

Flexible OTN (FlexO) Overview

G.709.1, G.709.3, G.709.5, G.709.6

The initial FlexO Recommendation G.709.1 *Flexible OTN short-reach interfaces* approved in 2017 provided a frame format and interface for short-reach point-to-point applications that used inverse multiplexing (bonding) to carry beyond-100G (B100G) OTN signals over multiple 100G modules.

The current restructured set of FlexO Recommendations provides support for:

- Short-reach applications.
- Long-reach applications.
- Modules using bit rates of 100G, 200G, 400G, and 800G.
- Regenerators to support multi-span applications.
- Frame formats and interfaces optimized for Ethernet.

The FlexO Recommendations have been used as the basis for interface specifications in the OIF, OpenZR+ MSA, and the OpenROADM MSA that address different applications.

To facilitate reuse of the base specifications, the FlexO Recommendations were restructured to make it easier for other SDOs or MSAs to reference the parts of the specifications that are relevant to their target applications. Having a common set of base specifications that are referenced by other SDOs/MSAs for specific applications will encourage the development of devices that can be reused across a wide range of applications.

An overview of the new restructured series of FlexO Recommendations is provided in Figure 1.

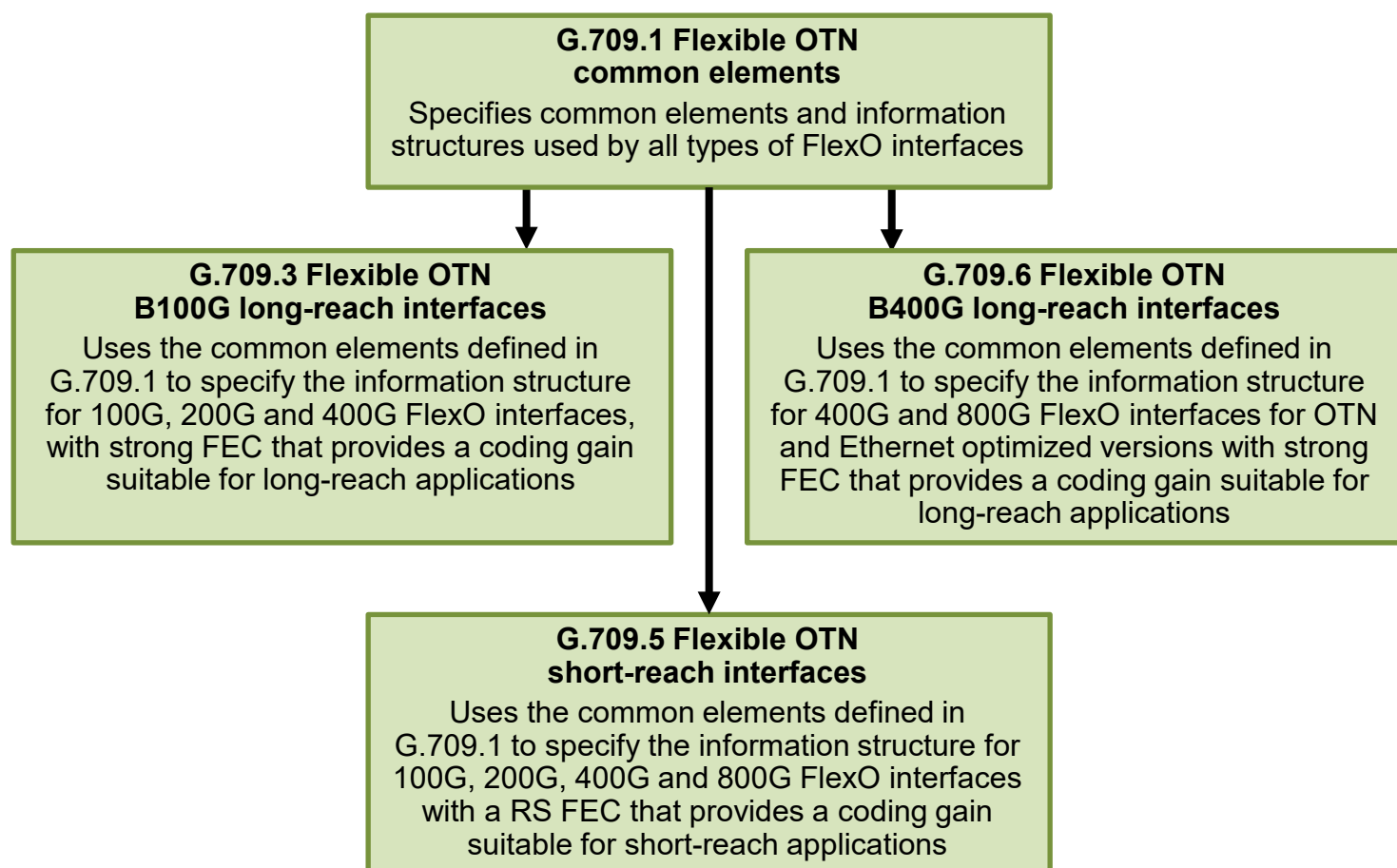


Figure 1 – FlexO Recommendations