'port breakout feature workflow with CMIS'

port_config.ini	CONFIG_DB	xcvrd	xcvrd CMIS thread

populate subport numbers for a physical port (to undergo breakout)

For each physical port broken out into 'N' logical ports, there are 'N' PORT_TABLEs

port_config.ini → CONFIG_DB: **parse & populate subport # to each 'logical/breakout' port PORT_TABLE**

xcvrd subscribes to CONFIG (redis) DB on its initlalization

loop [xcvrd on detecting optics presence or any port config update, exercises the following sequence]

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xcvrd → CONFIG_DB: **read speed, lanes & subport info for each PORT_TABLE**

loop [Determine Active 'Host' Lanes (per subport i.e. per PORT_TABLE)]

xcvrd → xcvrd CMIS thread: **Use above-mentioned fields of a PORT_TABLE to perform look-up in appl_dict**

xcvrd → xcvrd CMIS thread: **xcvrd to check Table 6.1 (of CMIS v5.2) to find the desired application (for the inserted optical module)**

xcvrd → xcvrd CMIS thread: **Determine HostLaneMask per subport**

HostLaneMask is the Active Lanes for the specified subport (i.e. breakout port)

loop [Bring each breakout port/interface link up]

CMIS FSM handling for each subport (breakout port)

xcvrd → xcvrd CMIS thread: **xcvrd to use the Active Lanes (per subport) to initiate CMIS FSM for the specified subport**

xcvrd → xcvrd CMIS thread: **Orchestrate CMIS FSM workflow all the way to CMIS_STATE_READY**

xcvrd → xcvrd CMIS thread: **Run through entire CMIS FSM for each breakout port link to reach 'opertionally up' state**

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