PGCB + CDC Revision 1.23.4 Release Notes

PGCB Changes:

RTL Changes:

■ No Change.

Doc/Assertion/Environment Changes:

- [1805838597] TFM update to MAT 1.5 and HDK 1.5 TSA ver. 1813.18ww13d
 - Spyglass Lint tool enablement
 - Spyglass CDC tool enablement
- □ IPDS Score 99% with TFM HDK with MAT 1.5 / 1813.18ww13d

CDC Changes:

RTL Changes:

No Change.

Doc/Assertion/Environment Changes:

- □ [1406527877] Fixed assertion for clkreg/clkack in ClockDomainController to reference the correct clock
- [1805838597] TFM update to MAT 1.5 and HDK 1.5
 - Spyglass Lint tool enablement
 - Spyglass CDC tool enablement
- □ IPDS Score 99% with TFM HDK with MAT 1.5 / 1813.18ww13d

PGCB + CDC Revision 1.23.3 Release Notes

PGCB Changes:

RTL Changes:

No Change.

Doc/Assertion/Environment Changes:

- □ [220410622] TSA migrated to EIG1713.
- □ [1504401548] Invalid file names causing turnin issue (issue found on some projects)- Fixed
- □ IPDS Score 99% with TFM HDK with MAT 1.05.02 / EIG1713.

CDC Changes:

RTL Changes:

No Change.

Doc/Assertion/Environment Changes:

- [220650395] Asynchronous deassertion of SB reset during wam reset causes system failure (Global reset) –this is a future fix. There is a PMC/punit FW workaround for this issue, attached in the HSD, IRR and also copied in the drop in the following folder:
 - $PGCB_with_CDC_PICO_2017WW41_R1.23.3_V0/doc/PGCB_CDC_Potential_Issue_and_FW_Workaround_for_Async_Reset_De-assertion_on_Warm_Reset_Exit.pptx$
- □ [220410622] TSA migrated to EIG1713.

- □ [1504401548] Invalid file names causing turnin issue (issue found on some projects) Fixed
- □ IPDS Score 99% with TFM HDK with MAT 1.05.02 / EIG1713.

Refer to ZirconQA IP Dashboard for IPDS Scoring on this release:

https://zircon.fm.intel.com/zircon/zirconIPDashboardTable.php?top_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter_checkbox=0&Proj_id=5663&IP_id

PGCB + CDC Revision 1.23.2 Release Notes

PGCB Changes:

RTL Changes:

No Change.

Doc/Assertion/Environment Changes:

- CDC Lint Enabled.
- □ IPDS Score 99% with TFM HDK with MAT 1.4.1 / EIG1639.

CDC Changes:

RTL Changes:

No Change.

Doc/Assertion/Environment Changes:

- □ CDC Lint Enabled. CDC constraints updated.
- □ IPDS Score 99% with TFM HDK with MAT 1.4.1 / EIG1639.

Refer to ZirconQA IP Dashboard for IPDS Scoring on this release:

https://zircon.fm.intel.com/zircon/zirconIPDashboardTable.php?top_filter_checkbox=0&Proj_id=5663&IP_id=21764&milestone_filter=4&Ver_id=25&App_id=all&showlatest=0

PGCB + CDC Revision 1.23.1 Release Notes

PGCB Changes:

RTL Changes:

□ Updated Intel Copyright header per Lintra required regex.

Doc/Assertion/Environment Changes:

☐ TFM updated to HDK with MAT 1.4.1 / EIG1639. Refer to <IP_ROOT>/README.txt for more details.

CDC Changes:

RTL Changes:

□ Updated Intel Copyright header per Lintra required regex.

Doc/Assertion/Environment Changes:

☐ TFM updated to HDK with MAT 1.4.1 / EIG1639. Refer to <IP ROOT>/README.txt for more details.

^{*}TSA 1.05.02/EIG1713 pending DTS tool issue resolution.

Refer to ZirconQA IP Dashboard for IPDS Scoring on this release:

https://zircon.fm.intel.com/zircon/zircon/zirconReleaseDashboardTable.php?top_filter_checkbox=0&Proj_id=13013&IP_id=21764&milestone_filter=4&Ver_id=25&App_id=1&showlatest=0

PGCB + CDC Revision 1.23 Release Notes

PGCB Changes:

RTL Changes:

□ [1405184871] Enhancement - Add new SCAN DFT control signal to PGCB component.

