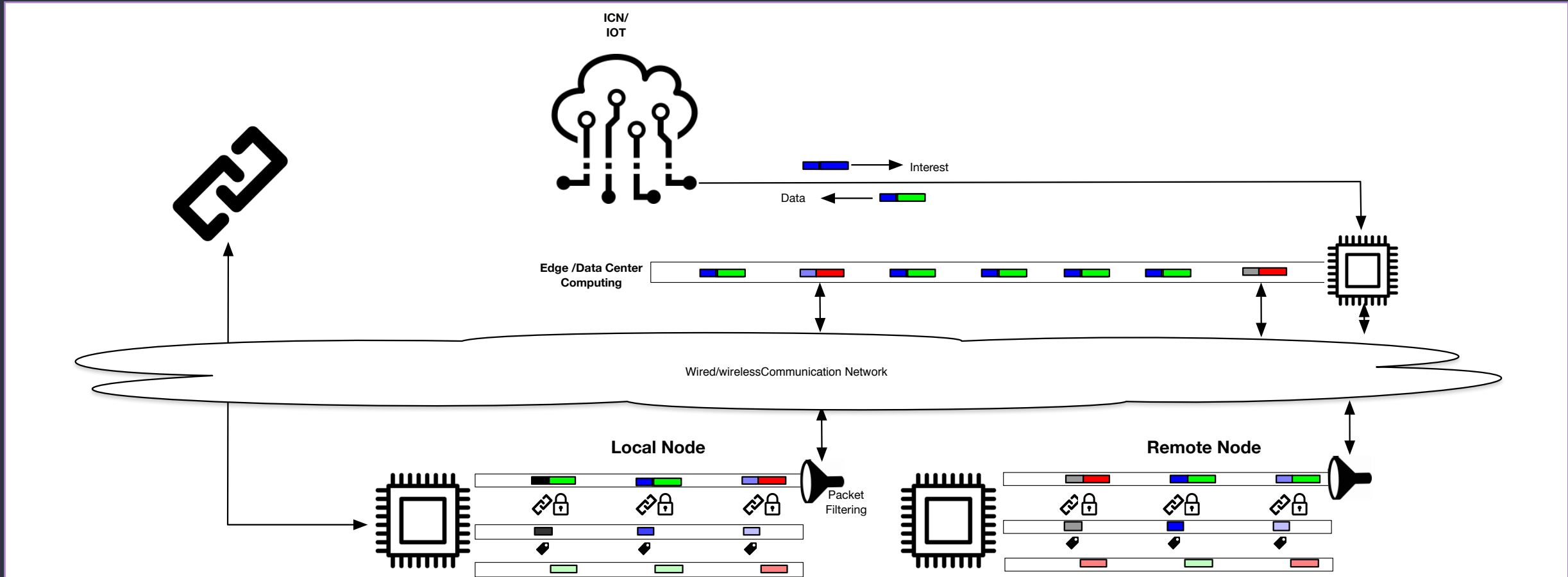# NETWORK CODING AND CRITICAL EVENTS

IoT and Industrial Processes

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COMMON DISTRIBUTED DATA LAYER

HARDWARE ARCHITECTURE

Combine filtering and computing

- The programmable data plane enables:

  - Line speed data filtering

  - Content-based routing

  - Telemetry and analytics

  - Use of P4 language on Tofino for programmability

- Filtered information can be transmitted or sent to a GPU/CPU for processing:

  - Netcache architecture (Xin, John Hopkins)

  - Data analysis

  - **Mission critical messaging**

  - Rendering for AR/VR and gaming

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