated to clarify that sequence numbers should roll over to zero once the maximum value has been reached.
4	4.3: E1.31 Universe Discovery Packet	4.3 has "This list of universes may include synchronization universes" whereas 8.5 has "Otherwise, it shall enumerate all of the universes upon which a source is actively transmitting E1.31 Data or Synchronization information.". Is it that it shall contain synchronization universes if the device is transmitting them, or are they actually an optional inclusion. I can't see any way (apart from subscribing and receiving) to establish if a universe has data too if a Receiver wished to offer the user a way to easily select universes Sources were currently reporting they were transmitting on.	Accept in principle	The text in 4.3 has been updated to include the fact that synchronization universes MUST be included in the list of universes if they are being actively transmitted upon.
5	6.3: E1.31 Synchronization Packet Framing Layer	The descriptions for octets 40-43 should include the word Extended somewhere and not DMP as I understand it given 7 has "DMP data only appears in E1.31 Data Packets and shall not be included in E1.31 Synchronization Packets or E1.31 Universe Discovery Packets"	Accept in part	Document has been updated to reflect that these octets represent synchronization information in this instance.
6	6.7.1 Network Data Loss	Previous comment 2. Just to flag that the link to "Section 6.2.6 Options" is still not a hyperlink, compared to say Table 4-1 in the same paragraph, so the reference could become stale again in future (as well as being less usable).	Accept in principle	We have updated all of the section and table reference in the entire document such that they are hyperlinks.
7	6.7.1 Network Data Loss	Previous comment 4. "In order to mitigate jitter on a lossy network, Receivers experiencing a network data loss condition on an E1.31 universe need not immediately reflect that change to their E1.31 Universe Discovery List of Universes, and may instead wait to report it until no later than the second E131_UNIVERSE_DISCOVERY_INTERVAL has transpired" would imply that the Receiver transmits a list of discovered universes, but 8 has "Universes upon which data is being transmitted." and 8.2 has "Receivers shall discard the packet if the received value is not VECTOR_UNIVERSE_DISCOVERY_UNIVERSE_LIST." which along with other wording implies the transmitter sends it, so I'm unclear what reporting the Receiver should do, is this just internally to the user? Maybe using something like "the reported list of universes", rather than using the special term "List of Universes" would make it clearer? Or have I misunderstood something fairly fundamental about how discovery is supposed to work (I know someone else at a European PLASA plugfest commented they'd got mixed up with which way round discovery worked at first).	Accept	This is a mistake in the document. This standard doesn't really have any effect on the Receiver's user interface, so we have chosen, instead to, update 6.7.1.1 with some of the commenter's wording from comment #9 in this Public Review.
8	8: Universe Discovery Layer	Previous comment 5. Previous resolution said "Source maximum packet size is unspecified, and so receivers are required to handle arbitrary packet spanning." however the standard says "Sorted list of up to 512 16-bit universes" and includes an octet count. So I can't see anything explicitly ruling out 10 packets of 50 universes and hence it would be good to flag to consumers to pay attention to the page number too. Or did you mean source minimum packet size in the rejection?	Reject	This does not seem to be referencing the document, but a previous comment resolution. It is not clear any action needs to be taken in the text. The page number is included in the packet so that receivers use it and pay attention to it.
9	12: Universe Discovery	Previous comment 10. I don't believe 6.7.1.1 gives any relevant guidance, it talks about lack of data from the universe itself, not an issue with the Universe Discovery data. Adding a sequence number (which was the same for all pages in a group) would trivially resolve this issue, but I appreciate break compatibility with anything currently implementing the standard. I still feel there would be some benefit in a single line along the lines of "Receivers should be aware that due to jitter or packet loss, pages may be dropped or arrive out of order, potentially even mixed in between different runs of pages. Receivers should handle this as they see fit."	Accept in part	This is a fair point. We have used some of the commenter's original text in a rewrite of 6.7.1.1.

10	Table B-14: Universe Synchronization Example E1.31 Synchronization Packet	Looking at B-14 compared to B-13, the descriptions for octets 18-21 and 40-43 are identical; in table B-14 should 18-21 not include the word Extended somewhere and 40-43 say synchronisation rather than DMP.	Accept in part	The field description for octets 18-21 is correct. This field can take multiple values, such as VECTOR_ROOT_E131_DATA or VECTOR_ROOT_E131_EXTENDED, but the description describes the field, which is one of the 1.31 Protocol PDUs. The field description for 40-43 is incorrect for B-14 and has been corrected.
11	Table B-14: Universe Synchronization Example E1.31 Synchronization Packet	Assuming decimal representation, then the sequence number 367 in a one-byte field is impossible. I appreciate it wants to be obviously different to B-13, perhaps make this 236?	Accept	Whoops. This is now 236, as suggested.