Doc/Assertion/Environment Changes:

□ [1404088966] Doc update - DFX override diagram update.

CDC Changes:

RTL Changes:

There are no RTL changes to CDC.

Doc/Assertion/Environment Changes:

□ [1604198999] – Assertion clock and sampled-value function \$past clock did not match. Replaced clock with pgcb_clk.

PGCB + CDC Revision 1.22 Release Notes

PGCB Changes:

There are no changes to PGCB.

CDC Changes:

RTL Changes: Hotfixes to 1.21 release

- □ [1504110638] Defect For IPs with PGCB clock frequency faster than main clock only: CDC state machine could get stuck at CDC_OFF_PENDING state in case the CDC logic misses clkack negation before asserting next clkreg.
- □ [1604083741] Defect Combo logic between clock domain crossing. In the meta-stability enhancement logic added in rev 1.21, a flop is missing for one signal crossing from PGCB to Main clock domain. There is a possibility that the signal can cause glitch and cause undesirable behavior.

Doc/Assertion/Environment Changes:.

- □ [1207792508] Assertion Enhancement Relax assertion to avoid false fails during 3to1 meta-stability model simulation.
- □ [1404875888] Assertion Enhancement– Turn off X-prop checks on SVA behavioral codes. The assertions checks are still performed.

PGCB + CDC Revision 1.21 Release Notes

Common Changes:

RTL Changes:

PGCB CTECH map file update – Meta-Stability Required Parameter and define changes.

Doc/Assertion/Environment Changes:

- ☐ [1404074824] Assertion improvements for reset awareness:
- ☐ Tool version upgrades
- Updated Lintra Waivers
- Updated CDC Waivers

CDC Changes:

RTL Changes:

- □ [1404136840] Defect CG_LOCK_ISM=1 and ISM_AGT_IS_NS=0: CDC component should assert ism_lock 1 clock earlier to lock agent ISM.
- □ [1206405592] Enhancement Xprop tool compliant coding update. No functional change.
- □ [1503996414] Enhancement Logic enhancement to avoid potential timing issue with PowerGateReady signal caused by meta-stability during IP-Accessible entry.
- □ [1504001217] Enhancement Logic enhancement to prevent spurious unlock_all assertion during IP-Inaccessible entry due to meta-stability issue
- □ [1207621082] Enhancement Potential race/deadlock condition due to unlock_ism signal (cdc_restore_pg) assertion could cause issue in CDC S/M

Doc/Assertion/Environment Changes:.

☐ [1504089630] aClkreq hold assertions in CdcMainClock fail if pgcb reset b

PGCB Changes:

RTL Changes:

□ [1404446776] Defect – 1.16 Hot Fix for BXT-E0 Warm Reset Bug: Changes related to support for synchronous reset support for Warm Reset flow.

Doc/Assertion/Environment Changes:

☐ [1404351430] PGCB asserts enhancement for config register value change.

PGCB + CDC + PCGU Revision 1.20 Release Notes

Approximate Normalized Gate Counts:

Module	Approx. Gate Count
Pgcbunit	900
ClockDomainController	1600
Pcgu	280
pcgu_aww	100

Common Changes:

Significant Changes:

[2281759] Requirement - Provide .sig files for VISA insertion

• With this release of the PGCB blocks, we are providing .sig files to be used by the IP to insert VISA within the blocks using the VISA insertion tool. The *_visa vector outputs are still available but it is recommended that IPs let them dangle and instead use the provided .sig files to enable easier silicon debug.

