

ECN for USB Power Delivery Specification Revision 3.2

Version 1.1, 2024-10

Title: FRS steps update

Brief description of the functional changes:

FRS flows were completely rewritten. See new FRS chapter for complete flow.

Benefits as a result of the changes:

The FRS steps were not actually functional and would always lead to failure if someone followed the spec. People were passing because they did not follow some orphaned and hidden requirements.
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An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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No impact

An analysis of the hardware implications:
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Better understanding of timings that must be met. Some steps will have to change but likely most of the existing solutions actually more closely match the updated FRS steps than the previous ones.
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An analysis of the software implications:
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No implications

An analysis of the compliance testing implications:
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Compliance is not checking these steps that were clarified.