[2267263] Requirement - Updated to SIP CTECH methodology – requires integrating IPs to include global CTECH libraries in their ACE environment

Doc/Assertion/Environment Changes:

[2392384] Replaced `ifdef ASSERT ON with `ifndef SVA OFF so assertions are enabled by default

[2266993] Removed ASSERT ON in HDL files

[2246425] Updated CDC Waivers

CDC Changes: (interface changes and new parameters are highlighted)

RTL Changes:

[2244996] Requirement - fism_dfx_clkgate_ovrd now ungates gclock instead of gate (Chassis ECN: 1570764)

[2247919] Enhancement - Added SCAN Reset Bypass muxes on reset b and pok reset b inputs to CDC

[2392454] Enhancement - fismdfx_force_clkreq now keeps PGD fully awake and unlocked (instead of just asserting clkreq)

[2280804] Enhancement – clkreq output is now driven only from pgcb clk domain (rather than mix between pgcb/func clk)

[1275945] Enhancement – Added prescc clock input for CDCs that are used pre-SCC

[2266757] Enhancement – CDC FSM now always waits for clkack to assert before moving out of a parked state

[2245023] Enhancement – CDC only looks at clkgate disabled in ON state to prevent potential hang scenario

[2267264] Defect - Moved u_gclockEnAckSync to long clock tree branch

[2280824] Defect – CDC always moves from RESTORE to ON to prevent potential hang scenario returning to PGATE

[2244989] Defect – ISM will now unlock in SYNCON_ISM when CG_LOCK_ISM is set

[2244791] Defect – gclock_active now deassert 8 clocks before gclock is gated

Doc/Assertion/Environment Changes:

[2243993] Documented that it is acceptable for the CDC be in the process of gating clocks while sleep toggles on IP-Inaccessible PG entry

[2249492] Called out need to waive Caliber violations regarding logic on reset due to DFx and force_rst_b

[2246461] Updated a_pgcb_pwrgate_active_2 assertion

[2245424] Assertion updates

[2244732] Clarified ITBITS min values is 3

[2245761] Updated to state greset_b is synchronized to clock instead of gclock

[2245509] Clarified gclock_active behavior in spec

PGCB Changes: (interface changes and new parameters are highlighted)

RTL Changes:

[2247555] Requirement – PGCB to support SCAN Dump

- DFx Sequencer updated:
 - Decoupled pgcb_bypass and pgcb_ovr, so the Sequencer can be moved to a specific state before invoking overrides
 - Changed reset state of DFX Sequencer to be Powered On [2244571]

[2280823] Requirement - Provided option for PGCB to force on clocks while power is ramping for contention clearing

• Renamed ip_pgcb_frc_clk_srst_en to ip_pgcb_frc_clk_srst_cc_en, when set PGCB asserts pgcb_ip_force_clks_on and waits for ip_pgcb_force_clks_on_ack before requesting power-up from PMC, deassertion of force_clks_on remains the same.

[2280825] Requirement – DFx Sequencer now deasserts sleep before deasserting reset to initialize SR cells

[2244992] Requirement – New pgcb_sleep2 output added to provide means for multiple state-retention domains (XHCI request)

IP's not using pgcb_sleep2 can let it dangle

[2267262] Enhancement – Replaced RTL muxes with mx22 muxes in DFx logic for better glitch prevention

[2279699] Defect - Updated boundary_locked to assert when clocks are gated when ISM_AGT_IS_NS is set

Doc/Assertion/Environment Changes:

[2266897] Cleaned up assertions with potential Large Memory Footprints

[2244151] Updated IP-Inaccessible waveforms to show pg rdy ack b deasserting at the same time as pwrgate active

[2249492] Called out need to waive Caliber violations regarding logic on reset due to DFx and force_rst_b

[2245081] Misc. doc updates

[2267412] Moved Reset States Table for DEF_PWRON to IO Table section and clarified that values are only for DEF_PWRON==1

[2247058] Updated doc to show UNGATE TIMER encodings

PCGU Changes: (interface changes and new parameters are highlighted)

RTL Changes:

[2280815] Fix to avoid potential glitch on pgcb clkreq when pgcb rst b asserts gracefully

- PCGU:
 - o Removed async_pgcb_rst_b input, added async_pmc_ip_wake and pgcb_pok input
 - Added DEF_PWRON parameter
- PCGU AWW:
 - o sync_wakes_source_b now stays asserted until sync_clkvld is high
- PGCBCG Reference Design:
 - o Integrated new PCGU
 - Removed async_pgcb_rst_b and cfg_pgcb_clkgate_disabled inputs

[2266758] Updated PGCBCG reference design to contain clock gate cell

Removed sync clkvld output, added pgcb gclk output

Doc/Assertion/Environment Changes:

[2267629] Fixed typos in PCGU HDL file

PGCB + CDC Revision 1.15 Release Notes

CDC Changes:

Release of Version 1.15 with fix for the issue below:

[HSD: 2243998] IOSF primary compliance issue seen with CDC v1.1 version (ISMPM 033)

PGCB Changes:

NO changes to PGCB for this version.

PGCB + CDC Revision 1.1 Release Notes

CDC Changes: interface changes and new parameters are highlighted).

Release of Version 1.1 with following changes:

- 2 new input DFx signals (fscan_clkgenctrl*) and other bypass logic added to support usage of the CDC in pre-SCC mode. 1
 new output signal (gclock_enable_final) added to support SCC related considerations (refer to Appendix for more
 information). Added new parameter, PRESCC, for this change.
- Support for separating out functional clock (on short clock tree) controlled by clock_gate within CDC from functional clock used by other logic within CDC (SD requirement) – for details, refer to section on CDC Behavior Details. Addition of new parameters related to this change - DSYNC_CG_EN, FLOP_CG_EN and CG_LOCK_ISM.
- 3. Support for Restore of IP blocks that are powered-ON by default (Chassis PG ECN 1570775).
- 4. Several documentation updates (see change bars)

5. New module CdcMainCg.sv has been added for CDC

Implemented the following HSDs:

Key changes:

[HSD: 1277154] CDC PV violation with clock-gate combi logic

[HSD: 1277155] CDC needs parameter to allow it to be used preSCC

[HSD: 1277156] [BXT] PGCB/CDC need ability to default to restore state

Corner-case bugs (some are related to above changes):

[HSD: 2243684] CDC should treat ism_agent as gclock_req_sync

[HSD: 2243686] CDC boundary_locked does not default to locked

[HSD: 2243688] CDC could hang in FORCE_READY

[HSD: 2243801] CDC to add parameter to support assertion of ISM_LOCK with de-assertion of gclock_active

Assertion fixes:

[HSD: 2243601] [ASSERTION] CDC a_ism_agent_1 is looking at sync version of gclock_req_async

[HSD: 1276710] [ASSERTION] CDC Clkgate holdoff assertion fires falsely for IP-Inaccessible Entry

[HSD: 1276742] [ASSERTION] CDC a_reset_b_1 assertion needs to be disabled for DEF_PWRON

PGCB Changes:

- NO interface/parameter changes.
- Version 1.1 release with following minor updates:
 - Change to reset state for case of DEF_PWRON == '1' (Chassis ECN 1570775) HSD: 1277156
 PGCB/CDC need ability to default to Restore state .
 - Documentation updates (see change bars)

PGCB + CDC Revision 1.0 Release Notes

NOTE: For the CDC, certain existing requirements and behavior have been more clearly documented. For the PGCB, there are clarifications with reference to the requirement on the pg_rdy_req_b handshake (applicable to IPs that do not use the CDC). Please refer to the changebars in the corresponding integration documents for details.

CDC Interface Changes:

• New Ports:

Signal Name	Dir	Description	Instructions
fismdfx_clkgate_ovrd	input	DFx override to force GATE the gclock output	Connect to fism[p s]dfx_clkgate_ovrd at IP top-level if this CDC controls an IOSF clock, otherwise can tie 0

New Parameters:

Parameter	Description	Instructions
Name		

ISM_AGT_IS_NS	If this is set to '1', the *_locked signals are driven as the output of a flop. However, if this is '0' (default value), then the locked signals assert combinatorial manner (in the same cycle that the CDC logic determines that conditions to lock the ISM are satisfied). The de-assertion of the *_locked signals always happens through the output of a flop.	Please refer to section 3.4.1 of the integration guide. Note: a value of '1' will produce 0.8 locking behavior
RSTR_B4_FORCE	If set to '0' (default), the CDC will ignore RESTORE if pwrgate_force asserts (legacy behavior) If set to '1', ensures the CDC will complete any pending RESTORE flow before honoring pwrgate_force.	For SPT, IP's should set this to '0' as restore is not POR. For other projects, if a restore is required to completed after a PG exit before starting to do an IP-Inaccessible entry, then this should be set to '1'

PGCB Interface Changes:

• Port Changes:

Old Signal Name	New Signal Name	Change Description	Instructions
ftap_tck	pgcb_tck	Updating name to avoid confusion with ftap_tck from cluster tap	pgcb_tck should be mapped to an IP top level port of the same name. This tck should not be gated by the cluster tap.

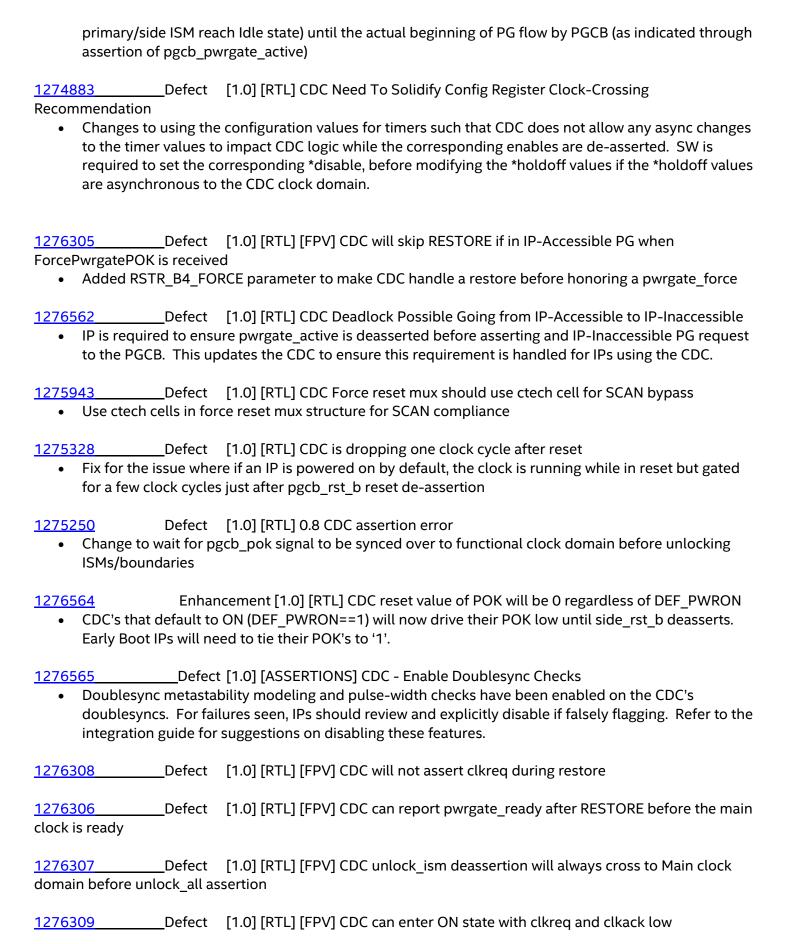
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<u>1275944</u> Enhancement [1.0] [RTL] CDC Pre-Flop ISM Locked Update (Parameterized)

Change to cause ism_locked signal and boundary_locked signals to assert in combinatorial manner in response to ISM idle or clkreq de-assertion followed by hysteresis expiration (a parameter, ISM_AGT_IS_NS, is provided to revert to v0.8 behavior – flopped version) – motivation is to support ISM pre-locking even for those cases where next_state is not available

Enhancement [1.0] [RTL] CDC should implement DFx ISM clockgate override

- Support for fism[p|s]dfx_clkgate_ovrd (applicable for CDCs that control prim/side_clk domains)
- <u>1276028</u> Enhancement [1.0] [RTL] CDC to keep clocks ungated during IP-Inaccessible Entry
 - Change to ungate (and keep ungated) the clocks during IP-Inaccessible PG entry flow (to support cases where some part of an IP may require a clock from different domain in order to let the



1276310 Defect [1.0] [RTL] [FPV] CDC clock should ungate in CGATE if force pgate req

1276311	Defect [1.0]	[RTL] [FPV] CDC breaks gclock_req/ack in RESTORE
1276548 synchronizers	Defect [1.0]	RTL] [FPV] CDC Race between unlock_all and force_pgate_req
1275787	Enhancement	[1.0] [ASSERTIONS] Power Gating Assertions needed in CDC/PGCB
1275024	Enhancement	[1.0] [WAIVER] CDC/PGCB lintra waivers for Rev0.8
1274997	Enhancement	[1.0] [ASSERTION] PGCB/CDC assertions missing on I/Os
1275343 available on IP-Ina	Enhancement accessible exit	[1.0] [DOC] CDC documentation to call out requirement that clocks be
1275588	Enhancement	[1.0] [DOC] CDC Documentation Update for clock gate disable
	now assert pgcb_	[RTL] PGCB needs to assert pgcb_sleep in IP-Inaccessible flows sleep during IP-Inaccessible flows (removed workaround). The VCS leasserting while resets are asserted has been fixed.
1276108 • Port name		at [1.0] [RTL] Change PGCB ftap_tck port name to pgcb_tck o_tck to pgcb_tck
1276045 • If the DFx S		at [1.0] [RTL] PGCB DFx overrides for pgcb_pok AND pgcb_pwrgate_active bled, it will also control pgcb_pok and pgcb_pwrgate_active
1275787	Enhancemer	at [1.0] [ASSERTIONS] Power Gating Assertions needed in CDC/PGCB
1275024	Enhancemer	at [1.0] [WAIVER] CDC/PGCB lintra waivers for Rev0.8
1275942 1276566		at [1.0] [DOC] PGCB Spec Needs to Better Document sleep_en behavior [RTL] PGCB Restore Updates

PGCB + CDC Revision 0.80 Release Notes

CDC Interface Changes:

New Ports:

Signal Name	Dir	Description	Instructions
fismdfx_force_clkreq	input	DFx force assert clkreq	Connect to fism[p s]dfx_force_clkreq if this CDC controls an IOSF clock, otherwise can tie 0

cdc_visa[23:0] ou	cput CDC observability signals	Connect to IP's VISA muxes (lane in on Visa mux) Recommendation is that the IP has at least a small ULM in the AON domain which the CDC and PGCB VISA signals would connect to
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• Port Changes:

Old Signal Name	New Signal Name	Change Description	Instructions
pgcb_reset_b	pgcb_rst_b	Updating name to match Integration Guide + PGCB	Map existing connection to new port name
dt_clkungate	fscan_clkungate	Updating to Chassis naming convention	Update the connection to new name
dt_scanrst_b	fscan_byprst_b[RST+DRIVE_POK:0]	Updating to Chassis naming convention and updating to have per-reset-synchronizer controls, the total number will be: # resets in CDC + 1 (if DRIVE_POK is set)	Concatenate this vector with other fscan_byprst_b vectors in IP and bring to the top level.
dt_scanrstbypen	fscan_rstbypen[RST+DRIVE_POK:0]	Updating to Chassis naming convention and updating to have per-reset-synchronizer controls, the total number will be: # resets in CDC + 1 (if DRIVE_POK is set)	Concatenate this vector with other fscan_rstbypen vectors in IP and bring to the top level.

PGCB Interface Changes:

• New Parameters:

Parameter Name	Description	Instructions
UNGATE_TIMER	PGCB DFx Sequencer Power On Timer Duration	Bring to IP Top Level (default to 2'b01)
USE_DFX_SEQ	PGCB DFx switch to disable DFx sequencer	Bring to IP Top Level (default to 1) Project Specific Parameter: SPT: 1 – will be using the Sequencer

BXT: 0 – will not be using the
seguencer

New Ports

Signal Name	Dir	Description	Instructions
ftap_tck	input	JTAG clock used by PGCB DFx Sequencer	Bring to IP Top Level
fdfx_powergood_rst_b	input	DFx reset used by PGCB DFx Sequencer	Bring to IP Top Level
pmc_pgcb_fet_en_b	input	PFET Enable from PMC	Connect to IP Top level PFET Enable Port
pgcb_ip_fet_en_b	output	PFET Enable with DFx Override	Final PFET control to be hooked up in UPF
fdfx_pgcb_bypass	input	PGCB DFx Bypass Enable	Bring to IP Top Level
fdfx_pgcb_ovr	input	PGCB DFx Sequencer Control (1=Power Up, 2=Power Down)	Bring to IP Top Level
fscan_ret_ctrl	input	DFx Override Value for sleep (if fscan_mode==1)	Bring to IP Top Level
fscan_mode	input	DFX Override Enable for sleep	Bring to IP Top Level

Removed Ports

Signal Name	Dir	Description
pgcb_force_prim_rst_b	output	Defeatured in 0.71, now removed
ip_pgcb_fuse_valid	input	Defeatured in 0.71, now removed

Port Changes:

Old Signal Name	New Signal Name	Change Description	Instructions
pgcb_visa[15:0]	pgcb_visa[23:0]	Increasing size of VISA vector	Connect to always-on VISA ULM

- The following existing ports are now used during Warm Reset when frc_clk_srst_en==1
 - o cfg_trsvd0[1:0]
 - o cfg_trsvd1[1:0]

CDC HSDs:

- HSD 1274581 (Enhancement) [0.8] CDC needs observability signals (VISA)
- HSD 1274316 (Enhancement) [0.8] CDC needs clkreq DFx overrides
- HSD 1274469 (Enhancement) [0.8] CDC needs to use CTECHs for reset forcing structure

- HSD 1274580 (Enhancement) [0.8] CDC to implement 0 cycle clock ungate
- HSD 1274682 (Defect) [0.8] CDC should reset to ON PENDING if DEF PWRON == 1
- HSD 1274584 (Defect) [0.8] CDC Large input cone for idle timer causing PV violations
- HSD 1274685 (Defect) [0.8] CDC will not always wake up if power gated and powergated_enabled conditions change
- HSD 1274684 (Defect) [0.8] CDC powergateready should enforce priority of pmc_ip_wake
- HSD 1274683 (Defect) CDC FSM should reset on pgcb_rst_b
- HSD 1274578 (Defect) [0.8] CDC needs per-reset SCAN bypass controls
 - o Per-reset mux bypass signals added
 - Updated signal names on CDC:
 - dt_scanrst_b -> fscan_byprst_b
 - dt_scanrstbypen -> fscan_rstbypen
- HSD 1274582 (Defect) [0.8] CDC should lock ISMs/Boundary in CGATE states for IP-Inaccessible PG
 - ISMs will be locked in CGATE/CGATE_PENDING states for a forced PG entry, live ISM state will then be ignored until PG entry/exit are complete
 - For a forced pg entry, gclock_req will be ignored in the CGATE_PENDING state
 - Fixed issue where timer will not expire in CGATE_PENDING if do_force_pgate=1 and gclock_req=1, so the FSM hangs here.
- HSD 1274583 (Defect) [0.8] CDC idle timer rolls over if cfg_clkreq_ctl_disabled is set
- HSD 1274633 (Defect) [0.8] Need Lintra waivers for CDC/PGCB violations

PGCB HSDs:

- HSD 1274633 (Defect) [0.8] Need Lintra waivers for CDC/PGCB violations
- HSD 1274074 (Enhancement) [0.8] PGCB Rev0.7rc should provide a mechanism to enable synchronous reset propagation during the Warm Reset Flow
 - PGCB will now force clocks on in WARM Reset if frc_clk_srst_en==1 to allow resets to propagate to sync-reset logic
- HSD 1274295 (Enhancement) [0.8] PGCB should wait for all_pg_rst_up before deasserting force clks on during context propagation window
 - Moved waiting for all_pg_rst_up on arc from CLKSOFFACK_CP -> ACCSRETLOW, to arc from CLKSONACK_CP -> CLKSOFF_CP
- HDS 1274669 (Enhancement) [0.8] PGCB needs to add Non-Functional DFx Hooks
 - Implemented DFx Sequencer and override latches/muxes
 - New Interface Signals:
 - jtag tck
 - fdfx_powergood_rst_b
 - pmc_pgcb_fet_en_b

- pgcb_ip_fet_en_b
- fdfx_pgcb_bypass
- fdfx_pgcb_ovr
- fscan_ret_ctrl
- fscan_mode
- HSD 1274297 (Defect) [0.8] PGCB should not stagger force resets- need to remvoe force_prim_rst_b pin and fuse_valid pin from PGCB
 - Removed force_late_rst_b and ip_pgcb_fuse_valid and renamed force_early_rst_b to force_rst_b
 - This is to fix the bug regarding async reset deassertion while the clocks are running